which he has endeavoured to show that the sound is caused by the rushing out of the air from a small cavity within the head near the base of the short tongue, through a small orifice furnished with strong muscles.

Several instances of insect monstrosities have been described during the past year, varying in the extent of their malformation. These have occurred in Acronycta leporina (Bond, in Trans. Ent. Soc. 1872, p. x), in Spilosoma sordida (by Guenée, noticed in ditto, p. xxvi.), in the veins of the wings of various Lepidoptera (by the Rev. R. P. Murray, in ditto, p. xxxiii.), and in the antennæ of Hydroporus (by Lawson, in the Entom. M. Mag. viii. p. 289). A curious observation on the development of dark varieties of Tephrosia crepuscularia has been recorded by Mr. J. T. Llewelyn, in the Entom. Monthly Mag. (vol. viii. p. 272).

A remarkable memoir, with the title 'Ueber Polygamie und anderweitige Geschlechtsverhaltnisse bei Orthopteren,' appears in the Zool. & Bot. Ver., Vienna, 1871. The observations are made upon Gryllus campestris, between a pair of which he observed eight acts of copulation, extending from the 10th May to the 11th June, and Pezotettix pedestris, in which he observed one male in successive copulation with four females.

Several instances have lately been brought to our notice in which two male insects were simultaneously found in copulâ with a single female (Dale, in Ent. M. Mag. ix. 46, and Müller, in ditto, ix. 120).

GEOGRAPHICAL DISTRIBUTION OF INSECTS.

The geographical distribution of insects is a subject of very wide extent, and has attracted our attention at several of our meetings during the past year. On this head I may refer concisely to Mr. Bates's remarks on the Carabidæ of Northern Asia (Trans. Ent. Soc. p. viii.), to those of Mr. Smith on the Hymenoptera of Japan (ib., p. xx.), and to those of Mr. Wollaston on the local distribution of species of Coleoptera (in the Ent. M. M., July, 1872, p. 32). I may also here refer to the account of a remarkable flight of Cynthia Cardui given in the last-named work (vol. ix. p. 149). The singular appearance of great numbers of specimens of Vanessa Antiopa during the last season has been alluded to in all our publications, and has caused considerable discussion; whilst, on the other hand, two remarkable instances of the sudden