MOESAC

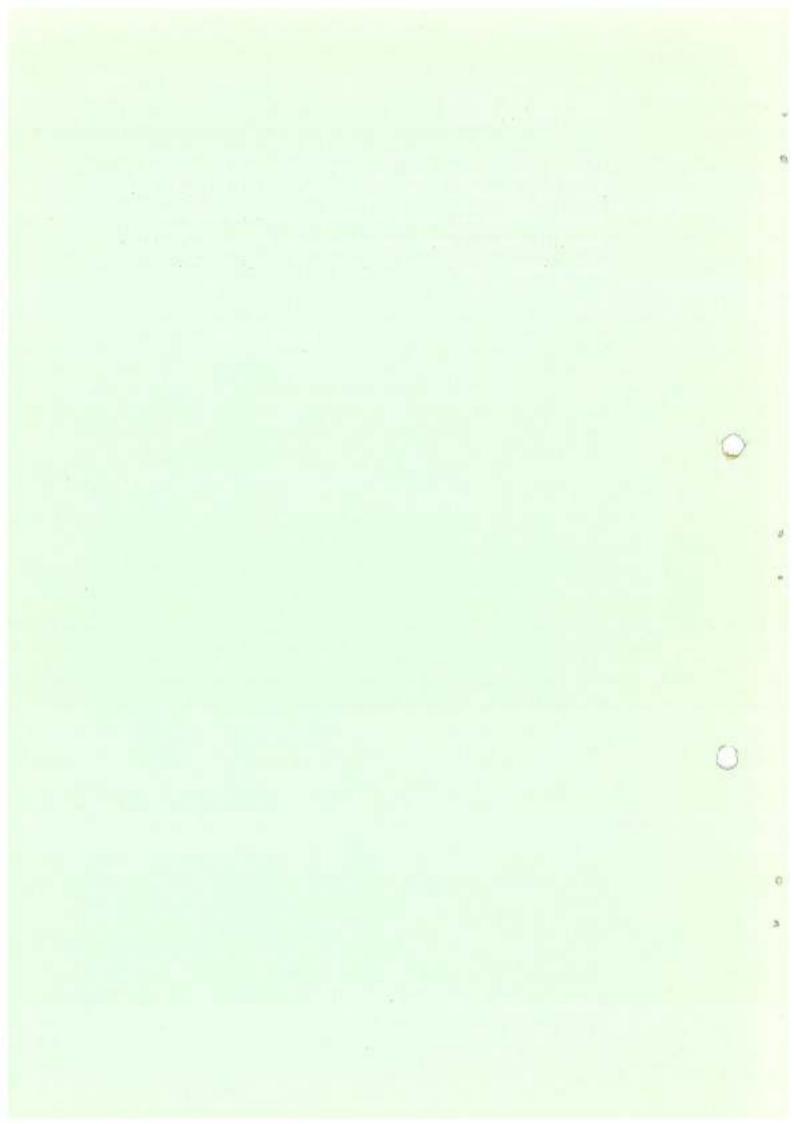
april 1980



NOTE FROM THE EDITOR

I would like to thank all the contributors and the journals that were plagianised. Nuch to my amazement I had very little trouble getting articles from people (generally only after a week of continuous pestering and threats). I hope you get as much enjoyment from it as I have in putting it together.

ELAINE MURPHY



UNIVERSITY OF NEW SOUTH WALES BUSHWALKING & MOUNTAINEERING CLUB

OFFICE BEARERS 1979/80

PRESIDENT: Mike Drew (663 1905)

VICE PRESIDENT & WALKS SECRETARY: Andy Blakers (399 5610)

TREASURER: Ken Wilson (30 7352)

SECRETARY: Judy Johnson (95 1428)

CONVENORS: Bushwalking - Mike McClusky

Rock Climbing - Dave Wagland (46 2541)

Canyoning - Bill Blunt Skiing - Greg & Sue (

Skiing - Greg & Sue Cave (476 6530)
Mountaineering - Bruce Spry (524 5560)

Orienteering - Peter & Robyn Tuft (698 8540)

SPORTS ASSOCIATION REPRESENTATIVES: Peter Rigg (663 4488)
Bruce Spry (524 5560)

N.S.W. FEDERATION REPRESENTATIVES: Rob Jung (858 3740)

Rob Evans (412 2449)

SEARCH & RESCUE CONTACTS: Caves
Tofts

Bruce Spry

GEAR CUSTODIAN: Peter Rigg (663 4488)

CLUB GEAR

This article contains an inventory of club goar as at the end of February, 1980.

BUSHWALKING GEAR

PACKS 2 Frame sacks

1 Alpine sports day sack

2 Green day sacks

SLEEPING BAGS

1.Kiandra

1 Synthotic

TENTS: 2 Paddies 3 man tents

1 Flinders Rangers 3 man tent

COMPASES: 5 Silva

CANYONING GEAR

ROPES: 1 120 foot laid mylon

2 95 foot laid nylon

ABSAILING:

5 sets (2 screwgate crabs + piton)

TWO HARPOONS

ONE LILO

SKI TOURING GEAR

SMON TENTS (only to be pitched on snow to protect the floors)

- 2 2man Ce-Ab 2 poles each
- 1 3man Ce-Ab 2 poles
- 1 Paddies snow tent no poles
- 1 Bergans Ignell 2 man 1 set black poles
- 2. Force 10 2man with poles
- 2 Taiwan tents 18 white fibreglass poles each.

ICE CLIMBING GEAR

CRAMPONS: 3pairs size 2

1pair size 1

FIVE ICE AXES

TWO DEAD BOYS

ROCK CLINDING GEAR

- 21 Hexentrics
- 11 stoppers
- 15 Assorted trall Hexes
- 2 Moaes
- 2 Piton Hammers
- 1 Pair Cloggers

SAFETY MELMETS 1 Ultimate, 3 Compton Elimber, 3Joe Brown.

ROPES: 91mm, 11mm.

MAISTLINES

CARABINERS.

24 HOUR ORIENTEERING OR ROGAINING

Rogaining is an activity which involves a team of 2 to 4 persons navigating to as many checkpoints as possible within 24 hours. You may think that it only appeals to massochists (and you're probably right) but it is a satisfying way of listing navigation, endurance, and other bushwalking skills (like how to light a fire when you get lost at night).

The club normally enters at least one women's and one men's team (last year had 2 of each) in the intervarsity Rogalning. This year's event is to be hosted by New England University in August. Another event which is open to the general public hopefully will also be on later this year.

Some highlights that can be enjoyed:

- (1) Collisions with electric fences at night.
- (2) Being left in the dark when the torch breaks (it was also misty and no moon).
- (3) Wombets (the growling veriety).
- (4) A herd of cattle stampeding towards you In the night (these were disturbed by another team at the other end of a paddock.)
- (5) Being shot at by angry farmers.
- (6) Being laughed at by friendly farmers.
- (7) Wading through streams to avoid scrubby banks.
- (8) Climbing a long steep hill only to find that the checkpoint is on the next knoll).
- (9) Following a road (which doesn't exist according to the map) in the wrong direction for 5 hours.
- (10) Walking off the map.
- . (11) All members of the party losing their maps.
 - (12) Aching Joints and muscles.
 - (13) 24 hours of rain.

Now that I've convinced you that regaining is good fun, why not consider going in the I.V. or the open 24 hour event.

ROBYN TUFT



OUTDOOR EXERCISE,

THE DEADLY ENEMY OF CULTURAL ACTIVITY

I'm warden



"One danger to a sound and healthy public spirit in Australia is the inordinate appetite for sports and amusements. Outdoor exercises . . . are excellent within rational limits; but man in a civilised state has capacities for something more, and lives under obligations to use his capacities for much higher objects"

Sir Henry Parkes, 1892.

"I talk to the trees, But they don't listen to me".

Anonymous lunatic.

"... the world is divided into Indoor People and Outdoor People. The first are a society's Mozarts, Rembrandts and Patrick Whites; the second are its Genghis Khans, Boston Stranglers and Jeff Thomsons. Exercise is anotherna to the brain cells of Indoor People".

combustion chains. in the days before the invention of that Work Of The Devil, the internal telling us incredible lies about the huge distances they were wont to walk ALL of us have suffered rightwous car-bathings from gnaried grandparents,

did us good", they wheeze, in a tune that suggests that every subsequent hundredweight of encyclopaedius was nothing to their generation. "It Brindahellas and back every day to attend school whilst carrying several A 300-mile round trip to an outside dunny, a hike across the

generation has been a generation of physical and moral weaklings.

evangelical ring. suggest exercise in the Great Outdoors have that familiar geniatric and not of the guarled generation, but their moralisings on the virtues of and from those parliamentarians who have lent their support. They are those energetic souls responsible for Camberra's 'Life. Be in it' exmpaign, It comes as a nasty shock to have to take similar sermons from

'Don't Kick Kittens', to disagree with it is to sound like an opponent of all that is Right, and Good and Decent and Australian. 'Life. He In It' is one of those clever, invulnerable stogans. Like

outdoor exercise was the deadly enemy of cultural creativity. good point at her sparsely-accended press conference when she argued that I thought that their 100 kilo spokesperson, Mrs Bobo Hulk, made a very Of Sluth (headquarters Lethargy House) has received so little publicity. This is why the counter-campaign of the ACT branch of Friends

suddenly Bash! Bash! Bash! at the door and in pour his ghastly neighwalks? Imagine Leonardo da Vincs, his brush loaded with paint, sil set to been forever badgering him to go and take his bovine neighbours for long put the linishing touches to the Mona Lisa's enigmatic smith, when Would Michelangelo ever have got anything done if his society had

bours to drug him down to the nearest-oval to kick a ball around!

Exercise is anotherna to the brain cells of Indoor People, second are its Genghis Khans, Boston Stranglers and Jeff Thomsons The first are society's Mozarts, Rembrandts and Patrick Whites; the For the world is divided into Indoor People and Outdoor People

and then stay in after school and do a million pushups. His victims all ably low IQ. They were made to play rugby, naked, in howling hadstorms went on to be great men of letters, archbishops, and professors of Old atrocities at the hands of Mr Ribernsher, a games master with an unspeak-(and sometimes even New) Norse, At my school the obese and the unathletic suffered terrible

Sparta was a nation of Mr Ribereshers and Sonny London but was

nation of Outdoor People. They would turn us into philistines. whose notion of violent exercise was the opening and shutting of his exclusively by poets and dreamers and by orators like Demosthenes, mouth. The Lifewalk afferonados would have us all like the Spartans, a culturally culipsed by neighbouring Athens which was peopled almost

leading intellectual. If ever there was an Outdoor Person par excellence in hostility to the more aesthetic dimensions of life because of Goliath, their The Bible's Philistines have won this deserved reputation for

was young Goldach.

nightingale's song, not play the viola in string quarters, or scribble sonnets in praise of the which carries from Civic to Queanbeyan on a still night. Such people do shekels of heass", and with a voice that put the wind up the Israelites and the size of "a weaver's beam", wearing a coat that weight "five thousand Canberra ovel, all 5 cubits (more than 3 metres) of him, carrying a spear Picture him now . . . humbering energetically down to the nearest

daffodit in sight. despicable dog will savage a skylark or his vandalistic kiddles uprove every beautiful and profound thoughts without the distracting fear that his walker, the pale aesthete who wanders o'er the lea with a head full of for walks with hateful neighbours, have ganged up on him. He is the lone philistenism; but the Lifewalkers, with their egalitarian insistence on going There is, however, one species of Outdoor Person who avoids

the lone footslogger's Bible. 'Revertes Of A Solitary Walker' in 1765. his name might suggest, but a son of France. It was Rousseau who wrote the givat thinker and writer Jean Jacques Rousseau, not an Irishman, as coming in the other direction. But the most famous lune walker of all was complex German, Goethe, who claimed that one day he met himself Wordsworth and Coleridge were habitual lone walkers. So was that

Rousseauesque

tence that exercise will Do Us Good. something early evangelical and Rousseauesque in the Litewalker's insisgot round to insisting that we should be "forced to walk" too. There is mankind might have to be "forced to be free". Given time he would have the Lifewalker's pattern saint. It was he, you recall, who threatened that Rousseau, in spite of his inegalitarian approach, could well become

because I was terrified that a uniformed Fun Squad might beat un my door and ask me, through clenched teeth, why I was not outside doing I did join the Lifewalkers on the evening of the 4th, But only

mysell Good. "We have ways of making you Be in Life, Sir",

other hand I might be soliuth. If he wants you to go for a jog in the park then go. He's terrible when he'v angry. the door. It may be your meek, inconventual neighbours, but on the touches to your latest symphony, don't ignore that thunderous knock on Should you daye to be indoors one evening, putting the fittishing

ROARING JELLY

PROGRAMME NOTES

At the Club B.B.Q. in May, the musical group "Roaring Jelly" will be inflicting itself upon those attending. Forewarned is forearmed, they say, and for the sake of unsuspecting Club members, here are the programme notes pertinent to the group.

