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An outline of paleontological investigation

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Paleontological investigations were done preliminarily in January, 1977 by Watanabe and from December, 1977 to February, 1978 by us. Collecting methods were depended on picking collection from land-surface, excavation and washing-screening. More than a hundred specimens were collected and housed in the Museum of INGEOMINAS (Instituto de Investigaciones Geológico y Mineras), Colombia.

Arrangement and identification of specimens were done on March, 1978 in Colombia by us. About 20 specimens, most interested for us, were lent during one and half years from INGEOMINAS to Embassy of Japan in Colombia, and then were studied and copied in Primate Research Institute, Kyoto University.

It was a pity that our aim of discovering fossil primates was not achieved, but important discovery was done. Description of a new caviomorph rodent was shown in other paper.

Simplified maps of research area and investigated sites were shown in Figure 1. New species and other rodents were shown in Photos 1–6 and also landscapes of localities in Photos 7–9. Numbered localities and specimens, and identifications were listed in Table 1.

Our investigation was done by many personal and financial supports. We heartily thank to the Ministry of Education, Science and Culture of the Japanese Government for financial support, and to INGEOMINAS, INDERENA and “Universidad Nacional” of Colombia for permission of investigation and to Dr. F. Zambrano, Dr. H. Duque, Mr. Rincon and Mr. L. Calvajal of INGEOMINAS, Dr. G. Correal and Mr. F. Lemus of “Universidad Nacional” and Dr. Mejia of INDERENA for kind advices and cooperations of work. We also thank to Mr. M. Hayakawa for interpreter and to many habitants of Villa Vieja, Huila, Colombia.

