LETTER TO THE EDITOR

Two Microliths from Javanese Wadjak Man

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Abstract Recently, during a restudy of the fragmentary bone material of the Wadjak site two microliths were discovered. A description of these artefacts is given. A discussion is presented in the light of other Holocene prehistoric sites from Java, a supposed linkage between Wadjak Man and the Pacitanian, the fauna and suggestions about the age of the Wadjak site. These new finds fit with the view of Wadjak Man as Modern Man ("Proto Javanese"), found in association with the subrecent fauna from Java.

Key Words Java, Wadjak Man, Subrecent Fauna, Microliths

Introduction

In 1888 Mr. B.D. Van RIETSCHOTEN, in a search for marble, discovered a fossilized human skull in a rockshelter, nowadays well known as the Wadjak site (Van RIETSCHOTEN, 1888; DUBOIS 1889, 1922; Plate 1). The Wadjak site is located on a mountain slope in Southwest Java, south of Mount Willis near the village of Wadjak (present day; Wajak), (DUBOIS, 1922; AZIZ and De VOS, 1989). The human skull was sent to DUBOIS who, attracted by this find, visited the site in 1890 and found fragments of a second fossilized human skull, postcranial skeleton elements and fossil mammal bones.

The first skull was indicated as W-I and the second as W-II. These two skulls became well known after their description as "Proto-Australians" (DUBOIS, 1922) and their suggested link with Pithecanthropus and the Ngandong hominids (OPPENOORTH, 1932). From the moment that KEITH (1936) included them in his theory about the origin of modern man, they played an important role in the setting up of hypotheses and models about (local) evolution in Java and migration from Southeast Asia to Australia (WEIDENREICH, 1945; COON, 1963; JACOB, 1967; WOLPOFF et al., 1984), although other opinions have also been published, a link between Wadjak Man and Papuans (DUBOIS, 1889), Neandertal Man (BRACE et al., 1971; SOEJONO, 1984), Mediterranean (PINKLEY, 1936), or Wadjak Man as an extinct form (KEITH, 1925).

The fauna associated with the Wadjak skulls is well known (DUBOIS, 1922; Van den BRINK, 1982). Based on the fauna and the morphology of the human skulls (DUBOIS, 1922; JACOB, 1967; SANTA LUCA, 1980; STORM, 1990b), the date could be considered as somewhere in the Late Pleistocene or Holocene.

According to DUBOIS (1922) no artefacts had been found in the Wadjak site. However, recently, during a restudy of the fragmentary material, collected by DUBOIS in 1890 at the Wadjak site and stored in the National Museum of Natural History (N.M.N.H.) in Leiden, two microliths were discovered. The purpose of this paper is to give a description of these artefacts and to discuss them in their wider context, and in the light of a supposed link between Wadjak Man and the Pacitanian Culture (BARTSTRA, 1984a, b, 1987; SÉMAH et al., 1990).

Two Microliths from the Wadjak Site

Wadjak Artefact 1 (W-A-1)
A small blade, made from limestone (Fig. 1; Plates 2, 4). The distal end is broken and there is some damage

Received December 18, 1991
Fig. 1. Artefact W-A-1.

Fig. 2. Artefact W-A-2.
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at the proximal end. The shape of the body is elongated with parallel sides. Present are the bulb of percussion and the striking platform. The dorsal side has two parallel ribs (three negatives) and there is erosion at this surface. The ventral side is flat, but also at this surface there is erosion. There is no retouch.

Measurements of W-A-1:
Maximum length : 20.6 mm
Maximum breadth : 6.9 mm
Maximum thickness : 2.6 mm

Wadjak Arтеfact 2 (W-A-2)
A small blade (possibly a point), made from limestone (Fig. 2; Plates 3, 5), which is in a bad condition. Proximal and distal ends are both broken, or are the result of intentional breakage. The ventral side is flat. On the dorsal side one can recognize one rib but possibly there were three ribs (parallel to the lateral sides). Ribs are difficult to recognize because there is edge damage (or retouch) on the dorsal side.

