Notes on the Biology of the Lochs of the Shin Basin.

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Collections of plankton were made in eight lochs of the basin. The lochs are mainly characterised by the presence of two northern species of *Diaptomus* (D. laciniatus and D. laticeps), besides the common D. gracilis, and by the very numerous Desmids, many of which are of the western type.

Each of the three species of Diaptomus was found in five lochs—D. gracilis in Lochs Shin, a' Ghriama, Ailsh, Gorm Loch Mòr, and Fiodhaig; D. laciniatus in Lochs Shin, a' Ghriama, Merkland, Ailsh, and an Daimh; D. laticeps (or a related species) in Lochs a' Ghriama, Ailsh, an Daimh, Gorm Loch Mòr, and Fiodhaig. All three species occurred together only in two lochs (a' Ghriama and Ailsh), while in all the other lochs, except Merkland and an Lagain, there were two species; in Loch Merkland D. laciniatus was the only species seen. D. laticeps was identified in Lochs a' Ghriama and Ailsh; in Lochs an Daimh, Gorm Loch Mòr, and Fiodhaig, a species of the same group occurred, but as only females or immature males were seen, it is not certain whether they were D. laticeps or the very closely related D. Wierzejskii.

Among other Crustacea there is little to note—Holopedium was only seen in Lochs Shin and a' Ghriama; Leptodora in Lochs Shin, a' Ghriama, and an Daimh; Sida in Loch a' Ghriama only; Diaphanosoma in nearly all of the lochs. Nearly all the Daphnia of Loch Fiodhaig were males.

Ilyocryptus acutifrons, G. O. Sars, was found in Loch Shin in August, 1903, being previously unrecorded for Great Britain. It was obtained in a shallow bay at the mouth of the Fiodhaig river.

The Desmids of Loch Shin have been fully studied by Messrs. W. and G. S. West.* On the occasion of our visit the very great abundance, of individuals as well as species, was remarkable, exceeding anything that we had observed in other lochs. In Lochs a' Ghriama and Merkland the species were also very numerous, and on the whole the same as in Loch Shin. In Lochs Ailsh, an Daimh, and an Lagain, few Desmids were seen, but all had some of the western species In Gorm Loch Mòr and Loch Fiodhaig no Desmids were noted.

Pelagic Rotifera were abundant only in Lochs Shin, a' Ghriama, and Ailsh; in Loch Shin the plankton collections also included many littoral species, which must have been driven out by the stormy weather. Floscularia pelagica, Rousselet, was in Loch a' Ghriama only. Skeletons of the Heliozoan, Clathrulina elegans, were abundant in Lochs Shin and a' Ghriama

^{*} See Journ. Linn. Soc., Bot., vol. 35, p. 519, 1903.