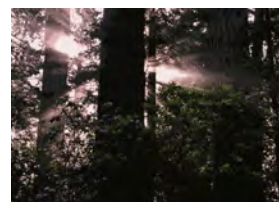




Australian Ethnoecology

By Jim Doyle Presented by Lana Little



What is Australian Ethnoecology?

Australian Ethnoecological research is a relatively old field of study, which is experiencing a degree of popularity once again in recent years. This field has been studied for at least forty thousand years in Australia, (only I don't think it was called Ethnoecology way back then, I think it was called survival,) but the principles were much the same. With a growing interest in indigenous studies there has been a resurgence of interest in Bush Foods and Bush Medicines. Most cities now boast a restaurant, which claims to serve "Bush Tucker", but it could be argued that the food served, has been modified so much that it no longer could be classified as a natural resource. Ethnoecology is basically, the study of indigenous peoples' uses of all natural resources for the purpose of aiding in subsistence and or survival. This in general terms means a study of Bush Foods, Bush Medicines, Survival Aids and Survival Analysis and how and why it is utilised. But the knowledge that can be gained from this field can be utilised in far more ways than just the obvious!

As a starting point though, we can say when talking about "Bush Tucker" we are referring to the natural resources that are utilised for the purpose of subsistence or survival. "Bush Medicine" we are referring to the natural resources that are utilised for maintaining good health and or the relief of sickness or ailments. "Bush Techniques/Survival Aids" refer to the natural resources that are utilised for the purpose of aiding subsistence or survival and "Survival Analysis" being the study of subsistence strategies. There have been many ethnoecological projects undertaken by different people and organisations in Australia in recent years but none would be possible without the knowledge of the Aboriginal people of Australia. Many Aboriginal communities have over the last few years endeavoured to record their own ethnoecological knowledge and many have resulted in small publications going to print. Most people would be familiar with Les Hiddins, AKA "The Bush Tucker Man". Each week he brought us an insight to the use of many of the resources used by aboriginal people and others but few would be aware of the contribution Mr Hiddins made to the Australian Defence Department in cataloguing the resources of Northern Australia.

There are many other people with an interest in bush tucker and other related fields of studies and have initiated a variety of different research projects over the past years. Many early explorers and Anthropologists noted resources used by aboriginal people during their journeys and some even applied this knowledge for their very survival. So we shouldn't forget the contribution they made to our current knowledge and understanding. It was not until our early explorers were exploring the country that any real effort was made to record the use of the natural resources by Aboriginals. Many of the explorers noticed how the Aboriginal people appeared to be in good health, when in many cases they themselves (the non-aboriginals) were sick. Consequently, many explorers began noting in their Journals information about resources used by Aboriginals, what was used, how it was prepared, how it was applied and whether it appeared to work.

In Australia, there appears to be many different uses of natural resources for medicinal purposes by the Australian Aboriginals. Some bush medicines were utilised for the purpose of contraception, childbirth, abortions, fertility, narcotics etc. With the year 2000 approaching rapidly, we as non-Aboriginals know very little about Aboriginal knowledge of medicinal resources eg. Bush Medicine, how it was used, what was used etc. There are a number of possible reasons for this:



Aboriginal people had no use for writing; therefore this knowledge was never documented until recently. Medicinal knowledge was normally only known to a few in the group and handed down as required.

Many of the treatments appear to have no medical reason for working (yet many did), so many non-Aboriginal people believed it was 'a ritual thing' rather than having any real value to science. Because of this belief, there wasn't a lot of interest in the subject and therefore the recording of this knowledge wasn't widespread by early non-Aboriginal people. Aboriginal people having been in this country for at least 40,000 years, and with their Gatherer/Hunter subsistence system, were required to relocate regularly so their use of medicinal resources was quite varied and in doing so were able to treat most illnesses before non-Aboriginal peoples arrival. With the arrival of non-Aboriginal people, there was a huge impact on the way that Aboriginal people utilised the natural resources. Non-Aboriginal people brought with them many new illnesses. They also brought the drugs used to treat the illnesses that arrived with non-Aboriginal people. Until contact with non-Aboriginal people, Aboriginal people had no way of directly boiling water. With the introduction of the 'Billycan', Aboriginal people were able to utilise a whole new range of resources.

