

SUMMARY OF ARCHAEOLOGICAL WORK

IN SARAWAK: with special reference to niah caves

sarawak museum



borneo literature bureau 154000

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INTRODUCTION

Before the Sarawak Museum began systematic archaeological work in Sarawak in 1949, the only meagre information about stone-age culture and early human activities in Borneo depended on the handful of stone implements in private possession of a few persons.

The Museum first began excavation at Sungai Jaong in the Sarawak River Delta of the First Division of Sarawak in 1949, Several other sites in the Delta were also excavated from 1949-1954. All these are however, predominantly proto-historical sites (dating back to the 10th century),

Several caves in the Bau District of the First Division were investigated at the same time. The results were, however, somewhat unimpressive. No stone implement or other stratified evidence of archaeological importance were encountered though shell middens and early earthenware sherds were widely distributed in these caves.

In 1954 a small reconnaissance expedition spent two weeks exploring and investigating the Niah Caves in the Fourth Division of Sarawak about 400 miles from Kuching. The result of this brief expedition was encouraging. So from 1957 up to 1967, large-scale seasonal expeditions averagely two months a year were conducted in the caves.

THE NIAH CAVES

The Niah Caves are located in massive island of limestone comple 1,300 feet high set in the sub-coast sandstone plains, 10 miles inland from t China Sea, situated at longitude 113° 47' latitude 3° 48'N.

The limestone formation consists several caves and caverns, the large one, covering about 28 acres, is the Gre Cave. This huge cave is some 200 fe wide and over 100 feet high in the ma cave mouth which has a large undisturb deposit well over 150 feet above press sea level.

It is here that the Museum has be excavating since 1957. This site is uniq because it gives in situ a succession phases from palaeolithic (old stone as through mesolithic intencilithic (new sto age) which were well documented artifacts. The Metal Age was, however only slightly represented in situ.

Because of the undisturbed condition with the site, the human deposing in situ remained well preserved with becoming fossilised. Human and for remains go back to 40,000 years to depth of about 100°; any remains belight is level disintegrated and the sequent is based on stone implements.

The following is a revised phaseologof the site brought up to date to 1967:

(up to 1987)

Phinso Meta:	Main material characteristics	Approx. Nish Start (Date (in round fage.)	Meth Dwti
Meta,	fron fools, imported community, glass boods, death shaps (for burge)	700 A.D.	Byc
Intermediate IC signification	"Both tools", brance, combining poetery	c. 250 B.C.?	By co Don C14 t
Late Westithis	Quadrangular adve-, postery, prompoless extended barial, main, nets.	c. 2,500 B.C.	By s and c C14:
Early Newliths	Kound axe	r. 4,000 B.C.?	By et
Intercollate (Meaolithic)	Advace ed Hakes; Edge-ground proble tools	c. 10,000 B.C.	By us on age with a buria
Early Stone	Smiller quartrite Hakey	c. 30,000 A.C.	By C
Early Stone (Upper Palmen- lithic)	Chopper tools and large finkes	e. 40,000 B.C.	Strate
Early Stone (Middle Palago- lithic)	Tony "chip flake"	*	Flake dating

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Typology of Stone Tools from West Mouth

Six reasonably distinct types of ston tool can be provisionally distinguished a the Niah West Mouth site. These are

> Quadrangular - smallish adzes o chisels, finely finished; always o a black (? basaltic) stone. These tools were found in association with earthenware pottery and (Mongoloid) extended burials. They are of the types common throughout the islands of S. E. Asia and on the mainland far north into China.



1. QUADREGULAR ADZES

 Round - polished tools with fairly symmetricl cross-section, tapering to the butt. These tools are axes or adzes. Similar tools are known from Melanesia to Burma. These are not associated with any extended burials (Mongoloid).

2. ROUND AXES



much more variable in size is shape than the round and quadrugular tools. These intermedit tools, occurring between polished neolithic tools and palaeolithic rough flakes, can, the time being, be treated transitional - mesolithic. The intermediate material can broadly bhased into:



CHOPPER TOOLS

- Edge-ground adzes, usually small pebbles, sometimes ground all ov to shape, almost to the extent polishing;
- ii) Edge-groundaxes, sometimes car fully symmetrically worked, t buttend commonly struck and flak bifacially to a rough point;

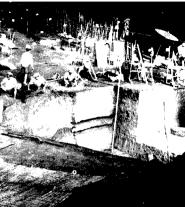
iii) Worked flakes of advanced kind.



4. VIEW OF MAIN SI

Curiously enough, among the many stonetools found in Borneo, not one so far can be properly be classed as "Hoabinhian" which has become the accepted term for 'middle stone-age' pattern in S.E. Asia.

In this band roughly between 42" and 72", a different type of burial, spreadeagled, flat but decapitated, bent over with head to knee, face downward, was



TE AT WEST MOUTH: NIAH

found scattered about. The dentitions of these remains had been identified in 'Melanoid' in character.