Measurements of W-A-2:
Maximum length : 23.3 mm
Maximum breadth : 6.5 mm
Maximum thickness : 2.4 mm

Lithic and Bone Artefacts from Holocene Sites in Java

Sampoeng is at this moment the best described site in Java, dating from the Mesolithic/Neolithic period. This site is located one mile South of Sampoeng, Ponorogo, East Java and well known for its bone tools. The first publication of the Sampoeng site (nowadays: Sampung; also called the Guwo Lowo; Guwo = cave and Lowo = bat) was given by Van ES in 1929, who discovered the site in 1926. A more extensive description was given by Van STEIN CALLENFELS in 1932, who worked on this site from 1928 till 1930. Information on the fauna was given by DAMMERMAN (1932, 1934). The human remains have been described by MIJSBERG (1932) and JACOB (1967).

In fact there is a great variability of artefacts and tools found in the Sampoeng site (Van STEIN CALLENFELS, 1932). ERDBRINK (1954) has discussed the Mesolithic/Neolithic status of the site. DAMMERMAN (1934) remarked that the exact place where each prehistoric implement or human material was found, had been ascertained with regard to depth as well as to the horizontal position. In the Sampoeng site four layers have been “recognized” and the next overview can be given of the material found in the different layers (based on Van STEIN CALLENFELS, 1932):

Layer A: Roughly between 0 and 1.2 m deep, pottery fragments, polished stone adzes, some bronze objects and human remains.

Layer B: Roughly between 1.2 and 2.2 m deep, spatulas and points often made from antler; daggers and harpoons, grinding stones and hollowed stone basins (with and without traces of red clay), human remains.

Layer C: Roughly between 2.2 and 3.0 m deep, flint arrow-points, grinding stones, pottery fragments, human remains.

Layer D: Roughly between 3.0 and 3.6 m deep, arrow point, bronze object and human remains.

According to Von KOENIGSWALD (1956a) the “bone culture” from Sampoeng is also found in other Javanese sites like: Bodjonegro and Sitobondo (excavated by Van HEEKEREN).

In 1937 ERDBRINK and KERKHOVEN discovered an archaeological site in West Java, halfway between the Pasir (hill) Tjilawang and the hamlet of Tondjong, which ERDBRINK (1943, 1954) attributed to the “Mesolithic Sampoeng culture”. In this site, the “Cave of Panoembangan”, three distinct levels could be distinguished, fossilized remains of animals were found in the northern part of the cave, together with five flint implements. One flint implement was found in the southern part.

ERDBRINK (1954) further remarked that, apart from the mentioned site, a small open-air site nearby (also located on the Panoembangan tea estate) seems to be the only indication of the presence of remains of Mesolithic people in West Java. ERDBRINK (1954) also reported a locality, discovered in 1936 by Von KOENIGSWALD, which could be from the Mesolithic period. A rockshelter, located on the eastern side of a hill, the Gunung Tjantelan, close to the village of Punung. They found a large number of flint flakes, some hammerstones, several arrowpoints (with a rounded base), scrapers, bones, pierced shells of snails (used as components of necklaces) and a few isolated human teeth.

BARTSTRA and BASOEKI (1979) reported a new stone age site from East Java, which they thought was from a Post Pleistocene period, either Mesolithic or Neolithic, although the dating was not certain. The site is located near a small village (Pucanganak), about 12 km west of the town of Trenggalek. They found a number of rectangular axe-like objects, scrapers and borers.

SUBAGUS (1979) reported on an “Obsidian Industry in Leles”, from West Java. According to him the flake-blade tradition originated in the Palaeolithic period during the Pleistocene era (Ngandong, Pacitan, Sangiran) and continued to develop in the Epipalaeolithic period. About this industry SUBAGUS remarked that it includes nuclei, blades and waste.

