

Reprinted from

PROCEEDINGS OF THE ENTOMOLOGICAL SOCIETY OF WASHINGTON

Vol. 69, No. 3, September 1967, pp. 273-274

Made in United States of America

SYNONYMS OF TRACHYMYRMEX BUGNIONI FOREL AND TRACHYMYRMEX DIVERSUS MANN

(HYMENOPTERA: FORMICIDAE)

NEAL A. WEBER, *Swarthmore College, Swarthmore, Pennsylvania 19081*

Biological information being accumulated on several rare *Trachymyrmex* species justifies the following synonymy in order to use more valid names. Earlier synonymy in the genus appeared in 1958 (Weber, Ent. News 69:49-55).

Trachymyrmex bugnioni Forel

- 1912. *Trachymyrmex bugnioni* Forel, Mém. Soc. Ent. Belg. 19:186-187.
- 1916. *Trachymyrmex humilis* Wheeler, Bull. Mus. Comp. Zool. Harvard 60:325-326. **New synonymy.**
- 1922. *Myrmicocrypta cucumis* Mann, Proc. U. S. Nat. Mus. 61:45. **New synonymy.**
- 1925. *Trachymyrmex abortivus* Wheeler, Arkiv f. Zool. 17A:40-42. **New synonymy.**
- 1938. *Trachymyrmex schomburgki* Weber, Rev. de Ent. 9:195-196. **New synonymy.**
- 1938. *Trachymyrmex tucuche* Weber, Rev. de Ent. 9:197-199. **New synonymy.**
- 1940. *Trachymyrmex morgani* Weber, Rev. de Ent. 11:421-422. **New synonymy.**
- 1958. *Trachymyrmex cucumis* Weber, Ent. News 69:50-51.

The Forel collection contains one pin with two workers labelled "Typus" and "A (*Trachymyrmex*) *Bugnioni* ♀ Type, Forel, Burithaka, Colombie (Forel)". They have thorax lengths of 0.94 and 1.04 mm. When compared directly with a *morgani* cotype of Barro Colorado Island, Canal Zone, the latter had the median anterior clypeal notch smaller and sharper, shorter scapes, longer prothoracic median spines and thorax generally spinier. Where *bugnioni* has a massive bituberculate swelling on the epinotum anteriorly, *morgani* has a spine. Despite these differences, they will probably be considered infraspecific when more specimens are collected. *T. carib* and *levis* were also compared directly and considered to be close but distinct species.

There are two pins in the Museum of Comparative Zoology collection under *humilis*; one worker marked type (No. 9250) is labelled "Port of Spain, Trinidad, R. Thaxter 1913". It has a thorax length (including collar) of 1.05 mm. The other worker marked cotype (also No. 9250) is labelled "Gasperee Isl. Trinidad, on coral rocks, R. Thaxter 1912". It has a thorax length of 1.15 mm. In the original description Gasperee Island is mentioned first and the length given as 2.2-2.5 mm. Contrary to the description, the post-petiole from above is clearly broader than long in both specimens, even when the lateral tubercles were disregarded. No comparison with any other species was made in

the description. The differences between these ants and the other types are minor.

The holotype of *abortivus* of British Guiana when compared with the holotype of *schomburgki* (also British Guiana) in the Museum of Comparative Zoology in 1958 was decided to be conspecific, a decision in which Dr. W. L. Brown concurred. They had identical thoracic lengths. The differences noted in the original description of the latter are now considered to be infraspecific in value. The *abortivus* specimen is labelled "Kartabo, B.G. July 21, 1920 (Nos. 193-195)".

The holotype of *schomburgki* was compared in the United States National Museum with the two cotypes of *cucumis* of Honduras. The latter had the same thorax length, the clypeal notch deeper, the carinae and brown spot of the frons more prominent, the epinotal basal surface lower and the antero-lateral pronotal spine shorter. These are all considered now to be of infraspecific value.

At the time *tucuche* was described it was stated that it, *humilis* and *abortivus* "might be considered forms of a single species" and the recent comparisons with other type material, in the light of variability in other *Trachymyrmex* species, have forced the present conclusions.

The distribution, then, of *bugnioni* parallels remarkably the distribution of *cornetzi* of which it is a miniature (see Weber, 1958, Ent. News, 69: 49-50).

Trachymyrmex diversus Mann

1916. *Trachymyrmex diversus* Mann, Bull. Mus. Comp. Zool. 60:454-455.

1937. *Trachymyrmex phippii* Weber, Rev. de Ent. 7:405-407. New synonymy.

Three cotypes of *diversus* in the United States National Museum are labelled "Rio Madeira, Abuna, Brazil, Mann and Baker". They are largely concolorous and distinctly paler than cotypes of *phippii* from the Oronoque R., Lat. 2°42' N., B. Guiana, the posterior mesonotal spines are smaller and there are other minor differences, all now considered to be intraspecific in value. The *diversus* workers were said to be closely related to *oetkeri* "but differing in the smaller size of the anterior pronotal spines, which in *T. oetkeri* are much longer than the posterior pair". Syntypes of *oetkeri* (Bresil, S. P., Ypiranga, Luederwalt) in the Santschi collection were compared with *phippii* cotypes and found to be a different species.