By the mid 1800's, the so-called civilised world wanted to know everything about medical practices. This in part was due to the fact that Europeans were no longer of the mind that only Witches etc. could use natural resources for the treatment of sickness. The other reason is that after the American Civil War, medical practitioners of the time wanted to find ways of relieving the pain and suffering of the wounded.

Although humans have and many still do, exploited the natural resources for medicinal purposes for thousands of years, many cultural groups have a strong spiritual or social attachment or belief in the use of many of these resources. This is one area where science is just beginning to recognise when dealing with the subject matter. There wasn't any real scientific or serious study until perhaps Anthropologists began noting and recording the use of resources for medicinal purposes amongst indigenous people. This early work was mainly cataloguing the resources but invaluable all the same.

Survival analysis looks at how and why different people adopt different strategies to subsist and how we can use this knowledge to aid our own survival when we find ourselves in an unfavourable situation. Bush techniques cover such things as fish poisons, string making, fire starting, shelter construction, hunting techniques, tool manufacture etc. So what, if anything, would this sort of knowledge be of use to us in the current global environment. Well we know that most, if not all the resources that are used for medicinal purposes do contain trace elements and chemical properties that our modern drugs try to reproduce. The resources that are utilised for food have been found to contain high levels of Vitamins, Proteins, Carbohydrates and other nutrients, which are essential to our very survival. So, this as a scientific understanding of our environment is of immense benefit.

To Anthropologist and Archaeologist, this information is also of immense benefit because the information can tell us a great deal about the social structures, belief systems, survival strategies and how humans adapted to a change in circumstance or environment. Historians also can gain by this knowledge by understanding through the achieves of explorers, anthropologist, archaeologist and missionaries etc what their lives were like at a given time, how hard or how easy they found subsisting in the new land. People, who have an interest in pure survival, also gain from the hard data of what resources can be utilised for the purpose of survival because this very data tell us what you can eat, drink, or utilise. And finally, the Aboriginal people of Australia are given the opportunity to have their knowledge recorded and available for prosperity. This paper has only touched on a very fascinating area of study, which I believe has something for all in understanding the diversity of humankind.



Resources Found in the Rockhampton District



BE WARNED THAT MANY OF THE RESOURCES LISTED REQUIRE DETAILED KNOWLEDGE IN
THE PREPERATION AND ADMINISTRATION:
SOME PLANTS ARE TOXIC TO TOUCH AND SOME DEADLY

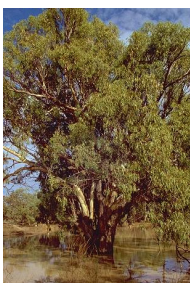
Scientific Names

Common Names

ACACIA HOLOSERICEA
AGARICUS CAMPESTRIS
AJUGA AUSTRALIS
ALOCASIA MACRORRHIZAS
ALPHITONIA EXCELSA
ARCHONTOPHOENIX ALEXANDRAE
AVICENNIA MARINA
BRACHYCHITON POPULNEUM
BRACHYCHITON RUPESTRIS
CAPPARIS ARBOREA
CAPPARIS CANESCENS
CAPPARIS MITCHELLII
CARALIA BRACHIATA
CASSYTHA FILIFORMIS
CASUARINA EQUISETIFOLIA
CAYRATIA TRIFOLIA
CHELODINA LONGICOLLIS
CHITON SP
CISSUS HYPOGLAUCA
CLERODENDRUM FLORIBUNDUM
COCOS NUCIFERA
CYMBIDIUM CANALICULATUM
CYPERUS ROTUNDUS
DASYATIS
DENDROBIUM SPECIOSUM
TRANSVERSA
EICHHORNIA CRASSIPES
ELEOCHARIS DULCIS
EMILA SONCHIFOLIA
ENCHYLAENA TOMENTOSA
ERTHRINA VESPERTILIO
EUCALYPTUS CAMMLDULENSIS
EUCALYPTUS MICROTHECA
EXCOECARIA AGALLOCHA
FICUS OPPOSITA
FICUS PLATYPODA
FICUS RACEMOSA
FICUS SP
FLAGELLARIA INDICA



