

it had been lifted and turned outwards, so as to expose its under surface. The soft tissues are removed, though, in some cases, the muscles between the arm bones have been left. Besides this there usually are given views of the outer and inner faces of an arm bone, from near the disk; and sometimes a view in profile, or from above, or below.

The same notation is everywhere used as follows:—

<p><i>a</i>, Mouth shield. <i>c</i>, Jaw. <i>d</i>, Mouth papillae; <i>d'</i>, tooth papillae; <i>d''</i>, teeth. <i>e</i>, Jaw plate. <i>f</i>, Mouth frame, <i>f'</i>, <i>f''</i>, upper and lower hinges joining a mouth frame to its neighbour. <i>g</i>, Central primary plate; <i>g'</i> brachial primary plate. <i>h</i>, Under arm plate. <i>i</i>, Side arm plate. <i>j</i>, Upper arm plate. <i>l</i>, Radial shield. <i>n</i>, Genital scale. <i>o</i>, Genital plate. <i>p</i>, Arm spines.</p>	<p><i>r</i>, tentacle socket; <i>r'</i>, <i>r''</i>, sockets of first and second mouth tentacles. <i>s</i>, Marginal scales or disk plates. <i>t</i>, Lower arm canal; <i>t'</i> upper arm canal. <i>u</i>, Circular nerve ring canal. <i>v</i>, Peristomial plate; <i>v'</i>, angle piece (first underarm plate?). <i>w</i>, Lower muscle field of arm bone; <i>w''</i>, upper muscle field; <i>w'</i>, the arm bone as a whole. <i>δ</i>, Ovarial bursa. 1, Articulating umbo on the inner face of an arm bone. 2, Articulating knobs on the inner face of an arm bone. 3, Hole to receive the articulating peg of the outer face. 4, Shoulder on the outer face to receive the umbo. 5, Holes in the outer face to receive the knobs. 6, Articulating peg.</p>
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For a more detailed treatment of the plates, see the descriptions of the genera referred to.

- Fig. 1. *Ophiura elaps* (?), Ltk., ♂. Expedition of United States steamer "Blake."
 " 2. " " ♂. Outer face of an arm bone.
 " 3. " " ♂. Inner face of an arm bone.
 " 4. *Ophiopæpale goesiana*, Ljn., ♀. The peculiar elongated arm bones (*w'*).
 " 5. " " ♀. Outer face of an arm bone. Its unusual height and complex outlines will be noticed.
 " 6. " " ♀. Inner face of an arm bone.
 " 7. *Ophiolepis cincta*, Müll & Tr., ♂.
 " 8. " " ♀. Outer face of an arm bone.
 " 9. " " ♀. Inner face of an arm bone.
 " 10. *Ophioplocus imbricatus*, Lym., ♂.
 " 11. " " ♀. Outer face of an arm bone.
 " 12. " " ♀. Inner face of an arm bone.
 " 13. *Ophiozona impressa*, Lym., ♂. Outer face of an arm bone.
 " 14. " " ♀.
 " 15. " " ♀. Inner face of an arm bone. The umbo is very large and the bone wide.