

EXPLANATION OF THE PLATES.

[Diam. stands for diameters, and the figures for the number of diameters any object is magnified; i. e., 500 diam. after fig. 1, Pl. 8, means that all the objects represented in that figure are magnified 500 times their natural diameter, etc.]

PLATE I-VIIa.

[All the figures of these Plates were drawn from nature, by A. Sorel.]

These Plates require no special explanation. Pl. 1 to 6 represent young Turtles in their natural size at the time of hatching, or soon afterwards. Most of them are represented from three sides, in profile, from above and from below; and frequently a front view of the head, and occasionally of the whole animal, is added. The attitudes are all natural, and in most cases copied from the living animal. Pl. 6, fig. 10-12 represent an embryo of *Ozotheca odorata* from the middle period of incubation; fig. 17, a transverse section of the body of a young *Thalassochelys Caouana*; *e*, is the spinal marrow; *ld*, the neural arch; *l'*, the lungs; *t*, the windpipe; *mp*, the pectoral muscle; *r*, the liver; *h'*, the aorta; *n'*, the œsophagus; *ms*, the shoulder muscles; *rc*, the body of the vertebra; fig. 18-32, a series of embryos of *Thalassochelys Caouana*; fig. 30-32, a week old; fig. 28, and 29, two weeks old; fig. 26, and 27, three weeks old; fig. 24, and 25, four weeks old; fig. 22, and 23, five weeks old; fig. 20, and 21, six weeks old; fig. 18, and 19, seven weeks old. Pl. 7, and 7a, represent the mature eggs of many species, with fragments of the shell magnified.

PLATE VIII.

[All the figures of this Plate were drawn from nature, by H. J. Clark.]

Fig. 1, *a, b, c, c', d, e, f, g, h, i, j, k, l, m, n, o, p*. Ovarian eggs of *Chrysemys picta*. All except *c*, 500 diam., and *c*, 1100 diameters.

Fig. 1, *h', o'*. Two Graafian follicles of *Ch. picta*, containing each an egg, 500 diam.

Fig. 2, 3, 3a, 4, 6, 6a, 7, 8, 8a, 9a, 10. Ovarian eggs of *Ch. picta*; fig. 8, 25 diam.; the others, 500 diam.

Fig. 5. Graafian follicle inclosing an egg of *Ch. picta*; 500 diam.

Fig. 9. Same as fig. 5. *Ch. picta*, and *Nanemys guttata*; 500 diam.

Fig. 11. Ovarian egg of *Ch. picta*, 25 diam.; fig. 11b, the same as fig. 11, natural size; fig. 11a, the same, 500 diam.; *a*, its yolk granules, 1100 diam.

Fig. 12. Graafian follicle inclosing an egg of *Ch. picta*, 300 diam.; *a*, stroma; *b*, tunica granulosa; *c*, zona pellucida; *d*, embryonal membrane; *e, f*, the yolk.

Fig. 13, and 13a. Ovarian eggs of *Ch. picta*, and *Nanemys guttata*; fig. 13, 25 diam.; fig. 13a, 500 diam.

Fig. 14. Graafian follicle and egg, 25 diam.; fig. 14a, Purkinjean vesicle of the same, 500 diam.

Fig. 15. Ovarian egg of *Ch. picta*, 500 diam. Fig. 15a, *a, b, c, d, e, f, f'*, mesoblasts of the Purkinjean vesicle; *a* to *f*, 1100 diam.; *f'*, the same as *f* on an exaggerated scale.

Fig. 16. Ovarian egg, 25 diam.; fig. 16a, the same, 40 diam.; fig. 16b, albuminous globule of fig. 16a, 500 diam. *Ch. picta*.

Fig. 17, 17a. Ovarian eggs, 25 diam.; fig. 17b, yolk granules of fig. 17, 500 diam.; fig. 17c, same as fig. 17, natural size. *Ch. picta*, and *Nanemys guttata*.

Fig. 18. Ovarian egg, nat. size; fig. 18a, the same, 25 diam.; fig. 18b, yolk of the same, 500 diam. *Ch. picta*.

Fig. 19. Ovarian egg, 25 diam.; fig. 19a, the yolk, 500 diam.; fig. 19b, the egg, natural size. *Ch. picta*.