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Gerographical distribution, morphological and micrometrical comparison of species *Anacanthotermes vagans* Hagen, *A. turkestanicus* Jacob. and *A. ahngerianus* Jacob. in Iran

R. GHAYOURFAR
Plant Pests and Diseases Research Institute

ABSTRACT

Termites of family Hodotermitidae or the so-called harvester termites, are distributed in rangelands of Palearctic and Ethiopian region. Genus *Anacanthotermes* Hagen of this family, is almost distributed in all rangelands of Iran and eausing damage in rural and urban buildings.

In this paper morphological characteristies, micrometrics of soldier caste and characters helping us to differentiate species *A. vagan* Hagen, *A. turkestanicus* Jacobson and *A. ahngerianus* Jacobson are discussed. Mricrometricaly *A. ahngerianus* is the largest member of these 3 species(Table1). Pronotum of this species has a cleft on lateral margins (Fig. 3. B). First marginal tooth of left mandible of *A. turkestanicus* has a transversal margin (Fig. 2.A.B).

A. vagans is distributed in all pastures of Iran and *A. ahngerianus* in province of Khorasan. *A. turkstanicus* Jacobson is collected form Yyekke seoude (Bojnord) and Maravae tappe (Gonbad Kavooss).

REFRENCES

AHMAD, M. (1950). The phylogeny of termite genera based on Imago-worker

mandibles; Bull. Amer. Mus. Nat. Hist. 95: 37-86.

AL-KADY, H. BADAWI, A. and FARAGALLA, A. A. (1987). Identification of Termites of Saudi-Arabia. Arab Gulf J. Scient. Res.-Agrc. Biol. Sci. BS (2): 185-198.

BADAWI, A. DABBOUR, A. and FARAGALLA, A. A. (1982). A contribution to the termite fauna (Isoptera) of Saudi-Arabia. Sociobiology, 7(2): 259-260.

BELYAEVA, N. V. and ZHUZHIKOV, D. P. (1974). A contribution to the fauna and distribution of termites in USSR. Termite: a collection of paper, Moscow University Publishing House, 7-61.

BOUILTON, A. (1970). Termites of the Ethiopian region (in K. Krishna and F. wessner, eds. Biology of Termites), Vol. 2. Academic Press, New york, 154-273.

CHAUDHRY, M. I. (1972). Termited of Pakistan, identification, distribution and ecological relationships. Peshawar, Pakistan Forest Institute, 70 pp.

CHHOTANI, O. B. and BOSE, G. (1979). Insects of Saudi-Arabia. Fauna Saudi Arabia Nat, Hist. Mus. 1: 75-83.

FATEMY, S. and ZARANI, F. (1993). Identifivation, distribution and damage of termites in oil industry, Proceeding of the 11th Plant Protection Congress of Iran, Rasht, Iran.

GHAYOURFAR, R. (1994). Termite fauna of Iran and their economical importance. Zeitoon (in Persian) 123: 150-153.

HARRIS, W. V. (1967). Termited of the genus *Anacanthotermes* in north Africa and Near - East, Proc., R. Entomol. Soc. Lond. (B). 36(5-6): 79-86.

WEIDNER, H. (1960). Die termiten von Afghanistan, Iran und Irak (Isoptera), Contribution á l'étude de la faune d'Afghanistan, 29: 43-70.

Address of the author: Eng. R. GHAYOURFAR, Plant Pests and Diseases Research Institute, P. O. Box 1454-19395, Tehran, IRAN