MONTHLY NEWSLETTER OF THE STANTHORPE FIELD P.O. Box 154 NATURALIST CLUB.

. Stanthorpo, Q. 4380.

Officers and Committee 1975-1976.

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ACTIVITIES

MEETINGS. 4th Wednesday of each Month in C.W.A. Rooms at 8.00 p.m.

OUTINGS - Each Sunday PRECEEDING the 4th Wednesday.

ANNUAL SUBSCRIPTIONS

Single -\$1.50

Family - \$2,00

PROGRAMME:

FIELD OUTING S:

CHRISTMAS BREAKUP

Date - Sunday, Documber 21/75. Place - JUNCTION - Girrawcon National Park Loadors - Mr. & Mrs. W. McCooker. B.B.Q. Fire will be lit at 5 p.m. -

come earlier if you want a swim otc.

Placo - Jolly's Falls & Donnelly's Castle January Outing -Loador - Tom Archor DATE - Sunday, January 25th, 1976. Heet at Weercona Park, 9.30 a.m.

NEXT MEETING - January 28th, 1976 at C.W.A. Rooms at 8 p.m. Guest Speaker will be either Dr. Kirkpatrick or Mr. J. Passmore. MINUTES OF THE GENERAL MEETING HELD NOVEMBER 26th, 1975.

Prosent - 40

Apologics. - 8.

A welcome was, extended to all present by our President, Mr. G.N. Butler, with special mention to members who had been away on holidays.

MINUTES - That the minutes of the October meeting be taken "as read" as per the Nats. Magazine was moved by W. Nowmand and seconded by M. Passmore. CARRIED.

BUSINESS FROM MINUTES - Nil.

Correspondence - Inward - received from the following Magazines - Darling Downs Nat s No.267
Q.N.C. No.80

Chinchilla Nats.

Letters from - Dr. Kirkpatrick - Warwick

Total Environment Centre, Sydney
National Library - Canborra
Nat. Parks & Wildlife, Brisbane
Aust. Entomology Press

· Outward - forwarded to:-

Adult Education 2 letters to 4 Q.S. Dr. Kirkpatrick

It: was m o ved by F. Wilkinson and seconded by E. Jackson that the Inward be received and the outward adopted. Carried.

TREASURER'S REPORT. It was noved by D. Archer that credit balance of \$135.82 be received and accounts for payment of S. Lee & Co. \$25.75, Post age \$8.61 and J. Harslett \$4.00 be passed for payment. Seconded by M. Marsden, Carried.

- Outing Reports Special Outing Mrs. McCosker reported 20 attended. Party was split up into 2 and different areas were seen. Wild-flowers were very good.
- Honthly Outing About 35 attended Possum outing to Maryland with M. Passmore
 Not a great number seen. Sightings were made of the Greater
 Glider. A very successful outing.
- ARTS COUNCIL DISPLAY Mrs. D. Archer & Mrs. J. Harslett reported on the success of this display, and interest shown by the public in our activities. Specimens and especially the bird calls were popular.
- NEXT OUTING T his will be the Christ mas Breakup to be held at the JUNCTION on Sunday, December 21st from 2 p.m. with B.B.Q. tea about 5 p.m. All members are invited. Proceed to Junction in your own time.

 Moved by M. Passmore and seconded by F. Wilkinson. Carried.
- January Outing The proposed January outing will be to Jolly's Falls and Donnolly's Castle under the leadership of T. Archer.
- Guest Speaker Depending on the availability of Dr. Kirkpatrick on January 28th, guest speaker will be either he or Mr. J. Passmore.
- General Business Follow up on letters in correspondence will be taken up by Mr. N. Butler who will look into the Rocky Creek Enu Vale Area and report back. Also re the Total Environment Centre Sydney letters Mr. M. Passmore will peruse letter as area details of parts in nothern N.S.V. berdering Queensland need investigation.

There being no further business the meeting closed at 8.50 p.m. after which we were very capably entertained by Mrs. J. Hazslett who took us "Here & There" by slides and dialogue.