DUBOIS started his excavations on June 9 in 1890 on
the Wadjak site. In the period from October 1890 to December 1890 excavations were carried out in the Hoekgrot site (other names sometimes used are: "Hukgrot", "Eastern [Corner] Cave", "Goea Lawa", "Kovher Cave", or "Nieuwe Grot"). Parts of the cranium and mandible of a domesticated dog from the Hoekgrot site are described by BRONGERSMA (1941). DUBOIS (1922) mentioned the red painted human material from this site. The first description of the human remains was given by NELSON (1988, 1989) and later, when more human material was found in the collection of the N.M.N.H. in Leiden, a second description by STORM (1990a). The Hoekgrot site is interesting, not only for the red painted human skeleton but also for faunal remains (see Table 2), artefacts (bone implements and pottery fragments, Table 1), signs of cultural activities and a domesticated dog.

There is a note from one of DUBOIS' assistants, which is dated December 30, 1890, in which it is reported that two days before, nothing more than a few human molars had been found and that the exit of the cave was 6.10 m deep. This could be an indication that the excavations were thoroughly done and that everything found was collected. Another indication for this last statement is the fact that a map with a grid system of the excavations of the Hoekgrot site was made (see: AZIZ and DE VOSS, 1989).

In the Hoekgrot site clear indicators of human activities were found; four different types of bone tools (total number is 7); large and small spatula's; large and small bone points. Further fragments of pottery, charcoal and burnt bones, animal bones with cut- and chop-marks and a nearly complete red painted human skeleton were found. It is possible that these prehistoric people practised activities like removing the flesh from the human body, and then painting the skeleton parts red as part of their mortuary ritual.

Another site excavated by DUBOIS in 1890 is the Goea Djimbe site. This site is situated near Redjohangan, about 10 km West of Blitar in East Java (Van den BRINK, 1983; BURGERS, 1988). Some of the human material from this site was described by NELSON (1988, 1989). Data on the fauna have been published by BRONGERSMA (1941) and HOOIJER (1962), and are described by Van den BRINK (1983). The bone tools have been preliminarily described by BURGERS (1988). A more extensive description and discussion of these artefacts and tools is given by STORM (1990b).

There are not many notes from this site and it is not possible to give a reconstruction of the site and excavation. It is believed that the layer at three metre (where bone tools and both human and fauna remains have been found) belongs to a much older period than the layer at a depth of two metre. Five different kinds of artefacts have been found in the Goea Djimbe site, all made from animal remains. Chisel and spatula like artefacts could have been used for the working of wood or as a scraper.

### Table 1. Main groups of artefacts and tools from different Javanese sites

| Wadjak* | Goea Djimbe* | Hoekgrot* | Sampoeng# |
|--------|--------------|-----------|-----------|
| Bone tools | - | + | + | + |
| Ornaments (shells) | - | - | - | + |
| Stone artefacts | + | - | - | + |
| Flint arrowpoints | - | - | - | + |
| Polish. stone adzes | - | - | - | + |
| Grinding stones | - | - | - | + |
| Pottery | - | - | + | + |
| Bronze | - | - | - | + |

Explanation of symbols:

+ = recorded
- = not recorded
* = excavated by DUBOIS in 1890
# = excavated by Van STEIN CALLENFELS in the period between 1928–1930
### Table 2. Mammalia of different Holocene Javanese sites