FISH POISON TREE
FIELD MUSHROOM
AUSTRALIAN BUGLE
CUNJEVOI
SOAP TREE
ALEXANDRA PALM
GREY MANGROVE
KURRAJONG, BOTTLE TREE
BOTTLE TREE
NATIVE POMEGRANATE
WILD ORANGE, ORANGEWOOD
WILD ORANGE
BILLABONG TREE
DEVILS GUTS, DODDER LAURE
SHE OAK
WILD GRAPES
EASTERN SNAKE NECKED TURTLE
CHITON
NATIVE GRAPE
LOLLY BUSH
COCONUT PALM
TREE ORCHID, BLACK ORCHID
NUT GRASS, WILD ONION
STINGRAY
ROCK ORCHID, KING ORCHID DIOSCOREA
LONG YAM
WATER HYACINTH
SPIKE RUSH, WATER CHESTNUT
THISTLE
RUBY SALT BUSH, RED BERRIES
BATWING CORAL TREE
RED RIVER GUM
RIVER GHOST GUM
MILKY MANGROVE, POISON TREE
SANDPAPER FIG
NATIVE ROCK FIG
CLUSTER FIG
FIG
SUPPLE JACK





GAHNIA ASPERA
GREVILLEA PTERIDIFOLIA
GREWIA LATIFOLIA
GREWIA RETUSIFOLIA
HAKEA LOREA
HAKEA SP
HETEROPOGON TRILICEUS
HETEROPOGON TRITICEUS
HIBISCUS HETEROPHYLLUS
HIMANTURA
IPOMOEA PES-CAPRAE
LANTANA CAMARA
LATES CALCARIFER
LIASIS FUSCUS
LIVISTONA AUSTRALIS
MACROZAMIA SP
MARSILEA DRUMMONDII
MELALEUCA LEUCADENDRON
MYOPORUM SP
OECOPHYLLA SMARAGDINA
OPUNTIA SP
PANULIRUS ORATUS
PASSIFLORA FOETIDA
PLANCHONIA CAREYA
PLEIOGYNIUM CERASIFERUM
PODOCARPUS ELATUS
POLMESODA COAXANS
PORTULACA OLERACEAE
PSIDIUM GUAJAVA
PSYLLA EUCALYPTI
PTERIDIUM ESCULENTUM
PTEROCAULON SPHACELATUM
SACCOSTREA SP
SANTALUM LANCEOLATUM
SARCOSTEMMA AUSTRALE
SCYLLA SERRATA
SECURINEGA MELANTHESOIDES
STERCULIA QUADRIFIDA
TEPHROSEA PURPUREA
TEREBRALIA SP
TEREDO SP
TRIGONA SP
VARANUS GOULDII
VIGNA LANCEOLATA
VIGNA RADIATA
XANTHORRHOEA PREISSII
XANTHORRHOEA SP
ZIZYPHUS MAURITIANA



SAW-EDGE
GOLDEN GREVILLEA
GIANT EMU BERRIES
EMU BERRIES

CORKWOOD TREE
GIANT SPEAR GRASS
GIANT SPEAR GRASS
NATIVE ROSELLA, ROSELLA BUSH

GOATS FOOT
LANTANA
BARRAMUNDI
WATER PYTHON
CABBAGE TREE PALM
ZAMIA PALM
NARDOO
PAPERBARK, TEA TREE
BOOBIALLA
GREEN ANTS
PRICKLY PEAR
PAINTED CORAL CRAYFISH,
BUSH PASSIONFRUIT
COCKY APPLE, NATIVE PEAR
BURDEKIN PLUM
PLUM PINE, BROWN PINE
MUD MUSSEL
PIGWEED, PURSLANE
GUAVA
LERP SCALE
BRACKEN FERN



ROCK OYSTER
QUANDONG
CAUSTIC VINE
MUD CRAB
RAGAH
PEANUT TREE, MONKEY NUT TREE
WILD INDIGO
MUD WHELK
MANGROVE WORM
NATIVE BEE / SUGAR BAG
GOULDS GOANNA
MALOGA BEAN,
GULAKA
BLACKBOY
GRASSTREE, BLACKBOY
CHINESE APPLE, INDIAN JUJUBE

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