北海道上川郡下川町幸成モサンル旧石器時代遺跡出土資料

モサンル

芹沢長介編

昭和57年
東北大学文学部考古学研究室
考古学資料集
第4冊
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第4冊
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七、石刃の分析

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＜問題①＞

收束する関数列は剛を象ったものであることが明らかである。（1）を解け、
それぞれの関数列の極限を求めなさい。

解説：

関数列の極限を求めるには、関数の性質を用いてそれぞれの関数列が収束するか否かを
判断します。関数列の収束が確認できれば、関数の極限を求めることができます。

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長さ（CM）

厚さ（CM）

・：I類
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1. Unused
2. Non-woody plant cut
3. a. fissure embedded with polish
   b. comet shaped striation same as 2
4. Same as 3
5. Wood whittle rounded microflaking scar
6. Wood grave
7. Wood grave
500X
8. Soaked antler whittle
   a. "polish" on obsidian
9. Same as B
   a. "polish" on obsidian
10. Tanned hide cut
    a. striation
11. Same as 10
12. Tanned hide scrape
   500X

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A

C

B

Scale 7:10

△が画面の上
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Scale 1 : 1
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As for the chronological aspect of Mosanru Site, three C-14 dates are available from charcoal pieces sampled during the excavation in 1979 by the Shimokawa-cho Board of Education. According to the Gakushuin University dating,

13,270 ± 420 B. P. Upper stratum IV (GaK-8722)
14,320 ± 420 B. P. Lower stratum IV (GaK-8724)
15,080 ± 450 B. P. Lower stratum IV (GaK-8723)

It is not definite whether stratum 4 of Tohoku University trench corresponds to stratum IV of the Shimokawa-cho excavation where the samples were obtained. Artifacts were found in the above-mentioned stratum IV, while stratum 4 of Tohoku University was sterile.

Considering the characteristics of Mosanru assemblage in comparison with the Palaeolithic and Mesolithic industries in other parts of Japan, the site was probably occupied between 12,000 and 10,000 years ago, at the latest period of the Pleistocene. It was the time when the oldest linear relief pottery already appeared in the southern island of Honshū.

1) A peculiar kind of hard, siliceous shale fracturing with concoidal features conventionally has been called simply "shale" by Japanese prehistorians. It is, in fact, a kind of crypto-crystalline silica (CCS).
2) Obsidian tools also sometimes develop polishes, but the classification of them still remains to be established.

(Translated by Kaoru Akoshima)

References cited

KAJIWARA Hiroshi and Kaoru AKOSHIMA

SERIZAWA Chosuke, Hiroshi KAJIWARA, and Kaoru AKOSHIMA

Shimokawa-cho Board of Education, Institute of Regional History

IWAMOTO Keisuke
Excavation of Mosanru Site

Chusuke SERIZAWA

Mosanru Site is located at 38-sen, Kösei, Shimokawa-cho, Kamikawa-gun, Hokkaido, Japan. It is situated on a low river terrace formed between the Nayoro River and the Mosanru River, about 190 m above sea level, about 20 m above the Nayoro River bed. The site was discovered in 1963 by Mr. Hironobu Yamazaki. His test excavation in the following year revealed the Palaeolithic character of the site, as typical Araya Burins and tanged points were included in the assemblage. Since I heard from him about these facts, I was deeply interested in excavating the site in order to shed some light on the final phases of the Palaeolithic in Hokkaido, the northernmost island of Japan. My proposal of excavation was supported with his local cooperation and the excavation of seventeen days in total was carried out as follows.

First season: from August 20 to 27, 1964.
Second season: from August 16 to 24, 1965.

All artifacts from the excavations were brought to Laboratory of Archaeology, Tohoku University for thorough analyses to be conducted. The Laboratory has continued the study of them since then. In 1972, a preliminary report was published by Keisuke Iwamoto. Tsutomu Hayashi later attempted a patient work of conjoining the lithics and fruitful results were obtained especially on the tool production technology and on refitments among flakes, cores, and tools. Hiroshi Kajiwara recently approached the Mosanru material from functional point of view by means of use-wear analysis, and pieces of interesting information were recovered. This constitutes a part of the project of Tohoku University Microwear Research Team (T.M.R. team) that has been active for 5 years. Nineteen years have already passed since I first conducted this excavation. I would like to assume, however, the responsibility as excavation director by publishing the results so far achieved. I would also like to mention the debts I owe in completing this Archaeological Material Series volume 4, to Mr. Hironobu Yamazaki, the Shimokawa-cho (town) Board of Education, and all those who participated in the excavations.

A total of 7350 lithic artifacts were excavated from Mosanru Site including tools, flakes and cores, but only 41 of them are typologically definable retouched implements (table 2). Burins, a fragmental bifacial point, end-scrapers, a borer, adzes and a keeled scraper represent the assemblage. The notable characteristic of the Mosanru material is its high frequency of conjoining among flakes and with their respective cores. Laborious efforts to refit them have resulted in more than twenty conjoined nodules, the largest one consisting of 46 pieces.

These refitted examples enabled us to reconstruct their core reduction sequences. The techniques of flake production of Mosanru people are thus classified into four types, in terms of the relationship between platform(s) and working face(s), as well as the number and location of the two. A working face refers here to the plane of core from where flakes are removed, that is, the potential dorsal face of successively removed flakes.

Type I. The core reduction sequences with one platform for one working face. (Examples ; nodules B, C, D, N, O, T).

Type II. Sequences with two parallel platforms facing each other for one working face. (Examples ; nodules A, E, M, P, Q, R).

Type III. Sequences where more than two platforms are related to more than two working faces. (Examples ; nodules F, G, H, L).

Type IV. Sequences from one working face in spite of more than two platforms. (Examples ; nodules I, S).

T.M.R. team has accumulated a certain amount of experimental data using shale and chert. The classification of use-wear polishes on replicated shale tools is shown in plate 58. (Serizawa et al. 1982, Kajiwara and Akoshima 1981). Most Mosanru artifacts are made of quartz rhyolite, also a kind of CCS, and the experimental results are applicable to them. The surface of Mosanru materials actually looks very similar under the metallurgical microscope to shale and chert. Eleven artifacts were examined in the present analysis, two of which are made of obsidian. They are four burins, five end-scrapers, a keeled scraper and a broken scraper.

The inferences are summed up as follows. The main working edges of quartz rhyolite burins were the sharp edges between burin facets and ventral faces. Other edges around the burins were also used. Edges on burin facets were used in whittling motions and tips of the facet edges were used in graving. Cutting and whittling were carried out with edges around burins (other than on facets). Two burins were used on antler and/or bone, one on wood, and one on hide and/or meat. In case of end-scrapers, the retouched "scraping edges" were actually mainly utilized, but the microwear was also found along other edges. Activities were, scraping with five edges, cutting with two, and sawing with one. Worked materials were, hide and/or meat with three edges, antler and/or bone with three. Movements of two obsidian tools are inferred (plates 69, 70), but the worked materials are unidentified.
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北海道上川郡下川町幸成モサンル旧石器時代遺跡出土資料

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