Curricula vitae

Lead recorder player: Robyn Pufted, qualified as a recorder player at the Further Mongolian School of Metallurgy. Nhat has that esteemed institution to do with recorder playing, you might ask! So did we! Robyn's repertoire is quite extensive, and runs to yak-calls. And so, what might appear to the uncultured as a discordant note is really a charming little yak-call, skillfully worked in ab lib, to add some ethnic flavour to an otherwise questionable performance. This is Robyn's second season with "Roaring Jelly".

Load recorder player: (note no-one plays second anything in Roaring Jelly): Maestro Andreivich Blakovsky was forcibly defected from the famed Vladiswostoch Recorder Quintet while on tour to Liberia, in 1973. (The orders from Moscow were quite explicit: don't bring him back!). The Maestro then conducted a triumphal tour of the snake charming schools of Greenland, coming then to Nepal, and finally the squalor of Canberra and Sydney. A Latin American influence can be detected in the Maestriois playing, reflected in a different sense of rhythym to the rest of the rest of the group (NB. the word is different, not wrong!) As this is his first season with "Roaring Jelly", one can hope for the best.

First, Second, and Third Violinist (N.B. three positions means three lots of pay!): Maurice Fitzcatshowler claims descent from the legendary Irish fiddler Paddy Pitzcatshowler, who was shot by the British in 1834 for his musical abominations. Maurice continues in this grand tradition his playing being mentioned in last year's Ammesty International Report as an example of "cruel and unusual punishment." Maurice exhibits a superior disdain of the written note; this does cause some problems with the remaining members of the group. Some of Maurice's unique stylistic interpretations may also result from his use of yellow Klister ski wax on his bow. Maurice claims in some way to lead the group succeeding Attila the the Hun, who retired with a nervous breakdown.

Premier Guitar Player? If Grandissimo Maestro, Brucesco Sprung, won the under 7 egg and spoon race at the Sutherland Hospital Fete in 1962: this overpowering achievment was the highlight of his musical career, which has progressed steedily downhill ever since. Brucesco is the world's greatest living exponent of the Anglo-Franco-Germano-Russo-Spanish-Groeco-Kurdish-Turko-Ludian guitar style: indeed, he is the only exponent of this style in the world.

Lagerphonist: a devotee of the punk school of lagerphone playing, Peter Puffed is currently bludging at the taxpayer's expense on an Arts Council Grant of \$15,000. In full cry, he is quite a site to behold: hair dyed screaming pink, ice-axe through his nose, ice-screws through various other appendages, and specially sharpened crampons to add to finishing touch. Perhaps this attire helps him fend his way through the thousands of screaming fans who attend his every public performance.

Lead Guitar Player: on tour at the moment from the Munich Looney Bin, Michael Hoffnung spends most of the performance in a battle to the death with Brucesco Spring, over who is the better player. This arrangement suits everyone, since then neither of them can play. The whacks and blows add a suitably syncopated bass to the percussion section.

First Guitar Player: So most of the actual guitar playing is done by Jeanette McDonald-Duck triumphal gold medallist at the Cobar West Eistedford in 1968. Jeanette favours Plamenco style for her Irish Jigs, and does Scottish Airs blue-grass style.

Flautist: discovering at age that she was a rhythmic and tone-deaf, Joan Judystone decided on a musical career, finding "Roaring Jelly" to be the best vehicle for displaying her remarkable talents. At age 20, it was pointed out to her that you blow in the other end of the flute; whether this has improved her style, is unclear.

Mouth-organist: Ian O'Belch, who was described by the music critic of the Balmain Trendy as "having a propensity to gestalt-prone hypercongnition of the id." Ne haven't a clue what this means, but include him anyway.



CHOCS by Tony Mills

The purpose of this article is to make available to this climbing world in general the outstanding results of the intensive research that has been carried out at an undisclosed place in the southern hemisphere, which are about to revolvt onise the whole concept of alpinism, ice climbing and the logistics of high altitude climbing.

The subject of this research is what are scientifically refurred to as Consumable Pitons and Beleys. The basis for this research is a fact that has been known to climbers of all nations for many years, but has hitherto been totally overlooked. It is, in its simplest form that, as the ambient temperature decreases so the texture of chocolate becomes harder and more rigid. Anybody who has aftempted to eat a bar of chocolate, or God forbid, a Mars bar, in the middle of a Scottish gully, will bear witness to this. Surely we could use this phenomenon to our advantage. The research team selected

a variety of proprietary brands of chocolate and later other sugar based confections, and carried out stress resistance tests on them when they had been hammered into ordinary grande cracks, in a varying range of temporatures. The results summarised on the accompanying graph were

astnunding.
We can see that the standard sized bar of Calbury Milk Checolate yielded a strength of 4,000 kg at — 12 C increasing to an astomishing 6,000 kg at — 25 C, whilst Galaxy despite being "so full of milk it almost moos" yields a maximum stress factor of 2,500 kg at — 18 C. This inherent weakness in this product is prebably due to as high fat contest.
Chocolate Auro Bars were disappointing despite their lightness and it is pre-

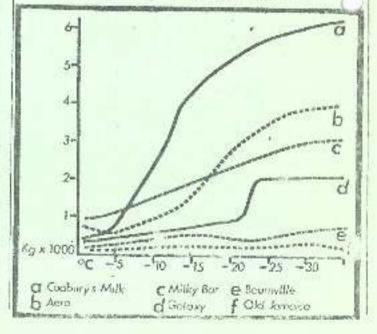
Chocolate Agro Bars were disampointing despite their lightness and if is expected that this is due to the format of the bar, rather than the holes in the material, although there dises seem to be fittle control over the thickness of the walls surrounding the holes perhaps if this vare standardized suits would approve. The Milky Bar far from the insipid object suggested by its appearance

proved to be the strongest at high temperatures, seeming In retain its strength even though it has become rather soft and flexible. It is difficult to see when in snow though. We have recently moulded the chocolate into a range of conventional pitch shapes celled Choca-pegs, but with the exception of the blade pegs we have found that the normal shaped blocks of varying thickness gave the better performance Tests with conventional boxes of Milk Tray led to interesting discoveries with the many shapes, When used as nots, these Choco-Chacks as we may cell them, seem certain to supersede their orthodox aluminium counterparts. In particular the walnut whirt is proving to be a very versatile shape. The urp and rurp are sure also to be superseded by the choco ate drop, in two sizes, known for short as the BUHP Bits-sized Ultimate Reality Piton) and the StURP [Succulent Lickable, Ultimate Reality Piton). The great thing about these is that the heat created when hammering the BURP in causes the chocolate to soften and then, as the heat dissipates, weld itself on to the sides of the crack, giving much greater holding power then the conventional piton Thus far we have only mentioned the rockclimbing applications in low temperatures of these commodifies, but prohably their real importance is in ice climbing. This is due to the natural surface adhesion between chocolate and snow and ice, which is much greater than for any of the normally used altoys. Thus miatively small chocolate bars with holes bured in the centre make excellent deadmen when placed horizontally or vertically in the conventional T shaped slot, which however needs to be very much smaller than usual, thus saving tone and effort. We shall be producing in the near future a selection of Chacolate Snow-men, although you may choose to bore (or chew) your awa hates. The second major innevation in ice-climbing come from our second line of research, where we did not tost pure chocolate items but what we termed Mixed Material Munches Immin's for shorts

These included all-time favourites such as Mars and Bounty Bars, only the former of which is it necessary to describe due to its popularity in mountaineering circles. In short the Mars har may be hammered into even the hardest ice slopes providing a small placement pit is created first. Once fixed it provides an ice pitus of unprecedented holding power, giving three times the halding power and strength of any previous piton or screw and in a range of temperatures and joe types. It probably owes its great strength to the reinforcing strip of toffee which becomes extremely strong at low temperatures (Another advantage of Mars bars is, if the ice dinner plates, you can always use the dinner plate to eat the Mars bar from). But, to be serious again, Mars bars are difficult to remove but this difficulty can be overcome for practical purposes by the simple expedient of the second chewing off the protruding portion, and provided that alternate leads are employed, each climber will receive his fair share of sustenance whilst in action, thus removing the necessity of time-wasting lunch breaks. Further, should retreat be necessary there is a ready supply of food available on the way down. this worth mentioning here that the reader should avoid. the use of (a) dark chocolate and (b) mixed bars such as Old Jamaica, Fruit and Nut. and the like, at all costs. These are dangerous, their strength is only in their Mayour

These discoveries have for reaching consequences

when considering highaltitude logistics. No long is it necessary to haul huge quantities of useless aluminium and steel as well as tons of food up the mountain. All that is necessary is to balance the number of Mars and chocolate bars so that the summit assault camp can. balance security against starvation ideally using the last bar on the summit. (Perhaps Howntree will produce giant Mers bars for usc as snow-stakes). Of course on the way down no hage amount of metal need be left behind, the mountain can be cleared by simply eating. Thus no longer with emaciated skeletons arriving at base camp, no longer will whole camps endure the privations of insufficient food when storm-bound. On this point, we did test suger based confections particularly Kendal Mins Cake, and produced a reasonably successful type of mint-flavoured angle (Mangles) but on the whole we recommend the use of Kendal Mint Cake simply sitting on the top and nibbling, locking at the world below" etc. To conclude, this research offers up ideas for many future possibilities; are the insulating qualities of cancy flass superior to those of left. for inner boots or Fibrefill and down for sleeping bays; would Brighton rock provide a material suitable for iceexe shafts, adjustable in length by chewing of course: should we carry rucksacks with a reinigerated compartment to keep thins hard during the walk- n or hut-grind? The possibilities are andless Perhaps one day in the future, we'll all be climbing the frozen Lemonado Springs on route to an ascent of "That big Rock Candy Mountain*



One of our club members (Mark Foster) turned 21 recently, and I could not let the artistic license of his father's impression of him slip into obscurity.



DRY YOUR OWN

If you're a carnivorous bushwalker, this article is for you. It is a cheap and simple way of coping with the problem of providing meat after the first or second day of a bushkalk. Do you ever scan the shelves of dehyds with mounting frustration, looking for some meat product reasonably cheap yet appetising and nutritious ? Your eyes light on the Mountain House rock where they are tempted by such delights as Tuna a la Neptune and Scripp Creole (conscientiously passing over the blackberris with granola and other dessert delights): truly tempting, until you realise that you could dive in a restaurant for less money. Next comes a sight to warm the cockles of your wallet: Rosella catering packs, cheap fore even if you est double or triple serves; but if you actually buy a packet you will realise that finding the meat is like a S & R operation, and the victim is usually dead on discovery anyway, drowned in a flash flood of farmhouse spew. So what do you settle on? Yes, it has to be Alliance again. More meaty and more paletable than Rosella, less extravagant than Mountain House - a good compromise.

But you can do a lot better yourself. For a couple of hours work you can make your own tasty dried meat, using a traditional Indonesian recipe. The result is tasty and keeps very well (I've eaten it 15 months after preparation, although it was admittedly losing some of its fresh spicy tang by then!) If you follow the instructions carefully, it is quite safe and can be stored at room temp. The masties are kept at bay by the high salt content and the spices. The resulting product is chery, rather pleasantly so, and can be stewed up (or curried) to soften it a bit, but it will never get as tender as commercial preparations. It is however, substantially cheaper and very tasty. Try it and see what you think,

INDONESIAN DRIED SPICED MEAT

1 kg lean beef with all fat trimmed off (the tenderer the cut, the tenderer the final product, but even gravy beef works fine).

5 ths vegitable oil

2 cloves garlie, crushed

1/2 tsp grated green ginger

2 tsp ground coriander

1 tsp ground comin

I tsp trasi or blachan (Indian or Malaysian shrimp paste)

Pstsp salt

Itsp sambal ulek or 1 chopped fresh chilli (hot)

6 ths dark soy sauce

2tbs tamanid liquid (can use lemon juice or vinegar)

3tsp palm nyar or raw sugar.

Cut stack into very thin slices (1/8" - 4" thick) up to 5cm long and 2cm wide. Heat oil in large saucepan or wok or cast from frying pan. Fry garlic, ginger, coriander, rumin and trasi for 1 minute, then add salt, sambal ulek, soy sauce and tamanid liquid. Add meat and stir - fry till coated with spices. Reduce to simmering heat, cover pan, and cook gently for 30-35 minutes more, stirring occasionally. Continue if necessary till liquid has dried up (but don't lot it burn). Now spread the meat in a SINGLE layer in 1 or more baking dishes or trays. Put in low oven (125 degrees C or 250 degrees F) for 30 minutes or till almost black on top. Turn meat and continue cooking a further 20-30 minutes. Meat must be cooked till quite dry and very dark brown all over. Oil should be visible on the pan where it has seeped out of the meat. Make sure meat has no oil on it, cool and store.

...

The spices can be varied a bit to taste but don't cut down on salt, spy sauce, garlic or chillies, as these are probably all important preservatives.