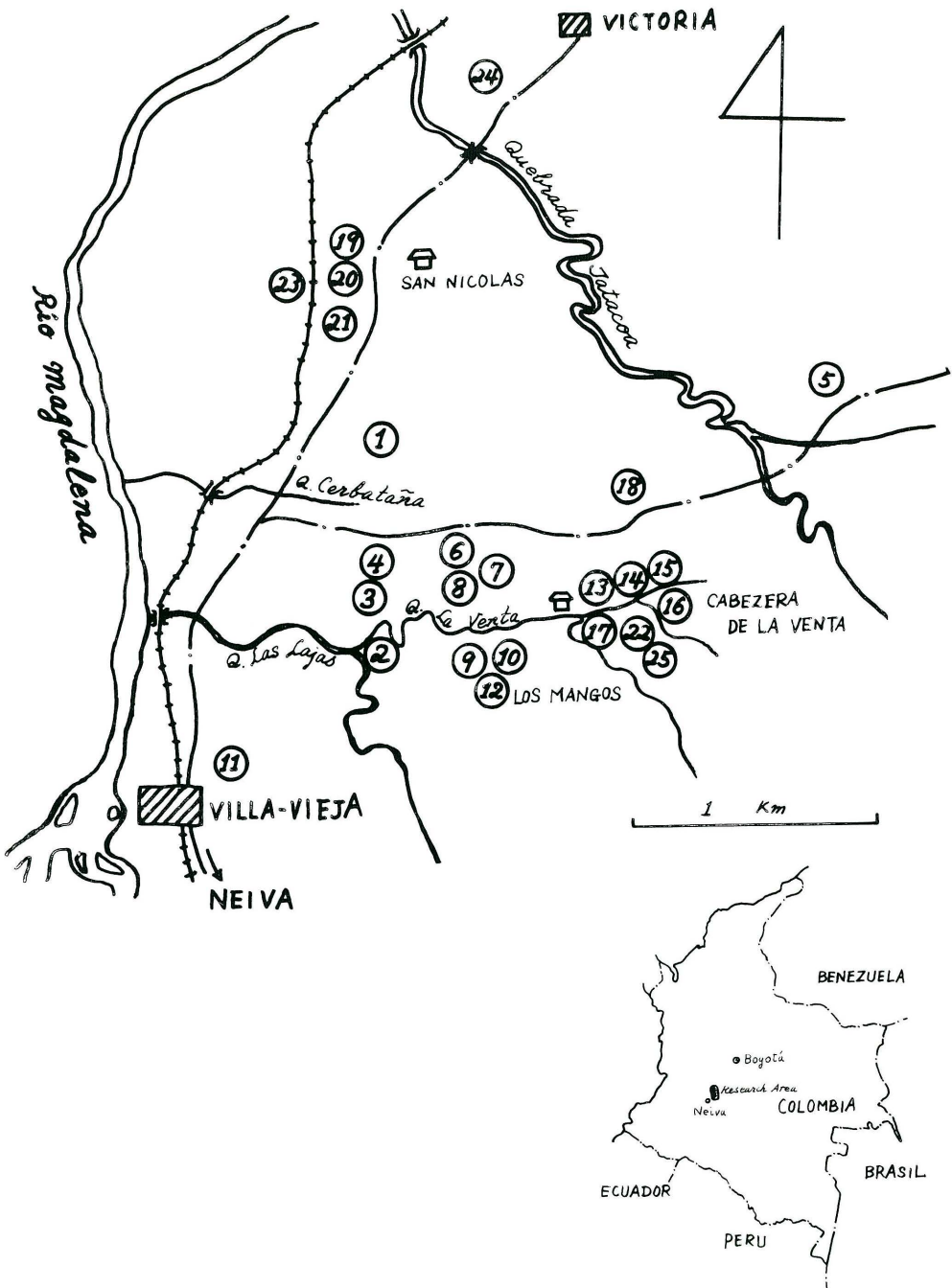


Fig. 1. Simplified maps of research area.

Table 1. Locality, Specimen and Identification.

No. localities and specimens	Identification	No. localities and specimens	Identification
T.W. 1-1	fragments of Gliptodon	19-8	Interatheriidae
2-1	unknown	20-1	Interatheriidae
3-1	Interatheriidae	20-2	Interatheriidae
4-1	Coprolites	20-3	unknown
4-2	Notoungulata	20-4	upper and lower jaws of Marsupial
4-3	fragments of Astrapotheriidae	20-5	Rodentia upper incisors and molars
5-1	fragment of basi-cranium, unknown	20-6	Interatheriidae
5-2	Interatheriidae	20-7	Interatheriidae
6-1	Prodolichotis	20-8	Interatheriidae
7-1	Interatheriidae	20-9	Rodentia isolated incisor and molar
7-2	Olenopsis	20-10	Interatheriidae
7-3	Scleromys	20-11	fragments of Interatheriidae
7-4	fragments of Gliptodon	20-12	fragments of Interatheriidae
7-5	Interatheriidae upper-jaw	20-13	isolated teeth of Interatheriidae
8-1	Scleromys	20-14	Interatheriidae
8-2	fragments of Notoungulata	21-1	Interatheriidae
9-1	Toxodon	22-1	not identified lower jaw
10-1	Olenopsis	22-2	not identified tooth
10-2	Interatheriidae	22-3	Rodentia
10-3	unknown	22-4	unknown
10-4	not identified upper-jaw of Rodentia	22-5	not identified lower jaw
10-5	Toxodon	22-6	Edentata teeth
10-6	Toxodon	22-7	Rodentia isolated teeth
10-7	Notoungulata isolated teeth	22-8	Fishes
10-8	Rodentia isolated teeth	22-9	Edentata teeth
10-9	Fish teeth	22-10	Rodentia incisors
11-1	Scleromys	22-11	Rodentia teeth
11-2	Olenopsis	22-12	Rodentia teeth
12-1	fragments of Notoungulata	22-13	not identified premolar
13-1	not identified lower jaw	22-14	not identified incisor
14-1	Interatheriidae	22-15	Notoungulata
15-1	fragments of Notoungulata teeth	22-16	Edentata tooth
16-1	Interatheriidae	22-17	not identified incisors
16-2	Interatheriidae	22-18	Rodentia isolated teeth
16-3	Interatheriidae	22-19	Fish teeth
16-4	not identified Marsupial	22-20	not identified fragments
16-5	not identified tooth of Rodentia	22-21	Notoungulata
16-6	Interatheriidae	22-22	not identified fragments
16-7	Sample of Clays	23-1	not identified teeth
17-1	Olenopsis	23-2	Interatheriidae
17-2	not identified Marsupial	23-3	Interatheriidae
17-3	not identified various fragments	23-4	Interatheriidae
18-1	Interatheriidae	23-5	Rodentia lower jaw
18-2	Interatheriidae	23-6	Rodentia lower jaw
18-3	Interatheriidae	23-7	Rodentia isolated teeth
18-4	Not identified Rodentia	23-8	not identified incisors and teeth (c.f T.W. 22-14)
18-5	tooth of Notoungulata	23-9	Interatheriidae
19-1	Scleromys	24-1	Interatheriidae
19-2	Interatheriidae (Cranium)	25-1	not identified Rodentia
19-3	Interatheriidae	25-2	Rodentia teeth
19-4	not identified Rodentia	25-3	Interatheriidae
19-5	not identified tooth of Rodentia	25-4	Astrapotheria incisor
19-6	Interatheriidae	25-5	unknown
19-7	not identified vertebra of Fishes	25-6	not identified various teeth

