

NEW DISTRIBUTIONAL DATA FOR THE AFRICAN BEES AND THEIR PHYLOGEOGRAPHIC INTEREST

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Bees (Hymenoptera, Apoidea) are strongly linked to the warm xeric habitats (1). Due to the importance of deserts in that continent, the study of these insects' distributions in Africa is very interesting to improve the current understanding of the mechanisms of their evolutionary modalities. One has strong reasons to believe that the global ecosystems changes happening in Africa, up to Tertiary played a key role in this domain. Recently, several expansions of the previously known distributions were observed for varied species (2,3,4,5,6). In the present poster, the authors summarize these new data and discuss them in an evolutionary sense. Moreover, they use them to draft the work hypotheses of future studies in the domain of bees phylogeography and evolutionary dynamic understanding.

- (1) Michener, C. D. (1979) Biogeography of the bees. *Annals of the Missouri Botanical Garden*, 66, 277-342.
- (2) Patiny, S. (2004) Two new panurgine bee (Hymenoptera: Andrenidae) species from the Near- and Middle East. *Zootaxa* – under press
- (3) Patiny, S. (2004) Descriptions of the males of two recently described South African Panurginae (Hymenoptera: Andrenidae). *Zootaxa* – under press
- (4) Patiny, S. (2004) Analysis of the Panurginae distribution in West-Africa and report of new data for *Meliturgula scriptifrons* (Walker 1871) in Mali (Hymenoptera, Apoidea, Andrenidae). *Linzer biologische Beiträge* – under press
- (5) Patiny, S. (2004) Description of two new *Systropha* Illiger 1806 (Hymenoptera, Halictidae, Rophitinae) . *Linzer biologische Beiträge* – under press
- (6) Michez, D. Patiny, S. (2004) World catalogue, biogeography and floral choices of the oil-collecting bee genus *Macropis* Panzer 1809 (Hymenoptera, Apoidea, Melittidae). In preparation