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Zoological collectings by the Hungarian Natural History Museum in Korea. 90. A report on the collecting of the Tenth Expedition

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ABSTRACT. A brief account and an annotated list of collecting localities of the 10th Expedition by the Hungarian Natural History Museum to Korea is given.

KEY WORDS: Zoological expedition, localities of material, Korea.

The 10th expedition from the Hungarian Natural History Museum to Korea was different from previous ones in two aspects. This was the first four-man expedition and it was for the first time that collection of vertebrates - mainly mammals and birds - was the main objective of the trip. These two facts led to, and in fact necessitated the participation of two taxidermist, György SIPOS and Imre IZSAK. They took more than their share not only in preserving the collected material on the spot, but also in the collecting work.

The collecting equipment included 240 small mammal snap-traps and mole-traps, 3 mist-nets and some traps for small carnivores. Since permission to use fire-arms for collecting would have been very difficult to obtain, we decided not to carry even an air-gun. A catapult with lead shots was used to collect birds, which was found to be a usable solution, if far from being satisfactory.

The group departed from Budapest on 1 November, 1986, and flew via Moscow to reach Pyongyang on the following day. We spent a total of 19 days in the field, and returned to Budapest on 2 December. We visited Mt. Myohyang-san, Mt. Kumgang-san, and the environs of Haeju, and Kaesong, respectively. Our original plans included a visit to Paekdu-san in the north, but snowfall prevented us from travelling to that area.

The timing of our visit, November, is unsuitable, to entomologists, who manned the majority of the previous expeditions. However, the season was excellent for small-mammal trapping. A total of 200 specimens was obtained, whose external parasites and intestines for analysis of internal parasites were fixed in alcohol. (The numbering of the parasitological samples is the same as for the hosts.)

Since the specific collecting numbers of the vertebrates differ from the sample numbers used for invertebrates, we did not continue with the numbering system of the previous expeditions. However, subsequently it turned out to be useful document continually the collecting activities of the Hungarian Natural History Museum in Korea. Therefore our numbers (No. 1072 to No. 1310) follow those of the 1987 expedition in spite of its priority.

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LIST OF LOCALITIES

The numbering of our collecting begins with No. 1072, since the eleventh expedition closed with No. 1071 (KORSÓS and RONKAY 1988).

- No. 1072-1075 Pyongyang City, Mt. Ryongak-san, 5 Nov. 1986.- Mist-netted and shot birds (Parus major 2, Parus ater 2).
- No. 1076-1084 Chagang Prov., 3 km N of Hyangsan, 8 Nov. 1986. Trapped small mammals (Clethrionomys rufocanus 1, Apodemus agrarius 8).
- No. 1085 Same locality and date Shot bird (Parus palustria).
- No. 1086-1128 Chagang Prov., 3 km N of Hyangsan, 9 Nov. 1986. Trapped small mammals (Crocidura lasiura 4, Clethrionomys rufocanus 4, Apodemus agrarius 32, Apodemus peninsulae 3).
- No. 1129-1131 Same locality and date Mist-netted birds (Sitta europaea 1, Emberiza elegans 2).
- No. 1132-1156 Chagang Prov., 3 km N of Hyangsan, 10 Nov. 1986. Trapped small mammals (Crocidura lasiura 15, Crocidura suaveolens 1, Clethrionomys rufocanus 3, Apodemus agrarius 6).
- No. 1157-1158 Same locality and date Mist-netted birds (Parus palustris 1, Paradoxornis webbiana 1).
- No. 1159-1168 Chagang Prov., 3 km N of Hyangsan, 11 Nov. 1986. Trapped small mammals (Crocidura lasiura 6, Apodemus agrarius 4).
- No. 1169-1173 Same locality and date Mist-netted birds (Emberiza elegans 3, Uragus sibiricus 1, Prunella montanella 1).
- No. 1174-1177 North Pyongan Prov., 8 km S of Hyangsan, 11 Nov. 1986 Shot birds (Sitta europaea 1, Parus major 1, Parus palustris 2).
- No. 1178 Same locality and date Shot small mammal (Apodemus agrarius).
- No. 1179 North Pyongan Prov., Mt. Myohyang-san, Hotel Myohyang-san, 11 Nov. 1986. -Rattus norvegicus trapped in the hotel.
- No. 1180 Kangwon Prov., Mt. Kumgang-san, pathway Kuryong, 16 Nov.1986. Moss and litter sample, collected in a mixed forest, to be extracted in Berlese funnel.
- No. 1181 Same locality and date Moss sample, to be extracted in Berlese funnel.
- No. 1182 Same locality and date Mixed humus from beneath a tree to be extracted in Berlese funnel.
- No. 1183 Same locality and date Soil sample to be extracted in Berlese funnel.
- No. 1184 Same locality and date Moss sample to be extracted in Berlese funnel.
- No. 1185 Same locality and date Litter sample to be extracted in Berlese funnel.
- No. 1186 Same locality and date Soil sample to be extracted in Berlese funnel.
- No. 1187 Same locality and date Decaying wood to be extracted in Berlese funnel.
- No. 1188 Kangwon Prov., Mt. Kumgang-san, pathway Kuryong, 16 Nov. 1986. Small mammal trapped near path (Apodemus agrarius).
- No. 1189-1206 Kangwon Prov., Mt. Kumgang san, pathway Kuryong, 17 Nov. 1986. Small mammals trapped near path (Clethrionomys rufocanus 7, Apodemus agrarius 8, Apodemus peninsulae 3).
- No. 1207-1212 Kangwon Prov., Mt. Kumgang-san, pathway Kuryong, 18 Nov. 1986. Small mammals trapped near path (Crocidura lasiura 1, Clethrionomys rufocanus 3, Apodemus agrarius 1, Apodemus peninsulae 1).
- No. 1213 Same locality and date Mogera robusta collected with mole-trap.
- No. 1214-1218 Same locality and date Mist-netted birds (Parus major 2, Emberiza elegans 3).
- No. 1219-1229 Kangwon Prov., Mt. Kumgang-san, 2 km W of Dongre-dong, 18 Nov. 1986. -Bats from the deserted goldmine (Plecotus auritus 1, Rhinolophus ferrumequinum 10).
- No. 1230 Kangwon Prov., Mt. Kumgang-san, River Nam, 18 Nov. 1986. Fishes and crustaceans caught in the river.
- No. 1231-1236 Kangwon Prov., Mt. Kumgang-san, pathway Kuryong, 19. Nov. 1986. Trapped small mammals (Sorex caecutiens 1, Clethrionomys rufocanus 3, Apodemus agrarius 2).