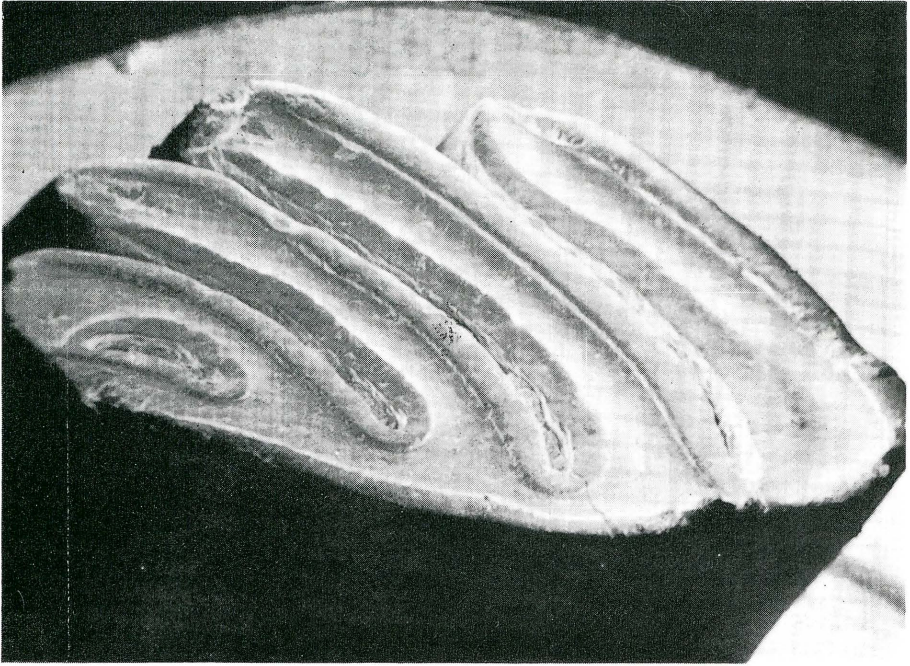


Photo. 1. No. TW22-3, Molar of rodent, $\times 30$.



Photo. 2. Same specimen of photo 1, $\times 30$.



Photo. 3. Same specimen of photos 1, 2, $\times 50$.