| Species/ (Groups) | Hoekgrot* | G.Djimbe* | Wadjak* | Sampoeng* |
|------------------|-----------|-----------|---------|-----------|
| Primates         |           |           |         |           |
| N. coucang       | +         | +         | -       | +         |
| M. fascicularis  | +         | +         | -       | +         |
| T. cristatus     | +         | +         | +       | +         |
| H. sapiens       | +         | +         | +       | +         |
| (Cercopithecidae)| +         | +         | +       | +         |
| Carnivora        |           |           |         |           |
| P. hermaphr.     | +         | -         | -       | +         |
| Lutrea cinerea   | -         | -         | -       | +         |
| M. flavivula     | -         | +         | -       | -         |
| P. tigris        | -         | -         | +       | +         |
| F. bengalensis   | -         | -         | -       | +         |
| Arctogalidia     | -         | +         | -       | -         |
| Cuon javanicus   | -         | +         | -       | +         |
| C. familiaris    | +         | -         | -       | -         |
| (Indet.)         | +         | +         | +       | +         |
| Rodentia         |           |           |         |           |
| A. brachyurus    | +         | +         | +       | +         |
| Sciurus noratus   | -         | -         | +       | +         |
| Ratufa bicolor   | -         | +         | -       | +         |
| P. petaurista    | -         | -         | -       | +         |
| K. sodyi         | -         | +         | -       | -         |
| L. sabanus       | -         | +         | -       | +         |
| R. timomanicus   | -         | -         | +       | -         |
| R. rattus        | -         | -         | +       | -         |
| (Indet.)         | +         | +         | +       | +         |
| Proboscidea      |           |           |         |           |
| E. maximus       | +         | -         | -       | +         |
| Perissodactyla    |           |           |         |           |
| R. sondaicus     | +         | +         | +       | +         |
| Tapirus indicus   | -         | +         | +       | -         |
| Artiodactyla     |           |           |         |           |
| Sus scrofa       | -         | +         | +       | +         |
| Sus verrucosus   | -         | +         | -       | -         |
| T. javanicus     | +         | +         | -       | +         |
| M. muntjac       | +         | +         | +       | +         |
| R. timorensis    | +         | +         | +       | +         |
| C. sumatraensis  | -         | +         | -       | -         |
| Bovidae          |           |           |         |           |
| Bos sondaicus    | -         | +         | +       | -         |
| B. bubalus       | -         | +         | +       | -         |
| (Bovinae)        | +         | +         | +       | +         |
| (Suidae)         | +         | +         | +       | +         |
| Chiroptera       |           |           |         |           |
| C. sphinx        | -         | +         | -       | -         |
| Ro. amplexic.    | -         | +         | -       | -         |
| Dermoptera       |           |           |         |           |
| Cyn. sp.         | -         | +         | -       | -         |

Explanation of symbols
+ = recorded
- = not recorded
? = uncertain
* = excavated by Dubois in 1890
# = excavated by Van Stein Callefelds in the period between 1928–1930
for hides. Bone points and worked pig canines could have been used as drills, the worked canines may also have been used as ornaments.

According to KLEIWEG de ZWAAN (1943) several places have been found in the area of Bandung in which small artefacts have been found, i.e., north of Bandung: Lembang, Tjakidang, Pagermanoek, Pakar, Negla, Lebaksioe, Tjilimoes, Tjiharalang, Bodjongkoning and Nagreg; southeast of Bandung: Paseh and Patjet; south of Bandung: Koeelalet and Pameumpeuk; west of Bandung: Tjillin and Tjilaalem. This could be an indication that groups of peoples, who produced microliths, were once widespread on the island of Java.

Artefacts and tools found in the Sampoeng site have also been found in the sites Wadjak, Goea Djinme and Hoekgrot (Table 1). In addition the same subrecent fauna has been found in all four sites (Table 2). This is the main reason for believing that the Wadjak, Goea Djinme and Hoekgrot sites could belong to the same period as the Sampoeng site, Mesolithic and/or Neolithic. The richness of the Sampoeng site is striking in comparison with the other three sites: Wadjak, Hoekgrot and Goea Djinme. Surprising are the finds of bronze objects in the Sampoeng site. The bronze objects can perhaps be seen as a later distortion since they are not as numerous as other artefacts (associated with the Mesolithic/Neolithic) and most of the bronze objects are found in the upper layer and only one in the lower layer D.

The largest part of the remains from the Sampoeng site consists of pottery fragments, artefacts made from animal remains, stone arrow points and stones for grinding. Most of the pottery fragments and artefacts made from animal remains have been found in the upper deposits, while most of the stone arrow points have been found in the lower deposits. Because of this it is possible that the upper layers (A and B) are Neolithic and the lower layers (C and the border B/C) are Mesolithic.