Retrospective

Memories fade and the snarp edge of dreams blunt themselves against the brick walls of life's realities. And though certain incidents and places stand out most clearly from all of past experiences, even these may become hazy round the edges when compared with the physical being of places as they are revisited. It takes the physical reality of being; the pain of broken limbs and uncertainty of future abilities to make one consider one's achievements of the past. Even when seen in black and white, (or colour in the event of using Ektachrome) I find it hard to believe that I have actually done such things as climbed in New Zealand, or Australia for that matter.

I don't know how I got into all this. Just turned up at a meeting one night and there it was.

"What do you want to do?" asked this guy called Paul who was the president.

"Just climb, I guess", says I slumping further into the orange plastic chair so that no one else can see me. I guess what really got me interested was the mystery and glamour of dangling by a mylon thread. At least that's what I thought it was like.

And what is it really like. Dammed hard work if you ask me. Pretty basic stuff but a lot of sweating and straining. And what do you get out of it? That depends very much on how much sweating and straining you do. In fact I would say that the amount of personal satisfaction is directly proportional to the sum of the sweat squared plus the cube of the intramuscular cohesive strain. Then again there are all the side benefits. Like people for instance. The more involved you get, the more people you meet, and that's what it is all about isn't it.

People!

If it wasn't for all the people, I would probably have given it all away long ago and taken up something like Engineering (but I did that anyway).

So to the future. Where does it lead? Who really knows but there's a lot of rocks I haven't seen yet. And a lot of snow that hasn't even fallen from the sky. Lots of places really do get a grip on a person. Places like South America, Europe, The Himalayas. Maybe even New Guinea or even Antarctica. All this of course depends on the people who want to go. That's most important.

tast, but least of all, there's me. What has this club done for me. Well. (thinks about three days) ... I guess (meaning I'm not terribly sure about it) this club has helped me to meet some very nice people, including myself. Because while the body was sweating and straining, the mind had a chance to slip into neutral and find out about this person it was living in. What's he like? Why don't you come on a trip some time and find out.

Anyway, this is getting us nowhere, so I'll just say thanks to all the people who have been or will appear in my dreams and memories.

BEGINNERS TRIP

WENTWORTH FALLS TO KATOOMBA (the hard way)

15-16 March 1980

The journey was designed to be a simple and enjoyable one for nature loving beginners - nothing more than a pleasant and stimulating stroll in the Blue Mountains. Each wide-eyed beginner carried his weekend rations, survival campstyle, with a view for optimum lightness, as had been advised by many an experienced bushwalker. On the other hand, expecting a simple trip our wise leaders carried such knee-buckling items as rock melons, pineapples, kilograms of grapes, corn on the cob, honey, cartons of orange juice, slabs of cheese, loaves of bread, and so on. In any case, the journey proved more than even they had bargained for.

The morning of day one brought spectacular views of Mount Solitary and the surrounding countryside, with a pleasant trudge down a well-established forestry road towards the Valley floor. Leaving the track at the base of the cliffs, we bush-bashed through the midday heat towards Kedumba creek.

Here our ascent of Mount Solitary began. Trustingly we followed our beloved leaders, complaining little as the gradient of the land became steeper and steeper, and the melon-filled packs became heavier and heavier. Eventually the gradient could only be discribed by the word 'vertical', and our easy beginners trip gradually slipped from 'medium' to 'hard' as nightfall neared. Somehow, it seemed, the right path had become lost.

In desparation we camped in an unplanned, inforsaken spot somewhere between the top and bottom of mount Solitary. However, morale lifted as experienced walker and beginners respectively brought forth milk, honey, and baked beans for the night meal.

Early next morning more cliff-face stunts up 'The Col' brought us to the summit of Mount Solitary, where we encountered many breath-taking views of the mountains as we hiked across the plateau to lunch in our originally planned campsite at Chinaman's gully. By now our weak beginners bodies were fairly exhausted, driven only by the promise of iced chocolates at Aroneys cafe, shining before us like the image of the Holy Grail.

The final leg of the journey was a relatively easy stroll along the base of the cliffs towards Katoomba, where most of us gave in to the luxury of the scenic Railway, followed by that well-earned rest at Aroney's.

All in all it was a journey we, as beginners, are not likely to forget. After taking on this walk, new recruits may discover that they didn't really like bushwalking so much after all.

COLLETTE DOUCHKOV & REX WALLIS

Fourless Participants: Nick, Andy, Dave, Rob, Veejay, Chris Loa, Collotte, Rex.

A Typical Berinner's Walk

Another of those classical beginner's walks that deserve a special place in the club's armals. Ever since I can remember, the march beginner's walks have always proved disastrous. Hardly any beginner has stayed on. You are wandering why? Look at the track record.

MARCY 1971. A typical beginner's talls. Proposed route: Modlow Gin to Splendour Rock door Yellow Pup to Konangaroo clearing. Actually we had a hasty route change when we found ourselves at Knight's Deck and stumbling down to the Cox's, arriving at the clearing just before mightfall. MICK LUNDILL was a victim.

18 MARC 1972. A real easy lilo trip. A day for a lady. We started at 9900 hrs expecting to finish at 1700 hrs. Yes we did finish, at 9100 hrs the following morning after liloing/walking most of the night. A bottle of charpagne was opened to celebrate. NAVE SAMDERS remained.

MARCH 1972. Now much easier than the Budawangs can you get? After wandering round and round the same road in pouring rain with a dozen leaches study to you, somewhere near INE VIHES, you tend to wonder. The betinner's were too tired to comment. ANDE BLACKELL and RODYN DOWN were impressed though 22-24/3/70. Another Budawangs bungle' such stableres as Reddall Lealie were there to belp, however what can you do when the valleys are flooded, the rain pouring? Crossing the fooded Clyde lew Wealand fashion was very instructive.

16/3/75. Mange CK. This time a change of tactics. Instead of weehend trips, a Doree Log followed by a day trip. The weather was perfect, the B-log good fun, the company fair raidens. That could so wrong? We had no rose to descend the waterfall, not realizing that a clever paraceuver was required. SUE

27-28/3/76. Bulawangs, Now the beginners are becoming wary. Only one ventured to core along with W + DLT, Armis + John G, Greg C. George Catchbole and Mo. You guessed. It poured. It boured more. And it poured oven more. At some stages we were up to our waists in the grassy plateaus. To cap it all John punched a hole in the sump of his Concertina. Hever Dave (?) again.

KURRLE was suitably enclanted.

ACTUAL SIZE After all these disasters I want into hiding in Europe to escape the wrath of irste club members and dwindling restership. 1980. The data of a new dacade. New promises and fresh hones. Positive attitude and another beginner's walk.

To start a disastrous petrol stribe upset the very carefully laid plans. Honetholess: Rex Vallis, Collette Douchbow, Chris Pedler, David Packhouse, Selpanajah V.J., Robert Spence, Lea Dixon - Smith and Andy Blabers ventured to cone. The day dawned superb, the company pleasant, the road bach along Mine's Tableland short and the descent to Medugha Ch. without incident. Soon the climb up it SOLITARY was cetting steemish. 45° grassy slones are not ideal easy termain to incomerienced walkers. Slowly, painstekingly we inched our way up ... to be benighted beneath the cliffs. A small, sort of flat site beneath an overhang was found. F leabags were laid and a crackling fire lit. Dinner was enjoyed by all on one litre of water till next (?) water supply. Buring the night you had to keep creating back up as you gradually slid downhill. The panorama was superb, the stars magnificent and the picturescus surmise shartered by Andy's alasm clock!

The walk up III COL was easy. As we progressed towards Matoorba, the track improved transmodusty so that by the end, everyone was trotting along, pain and stiffness doused by the springs mushing from the rock. The seemic Mailway was a welcome sight to seven how, tired, stiff, weary, dirty and infraspiring walkers. Parched throats easily quenched by rounds of iced chocolates and memory of a free iced chocolate slouted by Mr John Archey considering the amounts drank by a certain party member renowned for his iced chocolates drinking spreess

Nic Bendeli

SEMICONSCIOUS ON THE COLD

"Just an hours walk to a beaut beach on the river" - that was the lure used by our native guide to entice our party of innocent foreigners to the Colo Valley at Cance Creek. We didn't know what stern stuff or bushwalkers are made of.

It started well enough since we found the right jeep track off putty road bast Colo Heights but then the overladen car was not going to proceed very far on the track. So we walked, and nice enough it was too. for the first two hours. But why did three or four navigators never seem sure of our position? A well, the sidepath was clear enough - 3 stones piled on each other marking a route straight down the valley side. An hour later with no sign of the track, front or back, we suspected that three rocks in a pile means "no way, sport".

Scrubbashing is a peculiar form of torture that Australian bushwalkers derive dubious and mysterious pleasures from. The gleeful shouts from our leader did little to still the sense of rebellion as our happy little group stumbled over hidden logs, started back from prickly thorns and swore and sweater our way onward.

Finally we staggered onto a creek bed and proceeded down stream picking our way delicately between waterworn boulders and recently collapsed treatrunks. Slowly we began to notice that the scenery was beautiful but still we weren't convinced. Then suddenly there was an opening and from a rock ledge we could see the river, sparkling in the sun. We almost sprinted to the sandy bank, dropping packs, cloths and water bottles on the way, pulling off boots in haste. Then splash into the cool cool water. It was a wonderful spot and our lunch was eaten while looking around at the beauty of the river running through the gorge.

Not for long though, before we were herded up and marched fearfully in a homeward direction. But we finally found the correct path and as we strode along the jeep track under the bright start, what do you know? we had enjoyed ourselves.

The lucky participants - Alan, Jenny Marvey, John McDonald, Paul Meron, & Laine Murphy.

A LITTLE STORY

"Oh Hora, Oh Hora" she cried. "My Lacy came undone, and I tripped and fell and spragged my ankle!"

Things looked grim, It was enTiley possible that before nightfall old Nick would have her. There we were, high on a cliff at the exit of the Caves which we three spieliomen had been exploring.

"Jung man" said the Hardy old mountain guide, "Mark my words we're in trouble" How far away the morning seemed. We had
set out in good spirits, climbing up thru the Medows to the
Hylands above. Now we were up here on a ledge a Burnking hot
January day with an injured person - no longer the Spry, Bonney
young lady who had been trying to Tuften herself up in preparation
for her expedition to Mt. Hagen in New Guinea.

I'm so Hirsty" she said at leagth, "and I dropped the water bottle.

All we have is a couple of Fosters." Her words brought me back
to reality. I quickly dabbed some medicines on her ankle and made
her comfortable.

"We must get off the mountain by dark or we'll neet St. Peter in the morning" muttered Charlie.

"Granted, said I, "But what can we do?" Make a stretcher?"
"Yos", said he, "Its all we can do."
Frantically we worked thru the heat of the afternoon to Jung Rigg something to carry her in.

But as the day Drew to a close, Charlie said "I'll be Blunt - I don't think we'll be finished in time" We sat exhausted on the rocks as the sun slipped over the horizon. Suddenly I realized what we must do.

"perhaps we can Sparkes a fire! Have you got matches? Mine arn't in a very Andy place" "By Georgevits, you've got it "my companion cried. "Quick, gather some of those prickly Thorntons - they should burn well". Soon a heavy Paul of smoke hung around our precarius perch. Would anyone notice it before night fell? We watched and waited as it grow dark around us, Suddenly we heard the sound of a Basset Hound baying in the distance, and dimly made

out a Laurie moving up the mountain path. Help had arrived, more than enough to Porter our injured friend off the cliff. Soon we were back at the farmhouse, relaxing on soft cushions and quaffing Megs and Megs of tea. It was good to be alive.

KREBSLA

One recent Tuesday I was talking with "laine Murchy and we both expressed considerable doubt that we would be able to survive the city rat ruce another teak. That we needed was something to instaire us, a Dushwalk with a "Dushird."

Initially we were considering a walk in the Plus Hountains, but finally decided to so - to Yountain Lascon which is off the Poll read, near Milvin. Michael Hors joined the excedition so the four of us (Plaine, Michael, myself and the Pluebird) set off at the credit of dawn or the Followint Saturday (just past 7.30).

We arrived at Fountain Laroon around 10er; and set off by foot along a fire trail which lead to Tootie Greek. The verotation along the side of the creek was rether thick but we were able to walk along the creeks' had. The water level varied from andle to knee deep, with the occasional section requiring the toes if you wanted to knee your Addidan jording shorts dry.

We also do norm Saturday might at the junction of Tootie and Cabbage Tree Creek which was only a few hours down streem. This means we had blanty of time to enjoy the wall, have a lazy lunch and a midday (1.30) swim. The afternoon's walk consisted of a bit of scrub, a lot of enjoyable rock homeing and the odd flat section of giver bank. Michael was the rock homeing order, showing us a clear set of both.

I had been to the commente four years before (on that occasion welking up from the Colo) and I any have over realously praised the cost when describing it of Michael and Elaine. Then we arrived, it took by a short while to convince them of this fact and that this was really it, note. I must admit that it was not as I had remembered. The previous trip was my first mainful and I subcose my campaide, where one could sit and rest could assily seem supprise.

