

Brachycera (Diptera) from Kongsøya (Kong Karls Land) Svalbard collected by the Ymer-80 expedition.

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Abstract:

Rognes, K and Danielsson, R.: 198 . Brachycera (Diptera) from Kongsøya (Kong Karls Land) Svalbard collected by the Ymer-80 expedition.

222 specimens of Brachycera were captured representing two species of Muscidae. Spilogona dorsata (Zetterstedt, 1845) and S.megastoma (Boheman, 1866).

Introduction:

Among the insect material collected by the second author in July 1980 on Kongsøya (Kong Karls Land) during the Ymer-80 expedition, 222 specimens of Brachycera were captured in pit fall- and yellow pan-traps. Some specimens were also collected in window-trap and by sweeping-net. The swept material was mounted dry and the rest preserved in alcohol. The dry mounted material was identified by Adrian C. Pont, British Museum (Natural History), London, England. The material in alcohol was later dry mounted by the first author, who also identified it.

The material is kept at the Museum of Zoology, Lund, Sweden and a few specimens at the British Museum (Natural History) London, England.

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Muscidae:

Spilogona dorsata (Zetterstedt, 1845)

Material examined: 2 specimens (♀♀)

Habitat: One specimen was captured in a yellow pan-trap on a wet habitat on the coastal plain, July 19, and the second specimen was swept near the beach at Kap Koburg, July 20.

Remarks: This species is also known from low to high arctic parts of North America, Greenland, Spitsbergen, low to high alpine regions of the Scandinavian peninsula and arctic parts of the USSR (Hennig 1959, Pont 1970, Danks 1981, Rognes 1983).

Spilogona megastoma (Boheman, 1866)

Material examined: 220 specimens (57 ♂♂ and 163 ♀♀)

Habitat: This species was captured during the whole period on the island, but was much more common during the end of the period (Fig. 1a). 83% of the total number captured was from the second half of the period. It was equally common on wet and dry habitats but not so abundant below bird cliffs (Fig. 1b). All specimens from the latter habitat were collected on one locality with deep soil and rich vegetation of *Alopecurus alpinus* and *Ranunculus sulphureus*. The proportion of females increased during the end of the collecting period (Fig. 1c). In the beginning of July the sex ratio was equal but in late July 81% of the captured material consisted of females.

Remarks: The specimens were generally of slightly lighter hue than most specimens from southern parts of ^YNorth America, Greenland, Iceland, Jan Mayen, Spitsbergen, Nordaustlandet, ^YBjørnøya, low to high alpine regions of the Scandinavian peninsula, Finnish Lapland and Novaya Zemlja (Hennig 1959, Danks 1981, Rognes 1983, Pont pers. comm.).

^YScandinavia. The species is also known from low-arctic parts of

Fig. 1a . Number of specimens of Spilogona megastoma (Boheman) captured during 4 successive periods in July 1980 on Kongsøya.

Fig. 1b Distribution of captured specimens of Spilogona megastoma (Boheman) between 3 major types of habitat.

Fig. 1c Ratio males/females of captured specimens of Spilogona megastoma (Boheman) during 4 successive periods.