4. Flakes - occur in large numbers between pebble tools at all stratified levels in situ. 95% are one kind of quartzite. They show no finesse, reworking or other secondary features. No such tools have been found in S.E. Asia in sequence before, By western analogy, these have widely been regarded as mesolithic. These tools from Niah, however, seem doubtful, both by stratification and C14 dating.

Four main types of flake have been distinguished to occur in situ:

- Flakes which have been carefully reworked, sometimes to a fine finish. These are less common, mostly occurring between 24" and 40":
- ii) Smaller, usually less crude, nearly always of quartzite, found extensively around 48" and helow.
- iii) Big, rough primary flakes, very variable, and nearly always fairly well shaped and bladed. A few are dressed but no secondary working.

5. Chopper tools - crudely struck

- iv) 'Mid Soban'
- from pebbles occur below 72". They are all uniface or monofacial and with hammer marks on the butt end. These tools are smashed off (rather than struck off) at one end, to give a roughly chisel or chopper effect. These are not related to the Malayan Tampan, but seem parallel to some of the Sohan of of NW India. However, Sohan forms show definite biface trimming: only one of our Niah tools has

this feature, the others being uni-

face. Moreover, Sohan tools date c.50,000 to 100,000 years and our C14 dating for this level where these tools occur is c.40,000 years.

6. 'Mid Sohan' - ten inches below the c. 40,000 years C14 sample and directly underlying a well preserved human skull, a single and distinctive flake was found. This flake is rough and crude, but is notably thin, wide and sharp, with a coarsely faceted butt. It is the flattest in cross-section of all our Niah artifacts: of a quartzite. This tool so far does not resemble any others known from S. E. Asia. Dr. T.T. Patterson, who pioneered research on the Sohan palaeolithic culture of north-west India examined this tool and gave his opinion that it appeared equivalent to the 'Mid Sohan' - that is Middle Palaeolithic.

Carbon 14 Dating

Charcoal is unevenly distributed throughout the occupation deposit right down to the depth of 160 inches and below at West Mouth. A series of charcoal samples were taken at various levels as shown below.

Professor III de Vries at the Physical Laboratory of the University of Groningen, Holland, had generously analysed all the Niah charcoal samples for us. Prof. de Vries is widely regarded as the most advanced and accurate expert of the C14 method.

No			(years)	(B,C.)	ervor ervor	*101B
GR1907	Sub-surface tree- trunk coffin; "late neolithic; in main cemetery	K/4	3,415	497	E6	Wassi
GR1805	Charcosi "seat" sub-surface in the entrance to main occupation	W:2	2,460	503	76	Chan sa
	Upper & Middle band of "Take and blade" levels in main occupation, c. 48"+	E'-	19,570	17,618	:96	Charasa
GR1158	Lower band of above; c. 73"	E.	32,630	30,673	700	Chartsia
GR1339	Level of large rough tools, between 95-156" to main occupation	к к	10,000	37,644	-, 800	s carried chained feast-ba

41,300 39,513 1,000 Charcus

deep ak

Code Location of Sample Trench Ascertained Original date Margan Millers

GR1818 At c, 100"

CONCLUSION

The following aspects may be stressed in conclusion:

- A rich Chinese traffic with Borneo, especially in the T'ang (618-906 A.D.) traded ceramics, beads and metals for Niah Birds' nests, hornbill ivory, etc;
- Before the advent of metal, the Late Neolithic was characterized by quadrangular tools, associated with Mongoloid peoples and quite a rich material culture;
- An earlier Neolithic, merging downward into 'Mesolithic', is characterized by round axes, distinctly stratified at Niah;
- 4. A transitional Mesolithic is complicated; and not provisionally classified with three main tools. All artifacts of this period at Niah are disimilar from the usual Asian forms;
- 5. The relationship between Niah chopping tools and the Sohan of north-west India is confirmed and elaborated - with implications possibly affecting the classification of such tools widely in Asia;
- 6. There is indication that much material continues to 144 inches and below beyond the present limites of C14 dating (c. 40,000 years). The only stone tool below this level is a tiny flake, regarded as 'mid Sohan' at 110 inches;

7. The mammal fauna shows list sign of change within the 40. vears span. The imported food : endemic cave fauna in the Up Palaeolithic resembles that of tod but includes large mammals l Tapir, Rhinoceros and Gir Pangolin no longer found anywho near Niah. Rhinoceros rema occur at all levels from subsurfi to 72" (Upper Palaeolithic 40. B.C.). Unfortunately, Niah rema are insufficient to indicate which the two Rhino species they belong Historically, the Sumatran Asiatic two-horned Bhino (Did: mocerus sumatransis) is recor from Borneo, Bones of Gi Pangolin (Manis palaeojavanie were well represented in the deep levels of Niah deposit as ordina non-fossil bone, Fossil rema of this animal was known to collected in associated v Pithecanthropus in Java by Dubo Therefore this animal survived i relatively recent times in parts Borneo. But unknown in histo

This evidence may be necessary reconsider the dating of ma faunistic changes in the Uppleistocene of South-East hieroto largely assumed frwestern parallels.

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