

References

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Notes on *Morphodactyla ishikawai* (Coleoptera, Carabidae):
Recent Records and Preliminary Data on the Breeding Type

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Morphodactyla ishikawai (NEMOTO, 1990) was described based on the specimens from Mt. Jirisan, South Korea (NEMOTO, 1990), but there has been no additional record since the original description. This short communication reports: 1) recent records from two mountains, one of which is a new distribution record; and 2) the result of the dissection of the female reproductive organs, which provide useful information for inferring its breeding type (*i.e.*, spring or autumn breeder).

The specimens examined are deposited in the following public collections: Department of Forest Resources Protection, College of Forest Science, Kangwon National University, Korea; Laboratory of Forest Zoology, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Japan; and Division of Health, Uiduk University, Korea.

Specimens examined. 1 ♂, Mt. Deogyusan, around summit, Muju-gun, Jeollabuk-do [new record], 6~7-VII-2003; 3 ♂♂, 9 ♀♀, Jungsan-ri, Mt. Jirisan, Sancheong-gun, Gyeongsangnam-do, 2~3-VII-2003; 1 ♂, 4 ♀♀, Jongseokdae – Nogodan (alt. 1,100~1,500 m), Mt. Jirisan,

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Gurye-gun, Jeollanam-do, 4~5-VII-2003, all from Korea, K. SASAKAWA, J.-L. KIM, Y. TAKAMI, T. SOTA & K. KUBOTA leg.

Results of the dissection. Four females from Jungsan-ri were dissected, and the all individuals had mature eggs. Some carabid species known to be a spring breeder (e.g., *Tomocarabus fraterculus*: see KIM & LEE, 1992) were collected at the same time, and had also mature eggs. These results suggest that *M. ishikawai* is a spring breeder.

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