

(as Mik has also done), that there are a number of species of *Fucellia* in which the posterior femora are simple in both sexes, and which yet belong to *Fucellia* beyond a doubt.

The specimens before me show the following distribution:—Great Caribou Isl., Labrador, July 14th (G. M. Allen); Caribou Isl., Lab., (Packard); Funk Isl., Newfoundland, July (Owen Bryant); Eastport, Me., July 15 (Johnson); Dover, N. H., April 11 (Bridwell); Hampton, H. N. (Shaw); Beverly, Mass., April 24 (A. P. Morse); Framingham, Mass., June 6 (Frost); Cohasset, Sept. 8 (Bryant); Fall River, Mass., April 20 (N. S. Easton); Kingston, R. I., March 27 (Barlow); New Haven, Conn., Nov. 9 (Viereck); Clemonon, N. J., April 15, and Philadelphia, Pa., March 12 (Johnson); Bermuda, March 6 (F. M. Jones); St. Augustine and De Funiak Springs, Fla., March 1st (Johnson); Charlotte Harbor, Fla. (Mrs. Slosson).

From the Pacific Coast Prof. Stein has described five new species:—*Fucellia bicrucata*, Behring Strait; *F. costalis*, Monterey, Cal.; *F. antennata*, Alaska; *F. separata*, Monterey, Cal. and Seattle, Wash., and *F. rufitibia*, Pacific Grove, Cal.

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THE MATING HABITS OF EMPIDIDAE. Hamm, A. H. Observations on *Empis livida* L. Ent. Month. Mag. XIX, pp. 181–184; Observations on *Empis opaca* F., Ibid., XX, pp. 132–134; Further Observations on the Empinae, Ibid., XX, pp. 157–162.

It appears to be the regular occurrence among many species of *Empis*, and also in at least some species belonging to *Pachymeria* and *Rhamphomyia*, for the males to capture small Diptera and other insects which they paralyze with their beaks, and then offer to the females to feed upon during copulation. The male does not appear to partake of this food itself and simply offers it to the female which devours it while pairing. Several other species of *Empis* were found to copulate without prey, and females of these were found feeding at other times, although those which copulate with prey were not found to feed at other times.

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