Someically the carmeite is very ordinary, but there is a strong feeling of isolation which I find very annealing, expecially as the location is so easy to reach. A small clearing covered in beach sand, mallons of fresh water, a torne of wood for a maring fire, gowerst food (anything can be exprised for one easy day) and a few good wellting companions will satisfy me any time.

We arain not away bright and early funday norming (around 10am) heading up Carbage Tree Creek, with Michael survive to the Front. We arain showed as that rock horning is all about, (although initially be rearly missed the creek. After a short while we left the creek and started a grant up a ridge which lead back to Mountain Larmon. Supprisingly we all enjoyed the climb and were reserved after two hours with excellent views and the sight of level ground.

The top of the ridre is only about an hour from a fire trail but this here eroved to be very frustrating. The top was covered with really thick veretation which was a real battle to such through. There were no landworks that we could head towards, so all we could do was no follows connered bearing and to keep to the highest point of the ridge, which is this section was a fairly level platosure all emjoyed the trip very such and I am keep to do it again soon

(perhaps in another four years). We arrived back at "ountain Larcon around Win and as always the 1886 Datsun "Bluebird" was faithfully awaiting our return.

This is perhaps familiar territory to Victorian ski tourers, but for NSM people it provides a skiling environment spectacularly different from that available north of the border. The area is located east of the wellknown resort of Mt. Buller, and is reached via Mansfield.

The main feature of the trop is the high narrow ridge from the Bluff all the way to Mt. Howitt and beyond. There is little scope for side trips or variations of route, and the return must take the same path as the outward trip, but this is compensated by the spectacular drops on the N.W. side of the ridge. The Bluff and Mts Magdala and Howitt are particularly impressive.

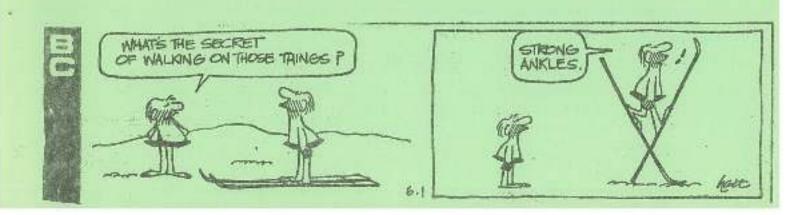
Terrain varies from near-razorback ridges to gently rolling tops. The most technically difficult section is the ascent and descent of the Bluff itself, which is very steep and rocky. Skiing here is quite impossible - careful scrambling over rock and snowgrass with perhaps a little pack hauling vary the normal ski touring routine. Virtually all the rest of the route is skiable, given reasonable snow, with the possible exception of the S.W. side of Magdala which, though smooth, is very steep. There are some very good runs on the other side of Magdala (though beware of Hells Window, and impressive gap) and on Howitt. There are also some thrilling parts of the narrow fire road which forms the central section of the route.

There are huts at Bluff Saddle and N.E. of Mt. Lovick - both rather grotty stockmen's shelters. There is however ample scope for camping, even in quite unlikely places. A broad shelf on the back of The Bluff is very attractive, and other possibilities are beside the track between Bluff Hut and Mt. Lovick and on Square Head Ginny (all these have water). There is also the grandiose but smoky but at Macalister Springs just beyond Mt. Howitt.

The return trip would be an easy 4-5 days, but could easily be extended by spending more time (up to another 3 days) around Mt. Howitt (day trips to The Crosscut Saw, Snowy Plains, etc.)

Details of access and route information can be found in "Bushwalking in the Victorian Alps" by Melbourne University Mountaineering Club. If weather or inclinations make it desirable to avoid the somewhat hazardous ascent of The Bluff itself, the book mentions other possibilities for access.

While in the general area, it may also be worthwhile to visit Mt. Cobbler and Mt. Speculation to the north, accessible from Cobbler Lake, in turn accessible by reasonably robust conventional vehicles from the Dandongadale Valley. Both Cobbler/Speculation and Bluff/Howitt provide excellent and extensive views of the surrounding rugged country, as well as Mt. Buller just across the Howqua Valley.



KONTHING RIVER TRIP - (2days-circuit) KANANGRA REGION.

Fantastic Cascading falls of immense size, cool crystal clear ponds with water stilled, all of this amidst large open Gorge of stubborn rock imperturbable to the influences of violently flowing stormwater, except for the gradual smoothing of formations about the Gorge. This Gorge setting and interesting landscape make to my opinion one of the most enjoyable two day trips in the mountains.

The river is best accessed from the range track, approximately 2km down the Kanangra track towards Kanangra Nalls with mind of entering the river at the spectacular Morong Falls (To extend the trip it may be worthwhile to enter via surprise ridge near Chardon canyon or (Ben Nevis hock much higher up). Proceed down the Gorge through the inspiring rockery of Morong Deep, camping areas are sparse, one of the best being at a point where you meet an immense square boulder sitting amidst rock debri. The next day proceed on to Missery Ridge, ascending and then walking on a bearing to intersect the Uni Rover Trail, follow this out to meet the range track and thence the trip is completed.

GRANT HYLAND

Slones of King Willem swaying in a black breeze: we watch from iced up windows, days passing scon fleece invades the quartzite amphitheatre, flakes of snow floating on the dark lake below: Ice on moss and shreaded lichen, boulder gray; cold toes stubbed on wandering roots of wood, feet slipping in behble grained clay, and boulder and flower climb the lost sullies.

Damp oushions stread over the ground; above, twin meshes cry for another soil; 'Musy', the Cloud Gatherer, covers 'Pelion' and 'Ossa', light flicking over the forest canony; Once again, reasing mist fills the frozen amphitheatre, water torrents thunder down the black quartx; Snoke drives us out from the little but, sleet fills the air, a storm fire outside.

Darkness pounding drops onto the clay, tea-leaves and noodles washed into mud: The latch is closed, a cendle flame points unwards: lie awake in the pits, sleep becoming transitional; Wind waves shower 'Tahune' with heavier rain: Dawn is not expected, only grey memories, dreams rolling over into but life; Aye, its a real west coast blanket!

Gear

A load of old rope | (from Climber & Sambler August 1979)

The German Alpine Club has been testing 2000 metres of topos, chosen from all manufacturers on the German market. Both new ropes, and ropes of various ages and usage were tested. Some of the lime up to four years old had only been in use for short periods and did not appear to be damaged.

After comprehensive testing, the club came up with this statement: "We have no alternative but to recommend that under no circumstances should rope over four years old be used for climbing - not even top-roping." The report says that since 1965, the German Alpine Club has recorded 11 breaks of limm rope, three of which broke at karabiners. 5ix instances of wear-breakage were also recorded.

This statment will no doubt raise some eyebrows here, where old ropes are only discarded with great reluctance, owing to their high cost of replacement.

THE CONTENT'N STORY OF NODEY IN MONDERLAND (A PARTASY?)

Uslcome to the first installment of Hoddy in Monderland. The story begins then little Hoddy, who is tending his veretable patch in his home in Yobbiton, is complet up by a big silver bird and whisked dray to a far off land. Hoddy searches eighteen for the secret door which will lead him to the land of formotten hopes and eventually home.

In his search for the door Moddy has travelled from the house of Cod's Son to the Mith Will of the one who prepares food and then to the town of many transvestites.

Heddy sighs "On well, Parkin. We'll soon be out of this bush." For two days Hoddy and his pot Purpkin have journeyed throught the dark and mirroy Forest of the firey way and, finally, see the light t the end of the burnel.

"That luck!" cries blocky as he sees the friendly face of the stronger livi who transports him to the place of high mountains which grow from the water. Here H.ddy hires a boat and rows out to search for the mario door.

Unsuccessful here, "cody again calls on the stranger, Kimi, to transport him to the place by the lake. The Te Anau rabbit lies sleeping by the lake, writing for the new darm to rise on another time. So loddy lies down to wait for the new darm to come.

When the dawn case 3 ddy found hirself among the tall white rocks. The rebbit had worked its mario and flown Hoddy many days journey while the darkness lay around. Soon he would be crossing the snows to the Long Enchanted Forcet, but the day was relatious and he needed to rest after the trials of the Flary Way.

BUT NOW WE MUST LEAVE THE STORY TO DE CONTENUED.

Druce Smry

ILL COIC

How Rigidly we take for granted what we have,

Vet when we have not then despain becomes our soul,

for when we have not,

then we can not.

And is we can not,

then we are not,

then we may as well be not.

But if we be not,

then what is there to say we ever were?

and if we never were....

But this spans not the logic that we have, for all of us have time and space to use.

And use it well for neither stay the same.

Though our worlds wind deftly far apart.

Used be it well if one may touch another's heart.

BRUCE SPRV

THE SIGRATURE OF OLACIER IDE: NO. 2

JOHN SPLETTSTOESSER Minneaus Geningsal Street 1623 Estats Street St. Faul. Min. 55108

Geologists sludy mainly old materials and fearment such as seeks, fossils, landforms, etc., and most often cellulate the ages of those materials and features. Furthermore, retrospology that often be a problem because not enough that may nove elapsed to material to be properly identified geologically. For example, when does action to become a lossiff One of the related questions in that context contexts feel material or volto exercism. When does not become a lossiff One of the related questions in that context contexts feel material or volto exercism. When does it become approximately the following account summarizes perturbately reachs of my research in this pressing issue, as it relates in the study of foreign material in glacter see.

There are several obvious amount tout that can be applied in order to resolve the latter opestion. The touris test and the smell test would actric the moner quickly, in many cases, but the issue becomes more complex when other factors are itoplied. For instance, the concernment of polar explorers has been preserved for more than 75 years in Antarciscs in a sort of deep freeze environment. particularly when buried by souwfull and incorporated in glacier ire. In other cases, or bare rock, it may be raposed and have become merely deskinered and is our a inprofese " Xiade from the question of debuticast, when buried in glacier are or left exponed no rock, a more buyer problem in Antarcies a that of longevery. Excrement is not treatest as sewage usually is in temperate and tropical climates, and, because of the jow temperatures, besteria cornect function in order to convert it into branching else. Pascity of soil and the petrostrois make begind to enow-free areas essentially expressible, e.g., in places tike Wright and Taylor Valleys, west of McMurdo Squad-However, frozen into a glacier and thus buried as in risek, has it then been transformed from extrement into represent Even if 15 years is not enough of a nine

The Reseast of Streptude-See Stanin, Vol 25, No. 1;13-13 Copyright © 1979 by The Journal of Irreproducible Rendu, Inc.

requirement, first is not perment in the question herause the material words stay essentially unchanged from the element it became frozen until it melted out of the glacie+, pethaps thousands of years later. At a future time, then, geologists and glaciologists, shilling our the Antarene ice weet and exempting to recover oc currs tens of theoreands of years old in an affort to study past elimates," would beautify incounter homes excienced (coproters?) at the same age as the se surrounding it it sepord have percome suppord in the ice soon after deposition, and asoved slowly downward through time as later accumulation hunsel it Presumably, if the excrement was thewest, in dentity would become anewouniocidately shrough the touch and smell resis increasent cother," but the current name for the material would be problematical. Could exceptent have been transformed into coproduc, and they back to extrement?

Another test, of course, is the presence (in excirment) or absence (in ainmittee) of viable organises. This icuhas been applied to the extrement of explorers from Actuatin expeditions of 1907-09 and 1913-11. Samples were taken from entup terrates in 1961 at the expedition's camps on Ross Island, and analyzed for o gonoson Several kinds were found, and the profil test wirthed that the samples were indeed from the largue lifters was the order intil the camples had been haven). An (talependent stocy (unpublished) of minim specimens shows the same kinds of organisms found by Mayer et al. The results are graphed in Figure 1, a normal discussion curve (which, comodentally, is also the vertical crosssectional from that the material assumed as it was being deposited - see Figure 2). However, this time period is inagnificant when compared with the age (early Pseusocene) of acuve busine-like microtreamone (presumably not from human carrement) that were found in rock come recovered from Astarctic permatrost a few years ago as it batteria can narviw in a dirment state for its much as I million years, think what this could mean to the anwary glauninger mudying particulates

2115, 1879

from air cores several thousand years from now when pales escrement is threed from his samples. Because of a loss of immunity through line, the exsulting barrens might decimate the worst a human or animal population. with a plegue !*

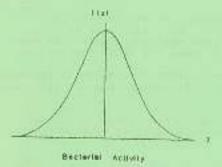


Figure 1. Named immersion carry of functional arrows to thereas

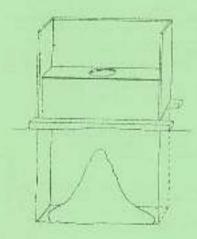


Figure 2. Cataway degrees of curp tatives used by polar especierran

In later independent studies (adpublished) on the 1910. samples, also worst noung is the discovery of what was thought to be sperin in some of the leave. If Aside from is value as a good party story, the latter discovery has led to a proposal for a featibility study of Antarenes as a speam bank, due to the deep heare conditions available for storage."