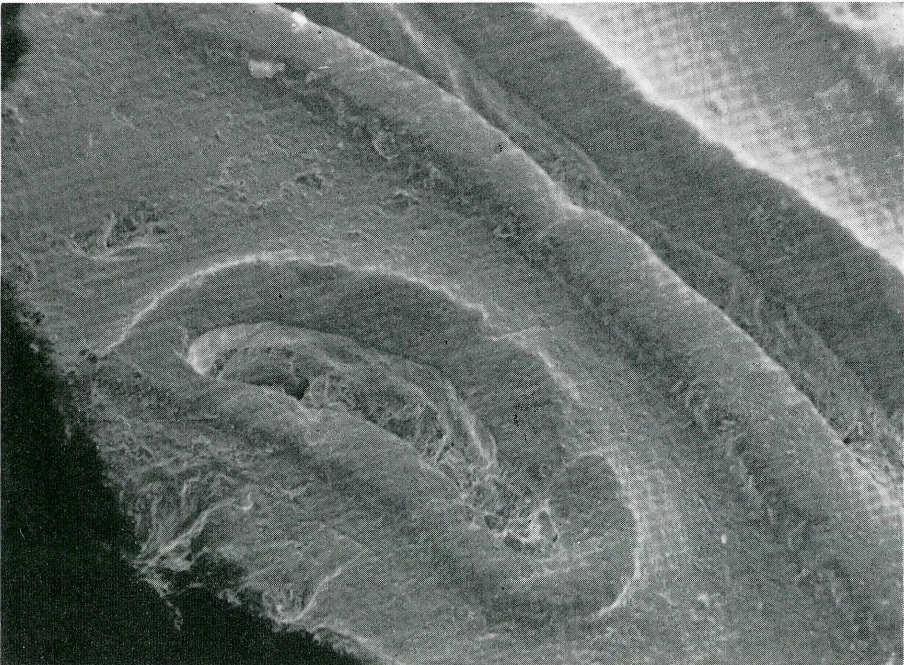


Photo. 4. Same specimen of photos 1, 2, 3, $\times 100$.

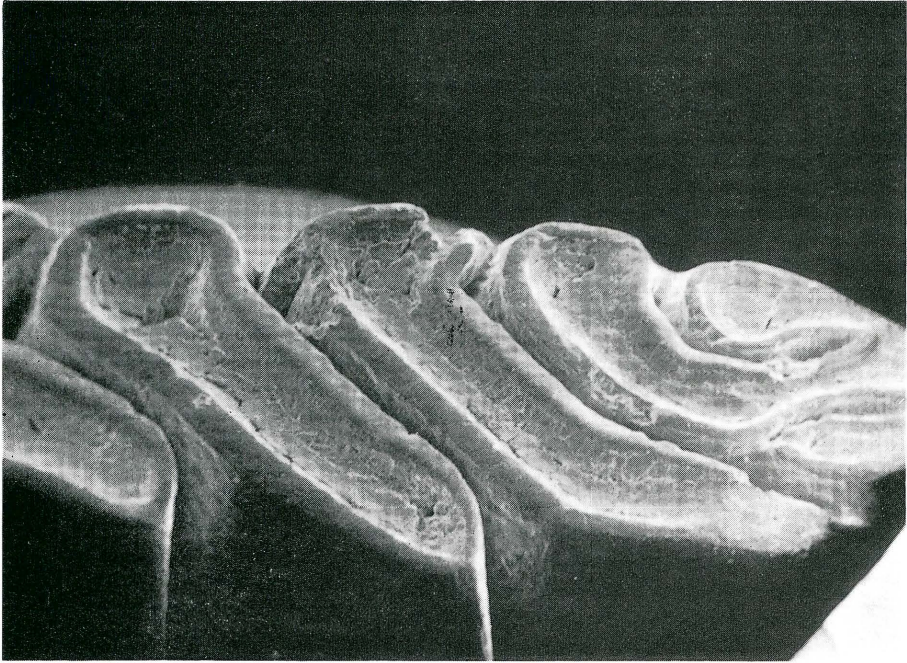


Photo. 5. No. TW22-3, Molar of rodent, $\times 30$.