Outing to Ruby Creek

On the last club outing to Ruby Creek our main objectives - the possums and gliders - may have been a little shy and clusive but the other arboreal specialists, the feathered ones, were both numerous and co-operative. One shady spot along the creek bank was obviously a favoured bathing area and numbers of honoveaters were splashing and preening quite oblivious of our presence. We had part icularly good views of several immature White-naped H oneyeaters and they looked much browner overall than the mature birds who have black heads and elivegreen backs with a white crescent dividing the colours. A vivid splash of colour was provided by a Scarlet H oneyeater and two young Little Lorikeets sat side by side just outside their nesting hollow peering down at us with an interest equalling ours. We also watched for some time a pair of black-shouldered Kites and were intrigued to see one bird doing quite a lot of bobbing and bowing on the topmost limb of a dead tree. The performance must have found favour with the mate as the pair eventually flew away together. The list of birds recorded follows:

Sparrow, noisy miner, restaurable Naped Honeyeater, Noisy Grey Thrush, Red Browed Finch, Crew Blackfaced Cuckoo Shrike Scarl Mistletoe bird White Orangewinged Sitella Spots Sacred Kingfisher Brown Eastern Rosella, Black Jacky Winter, and Dollar Bird.

restless flycatcher, Rufus Whistler, Magpie,
Noisy Friarbird White throat ed Treecreeper
Crow Yellow faced honeyeater
Scarlet Honeyeater White-necked H eron
White throated Warbler Little Cuckoo Shrike
White-eared Honeyeater, Kookaburra
Spotted Pardalote, Blackheaded Pardalote
Brown Songlark, White winged Triller
Blackshouldered Kito Spurwing Plover,

Z. Novman.

REPORT ON DISPLAY BY NATS CLUB AT ARTS COUNCIL "Lets make our own entertainment".

At the recent Arts Council "Lets make our own entertainment" held on Friday, November 21st in the Civic Centre, the Club can be very pleased with the display showing the interests and activities of our blub.

The Central theme was depicted by a tree with our activites of flora, fauna, birds, geology, campouts and picnics represented by the branches and as a root system "our high ideals". These propogated a new species of tree the "Ecology Watchdogs".

A very suitable conservationists pledge was adopted and its message of *preserving all forms of ecology was most appropriate.

Actual specimens were displayed. The fossils, copper samples, drill cores, moths and beetles, proved very popular, but greatest curiosity was aroused from our clusive birds. Their nelodies penetrated peoples awareness who voiced their delight at hearing such an unexpected pleasure.

Blub thanks go to the members who gave their time to prepare, arrange and man the display and to Zidoe a special thanks for the bird call tapes.

J. Stevenson.

by Haurice Passmore.

Having considered the evidence for continental drift in the previous article we can now consider the detail of thehypothises.

The theory proposes the existance of several large plates which contain the continental masses. These are slowly moving away from the African continent which has apparently remained fairly constant in its position. The boundries of these proposed plates are defined by areas of high seismic activity and if we look at the map showing where recent earthquake and volcanic activity has eccurred the plates are quite neatly defined. SEE MAP NO. 3.

Obv iously as the world is roughly spherical, if expansion t akes place in one area, then compression must occur ilsowhere. Thus there are three possible types of plate boundaries.

(1). Expanding: where the two plates are noving apart. Here new material must be continually added. Such Boundaries are all on the sea floor, being zones of high volcanic activity. The best example of this type is the mid Atlantic ridge.

- (2) Compressional: where two plates are crushing into one another. Here one plate slides under the other whose edge tends to be crushed and folded by the process. Remember that gravity ensures the plates dip down and under rather than sliding over. Because of the crushing effect mountain ranges are thrown up as can be seen in the case of the Himalayas where the Indian plate is compressed against the Asian one.
- (3) Tangential sliding: the third possibility is sliding where one plate is noving laterally along the edge of the other. Which results in lateral faulting as can be seen along the vest coast of North America, where the Pacific plate is retating with respect to the North American one. This is the well known San Andreas Fault.

On studying these boundaries, we see that the major plates comprise -

(1) The Africian which is considered to be stationary

- (2) The South American Plate that is noving to the west away from Africa and overriding the minns plate in the S.E. Pacific.
- (3. The N orth American plate moving west in bimilar manner to the wouth American one and t ending to crush the West Indian area in the process.

(4) The Eurasian plate rotating slowly north from Africa.

(5) The Indo-Australian moving N.W. crushing into the Eurasion and Pacific plat es.
(6) The Antart ic plate not well defined at present, which may have something