- No. 1237-1238 Same locality and date Shot birds (Parus varius 1, Sitta europaea 1).

 No. 1239 Kangwon Prov., Mt. Kumgang-san, Lake Samil-po, 19 Nov. 1986. Myotis bombinus collected at the entrance of an inflow channel.

 No. 1240 Kangwon Prov., Mt. Kumgang-san, Lake Samil-po, 20 Nov. 1986. Eutamias sibiricus shot.
- No. 1241 Same locality and date Mogera robusta collected by mole-trap.

 No. 1242-1261 Same locality and date Small mammals trapped in paddy-fields and bamboobush (Clethrionomys rufocanus 8, Microtus fortis 1, Apodemus agrarius 10,
- bush (Clethrionomys rufocanus 8, Microtus fortis 1, Apodemus agrarius 10,
 Rattus norvegicus 1).

 No. 1262 Same localigy and date Shot bird (Aegithalos caudatus).
- No. 1263-1274 Kangwon Prov., Mt. Kumgang-san, Lake Samil-po, 21 Nov. 1986. Small mammals trapped in paddy-fields and bamboo-bush (Crocidura lasiura 2, Mogera robusta 1, Clethrionomys rufocanus 3, Apodemus agrarius 6).
- No. 1275-1279 Kangwon Prov., Mt. Kumgang-san, Onjong-ri, 22 Nov. 1986. Small mammals trapped 2 km W of the hotel (Clethrionomys rufocanus 4, Apodemus agrarius 1).
- No. 1280-1286 Kaesong City, Sango-r8, 26 Nov. 1986. Trapped small mammals (Clethrionomys rufocanus 1, Apodemus agrarius 6).
- No. 1287-1288 Same locality and date Shot birds (Parus major 1, Carpodacus roseus 1).
- No. 1289-1303 Kaesong City, Sango-ri, 27 Nov. 1986. Trapped small mammals (Crocidura suaveolens 2, Crocidura lasiura 1, Clethrionomys rufocanus 1, Apodemus agrarius 11).
- No. 1304 Same locality and date Sitta europaea collected by mist-net.
- No. 1305 Same locality and date Trapped Apodemus agrarius.
- No. 1306-1310 South Hwanghae Prov., Haeju, Mt. Suyong-san, 30 Nov. 1986. Trapped small mammals (Apodemus peninsulae 5).

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