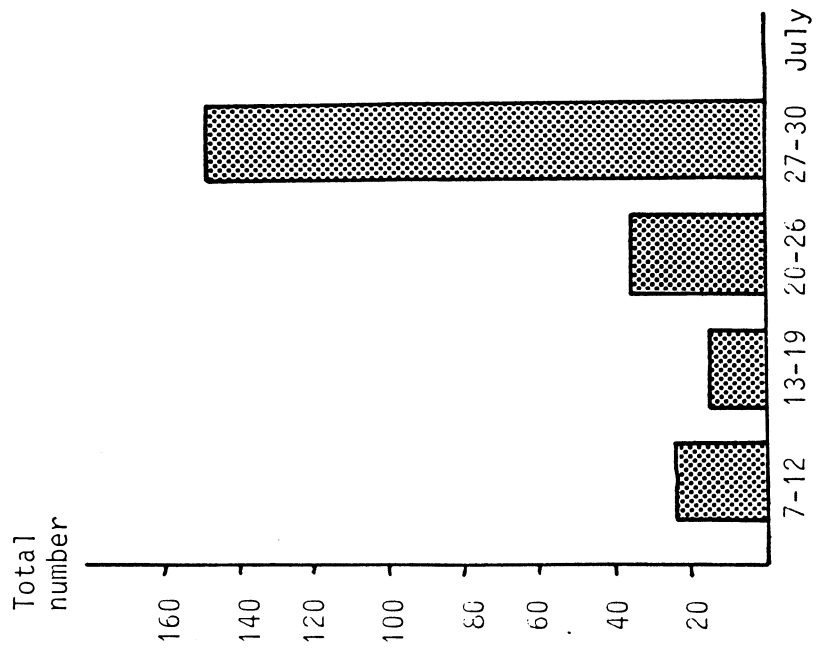
males



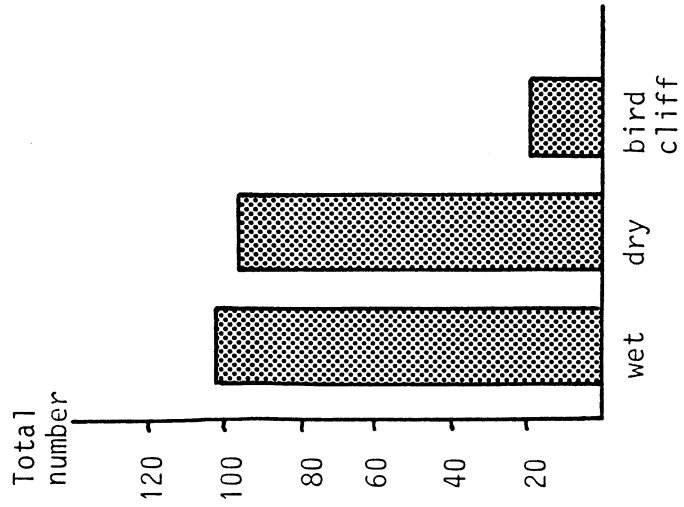
females

References:

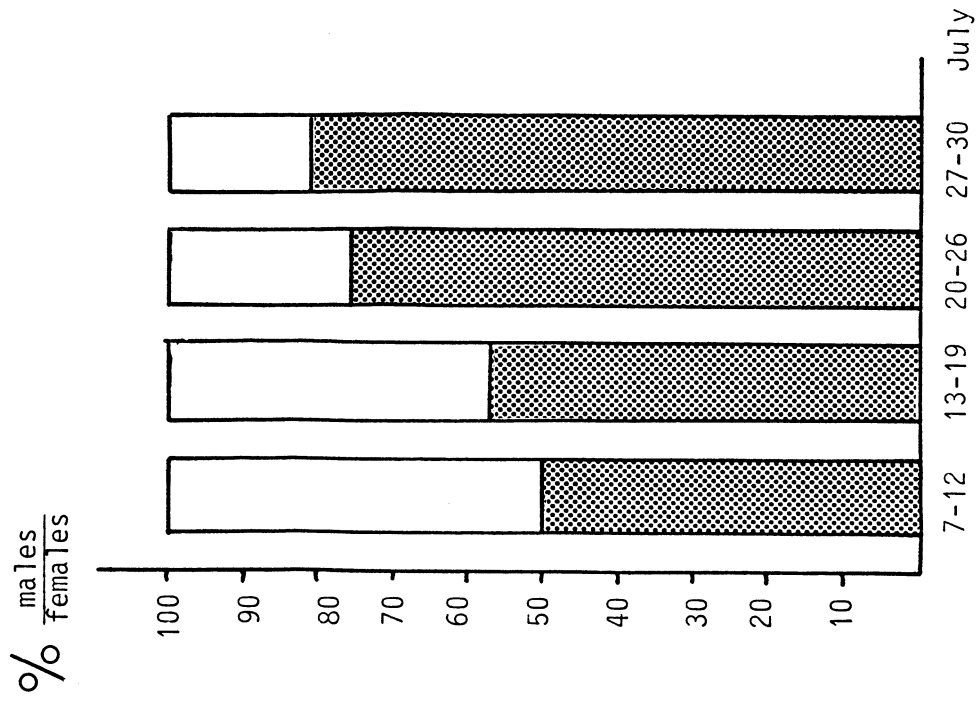
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