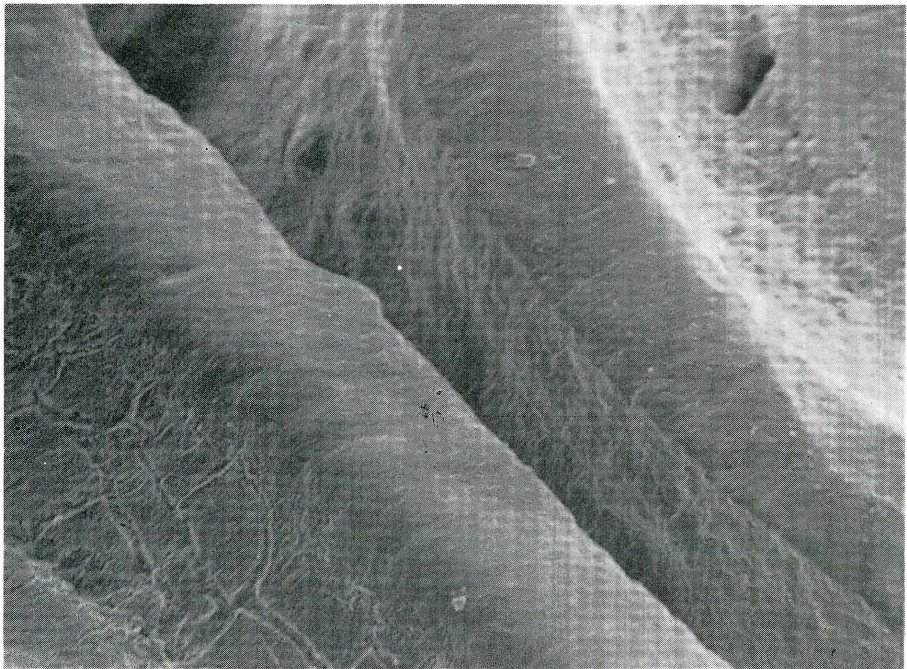
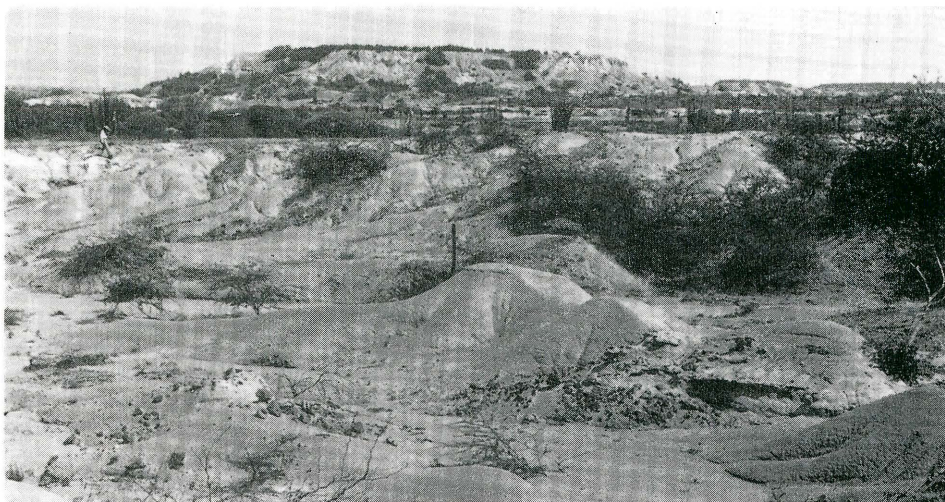


Photo. 6. Same specimen of photo 5, $\times 200$

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Photo. 7. Landscape of localities No. 3, 4, 6, 7 and 8.

Photo. 8. Landscape of locality No. 2.

Photo. 9. Plastered fossil and sands.