

ARCTIC SIRICOIDEA AND TENTHREDINOIDEA.

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The knowledge of our Arctic insect fauna is of so fragmentary a character that any contribution thereto is of special interest and value to Canadian entomologists. I am indebted to Dr. Hans Kiaer, of the Museum of Tromsø, Norway, for a copy of an exceedingly valuable catalogue entitled "Die Arktischen Tenthrediniden,"* an examination of which emphasizes this fact. His introduction points out that in Canada little is known of the forms occurring north of St. Martin's Falls, Lat. 51° , whereas in Norway species are recorded from as far north as Lat. 70° . Of 228 species enumerated (including 12 of Siricoidea) Arctic Scandinavia furnishes 132, Nova Zemlya 18, Spitzbergen 6, Iceland 3, Greenland 2, Hudson's Bay region 59, Alaska 8, and Arctic Siberia 11. There is but one species common to Europe and America, and only 11 species in all occur in any two of the above regions, showing that the circumpolar fauna is not so cosmopolitan as is frequently supposed, although undoubtedly some forms now listed as distinct species may prove to be synonyms. *Rhogastera viridis*, Linn., is the sole link between the old and new worlds. *Sirex bizonatus*, Steph., and *S. caudatus*, Cress., are found in Hudson's Bay territory and in Alaska; *Cimbex femorata*, Zett., *Trichosoma lucorum*, Linn., and *Nematus miliaris*, Panz., in Arctic Scandinavia and Siberia; *N. arcticus*, Holmgr., and *N. frigidus*, Boh., in Nova Zemlya and Spitzbergen; *N. conductus*, Ruthe, and *Emphytus pallidipes*, Spin., in Arctic Norway and Iceland, and *N. obscuripes*, Holmgr., in Arctic Norway and Nova Zemlya. The percentage of Nematids to other forms is very large in the boreal and arctic faunas, and, apparently, increasingly so northward concurrently with changes in the flora. From the Hudson's Bay region this group is as yet not nearly

*FAUNA ARCTICA. Eine Zusammenstellung der arktischen Tierformen, mit besonderer Berücksichtigung des Spitzbergen-Gebietes auf Grund der Ergebnisse der Deutschen Expedition in das Nordliche Eismeer im Jahre, 1898. Band II., Lieferung 3, 1902.