

NEW RECORDS OF *LIBELLULA FULVA* (MÜLL.) FOR PORTUGAL (ANISOPTERA: LIBELLULIDAE)

On 25 March 1995, a female was captured and photographed in an orchard near the hamlet Ludo, about 4 km W of Faro, Algarve. Though not absolutely teneral, the individual had clearly emerged recently. Ludo is fringed by saltmarshes, but there is a fresh creek with reeds nearby. From 29 April to 4 May 1997, up to 20 males and a copula were seen and photographed in ditches between fishponds S of the coastal village of Praia de Mira, 25 km S of Aveiro, Beira Litoral. The above constitute the first records of *L. fulva* from Portugal since A.F. DE SEABRA (1939, *Direct. geral Serv. forest. aquicol.* 6: 194-196), who mentioned the species from Soure, 25 km SW of Coimbra, Beira Litoral, in 1937. This is only 45 km away from the 1997 location.

According to the known records, *L. fulva* is very local and scarce in Iberia (see Fig. 1). It is widespread in France, excluding much of the Massif Central (J.-L. DOMMANGET, 1987, *Etude faunistique et bibliographique des odonates de France*, Mus. natn. Hist. nat., Paris; 1994, *Atlas préliminaire des odonates de France*, Mus. natn. Hist. nat., Paris), but is absent from North Africa (D. ASKEW, 1988, *The dragonflies of Europe*, Harley, Colchester). The scarcity of Iberian records can perhaps be explained by the species's relatively early flight period and low densities, which can make it underrecorded. O.-P. WENGER (1963, *Mitt. schweiz. ent. Ges.* 35: 255-269) mentioned it to be plentiful in Girona province in July 1954, but much scarcer in later years. Other records are of one or only several individuals (C. DUFOUR, 1978, *Cah. Nat.* 32: 41-43; R. JÖDICKE, 1996, *Adv. Odonatol.*, Suppl. 1: 155-189). The 1995 record, along with that from Huelva, Spain (C. DUFOUR, 1968, *l.c.*), proofs its occurrence in the most arid parts of southwestern Europe.

I wish to thank BRAM KOESE for supplying the record from Praia de Mira, and Dr R. JÖDICKE for informing me about the importance of the

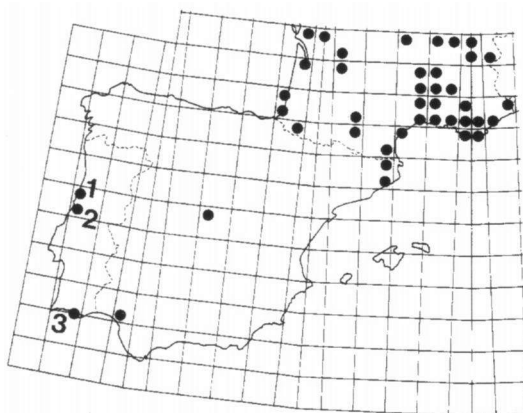


Fig. 1. The distribution of *Libellula fulva* in southwestern Europe, after C. BONET BETORET (1992, *Navasia* 1: 4), A.F. DE SEABRA (1939, *l.c.*), J.-L. DOMMANGET (1987, 1994, *l.c.*), C. DUFOUR (1978, *l.c.*), R. JÖDICKE (1996, *l.c.*) and O.-P. WENGER (1963, *l.c.*). The Portuguese locations are: (1) Praia de Mira, – (2) Soure, – (3) Ludo.

records.

K.-D.B. Dijkstra, Oude Rijnsburgerweg 38, NL-2342 BC Oegstgeest, The Netherlands