

KEY TO NORTH PACIFIC SPECIES OF Hippomedon

Note most California species with epimeron 3 notched have been called H. denticulatus, however, this name is not valid for the specimens along our coast which do not fit this Atlantic species described by Bate.

1. Epimeral sideplate 3 with basal notch (Figure 1)..... 2
 Epimeral sideplate 3 without basal notch 6
2. Gnathopod 2, palm long, concave, dactyl much shorter than palm (Figure 2)H. columbianus
 Gnathopod 2, palm short, dactyl equal to palm 3
3. Antenna 1, peduncular segment 1 strongly produced anterodistally into an acute process reaching beyond segment 2, telson not heavily armed and without setules (Figure 3)....H. denticulatus
 Antenna 1, peduncular segment 1 not strongly produced into an acute process, telson not as Figure 3..... 4
4. Uropod 3, rami broad, margins parallel, tapering only at the tips, segment 2 outer ramus short (Figure 4)H. orientalis
 Uropod 3, rami tapering distally, segment 2 outer ramus rather elongate 5
5. Gnathopod 1 almost transverse (Figure 5)H. coecus
 Gnathopod 1 oblique.....H. sp. A
6. Urosomal segment 1 with prominent keel, crystalline eye lens presentH. holbolli
 Urosomal segment 1 without prominent keel or crystalline eye lens 7
7. Gnathopod 2, dactyl distinctly shorter than palm (Figure 2). 8
 Gnathopod 2, dactyl equal to palm 11
8. Peraeopod 7, posterior margin of segment 2 strongly tapered distally (Figure 6).....H. pacificus
 Peraeopod 7, posterior margin of segment 2 weakly tapered .. 9
9. Gnathopod 1, segment 6 (propodus) broadened distally, peraeopods 5, 6, and 7, posterior marginal serrations of basis without setaeH. eous
 Gnathopod 1, segment 6 not broadened distally, peraeopods 5, 6, and 7 posterior marginal serrations with inserted seta 10
10. Gnathopod 2, segment 5 twice as long as segment 6, telson elongate, twice as long as broad (Figure 7)H. granulatus
 Gnathopod 2, segment 5 less than twice as long as segment 6, telson of medium length, less than twice the width....H. tenax
11. Uropod 3, rami broad, margins parallel, tapered only at tip (Figure 8)H. punctatus
 Uropod 3, rami slender and tapered distally 12

12. Peraeopods 5, 6, and 7, serrated posterior margins of segment 2 without inserted setae, observe under compound microscope H. propinquus
 Peraeopods 5, 6, and 7, serrated posterior margins of segment 2 with inserted setae 13
13. Uropod 2, peduncle with one apical spine and rami naked or with at most one spine, no strong spines on peraeopod 4, H. zetesimus
 Uropod 2, peduncle and rami spinose 14
14. Peraeopod 4, segment 5, posterior margin with 3 strong spines (Figure 9) H. subrobustus
 Peraeopod 4, segment 5, without 3 strong spines...juv. H. sp. A