The pottery fragments found in Hoekgrot indicate that this site is probably Neolithic. Since two microliths have been found in the Wadjak site, and no Neolithic indicators, it is suggested that this site is Mesolithic. It is important to realize that if there had been bone tools in the Wadjak site, they would have been collected by DUBOIS, because he collected every bone fragment. Those suggestions appear to be in agreement with the observation made by Van ES (1929) that in the Sampoeng cave the bone culture was preceded by one that made greater use of stone.

When considering the bone artefacts from the sites Sampoeng, Hoekgrot and Goea Djinme the question arises, what is generally known about bone tools from this region and what can be deduced from these tools about the age of the sites. Von KOENIGSWALD (1956a) remarked that similar bone tools, to those found in the Sampoeng site have also been found in other areas of Java, Bodjonegro, Sitobondo, and from more remote places like Malakka and Indo-China. Bone tools have been widely used in Australia (DORTCH, 1984) and Europe (OAKLEY, 1975) for thousands of years. Consequently, it is highly probable that bone tools have been used for a very long time during the Palaeolithic, Mesolithic and Neolithic in Java. The typology of the bone tools themselves do not give much clarity about the exact age of the prehistoric Javanese sites.

The Linkage of Wadjak Man with the Pacitanian

On October 4th 1935 Von KOENIGSWALD (1936a, b) and TWEDDIE found primitive-looking stone artefacts in the bed of the Baksoko, a small river near the South coast of Central Java. Von KOENIGSWALD called the culture Pacitanian after the nearby village, Pacitan. He considered Homo erectus as the maker of this culture. This he based on the fact that at Punung, a village near Pacitan, fossil mammals were found in fissure fillings (for example Siegodon). He assumed that they had the same age as the fossils from Trinil, where Homo erectus had been found. Following Von KOENIGSWALD, MOVUIS (1948: 408) and Van HEEKEREN (1972: 43) also attributed the Pacitanian to Homo erectus, and placed this culture in the Middle Pleistocene. However, BARTSTRA (1984a, b, 1987) placed the Pacitanian in the Late Pleistocene or Holocene and this author considered Wadjak Man (Homo sapiens) as the maker of this culture. BARTSTRA (1984b: 171) state:

“"In fact, there is only one prehistoric hominid that is worthy of consideration as maker of the Patjitan tools, namely Wajak Man. The skulls of this hominid (found on the south coast of Java) had already been studied by DUBOIS before he made his finds in Trinil. Wajak Man is much younger than Java Man, and is also younger than Solo Man. Wajak Man is a subspecies of Homo sapiens, and is described as having Australoid affinities. He lived on Java in the last phases of the Pleistocene and at the beginning of the Holocene – the time from which the Patjitanian artifacts apparently originate.""

In the same year BARTSTRA (1984a: 258) concluded: “"The Pacitanian must be regarded as the Javanese variant of the so-called Hoabhinian in Southeast Asia; and Homo wadjakensis might be the manufacturer.""

In 1987 (page 6) BARTSTRA remarked: “"Although this industry can still be called Palaeolithic, it is in my opinion very young, and it dates surely from the second half of the Upper Pleistocene (BARTSTRA, 1984a).""
indeed the tapir became extinct in Java during the Neolithic period. This could be an indication that the Neolithic subsistence pattern based on agriculture.

That “Wadjak Man” is the (possible) tool-maker of the Pacitanian (BARTSTRA, 1984a, b, 1987; SÉMAH et al., 1990) is only a suggestion. The Wadjak site and artefacts from Pacitanian have no relation. The two microliths from the Wadjak site are very different from the Pacitanian. The Pacitanian belongs to a widespread group of “chopper/chopping-tool industries” (BARTSTRA, 1976, 1987; BELLWOOD, 1985) which is indeed very different from the two small artefacts from the Wadjak site. Another problem is that some scientists view the Pacitanian as a local variant of the broadly defined Hoabinhian and that possibly a great many Pacitanian artefacts are in fact the result of natural processes (TATTERSALL et al., 1988).

