

A provisional list of the Balkan ants (Hym. Formicidae) with a key to the worker caste. II. Key to the worker caste, including the European species without the Iberian.

DONAT AGOSTI & CEDRIC A. COLLINGWOOD

- 1) Entomologisches Institut ETHZ, 8092 Zürich, Switzerland
- 2) City Museum, Municipal Buildings, Leeds LS1 3AA, U. K.

In this work a key to the worker caste of more than 280 ant species (Hym. Formicidae) of Europe without Spain is provided. It has been worked out by the means of new collections by the authors (1983–85) and out of material from the KUTTER and the FOREL collections at Egg and Geneva respectively. A synonymic list and notes on the distribution of these species are presented in the first part (AGOSTI & COLLINGWOOD 1987).

INTRODUCTION

The material has been collected during the years 1983–85 towards a fauna of the Balkans. To encourage collectors and facilitate recording, a synonymic list (AGOSTI & COLLINGWOOD 1987) and keys to the worker caste have been prepared. Both list and keys are of provisional nature as some of the earlier records are doubtful and in many cases correct synonymy has not been established and must await further revisionary studies. Only keys to the worker caste are possible at that time, since males and females are still unknown for many of the species groups apart from *Myrmica*, *Lasius* and *Formica*. Both list and keys include species known to exist on the Balkans or expected to be there. Additionally the European species (without the Iberian) have been included in order to provide keys to a larger part of Europe, for the first time. Out of 319 taxa listed in the first part, a few have been omitted from the keys where specimens have not been available for examination and original descriptions have been inadequate to distinguish them clearly. The key to *Epimyrma* spp. has been prepared by BUSCHINGER. To save space, and because of its provisional nature, illustrations are presented for those genera and species groups, which are neither available in KUTTER (1977) nor in COLLINGWOOD (1979). Otherwise we refer to COLLINGWOOD and KUTTER; C (No. of figure) and K respectively. Additional keys for parts of Europe, based on modern taxonomy are those of ARNOLDI & DLUSSKY (1978; European part of the USSR), BERNARD (1968; France), BOLTON & COLLINGWOOD (1975, Britain), BOVEN (1986; Benelux), COLLINGWOOD (1978; Iberian Peninsula), COLLINGWOOD (1979; Fennoscandia and Denmark) and KUTTER (1977; Switzerland). A catalogue for the Italian species is provided by BARONI URBANI (1971). It is hoped that collectors will point out defects in the keys and provide additional records so that a fuller and more accurate text can be prepared in due course.