A crimplicating factor or this research has also added in the problem of definitions. Many of the matter polar expeditions, as well as a few modern note, have used dogs for irresport of field purpes. Unless tethered away from the site of the field party lateine, stedge dogs will accasionally est human from (coprophage), as well as their own, because of the contained undigested far that the dogs crave in their diets. This associats to recycled excrement, complicated by the fact that the endit prodnet is a mixture of human and animal exertment, become what he call of Tuethermore, Vegardess of the morture quernon, does additional alimentary note and processing change the characteristics of the material "

Further research is expected to shed light or this produm of semantics, although commission of the proited in dependent on the wodess of a research proposal that is now roong propagated to be substituted to NSF's Program Manager for Gunningy for Grenogy! Menbiology? Sanitary Engineering?)

Lucial Versitatory of Research Ceres and Expressions

No -	Air you
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MEFERENCES

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- from "Off Belay" No. 47.

FOR BEGINNING CLIMBERS

Climbing is considered a sport by climbers, a way of life by fenatics, and suicidal by non-climbers. Your adherence to the following simple hints will probably not make you a great, or even very good climber, but it will help to make the sport fun for you.

- There is no social distinction in climbing. Wealth or position count for nothing. There are only [1] leaders and [2] frustrated leaders or followers.
- Contrary to common belief, the rope is not thrown, shot, or lassed up the cliff. It gets there because it is tied to the intropid leader. So are you.
- A climb leader personally reserves the privilege of types the rope about the waists of all fenales climbing with him. The trip leader reserves the right to check ropes tied around all females.
- 4. It is considered cond form while climbing not to knack rocks down. If you insist on doing me, your leader will ask you to retrieve and replace them as we do not wish to rebuild the cliff before each use. If the rock you do knock down hits a climber below, we will be expected to retrieve and replace him in so far as rockels.
- You will please refrain from drinking alcohol while actually engaged in climbing. Under no condition may you on so without first offering some to your leader.
- E. The number of bathrooms is limited. The Hanagement, and every last one of the other climbers, will keerly appreciate your conducting yourself with the utmost celebral consonant with your beauty and comfort.
- 7. It is judicious not to brag in advance to your follow climbers and leaders about how you climbed the Matterhorr one-handed in a raging storm. Let them ask you. Pride is said to do before the fall, and in climbing it goes after as well.
- E. Don't be disrayed if the leader of your rope is a young mother. She isn't yours.
- The simplest and most inclusive rule for good climbing technique is this: Always treat the rocks as you do the office wolf or siron at the Christmas Party. Reep at arm's length.
- 18. Please try to remember that, while on the rocks, your cope leader is an unquestioned authority. This rule is without exception even if you think you're better than him/her or are married to him/her, or both.
- There is no rule against bragging about your explosis when you return to your earthbound associates on Monday.

David Willer.

THE RAIKATHRE RANGES

A thousand kilometres "est of Ayres Rock is a little known area called the Raikaturi Ranges, Massive granite peaks, remnants of a huge high altitude platenu in Devonian times, rear 5000 metres into the sky, and in the centre is an icecap, one of the few regions of permanent snow in Australia. The mountains were first seen by Masst in 1857 on one of his famous expeditions to find the inland sea, whose main tributary is indeed the Maikaturi river. He described "a lofty series of snow capped peaks rising in the far distance from the barren, burning sand, the thirst and misery. Maikaturi is an aboriginal term for unapproachable It seems likely that the pountains were not visited by aborigines since the region lost its forest after the last ice age, as there is is virtually no water for a distance of 500km in every direction. The Raikaturi river in fact disappears underground for this distance, and its re-emergence near Mimpey is a well known tourist attraction.

After Haast so nearly lost his life attempting to reach the mountains few people visited the area for many years owing to its utter barreness. It wasn't until 1910, with the advent of cars, that the first detailed exploration took place, by a party led by John Banks. The Party included several prominent climbers including Longstaff and Husbands, and by approaching up the gorge of the Raikaturi access was gained to Longstaff Col, after a very hard climb. From here the geography of the central ice cap became apparant. The ice can is a sort of snow lake, being a glaciated internal drainage basin, roughly circular in shape and about 25km in diameter at an altitude of 4000 metres. Massive granite peaks ring the basin, rising to above 4800m in places. The ring mountains are drained on the southern side by the Raikatun River, and on the North Eastern and Mestern sides by the Johnson and Kimberley Rivers. Numerous glaciers flow outwards from the ring mountains, but in the north the ground is very steep and they are short. However in the South, the direction that Bank's party approached from, subsidary peaks provide a large enough area to feed a good sized glacier, which has and Longstaff climed along to reach the col at its head. They named the glacier after Haast, the first white man to see the Ranges. The central snow lake is dotted with number of peaks, but dominating all is a massive central pillar of rock rising nearly 1200m above the glacier, and called by its discoverers Mt. Ramani after Bank's wife. Access from Longstaff's col proved impossible due to danger from icecliffs, & since the world wide retreat of glacial ice over the last 70 years, Longstaff col can no longer be reached except with excessive objective danger.

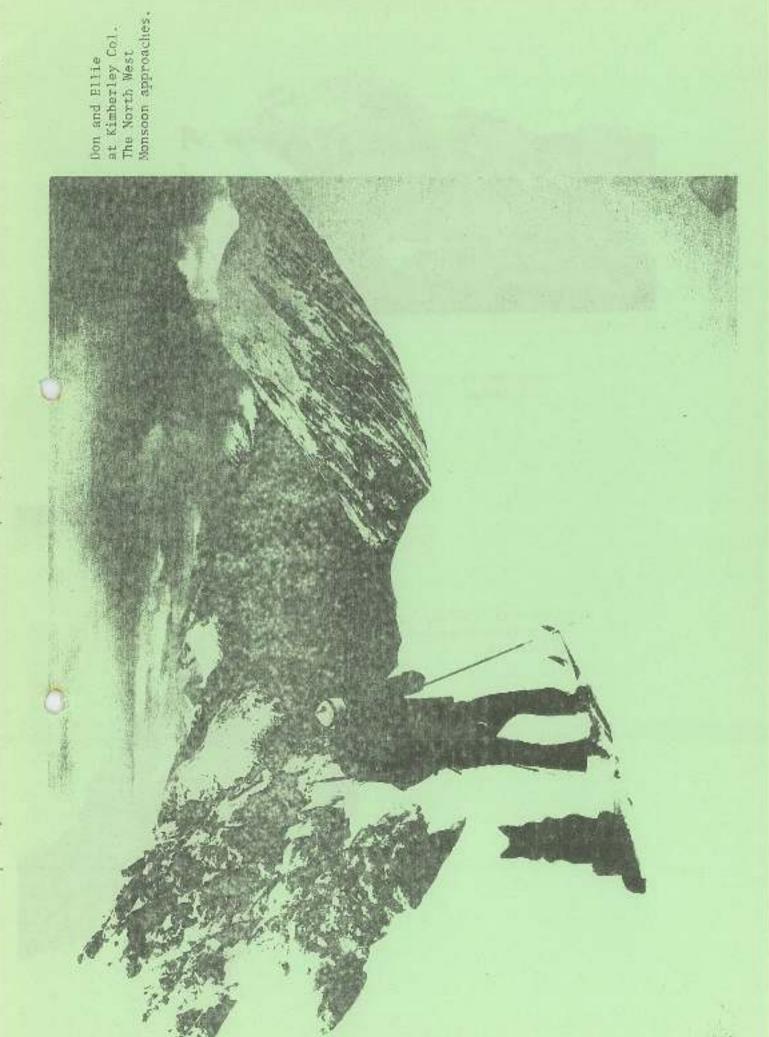
The first party to reach the snow lake was led by Eric Shipton in 1932 and included both Odell and Tilman, all three of Himalayan fame. They approached from the West up the Kimberley glacier and fixed ropes down to the snow lake. After 3 weeks exploration they proved that indeed the whole region was an internal drainage basin, a conjecture that had caused considerable controvessy at the Royal Society which had funded the expedition to settle the question. Several of the higher peaks in the ring mountains such as Diodi, Kimberley and Kalanka were climbed and the ice cap was officially named Snow Lake, Howaver, Ramani proved much too steep and difficult and Shipton had to leave the best prize to a later climber. It wasn't until the late fifties when techniques developed at Yosemite in America to climb their 1000 metre vertical granite cliffs became available that serious attemps on Ramani could be made. The first pair to the summit were Joe Brown and Tom Patey. in 1962 via the south ridge and south west face. Just as they reached the top a storm closed in, and they spent two desperately cold days and nights huddled in a little cave half way down the south ridge without food or water. Since then the peaks has been climbed many times, by all three ridges, and two of the faces have also been climbed. Decause of the utter remoteness, any climbing in the Raikaturi's is dangerous and several people have lost their lives in circumstances that would not have been serious closer to "civilization".

Two years ago I had a chance to go to Raikaturi. The remoteness and wildness and localiness of the Raikaturi mountains had long appealed to me, so of course I jumped at the opportunity. Like Shipton we approached from the west. Although it was spring, (to avoid the summer North Mest Monsoon) the week it took to drive to the Kimberley glacier was one of the hottest and most unfomfortable I have ever spent. Such utterly barren desert! At least we had views of snow capped peaks on the last two days. It took a further 10 days to shift all our supplies up the Glacier to Kimberley Col where the climbing began. So at the end of September we five (Pru Bryce, Ellie Shan, Paul Matkins and myself plus don, the dog) found ourselves completely alone in the ring mountains with 5 weeks supply of food and equipment.

Cwing to record snowfalls that winter progress was very slow over Breakheart Pass and down to Snow Lake, as everything was covered by Metres of soft powder. Fortunately things were better down on Snow take, and we gleefully swapped our snowshoes and climbing boots for nordic skis. The three weeks we spent in Snow Lake must be three of the best weeks in my life. Terrific company, cold packed powder snow, stable cold weather with only the occasional bad day and absolutely stunning scenery were ours. Above all the complete aloneness was the key to our enjoyment. It bound us all close together in definance of the hard ice and a rock and the cold wind and snow and burning desert surrounding us. We skied on every fine day, and climbed Kalanka and Ginera in the ring Mountains and Minets, Tupoto and Thomson which rise from Snow Lake. We clambered to the top of the north piller of Romani and as a finale managed to climb Rilliandra, a lovely 5050m granit upside-down ice cream come shaped peak just to the North West of Longstaff Col. We lived on the top and watched the sun set into the desert through the Breakheart Pass and rise in the east in glory over the top of Longstaff col.

The days passed as in a dream; sometimes together, sometimes alone silently gliding over the perfect whiteness of the little hills and valleys of the snow lake; lying back in the snow and gazing in awe at the majesty of Romani dominating the sky; schussing down the slopes of little mountains carving telemark sine curves through half matre deep powder snow: awaking at dawn to utter silence and the delicious coolness and blinding brilliance of another fine day; listening to the wind fretfully playing at the tent guys in the aftermeth of a blizzard; squeezing each others hands for joy of living, no words being necessary to communicate our contentment; and at end of day, skiling west across a balzing orange snow, every little contour picking out in vivid colour the reflection or our sun as it rode down towards the horizon. Never can I Forget..... Alas, all things must end but neither the shock of discovery of the loss of one of the fixed romes, nor the terrible descent of the Kimberley glacier in a storm nor the fortnight spent struggling across a desert turned into a mid bath by an early and severe north west Monsoon can take away the happiness of the time we spent in the Raikaturi Ranges.

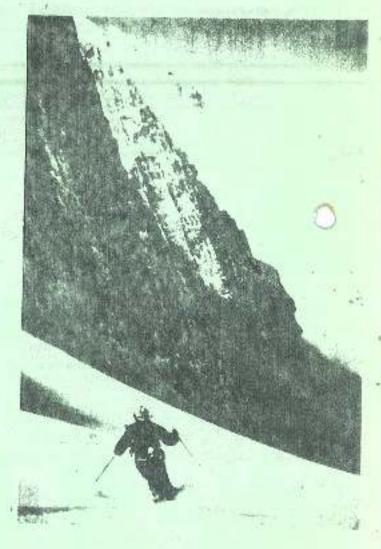
DAMNY NALONE APRIL 1980





From Jupoto looking North along the Ring Mountains to Kalanka. Snow Lake is on the left.

Paul leads the way down the bottom slopes of Rilliandra.



HERON ISLAND.

Two of the club members (Tony Bishop and myself) were lucky enough to spend a wock on Heron Island in December last year.

Heron Island is a coral cay in the Capricorn Group, situated at the southern tip of the Great Barrier Reef, 340 miles north of Brisbane and 45 miles off shore. The cay is about a mile in circumference and is on the north-western side of a flourishing coral reef. The reef is very extensive (about 10 miles around the perimeter) with a fauna of exceptional diversity.

We stayed at the Heron Island Research Station which is jointly owned and operated by the University of Queensland and the Great Barrier Reef Committee. We were part of a group of 20 which had been organized by the Zoological Department to do some research on the Island.

