

Bulletin of Insectology Supplemental Material

Title: **Preimaginal morphology and notes on the natural history of some Afrotropical flower flies of genus *Eumerus* Meigen 1822 (Diptera Syrphidae) including description of a new species**

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Studied material *Eumerus compactus*:

Type material. Holotype: Eumerus compactus Doesburg: ♂, South Africa, Grahamstown, 15.01.1953, B. Stuckenberg, NMSA-DIP 55679 (NMSA); Allotype: *Eumerus compactus* Doesburg: ♀, Elisabethville Katanga Dr. M. Bequaert, Museum Leiden Collectie Van Doesburg rec. 1973, NMSA-DIP 67182 (NMSA)

New collected material. South Africa, KwaZulu-Natal: Otto's Bluff road, -29.506455 30.36662, 19.10.2015, ♀ ZA 1_051; -29.500777 30.36381, 22.09.2015, ♂ ZA1_299, leg. A. Vujić et al. (FSUNS); Howick, Umgeni Valley Nature Reserve, -29.480706 30.24026, 16.02.2016, ♀ ZA2_118, leg. A. Vujić, S. Radenković & N. Veličković (FSUNS); Drakensberg Mountain, Royal Natal National Park, path to Crack, -28.684426 28.93324, 27.09.2015, ♂ ZA1_209, leg. A. Vujić et al. (FSUNS) South Africa, Mpumalanga, Waterval Boven, -25.649136 30.342299, 24.11.2017, ♂ ZA4_086, leg. A. Vujić (FSUNS)

Studied material *Eumerus astropilops*:

Type material. Holotype *Eumerus astropilops* Hull: ♂, S. Afr. Natal., Royal Natal National Park, 07-11.04.1951, No. 271, Swedish South Africa Expedition 1950-1951, Brinck - Rudebeck, *Eumerus astropilops* Hull det. F.M. Hull, ZML. 2004 389, MZLU 2019 094, photo by MZLU 2019, Zool. Mus. Lund, Sweden, Type No. 3013: 1-2 Syrphidae (MZLU)

Other type material. *Eumerus hypopygialis* Doesburg 1966 Junior Synonym (Lyneborg et al. 2015). Holotype *Eumerus hypopygialis* Doesburg: ♂, Cathedral Peak Forestry Reserve, Natal Drakensberg, 03.1959, D. R. & P. J. Stuckenberg, Indumeni river, fynbos consocius, 6300 ft., NMSA - DIP 67207 (NMSA). Allotype *Eumerus hypopygialis* Doesburg: ♀, Cathedral Peak Forestry Reserve, Natal Drakensberg, 03.1959, D. R. & P. J. Stuckenberg, Indumeni river, fynbos consocius, 6300 ft., NMSA - DIP 67179 (NMSA). Paratype *Eumerus hypopygialis* Doesburg: ♂, Cathedral Peak Forestry Reserve, Natal Drakensberg, 03.1959, D. R. & P. J. Stuckenberg, Indumeni river, fynbos consocius, 6300 ft., NMSA - DIP 56392 (NMSA)

Collected material. South Africa, KwaZulu-Natal, Drakensberg Mountain, Royal Natal National Park, -28.686471 28.92855, 27.09.2015, ♂ ZA1_331, leg. A. Vujić et al. (FSUNS)

South Africa, KwaZulu-Natal, Drakensberg Mountain, Royal Natal National Park: the Crack, -28.684527 28.937416, 03.12.2012, ♂ G2131, leg. S. Radenković (FSUNS); path to Crack, -28.684426 28.93324, 27.09.2015, ♂ ZA1_210, leg. A.

Vujić et al. (FSUNS); path to Tiger Falls, -28.681725 28.92758, 27.09.2015, ♂ ZA1_196, ♂ ZA1_202, leg. A. Vujić et al. (FSUNS)

South Africa, KwaZulu-Natal, Drakensberg Mountain: Garden Castle Nature Reserve, -29.747511 29.20804, 24.09.2015, ♂ ZA1_350, leg. Vujić et al. (FSUNS); Underberg, Coleford Nature Reserve, -29.956957 29.47227, 1530 m a.s.l., 13.02.2016, ♂ ZA2_100, 17.10.2015, ♂ ZA1_381, leg. A. Vujić, S. Radenković & N. Veličković (FSUNS); Giants Castle Nature Reserve, -29.218517 29.55204, 1650 m a.s.l., 19.02.2016, ♂ ZA1_120, leg. A. Vujić, S. Radenković & N. Veličković (FSUNS); Sunday Falls, -28.671186 28.95306, 22.02.2016, ♂ ZA2_166, leg. A. Vujić, S. Radenković & N. Veličković (FSUNS); Cathedral Peak, -28.955178 29.18495, 29.09.2015, ♂ ZA1_246, leg. Vujić et al. (FSUNS); Monks Cowl, -29.047348 29.4051, 28.09.2015, ♂ ZA1_192, leg. Vujić et al. (FSUNS)

South Africa, KwaZulu-Natal: Queen Elizabeth Park Nature Reserve, garden nursery, -29.609097 30.337694, 13.12.2012, ♂ G2068, leg. A. Vujić & S. Radenković; ♂ G2221 (from bulb) (FSUNS); Howick, Umgeni Valley Nature Reserve 2, -29.483836 30.261044, 20.12.2016, ♂ ZA3_111, leg. A. Vujić, S. Radenković, N. Veličković & T. Petanidou (FSUNS); Mount Gilboa, -29.287964 30.293254, 22.-23.12.2016, ♂ ZA3_044, leg. A. Vujić, S. Radenković, N. Veličković & T. Petanidou (FSUNS)

South Africa, Mpumalanga, Barberton, Cynthia Letty Nature Reserve, -25.837735 30.9483, 28.12.2016, ♂ ZA3_062, leg. A. Vujić, S. Radenković, N. Veličković & T. Petanidou (FSUNS)

South Africa, Free State, Golden Gate National Park, -28.500352 28.61382, 12.10.2015, ♂ ZA3_087, leg. Vujić et al. (FSUNS)