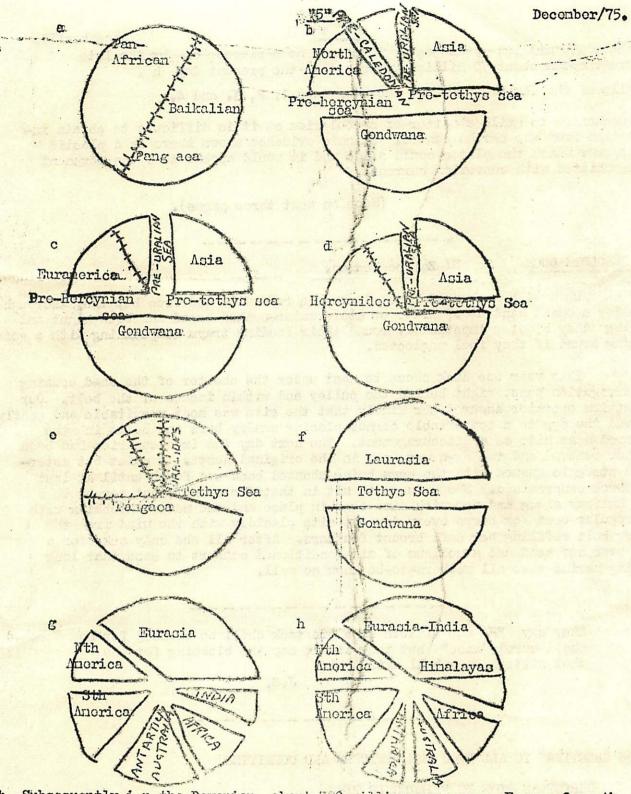
to do with the colde

(7) The Pacific plate which is slowly rotating and is virtually being att acked from all sides. Several minor plates are associated with it chiefly in the Chilian and Indonesian area.

The only place where three plates are interacting is in the Afar Triangle in Ethiopia. Here it appears that a corner of Africa bounded by the Quatar depression and the Red Sea is cracking off and quite a lot of interest is being shown in this area. However as this must be about the most desolate place on earth such programs have their difficulties. In the associated area of the Red Sea, the Oceanographic ship "Glomar Trader" also discovered three t roughs of deep sea brines and these may be the answer as to how extensive sedimentary ore deposits like Mt. Isa have been formed.

Piccing to gether the information let us follow how these plates have noved in the past by using the simple Schonatic diagrams (see the next page)

a. Originally it appeared; there was one continental land mass Panganea which originally cracked in the northern homisphere apparently in the Cambrian approx 570 million years ag o.



b. Subsequently in the Devenian, about 390 million years ago, Europe & north America joined

c. and then by the late Carboniforous

d. some 300 million years ago this mass had again joined Africa. Asia joined in the late Permian

e. about 225 million years ago when the whole mass was again united, but which subsequently commonced its present day break up firstly into two in the Mosozoie

f. about 190 million years ago. Then into nore pieces e. by the late Creataccoun about 70 million years ago to the present day h.

Dotails of the later stages are shown on maps 1, 2, 3, and 4,

The nechanism is still a matter of speculation as it is difficult to obtain information from the earths centre. Seismic evidence shows there is a plastic. Tayer over which the plates could slide and it would appear that the novement is associated with convexion currents.

(Maps on next three pages).

THE RESOLUTE DUCK

BY Zaidee Newman.

We have a number of black ducks who roam wild and free but they thoroughly enjoy a small handout of milor or stale water—soaked bread and both night and morning they cluster impatiently round their feeding trays complaining with a soft hissing sound if they feel neglected.

This year one duck chose to nest under the shelter of the shed housing our irrigation pump, right behind the pulley and within inches of the belt. Our irrigation operator assured her kindly that the site was most unsuitable and gently removed the egg to a comfortable corner placing sundry bars and bolts in the favoured nest site as a discouragement. The next day the iron sundries had been somehow removed and two eggs were now in the original nest. A quiet but determined struggle ensued with the eggs being shunted back and forth until at last Mrs. Duck compromised. She refused to sit in that far corner, but agreed to a site halfway along and now with nine eggs in place and the motor throbbing with its regular beat for hours every day she sits placidly with the wind from the pulley belt ruffling her soft breast feathers. After all she only asks for a roof over her head and a modicum of air-conditioned comfort to ease that long waiting period that all mothers-to-be know so well.

They say "He who sitteth on a tin tack shall be blessed for he shall surely rise" but they didn't say the blessing for she that sitteth on a bull ants nest.

J.S.

TEASON GREETINGS TO ALL FROM THE OFFICERS AND COMMITTEE

CHRISTMAS TIME IS FRIENDSHIP TIME:

AT THIS SEASON OF GOOD CHEER _ CHRISTMAS IS A "Lovely Link"

BETWEEN OLD YEARS AND NEW THAT KEEPS THE "Bond of Friendship"

FOREVER UNBROKEN AND TRUE.

DON'T FORCET THE CHRISTMAS BREAKUP - Sunday, December 21st at The Junction
COME ONE, COME ALL AND HAVE A HAPPY TIME.