

36(34). Wall partitions absent from base of branches .....	<i>Cladophoropsis</i> , p. 330
36(34). Wall partitions present at base of branches .....	37
37(36). Filaments from (0.3–)0.5–1.0 mm diam.; branching solely unilateral, on outside of curve .....	<i>Valoniopsis</i> , p. 314
37(36). Filaments seldom greater than 0.5 mm diam.; branching varied, occasionally unilateral near apices .....	<i>Cladophora</i> , p. 320
38(6). Stipe present .....	39
38(6). Stipe absent .....	40
39(38). Branching whorled at apex of parent branch .....	<i>Ernadesmis</i> , p. 338
39(38). Branching lateral to parent branch .....	<i>Siphonocladus</i> , p. 334
40(38). Thallus generally as solitary, large, spherical cell .....	41
40(38). Thallus as clusters of large macroscopic cells .....	42
41(40). Cells translucent green, reflective; growing on any solid substrate; attached by small distinct rhizoidal cells .....	<i>Ventricaria</i> , p. 336
41(40). Cells glossy green, not reflective; growing on crustose coralline algae; attached by fine coenocytic (without cell walls) rhizoids .....	<i>Halicystis</i> stage of <i>Derbesia</i> , p. 348
42(40). Cells round or oval, large, greater than 3 mm diam. or, if less, greatly elongated, 5–20 mm long .....	<i>Valonia</i> , p. 338
42(40). Cells angular or polygonal, small, less than 3 mm diam. .....	<i>Dictyosphaeria</i> , p. 332
43(8). Surface or shallow subsurface stolons obvious; siphons with microscopic transverse supports or trabeculae [highly variable genus with many forms] .....	<i>Caulerpa</i> (in part), p. 356
43(8). Surface stolons lacking or obscure; siphons without trabeculae .....	44
44(43). Thallus of tough, spongy branches or as prostrate, tough, spongy mats; composed of complex siphons with cortex of tightly packed utricles (swollen siphon apices) .....	<i>Codium</i> , p. 350
44(43). Thallus with distinct stipe topped by paddle-shaped or parasol-shaped blade or as prostrate spongy mat, without cortex of utricles .....	45
45(44). Surface siphons colorless, thin, contorted, tightly interwoven, forming discrete cortex; abrupt distinction between cortex and medullary siphons .....	<i>Cladocephalus</i> , p. 396
45(44). Surface siphons absent or loosely interwoven; no abrupt distinction between cortex and medullary siphons .....	46
46(45). Lateral branchlets terminating in specialized hapteroid (finger-like) apices .....	<i>Rhipilia</i> , p. 412
46(45). Lateral branchlets without specialized hapteroid apices .....	47
47(46). Thalli generally greater than 6 cm high; blades greater than 100 µm thick..	<i>Avrainvillea</i> , p. 380
47(46). Thalli generally less than 6 cm high; blades less than 100 µm thick .....	<i>Rhipiliopsis</i> , p. 414

By its cryptic coloration and surface texture, the herbivorous crab *Thersandrus compressus* takes refuge on its host plant *Avrainvillea longicaulis* (see Hay et al. 1990, Littler & Littler 1999a). Many marine invertebrates are camouflaged to match the algae on which they occur.