We drove up to Glidstone in two days and went by boat to the island. We thought it would be nice to camp by the Glasshouse Mountains on the first night (just past Brisbane) so consequently had quite a long drive in rather hot weather. We got to the Glasshouse Mountains, well, on the highway which goes by them, only to find out that we didn't actually know how to get to them. So at 11pm, after driving all day we tried to find somewhere to camp.

We ended up on a little dirt track just off the highway and had a pleasant night listening to trucks going by all night and fighting off mossics as it was a sort of swampy area, obviously we had used our bush craft skill to pick a good spot.

We woke up early (surprise, surprise) and went for a quick walk to see if we could got closer to the mountains - we weren't successful,

No arrived in Tanum Sands (a beach area a little way from Gladstone) late that afternoon, and set up camp in a caravan park by the beach. After driving all day in incredible humidity it was with an almost religious ecstasy that we were contemplating a swim. No took our towels and some books (we were going to just lie in the sun and read after our swim) and dumped them on the sand and went for a swim. The water was incredible - it was really warm, almost umpleasantly so, any way, certainly not refreshing. All of a sudden we realized that the tide had been going in rather quickly and the patch of sand where we had put our belongings was now under water. Luckily some kids had noticed and rescued them for us, but not before they had been swishing in water for awhile. As we didn't fancy lying on wet towels reading soggy books, we retreated back to the caravan park. The shower we had there was cooler and more refreshing than the swim.

However, we did have a pleasant dinner on the beach, we lit a campfire and ate jaffels filled with sand.

We met up with the others in Gladstone the next morning and started loading up the boat. We arrived at Heron Island at sunset after a very pleasant day on the water. It looked very beautiful with a wreck they use as a breakwater in the foreground and the sunset as backdrop.

We were then told the good news, they were almost out of freshwater. We were only allowed to use it for drinking, we had saltwater showers and had to use salt water for washing up and unfortunately to cook the sphagetti in one night.

The whole island is covered in pisonia trees (a quite appropriate name as it turns out, as they are filled with nesting white capped noddy's and mutton bird nests, which are semi-disguised large holes in the ground - quite adequate to fit one foot in.

1

Once the sun goes down the mutten birds start up - they are incredibly loud and sound like a whole group of babies howling and also other sound effects that I'm too shy to mention. This lasts all night while you are trying to get to sleep after covering yourself with insect repellant to keep the hoeards of mossies and other interesting biting things away. It reminded me of the jungle movies you see on T.V. except I was actually living it.

After dinner that night we all went out to inspect the turtles as they were coming out to lay their eggs. There were two sorts - loggerheads and green turtles. A conservative weight of an adult Australian green turtle is 156 kg! It was incredible to watch them make a tortuously slow route up the sand and then to dig their nest - they had very powerful flippers. On Heron Island they have estimated terrestrial predation on hatching as 4-5% and there is no egg predation. In that respect Heron Island is pretty unique.

Although watching the turtles laying their eggs (they looked like ping pong balls) is interesting the novelty soon wears off - although the guys ever seemed to be asking the girls to come and look at the turtles with them.

"c spent a gruelling week, snorkling in the morning, lazing about in the middle of the day, working in the afternoon and socializing attending seminars at night.

In the mornings we got the boat and went out to the edge of the reaf and the snorklers went snorkling and the divers, diving. It was really spectacular, the fish were vividly iridescent and whole schools of them would just swim around you. The water was really teeming with fish and that with all the beautiful coloured corals and sponges below you made it an overwhelming experience. Each time I went snorkling I saw a shark which you got used to but I guess it made you take a close look around you all the time. They were mainly white tips and about 4ft, but they looked incredibly sinister. The rays also looked sinister - I remember one of the first times I went snorkling we came across about 8 rays all swimming towards us (I thought they were supposed to sti quietly on the bettom), I was petrified and couldn't understand why my partner was still happily going along until we surfaced and he told me they were harmless.

I also learnt to fish - something which I had nover done before I must admit I never caught anything, although twice I had the line betten off. Once was when we were coming back from fishing and I suspect the guys were trying to get rid of me, they gave me a fishing line with the head of a fish for bait and so I skull dragged it, which was all very well until a shark came by and bit the whole thing off.

All in all, it was rather a fun and eventful week and it was with much regret that we left. I can still remember the taste of the barbequed fish (that the others caught) what we are on the last night while listening to Bob Marley. It was really strange to be back on the mainland, I remember vividly stopping at a petrol station and going to the loo and finding they had fresh water coming out of taps! It seemed such a wasteful luxury. It's amazing what you can adapt to.

Unfortunately the trip back was marred by us having a car accident in which we managed to write the car off. We ran into a 1300 16 bull and a cow on the main highway, just past Ipswich at full speed. By a miracle no one was hurt, and despite what you here about Qld. police, they could not have been more helpful or kind - they even found and drove us to a hotel at 2.30 in the morning.

Oh well, hopefully I'd get back sometime, it would be rather a nice place to work for a couple of months

P.S. But why was Tony wearing bandaids over his nipples???

But the thirty was to be a more than

BLAINE MURPHY

HUTLERS' HIDENWY MOUNTAIN David Magland

During December 75' I was an a sight-scalar trip around Eurone with my family. On Boxing Day we happened to be in Euronetswaden, a little resort town in the south-east of Germany. The town is famous because it is where Mitter had his secret hideaway called 'Earles Mest', and it also serves as a major skiing and climbing centre for Germany. The peak 'Poher Gell', which overshadows 'Earles Mest' is small by almine standards (8500'), but is accessible as a day trip from the town. Neem on doing some mountain climbing, I caught the chainlife up to Menner Station early in the norming, and there the spieces becam.

At Jenner I met an American soldier who couldn't relieve I was going climbing just with a plastic bag and an apole inside, especially on a misty day. We almost convinced me not to go but I was soon forbound. Weith was left behing, his bot breath forming up the wincov.

Portunately the approach midge had some old tracks to follow, but I was still besitant roins for a mountain that couldn't be seen. Perhaps the soldier talked some sense for I had no swe or crumous, just a pair of smooth soled boots. The reason for this was that climbing gear was not hired out during winter. Devertheless I pressed on, waiting for breaks in the cloud.

Eventually I gained height, breaking through the cloud layer into a still sunny day. To the south, the Austrian Alos extended to the morizon like islets in a churned up son. Hearby some Charois's were grazing on a patch of snowgrass. It looked like a good day.

After some time in Proc deep snow, the 'D-Puna' were becoming quite unconfortable. This necessitated moving onto a rib of scree and rock. Unfortunately the limistone slabs stopped within several hundred feet of the surmit, leaving a short expanse of bard ice. Pains in no need for ice-skating, I retreated back to the scree.

Another possibility was looked at - a W degree slope of ice linking the sutnit rocks. I neved up slowly, bicking radia and Karate-chopping to pain fingerbolds. Seen I was out of control, pedalling like a little demon towards an island of rock. The slope above gradually steepened, causing some heart-stopping little slides. Finally there was little choice but to turn back and downelink the pathetic tockolds. Being so gripped up at the time I took off the snowlesses and but them in my nouth. During a shakey nove they fell our and slithered all the say down to Austria!

Caining rock, I clambered down to the serse, where I sat on a boulder to calm down. Below, a tiny bouncing figure proke my care, atumbling and swaying as it moved. I knot on starting until a fellow with spectacles and waist-length bair stopped alread, smelling of chisles. The said bello to each other.

He replied "You have just climbed countain, ja?"

"Er, no ... my boots can't write the ice, too hard to bick steps. Are you soing to the top yourself?", I caked.

He began laughing, "Oh, I just come up to look around. You see, I left friends down at the bar."

The climber spoke excellent Inglish for a drunk Pavarian. It was a miracle be had not so far from Jenner Tavern, especially bearing the way he described the approach right that somerates Germany from Austria; "You see, I out one foot down and I'm in Austria, then the next foot goes down and I'm in Germany comin!!" (demonstration the tight rope waddle).

We talked and strolled around for a while until he decided to get back

to the her. After noticing another route, I tried for the summit easin, this time on steep ice-pleatered rock and grees. They resing disconally on mixed ground I watched the Deverien recent into the distance. Soon the localiness became enculfing, and normally easy moves became frantic. It seemed an etarnity before I reached a sloping ledge to rest on, the sun getting lower and the wind picking up. There was definitely no time to reach the summit.

Even though the last cable car was at Spn, it would have been easy to relar there and absorb the whole setting till nightfall. As the suns' rays became more oblique, long shadows swanned out across the cloud tors. Occassionally an uncouff would buff up a cloud like a setting spinnker. It was extremely majestic but I had to return to Jenner before dark.

With some revaining concentration, 150 networs of technical ground was reversed to safety. I can't remember much after that, except for sinking into a thick mist, pladding endlessly, setting lost many times, and finally coming across a group of skiers near Jenner. A queue had formed for the last set of cablecars, and the tavern was almost empty. Covered in ice, I sly on the beach until scheene woke me up. Then we descended to earth.

We were no fools. Geoff and myself had suffered a week of butsitting at Prenchmens Can and two days of fruitless climbing at Coles Day. As a last resent we went in search of Bob McMahon, local Pen Lomend climber. After a day of hitching we found him on a farm at Paster; a day later we were driven up to the cliffs.

Bob craftily sourse the lock around the bolt on the door at the Scots College But. The door was nushed open to a hourious interior, but he explained. "If anyone asks you if you know Bob Modahon, tell 'em you've never heard of ms. You could tell them Ken Resherry sent you, and also how he told you to break into the but! I've not to keep a low profile tecause all the clubs and conservation groups are trying to charge me with breaking and entry, trespassing and stealing. I don't know why, but its possible I'm the most hated person in Tasmania!"

The then pointed out some of the routes on the have delerite wells which surrounded the plateau. We felt humble. Bob headed for the car, saying, "fell boys, you've not the best weather this summer. Make the most of it! I'll come and mich you up or sunday rorning. See you then!"

We crashed quite early but not vary little sleep due to the overwhelming noise of the hungry wildlife; mossums on the moof, the Davil outside the door, and inside, hoards of little moderns scratching the fat from the frying-pan.

On Tuesday morning we staggered like Zorbies up the copy scree to a line called 'Fierce Archer of the Dothward Year' 16. This climb required some grovelling up a wide corner crack, then an easy overhang to be turned. A naighbouring moute, 'Ereve sheep' 18, was tried but an imposing wall made of titting, slowing holds forced us to try scrething easier. In the event on malked must 'Lords' 14, the intended climb, and unknowingly put curselves on a new route. Geoff took the lead and wandered up a triangular slab, followed by 3 more pitches to the too.

The next day, 40 minutes of boulder-hopping took us to "Frees Flutes". Half a mile wide and 600" high, this cliff abounds with steen columns and cracks. We micked a buttress called 'Rock-A-Day-Johnnia' 18, a sustained classic with the too pitch as crux, and no other pitch essier than 15.

Nice corners and chirmeys lad to the second nitch, a short overhancing off-width which gained a chirmey. I wrighted up the body-sized crack destroying a camera lens in the process. The chirmey eventually closed up, so some thin face hoves joined a bottomless corner and face climbing to a towering pinnacle detached from the face. Really airy bridging finished at a small sloping ledge on the arete.

I sat on belay while Geoff continued on the next classic mitch, earlies scaning above. Hundreds of feet below, the scree was another dimension, and further out, the rolling hills fused into an intense blue sky. I ren through to the last mitch, and with Van Formison sailing through the mind, I bridged and jammed up correlled eracks laid libr railway lines to the summit.

On Thursday we talked further test to a cliff known as "Peatholiffe". Here the columns come out at right angles to the wall forming many fine face routes. Noth of the tried a Ben Maddison death climb called "Lost Dreams and Pound Dreams in America" 17. Already a mitch up, you sten out onto a slightly overhume wall, and with sheer faith full up on large brittle edges for 80 feet without protection! Instead of this I led up a better protected route ('Tubular Money'10) that offered 3 excellent, exposed mitches.

'Snake Duttress' was the venue on the fourth day. This is the broken up cliff east of the 'Pavillion', offering less serious, shorter climbs. 'S moved up a mossy prove called 'Sweet Surrender' 16, then avoided the top screenble mitch to do a technical creek climb called 'French Kisses in a Emplemed Docrywy' 19. Feeff led this 4-star classic leaving a line of 'Priends' up the creek. Later we moved to the 'Pavillion' and screenbled up an easy buttress.

At 201 the following norming the door joited as the bulk of ker l'arron tried to force his way in. Ber and his friend, like, had been eating out at Launceston that night. Like Dob McMahon, Reg is another simister and shady character of Taxwania, with a reputation as a big eater. Memories of staying with Reg in Christchurch, M.Z., went through my mind - 2 hamburgur, ice oreas and a miloshake for a midnight snack! Then the death drive around the city in a crash - start 1943 vintage without brakes!

Saturday could well have been a rest day, if it wasn't for the fact that we were leaving on Sunday, and also I wanted something hard. Above the hat lies the 'Jerry Jeff 'hiller Buttress' with a spearing 350' line called 'Brother Jack Stran' 20. It was chosen because it was the closest climb to the but.

