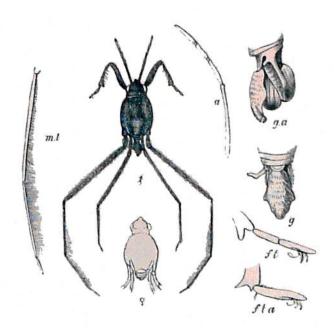
Halobatodes) the only insects with an organisation adapted to a truly pelagic mode of life. The head, in addition to the antennæ (fig. 179, a), bears three tubercles on either side, surmounted by a single hair, but of unknown function. The mandibles are pointed and serrated, and serve to puncture the creatures upon which they feed, whilst they suck out the juices through a kind of tubular proboscis formed by the united maxillæ. The thorax forms by far the largest part of the body; the first segment is transverse and collar-like, the second and third elongated and fused, and produced behind and below into the acetabula with which the hinder legs are articulated (fig. 179, \mathfrak{F} , \mathfrak{P}). The abdomen is larger in the male than in the female; it consists of six ring-like segments followed by three others specially modified (fig. 179, \mathfrak{g} , \mathfrak{g} , \mathfrak{g}). The abdomen of the female consists of



F10. 179. —Halobates willerstorff, Frauenfeld.

8, Male, upper side; 9, outline of the body of the female; a, antenna; ft, front tarsus; fta, front tarsus of the larva; m.t, middle tibia and tarsus; g, genital segments of the male, from above; g.a, the same in profile.

the same number of segments and carries an ovipositor made up of four valves; in both sexes the ventral surface of the first segment bears a curious tubercle whose extremity is pierced by a transverse perforation. The fore-legs are short, and for the greater part of their length lie well in advance of the body, without being raptorial they are fitted for grasping; and the second joint of the tarsus is furnished with two curved sharp-pointed claws, as well as a thin ribbon-like process (fig. 179, ft). The two hinder legs are long, and by their means the little creatures scud over the surface of the water.

The tarsus of the middle legs (fig. 179, m.t) has a fringe of long hairs, which probably serves to aid the animal in swimming or to prevent its being so readily driven by the wind.