

*Oxford University Greenland Expedition, 1928.—Diptera
 Nematocera.* By F. W. EDWARDS, M.A., Sc.D., F.E.S.

THE great majority of the Nematocerous Diptera collected by Major R. W. G. Hingston were taken at Kugssuk, 30 feet, in the Godthaab Fjord, West Greenland; relatively few at Matuola, 2000 feet, in the same fjord. Where no locality is mentioned Kugssuk is to be understood.

The Nematocera of Greenland were reviewed by Lundbeck in 1898 (Vid. Medd. 1898, p. 236), since when no important work has been published apart from a few isolated records. The number of species noted by Lundbeck was as follows:—Scatopsidæ, 1; Simuliidæ, 2; Cecidomyiidæ, 1; Sciarinæ, 16; Mycetophilidæ (excluding Sciarinæ), 11; Tipulidæ (including 3 *Trichocera*), 11; Chironomidæ, 38; Ceratopogonidæ, 3; Culicidæ, 1.

Nearly all the larger species were recognized as having a wide distribution, especially in Arctic America, but many of the smaller forms were described as new and have not yet been recognized elsewhere; this is no doubt owing to the insufficiency of our knowledge of the subject, and does not indicate any appreciable degree of endemism among Greenland Nematocera. As in other northern countries the Chironomidæ are dominant.

The small collection brought back by the Oxford University Expedition included examples of only 19 species, and only one of these was definitely not recorded in Lundbeck's list. This species, *Helobia hybrida*, Mg., has an extremely wide distribution throughout the temperate regions of the Northern Hemisphere. The list of all 19 species, with nomenclature revised, is as follows:—

Mycetophilidæ.

Boletina grælandica, Staeg. 5 ♂, 1-19. vii.; 13 ♀, 24. vi.-25. vii. All in willow-scrub except 1 ♂ ? habitat.

Erechia frigida, Holmgr. (? *fungorum*, DeG., of Lundbeck). 1 ♂, 11. vii., willow-scrub.

Phronia sp. 2 ♀, 27. vi., willow-scrub.

Mycetophila fungorum, DeG. (*punctata*, Mg.). 1 ♂, 19. vii., willow-scrub; 1 ♂, 25. vi., ? habitat.

Sciara sp. 1 ♂, 10. vii., willow-scrub; 1 ♀, 1. vii., on heath; 1 ♀, 17. vii., ? habitat.

Other examples, probably of the same species, were bred from humus by C. G. Trapnell. One imago and a larva are in the collection.

Simuliidæ.

- Simulium vittatum*, Zett. 1 ♂, 28. vi., ? habitat; 1 ♂, 19. vii., willow-scrub; 8 ♀, 19, 20. vi., heath; 25 ♀, 20. vi., willow-scrub; 4 ♀, 19. vii., willow-scrub.
 Matuola, 2000 feet: 3 ♀, 6, 7. vii., heath.
- Simulium arcticum*, Mall. (? *reptans*, L., of Lundbeck). 1 ♀, 17. vii., ? habitat.
 Matuola: 1 ♀, 7. vii., heath.

Culicidæ.

- Aedes nigripes*, Zett. 5 ♀, 20. vi., heath; 9 ♀, 24. vi.-1. viii., willow-scrub (8), ? habitat (1).
 Matuola: 1 ♀, 6. vii., willow-scrub.

Chironomidæ.

- Pentaneura pulchripennis*, Lbk. (*Tanypus*). 1 ♂, 4. vii.; 1 ♂, 27. vii., willow-scrub; 1 ♀, 25. vii., ? habitat.
 Matuola: 5 ♀, 6. vii., heath.
- Anatopynia pictipennis*, Zett. (*Tanypus*). 2 ♂, 28. vi., willow-scrub.
- Procladius crassinervis*, Zett. (*Tanypus*). 1 ♀, 27. vi., ? habitat.
- Spaniotoma (Trichocladius) vitripennis*, Mg. (*variabilis*, Staeg.). 1 ♂, 27. vi.; 3 ♂, 3. vii., willow-scrub; 4 ♀, 3. vii., willow-scrub.
 Matuola: 3 ♀, 6. vii., heath.
- Spaniotoma (Psectrocladius) ? limbatellus*, Holmgr. 32 ♂, 7 ♀, 1-27. vii., willow-scrub except 3 ♂ ? habitat.
- Spaniotoma (Orthocladius) sp.* 1 ♂, 4. vii., willow-scrub.
- Chironomus ? hyperboreus*, Staeg. 4 ♂, 1-25. vii., on willow-stems; 4 ♀, 24. vi., willow-scrub; 10 ♀, 30. vi.-30. vii., willow-stems.
- Chironomus cf. riparius*, Mg. 6 ♂, 8 ♀, 28. vi.-12. vii., willow-scrub; 1 ♀, 19. vii., on willow-stem.
 Matuola: 1 ♂, 7. vii., willow-scrub.

Trichoceridæ.

- Trichocera sp.* Matuola: 1 ♀, 7. vii., willow-scrub.

Tipulidæ.

- Helobia hybrida*, Mg. 1 ♀, 24. vi., heath.
 Matuola: 2 ♀, 6. vii., heath.
- Tipula arctica*, Curt. 4 ♂, 19. vi.-12. vii., heath; 9 ♀, 20. vi.-19. vii., heath.
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 Matuola: 1 ♀, 7. vii., heath.