After 30 feet of this crack and a martle onto a loose sounding block, i armived at the only resting anot. Some hard finger-looking up an overburg section finished in a closed off sentry-box formation. Resting in an advand jamed position, I tried a number of times to bridge over the too. A mislearing sector on the cover of "Thrutch" had a shoto of Sen Maddison in the same position, although in reality he escaped off left. Finally I tried the left-hand out and frentically rulled up a finger crack to the belay. That day it was incredibly but and my head pounded with heat-exhaustion. Seoff came up having trouble missing out some protection. This was to be our last climb, wasted as we were.

Under the effects of sunstrake, the final scree walk was a nightnare. We collarsed into the hut like battered war victims. After waiting most of Sunday. Her Farmon appeared in place of Bob. A quick drive back to the farm and we were soon eating crietter, washing the licher off and watching late night movies.

Inagine a country covered from end to end in snow. Further, imagine a place where the temperature has not been within 12°C of melting all winter, and where green stick must be abandoned in favour of special green in order to glide on the perfectly dry powder. Dream of the quiet shish of skis along a conifer lined trail, with birds singing in the branches, or skiing for bilometre after kilometre across a starkly beautiful plateau straight into the setting sun, followed by a magnificant schuss down a steet track to the valley 370m below. Sevour the utter quietness of a mountain mesh along at dusk far above the tracline. All of this and nore is early February in Ceilo, a town balfway between Bergen and Oslo. Them are drawiacks, however. The most shocking thing is the temperature. The first week I was there was perfectly clear and calm. At Sam the temperature was generally around -27°, and as low as -26°. It usually rose to about -16° by late afternoon, but on several days it never got about -20°. The only "yarm" days were the last two when it snowed, bringing the temperature up to -10°.

After several mainful encounters, the cold forced modifications to normal fromy lith battledress in order to keep warm such important places as car lobes, eyes, nose tin and knees. Mormally I wore a coming singlet, skiving and wool shirt, Dechatein mitts, balaclave and army trousers. For down bill stretches my parka was downed. After one particularly long and cold Schuss a number sensation caused to be devise a means of protecting more adoquately a men's best friend. (We all know what to do with a frost-nimpod-extremity, con't wel?)

/nother drawback was the cost. Full board at the Youth Hostel cost \$19/day and ski hire costs were \$25/ week (!). Farly Pahruary is a little cold to tent cut. Perhaps with prior organization a trin from put to but could be arranged with the association responsible for but maintainence, and this would cut costs considerably as well as providing greater variety of skiing than is obtainable by staying in one place.

The area around Geilo consists of a harron plateau with sharp local relief similar to Camshead Range. At about 1900 intervals steen sided flat bottomed placial valley are carved into the plateau on the tons the wind has backed the snow quite nicely, but in the valleys skilns would be quite a don't thru knee deep snow but for the bundreds of kilometres of compacted tracks. Snowhole lines join villages 10 to 15 km apart in a vast network all over Southern Norway and memerally one can find a convenient set of tracks to follow whereever one wishes to so.

Just about everyone skis in Norwey Old decks shi across the lake to visit friends, yours racers fly around the tracks and whole families regether with children in sleighs bulled by daddy and done set out on picnics. Horsesians are refreshingly healthy and I saw very few overweight becole. Twanyone steaks English, so language is no problem. While I was in Geilo the Winter Olympics for handicapped becole were held. Eliad become computed in Nordic racing events, skiing with a "seeing cyn" to maide them. One around, no around and one larged chiers reced than the Statom events, while toboran races were held for no larged and no larged one arrest become. The village resembled a semitorium, or some sout of spare marks bank (the cornetitors being the donors) charing the sames!

Shiing in Bornav is surer's and highly recommended. But Australian skiing also has its attractions. The temperatures are more modest and it is possible to ski below the tracking without having to stick to tracks as our error is wetter and more comment. And importantly for students, costs are low in the showies. I suppose that the ideal solution is to marry off a sister to a ski instructor somewhere in a northern Europe and stay with them for a month or so each northern winter. That way there is only 3 months between ski seasons. Roll on winter!

HILL WALKING IN SCOTLAND

"Take to the hills" - that is the advice to all Australian bushwalkers who find themselves in Scottland. Not only because there are so many hills but also because the lowland walks are too tame after years of scrub - bashing.

Scotland's hills are low by alpine standards, the highest, Ben Nevis being only a little over 4,000 feet (sorry, 1,343 metres). But the bottom of the hill is often close to sea level so that there is quite a climb for a short day walk.

Where should you go? Scottland is a small compact country with good roads and half decent public transport. So it is easy to combine 4 or 5 good hill walks in a week. One suggestion follows.

Start from Glasgow and drive or take the bus the twenty miles to Loch Lomond at Rowardennan. This tiny village is on the "bonny banks" of Loch Lomond in the Queen Elizabeth Forrest Park. It has a youth hostel and a pub, so what more do you want? Walk uphil from the carparkato start on the track to Ben Lomond (974 metres). The climb is mainly on an obvious path, leading through forest at first and then across the open hillside. Three hours climbing should get you to the ridge below the summit. Here there are impressive views to the north over the carrie. Follow the ridge for the last 400 metres to the top and sink down thankfully to have lunch and take in the splendid views across the Loch to the west, down to the River Clyde 30 miles south, and to the north - hills and more hills. To return, retrace your steps or scramble down the west side (the Loch-side); both routes will lead to the pub.

The next mentain to climb is not far away, as the crow flies, but is longer to reach on land. It is Ben Arthur, known to everyone as the Cobbler because of the shape of the rock outcrop on the summit. Take the train or bus to Tarbet and walk round the beach at the head of Loch. The rocky crags of the Cobbler loom above but the walk is very gentle until the paths disappear and some rock scrambling is called for. Although slightly lower than Ben Lomond, the Cobbler makes for an energetic climb but once abain the views are good.

From Tarbet take the train or bus north to Fort William. The route is through some beautiful Highland countryside and although road and rail choose different paths both end up in Fort William, which is a pleasant town on the shores of the sea loch, Loch Linnhe nestling beneath Ben Nevis. Despite being the highest mountain in Britain, Nevis is not the hardest for hill walkers and there are several routes to the summit. Pay close attention to the weather or you are liable to climb 4000 feet for 360 degrees views of the inside of a cloud.

From Fort William catch the bus to Pitlochry. For a change of pace, stroll round the dam and try to see salmon swimming up the fish ladder, or climb Beny Vrackie (the local hill) or perhaps visit the local malt whisky distillery for a guided tour and a few samples (highly recommended!).

The next hill walk is to Schiehallion, a boautifully symmetrical mountain (1983 metres) lying between the valleys of the Tummel and the Tay. Approached from the north-east, Schiehallion provides a very enjoyable walk with a bit of roack scrambling thrown in.

After Ben Lomond, the Cobbler, Ben Nevis and Schiehallion, What next? Leave the Highlands via Perth and Stirling and visit Edinburgh, or return to Glasgow by way of Aberfeldy and Callander with the chance of Ben Lawers, Ben Vorlich and Ben Ledi for the energetic? As we said in the introduction, there is no shortage of hills to be climbed, and this article has not mentioned other regions of Scotland that are attractive. So, on your next trip you can try the Cairngorms, the Isle of Skye and Bester Ross. All have hills worth tramping up,

Alan and Jenny Harvey.

BUSHWALKING IN HAWAII VOLCANOES NATIONAL PARK

John Macdonald Zoology Department

University of Auckland, N.Z.

I was born and raised in Hawaii, and did my first bushwalking on the routes described below. Since then, I have walked in many other places, but these remain some of my Favourites.

Transportation and Accommodation

Travellers passing through Honolulu International Airport have several options: they may treat it as another delay on a tiring trans-Pacific flight, try to bluff their way into the VIP lounge for free grog, and disappear on the next plane as ordained by their APEX tickets. Or, if they have planned a stopover, they may take in the tourist attractions and beach of Waikiki, go surfing at Makaha or SCUBA-diving at Hanauma Bay. The bushwalker needn't forgo such pleasures entirely, and there are a number of excellent walks in the vicinity of Honolulu for those that cannot wean themselves from the fleshpots.

However, for the dedicated bushwalker with the foresight to plan for an extra week or two, I would recommend a visit to the island of Hawaii (southerymost and most recent of the Hawaiian Islands), locally known as the Big Island, about 320 km southeast of Monolulu. Hile, the largest town on the Big Island, is served by several airlines - a one-way fare will cost about \$50. Rental cars are available in Hilo, and there is usually some sort of bus service. Hawaii Volcanoes National Park (HVNP) is centred 50 km SW of Hilo, at an altitude of about 1200 m near the summit of the active volcano Kilauea. Hotel accommodation is available at the Volcano House, and cheaper cabins are available at Namakani Pa'io (the site of an early 'alien internment camp' in WWII). Groceries, booze, stove-fuel and petrol may be purchases at one of the general stores in the Volcano settlement, just off the main road about 3 km N.E. of Park Headquarters. There are post offices at the Volcano House, and at the Volcano settlement. Maps, guide books, camping permits and general information may be obtained at the Park Headquarters. For more detailed information, and a brochure describing the Park, write to: The Superintendent. Hawaii Volcanoes Kational Park, Hawaii 96718, U.S.A.

Climate

The climate of Hawaii depends largely on altitude and exposure to the northeasterly trade winds. At all levels, the islands tend to be cooler and wetter on the windward side. At sea level, the climate is similar to Sydney in the summertime, with temperatures on the order of 30°C. The humidity is generally much higher than I have experienced in Sydney. As you ascend the mountains the temperature drops and rainfall increases, so that at 1200 m, the climate resembles that of Auckland, with rain and drizzle common, temperatures below 20°C, and occasional frosts in midwinter. Most of HVNP is located in the SW rain shadow area, where the climate becomes drier, even desert. On the tops of the mountains, above 4000 m, the climate becomes alpine, with temperatures up to 15° on a sunny day, but usually dropping to near freezing at night (mean temperature around 7°C). A rainy day at these altitudes can easily lead to hypothermia. In winter, the mountains are often covered briefly with snow down to 3000 m.

Walking Trips

A variety of short 12-day hikes are available in the vicinity of Kilausa Caldera, its sister crater, Kilausa Iki, and the relict rain forest of Kipuka Puaulu. Many of these are self-guided trails, with pamphlets to explain biological and geological features. They are pleasant walks, and well worth the time, especially in gaining a feel for the terraine and climate. For more ambitious bushwalkers, I shall outline three longer walks, which usually require more than one day.

(1) The Sea Coast

There are several routes to the coast from the Kilauea area. The usual route begins at an altitude of about 800 m at Kipuka Kene, which is reached by a side road from the Chain of Craters Road. It is important to carry water - a liter apiece - on this walk. The first 3 km of the track are more or less level, toward the E among the large trees of the kipuka (a kipuka is an island of relict forest preserved between more recent lava flows). Upon leaving the kipuka, the track turns sharply to the S, and plunges down the first escarpment, the Poliokeawe Pali. From here and to the coast, the trip is generally hot and dry. The track roughly follows the fenceline of the old Ainahou Ranch, which has since been engulfed by HVNP. About 5 km down, the track descends the large Puwer Pal runs briefly E, then bears W around the end of the uplifted fault block of Pu'u Kapukapu for a final 3 km to Halape, which lies in a bright green patch of beach morning glory, dominated by the 300 m cliff of Pu'u Kapukapu on its landward side. There is a shelter and water at Halape, although the National Park Service warms that the water should be boiled or otherwise treated before drinking. This is probably mainly for their protection. The shelter is a roof and 3 walls, which can be used for sleeping, but you would probably be more comfortable sleeping in the open. Rain is unlikely. The waters between Halape and its offshore islet, Kcaoi, are ideal for snorkeling, as is the shallow bay about 2 km further W. The stumps of palm trees protruding from the water mark the site of the former patrol cabin, which was submerged by a fault subsidence of about 2 m during a big earthquake in November 1975. Two persons were killed in the accompanying tsunami. About 70 m inland from the palm stumps is a large crack containing a brackish water pool, which makes a refreshing dip to rinse off the salt water. In an emergency, this water is also drinkable.

Another route to Halape begins at Hilina Pali, at an elevation of 600 m, about 10 km further down the road from Kipuka Nene. This is a hotter and drier route. The track immediately descends the 300 m escarpment of Hilina Pali, and proceeds easterly across flat lava beds and grassland toward Pu'u Kapukapu. At a distance of about 6 km from the base of Hilina Pali, it intersects the Kipuka Nene track as it passes around the eastern end of Pu'u Kapukapu. One can vary the route by going cross-country: Pu'u Kapukapu and the palis form such distinctive landmarks that it is impossible to get lost. The view from the top of Pu'u Kapukapu is spectacular. It is possible to descend the seaward face of Pu'u Kapukapu, either down the cliff face, or down a long talus slope about 2 km W of Halape, but neither route is safe. Many Hawaiian cliffs, particularly those formed by faulting, consist of sheared thin layers of basalt and are continually crumbling and breaking away.

