THE NATURALIST'S GUIDE IN COLLECTING AND PRESERVING OBJECTS OF NATURAL HISTORY, PP. 1-115

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The Naturalist's Guide in Collecting and Preserving Objects of Natural History, pp. 1-115 by C. J. Maynard

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C. J. MAYNARD

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NATURALIST'S GUIDE

IN

COLLECTING AND PRESERVING OBJECTS OF NATURAL HISTORY.

C. J. MAYNARD.

Illustrateb.

SECOND REVISED EDITION.

BOSTON

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INTRODUCTION.

The great need of a good illustrated work to guide young naturalists in collecting and preserving objects of natural history has induced me to prepare the present Manual. In this attempt I hope I have been in some degree successful. I have spared no pains to bring together, in a comprehensive form, the results of many years of experience in collecting and preserving objects of natural history, both for private cabinets and for scientific museums.

No popular work of this kind has before been published in America. Throughout the present work I have endeavored to encourage the young to engage in the ennobling study of Natural History, and to join the band of young naturalists so rapidly increasing in our land.

I trust the reader will not by any means keep the teachings of this book secret, as some taxidermists are wont to counsel, but spread it broadcast among those who would profit by the information I have herein attempted to convey. It is intended for the NATURALIST, whoever and wherever he may be; and as it comes from a colaborer in the common field, it will, perhaps, be well received.

All of Part First is original. In preparing objects of natural history I have in a great degree invented methods of my own, and have not given in this work a single one that I have not tested and proved equal to all others, if not superior. To avoid confusion, I have given only the method which experience has taught me to be the best.

In this connection my thanks are due to Mr. E. L. Weeks, whose excellent illustrations will be found to add greatly to the value of the work.

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LIST AND EXPLANATION OF PLATES.

PLATE I. INSTRUMENTS used in preparing birds, etc., and for blowing aggs. Fig. 1, Common Pliers; Fig. 2, Cutting Pliers; Fig. 3, Tweezers; Fig. 4, Scalpel; Figs. 5 and 6, Egg-drills; Fig. 7, Blow-pipe; Fig. 8, Hook for removing embryos from eggs.

PLATE II. - WINGS, showing the positions of the different feathers, as follows: -

Fig. 1. Wing of a Red tailed Hawk (Buteo borealis, Vieill.) .a indicates the primaries, or quills; b, secondaries; c, tertiaries; d, scapularies; g, greater wing-coverts; f, lesser wing-coverts; e, sporious wing, or quills.

Fig. 2. Wing of a Coot, or Mud Hen (Fulica Americana, Gmelin). a indicates the primaries, or quills; b, secondaries; c, tertiaries; d, scapularies; e, spurious wing, or quills.

The tertiaries and scapularies are elongated in most of the aquatic birds, and in some of the Waders. They are always prominent, if not elongated, on long-winged birds, such as the Eagles, Hawks, Owls, Vultures, etc.; while they are only rudimentary on short-winged birds, such as the Thrushes, Warblers, Sparrows, etc.

PLATE III. HEAD OF THE BALD EAGLE (Halicetus leucocephalus, Savigny), showing the different parts, as follows: - a, the throat; b, chin; c, commissure, or the folding edges of the mandibles; d, under mandible; s, gonys; p, gape; g, upper mandible; h, culmen; i, tip; j, base of bill; k, cere (naked skin at the base of the upper mandible, prominent in the rapacious birds); l, frontal feathers; m, lores; n, crown; o, occiput.