The Faunas of the Holocene Sites

One of the fascinating aspects of the fauna (which is found in association with the human remains, artefacts and tools) from the above mentioned sites is the fact that it gives a picture of the original fauna of Java before the island was heavily populated by humans (Table 2). The Wadjak fauna can be interpreted as an open woodland fauna (De VOS, 1983) and coming from the mainland (SONDAAR, 1984). Some of the animals like Tapirus indicus, Elephas maximus, Cervus eldi, Cervus kuhlii and Capricornus sumatraensis are extinct in Java nowadays. An animal like Rhinoceros sondaicus is restricted to a primary forest, which means that the species will disappear if this forest vanishes. Therefore one could expect that the tapir became extinct in Java at the moment when important changes took place. This could be the cultural change that one of the characteristic of the epipaleolithic period in Java has had its effect on the wild animals, because of vanishing woods and the introduction of domesticated animals.

In this respect the tapir (Tapirus indicus) is an interesting species. This animal needs a primary forest, which means that the species will disappear if this forest vanishes. Therefore one could expect that the tapir became extinct in Java at the moment when important changes in this forest took place. This could be the cultural change from a Mesolithic (hunting-gathering) way of life to a Neolithic subsistence pattern based on agriculture. LEINDERS et al. (1985: 169) remark in connection with the occurrence of the tapir in the Wadjak fauna that it “probably documents its last occurrence on Java.” The tapir is found in the Wadjak and Goea Djimbe site, but not in the Hoekgrot site. This could be an indication that indeed the tapir became extinct in Java during the Neolithic.

It is highly probable that in all 4 sites Wadjak, Goea Djimbe, Hoekgrot and Sampoeng people were responsible for the collection of the animal bone remains. There are several arguments to support this view. In the first place indications have been found for the presence of complete human bodies; cutmarks have been found on animal bones; burnt bone fragments, artefacts and remains of mollusca and fishes from the sea (the Hoekgrot site and Wadjak site are 9 km from the sea). In other words these fauna assemblages cannot be seen as natural, but selection by man must have played an important role in the bone accumulation.

The Wadjak and Hoekgrot site are probably not “hunting camps” because not many indications have been found of hunting activities, no arrow points, and no signs of the manufacturing and use of tools for butchering. It is striking that rockshelters, like Wadjak and Hoekgrot, being very close together, contain basically the same assemblage, the subrecent fauna in a fragmentary state, indications of complete human bodies, some artefacts, and distinct evidence of human activities. Taking this into consideration it is probable that the bone accumulation of the Wadjak and Hoekgrot site is the result of funeral deposition in a rockshelter.

The Age of the Wadjak Site

The age suggested for the Wadjak site ranges from Early Pleistocene (DUBOIS, 1922; SOEJONO, 1984); the border Pleistocene/Holocene (HOWELLS, 1964; JACOB, 1967; BARTSTRA, 1984b) to recently in the Holocene (Von Koenigswald, 1956b; WOLPOFF et al., 1984; HABGOOD, 1989). Some scientists remarked that the date of the site must be left as undetermined (PINKLEY, 1936; Van den BRINK, 1982). For the Sampoeng site most researchers agree on a date within the Holocene. No real claims have been made for the other two sites, Hoekgrot and Goea Djimbe.

According to Van HEEKEREN (1975), in Indonesian prehistory, the epipaleolithic period can be dated between 10,000 and 5,000 B.P. Van HEEKEREN further remarked that one of the characteristic of the epipaleolithic period is the occurrence of microlithic industries.