A third route to the sea is via the Ainahou Ranch along a disused 19th century road which was used for hauling passengers and freight to the Kilauea area. The terraine is very similar to that along the Kipuka Neme trail. The Ainahou track reaches the coast at Keahou Landing, and a coastal track leads westward to Halape, about 4 km away.

On Teaving Halape, you may return by any of the above tracks, depending on your arrangements for transport. The Kipuka Nene track is the least onerous. Alternatively, you may walk out along the coast to the Kalapana road, a distance of about 15 km. This track passes close to Apua Pt., site of an old Hawaiian settlement, and of an 1868 shipwreck. Little of the wreck now remains. Beyond Apua Pt. the trail crosses new lava flows from eruptions along the Chain of Craters Road, which has been cut by the flows, and only recently reopened. Much of this portion of the Hawaiian coastline consists of low cliffs (2-5 m) so it is difficult to get into the water, and even more difficult to get out without a 10 km swim.

(2) The Ka'u Desert

If the hot coastal lowlands haven't dampened your ardour, you may wish to try the Ka'u Desert trail, which runs from Kilauea to the western end of Hilina Pali. You may pick up the trail near the Park Head-quarters, or at the western edge of Kilauea, near Uwekahuna Bluff. Again, a flask of water is essential. The trail follows the SW rift zone of Kilauea volcano, and runs parallel to a line of vents and fissures. Early stretches cross new lava and cracks formed by recent activity. This part of the desert was used as a firing range during WWII, so beware of unexploded shells if you leave the track. About 10 km from Kilauea the track reaches a branch point at Mauna Iki, a small shield volcano formed in 1920.

This side track, starting at the Ka'u Road, is an alternative and easier way of walking through the desert. It passes an area known as the 'Footprints' in which are preserved the footprints of an Hawaiian army, overwhelmed by an ash cloud from a rare explosive eruption in 1790. The shelter encloses examples of the footprints, and has a water-tank. Unprotected footprints may be found nearby - please avoid walking on them or otherwise defacing them. Dried mudballs (pisolites) weathering out of the ash beds are fossilized raindrops, evidence for the heavy rain which accompanied the ash cloud.

From Mauna Iki, the track continues over smooth pahoehoe lava flows erupted in 1920, then over prehistoric flows. After passing to the W of some large cinder cones, the Kamaka'ia Hills, about 10 km SSW of Mauna Iki it turns suddenly to the E to cross a prehistoric rough a'a flow. About 1 km beyond this flow the track joins a trail from Hillina Fali and turns back to the SW toward the Pepelau Kipuka, where there is water and a shelter. A few years ago, the water tank was in bad repair, so it would be a good idea to check on the water supply at Park Headquarters before leaving. Pepelau makes an ideal site for a camp, with views of the coastal lowlands from a few hundred meters below the shelter. From Pepelau a trail leads along the top of the pali to the Hillina Pali roadhead, a distance of about 6 km.

(3) Mauna Loa

One of the finest walks in Hawaii is the Mauna Loa trail, which runs a distance of 29 km from the head of the Mauna Loa road (2040 m) to Mokuaweoweo Caldera (4000 m). At least three days should be allowed for this trip, although it has been done in a marathon stint of one day. Check beforehand at Park Headquarters to find out what other parties are on the mountain, unless you are equipped to sleep outside. Cabins at Pu'u Ulaula (Red Hill: 3050 m) and Pendulum Peak (4050 m), on the rim of Mokuaweoweo, are furnished with Coleman stoves and lanterns, cooking and eating utensils, blankets and bunks. A good sleeping bag is more comfortable than the blankets. Check at Park Headquarters to see that supplies have not been pilfered. Take sufficient white gas (or Coleman fuel) for your needs, as

fuel supplies are not maintained. As in the desert, carry a full water bottle. Warm clothing and a waterproof of some sort are also necessary.

From the roadhead the trail runs N on the level through a grove of Koa (Acacia koa) and then subalpine scrub for about 200 m, turns NW, passes through a gate, and begins to ascend gradually. From here to a bit above the 7000 ft. (2134 m) marker, the trail is overgrown and badly eroded, and it is possible to lose the route. Between 7000 and 8000 ft. (2438 m) the vegetation becomes markedly reduced in size and thickness, and the soil becomes thin. At about 8000 ft. the last stunted ohia trees (Metrosidoros polymorpha) are seen, and a bit above 8000 ft. most shrubs and grasses disappear entirely. Red and yellow ohelo berries (Vaccinium spp.) grow along the trail here, as well as in the Kilauea and Ka'u Desert areas, and are good for trailside smacks. Isolated shelp plants are found surprisingly high on the mountain. About 8700 ft. (2650 m) the trail ascends a ridge and comes into view of Pu'u Ulaula (the smooth red come straight ahead!) and other comes of the NE rift zone. If the weather is foggy or rainy, the stretch of trail around 9500 ft. (2900 m) can be hard to follow. The Red Hill rest house (10,024 ft.: 3055 m), with bunks for 6 and floor space for another dozen, if need be, is one of the oldest buildings in HVNP. It was originally constructed in 1916 by a troop of cavalry from Kilauea Military Camp. The stables were N of the cabin, opposite the loo, and patches of grass persist in the enriched scoria.

Unless you are accustomed to working at high altitudes, you should stop for a night here. At this altitude, the atmospheric pressure is reduced to about 70% of its sed level value, and the availability of oxygen is reduced accordingly. Shortness of breath, dizziness, headaches and even nausea are common symptoms of altitude sickness, and can often affect those in good physical condition more severely. Full acclimatization takes several weeks, but even a single night is a help. The affliction can become particularly distressing above 11,000 ft. (3353 m), but must simply be endured - it usually gets better in a day. If you have an unbearable case, it can quickly be cured by returning to lower altitudes.

While acclimatizing at Red Hill, walk to the top of the cone. In good weather, there is a splendid view of the Volcano and Ka'u areas to the SE, while to the NE, Hilo is visible beyond the wooded bulk of Kulani Cone. To the N, the Humu'ula Saddle separates Mauna Loa from its sibling, Mauna Kea (4205 m). To the NW, baleakala, on the island of Maui, is often visible in the distance. The white domes near the Mauna Kea summit are astronomical observatories, placed there because of the outstanding viewing conditions. The celestial view from the top of Pu'u Ulaula is also outstanding - you can see more stars than you knew existed. Meteors are regularly seen, especially during peak seasons such as the August leonid shower.

The bog (loo) at Red Hill is notoriously draughty, and the Men and Women signs usually don't mean much. Do not emulate un-named predecessors and strive for centrally heated comfort using white gas. The results may be spectacular, and warm, but how do you explain a singed bum or burnt-out loo?

Unless you decide to patter about at Red Hill for an extra day, you should begin your trek to the summit fairly early the next day, as the effect of altitude will slow you. At 3000 m your capacity for sustained work has already been reduced by 16%, and will fall an additional 3.2% for each 300 m you ascend. Don't plan to travel at your normal sea level rate.

From Red Hill to North Bay, the trail follows a line of vents and cinder cones marking the NE rift of Mauna Loa. In good weather, the route can be followed without a trail, but the walking would be exceedingly difficult. Most of the major cones can be seen from the top of Red Hill before you leave. The first cone to appear, about 4 km up from Red Hill, is Pukauahi, which serves as a spectacular frame for photographs of Mauna Kea. The II,000 ft. marker is just uphill from Pukauahi. Just below 12,000 ft. (3658 m) the Dewey Cone (named for the U.S. admiral at the Battle of Manila) exhibits a characteristic black angularity to the right of the trail. The cone erupted on July 4th, 1899. Above 12,000 ft. the trail begins to cross new lava, then passes the prehistoric Pohaku o Hanalei and Steaming Cone, both to the left of the trail. There is a waterhole about 12,500 ft., located in a partially collapsed lava tube which passes under the trail. Above this, you pass vents from the 1935 eruption. Finally, just above 13,000 ft. (3962 m) you reach North Bay, an extension of Mokuaweoweo, 14 km from Red Hill.

The sudden panoramic view of Mokuaweoweo is worth the misery of the last 3 km. This is a good spot for a long rest and a late lunch. Follow the track about 50 m down onto the first ledge in North Bay and find a spot in the sun. The concrete foundations to the right of the trail make a good place to stretch out. These mark the earlier site of the summit rest house, which was moved to its present location at Pendulum Peak after the 1940 eruption threatened to engulf it. No helicopters then - every single bit had to be packed all the way from Kilauea on men and mules. If you're short on water ascend the trail again and follow the track leading off to the north for about 200 m. A sign marks the water hole, just before you reach a rock shelter, on the left side of the track. Climb down into the narrow crack, and there should be water and ice at the bottom. There are many of these water holes around the rim of the caldera, and once you know what to look for, you will probably discover more unmarked ones.

If you have plenty of time and are feeling fit, drop your pack (but take a warm shirt) and follow the northern track for about 4 km to the summit on the W rim of Mokuaweoweo. I usually save this for the next day, and proceed directly to the rest house. If you do go on to the summit, the track soon turns W, then S, and parallels the caldera rim. The summit (13680 ft: 4170 m) is marked by a large ahu (cairn) and is on the brink of a 200 m precipice, with lava flows of different colours and textures from 1933, '40, '42, '49 and '75 spread out on the caldera floor below. You are now at the top of the largest single mountain on earth. Mauna Loa rises 29,000 ft. (8840 m) from its base on the ocean floor. Directly opposite you, about 2.5 km away, is the rest house at Pendulum Peak.

From North Bay, the rest house is a distance of about 4 km. The track leads down onto the floor of North Bay and crosses a new lava flow (ca. 1975) of shelly pahoehoe. This can be hard on the shins if you leave the track: you tend to break through the crust and drop 20-30 cm. On older lava the trail passes close to the rim of a pit crater, Lua Poholo, before once again ascending the caldera rim and running parallel to the rim for a final 1.5 km.

The rest house, clad inside and out with galvanised from, can be quite cold. It has bunks for about 10 persons. The crater rim is only 30 m to the west, so make sure you're fully awake before you stroll out in the dark to commune with nature. Nater is obtained from a water hole about 400 m S of the rest house, with a trail and a sign to mark it. Another water hole (unmarked) is about 100 m N of the cabin, but in a very narrow crack.

Standing on the caldera rim, the summit is directly across from you to the W. To the left of the summit, on the caldera floor, is the plack come of the 1940 eruption. Still further to the left, the red and olive of the 1949 cone spills over onto the SW rim. The dark brown-black flow filling most of the SW half of the calders is a'a from the 1949 eruption. while the NE half of the crater is dominated by the black pahoehoe of 1940. Mauna Kea is visible over North Bay, and you can get a good photograph by ascending the hummock of Pendulum Peak (13278 ft.: 4047 m), on the crater rim just S of the cabin. The low rock walls just S of the cabin mark the site of a tent camp set up at Pendulum Peak in 1841 by Lt. Charles Wilkes, Commander of the United States Exploring Expedition, which also visited New Zealand and portions of the Antorctic coast. Wilkes mapped Mokuawcowco, and made gravity determinations. Many have searched unsuccessfully for a rock inscription left by his party; it may have fallen into the caldera. The shattered blocks of rock in the vicinity of the rest house are debris from a prehistoric explosive eruption.

If you don't sleep well, this is a normal complaint for the first night. You may wish to spend the next day exploring, circumnavigating the caldera, and visiting the summit. Or, if you've had enough, start back to lower elevations. The 29 km downhill from Pendulum Peak to the Mauna Loa roadhead can be easily covered in a day, with a brief stop at Pu'u Ulaula for lunch. A leisurely two-day descent can be very enjoyable if 🐛 have the time.

I hope that those of you who try these walks get as much enjoyment from them as I have over the course of about 25 years.

MAP LEGENDS

- (A) Locations of the eight major Haweijan islands. Ni'ihau, near Kauai, and Kaho'olawe, near Maui, are closed to visitors.
- (B) The island of Hawaii, showing the locations of the five volcanoes that make up the island, and indicating the region covered by Map (C).
- (C) South east Quadrant of Hawaii, showing tracks described in text.

Abbreviations:

- AR: Ainahou Ranch (water).
- FP: Footprints (water, shelter*).
- HA: Halape (water, shelter).
- Hilina Pali (water, shelter*). HP:
- Kipuka Mene (water, shelter*).
- Kipuka Puaulu (water, shelter*). KP:
- MI: Mauna Iki.
- MR: Mauna Load roadhead (water,shelter*).
- North Bay (waterhole). NB.
- MP: Namakani Pa'io (tourist cabins).
- PE: Pepeiau (water, shelter).
- Park Headquarters (water). PH:
- PK:
- Pu'u Kapukapu. Pendulum Peak (water, shelter). PP:
- PU: Pu'u Ulaula (water, shelter).
- S: Summit of Mauna Loa.
- VH: Volcano House (hotel, restaurant, bar, post office)
- VS: Volcano settlement (general store, bottle store, petrol, post office).
- (* denotes picnic shelter, not intended for overnight camping).