The present study indicates the following with regard to the Wadjak site:

- The human remains found are from modern man (Homo sapiens) and can be interpreted as “robust looking Javanese” (STORM, 1990b).
- The human remains have been found in association with the subrecent fauna from Java (Van den BRINK, 1982), in which the tapir is present. No domesticated animals have been found.
- Microliths have been found, and no indications of the Neolithic period (pottery remains).
No proof has been found for the evolutionary line, Ngandong → Wadjak → Australians, not in the palaeoanthropological, archaeological, nor palaeontological data (STORM, 1990b).

In the light of the foregoing information, a view of Wadjak Man emerges, in contrast to earlier opinions, as a "Proto-Javanese", possibly belonging to a once widespread group of prehistoric peoples, which manufactured microliths and lived by hunting and gathering. They used rockshelters for their funeral rites, just like nowadays (NOOY-PALM, 1989). If Van HEKERE (1975) is correct in his dating and interpretations, these inhabitants of Java lived somewhere in the Mesolithic period between 10,000 and 5,000 years B.P.

Conclusion

Since the discovery of the Wadjak skulls around 1890, one could only guess about the "Wadjak Culture", because no artefacts or tools were known from this site. Recently two microliths have been found among the fragmentary bone material. Two artefacts are not enough to draw extensive conclusions but can give an extra dimension to the discussion around the supposed link between the Wadjak fossils and the Pacitanian Culture, and help to place Wadjak Man in his wider context.

There is no reason to link Wadjak Man with the Pacitanian industry. There is no direct relation between the Wadjak site and the Baksoko river. The artefacts from both places are very different. In the Wadjak site microliths have been found, the Pacitanian has been described as a "chopping-chopper-tool industry".

Since no indicators have been found in the Wadjak site for the Neolithic period and two microliths have been found it could be suggested that this site can be dated in the Mesolithic period. The findings of the faunal remains of the Wadjak site, in which Tapirus indicus is present and no indicators are found of domesticated animals, and the opinion of the Wadjak hominids as modern Homo sapiens ("robust looking Javanese"), are in agreement with this view.

Acknowledgements

I am grateful to Dr. J. De VOS and R. Van ZELST (N.M.N.H., Leiden, the Netherlands) for their assistance during the study and their useful remarks. I also wishes to thank the following persons for their help and comments: Dr. C.E.S. ARPS (N.M.N.H., Leiden, the Netherlands), Dr. P.L. LOADER (Den Haag, the Netherlands), Drs. L.E. LOADER – Van den MUIZENBERG (Den Haag, the Netherlands), Dr. P.Y. SONDAAR (Palaeontology, University of Utrecht), B.N. STORM (Hoogeveen, the Netherlands), Dr. C.B. STRINGER (Department of Palaeontology, the Natural History Museum, London U.K.), B.C. Van der HOUT (Den Haag, the Netherlands), Drs. L. VERHART (R.M.O. Leiden, the Netherlands).

抄録

ワジャク遺跡から発見された細石器2点

P. STORM

ワジャク遺跡出土の断片的資料を再研究している際に発見された2点の細石器を記載した。そして、以下の諸点について議論がなされた。すなわち、ワジャク遺跡と他のジャワ先新世遺跡との比較、ワジャク人とパチタニアン文化および共伴動物群との関連性、そしてワジャク遺跡の年代である。これらの知見からワジャク人は半化石動物群と同時代の現生人類（プロトジャワニーズ）であることがわかった。

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Plate 1. The Wadjak-I skull (seen from norma lateralis dextra).
(Photograph taken by The Natural History Museum, London, U.K.)
Plate 2. Artefact W-A-1 (seen from the dorsal side).
(Picture taken by B.N. STORM, The Hague, The Netherlands)

Plate 3. Artefact W-A-2 (seen from the dorsal side).
(Picture taken by B.N. STORM, The Hague, The Netherlands)
Plate 4. Artefact W-A-1 (seen from the ventral side).
(Picture taken by B.N. STORM, The Netherlands)

Plate 5. Artefact W-A-2 (seen from the ventral side).
(Picture taken by B.N. STORM, The Netherlands)