# THE NATURALIST'S GUIDE IN COLLECTING AND PRESERVING OBJECTS OF NATURAL HISTORY: WITH A COMPLETE CATALOGUE OF THE BIRDS OF MASSACHUSETTS

Published @ 2017 Trieste Publishing Pty Ltd

#### ISBN 9780649170753

The naturalist's guide in collecting and preserving objects of natural history: with a complete catalogue of the birds of Massachusetts by C. J. Maynard

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd. Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

# C. J. MAYNARD

# THE NATURALIST'S GUIDE IN COLLECTING AND PRESERVING OBJECTS OF NATURAL HISTORY: WITH A COMPLETE CATALOGUE OF THE BIRDS OF MASSACHUSETTS



QL 5 M77

THE

# NATURALIST'S GUIDE

IN COLLECTING AND PRESERVING

### OBJECTS OF NATURAL HISTORY.

WITE

A COMPLETE CATALOGUE OF THE BIRDS OF EASTERN MASSACHUSETTS.

By C. J. MAYNARD.

WITH JULUSTRATIONS BY E. L. WEEKS.

REVISED EDITION.

NEWTONVILLE, MASS:

C. J MAYNARD & CO.

1881.





#### 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.

In Part Second I have thought proper to add a catalogue of the birds of Eastern Massachusetts, with notes, as tending to enable the collector to obtain the rarer species more readily, by specifying the localities and peculiar haunts in which they have been found by others. The critical notes may, perhaps, be perused with interest by the more experienced ornithologist.

### CONTENTS.

## PART I.

#### CHAPTER I.

Œ
3
10
18
18
22
27
31
81
33
84
84
40
41
22
43
45
46
47
47
50
65
57
68

			٠	۰
•	۰	۰	٠	ŕ
٦	ν		1	ı

# CONTEXTS.

MOTHS AND BUTTERFLIES, OR LEPIDOPTERA	58
DRAGON-PLIES, RTC., OR NEUROPTERA	60
BEES, WASPS, ETC., OR HYMENOPTERA	61
Files, Mosquitoes, etc., or Diftera	61
CHAPTER IV.	
COLLECTING AND PRESERVING FISHES AND REPTILES.	
Sacr.	
1 Fisures	68
II. Repriles	64
CHAPTER V.	
MISCELLANEOUS COLLECTIONS.	
SECT.	
L CRESTACRA	69
Collecting Mollesks	89
Preserving Shells	70
Worms, Animal Parasites, Jelly-Fishes	71
CORAIS, SEA-ANEMONES, HYDROIDS AND BUYOZOA, STAR-	
Fishes, Sea-Urchins, Holophurias, or Sea-Cucumbers,	
Sponges and Sea-weeds ,	72
II. Pheraging Skeletons	73
Mounting Skeletons	73
CHAPTER VI.	
COLLECTING AND PRESERVING EGGS	76
METHOD OF PERPARENG A BOOK FOR RECORDING THE MEASURE-	
MENTS OF EGGS	78
3 <del></del>	
PART II.	
CATALOGUE OF THE BIRDS OF EASTERN MASSACHUSETTS	81
INTRODUCTION	88
	161
CANADA TANDA TO THE COURSE OF	169
	233

(6)

#### LIST AND EXPLANATION OF PLATES.

FRONTISPIECE. Centronyx Bairdi, Baird. - Baird's Sparrow, taken at Ipswich, Mass.

PLATE L\* INSTRUMENTS used in preparing birds, etc., and for blowing eggs. Fig. 1, Common Pliers; Fig. 2, Cotting 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 toiled Hawk (Bides borealls, Vicill.). — a indicates the primaries, or quills; b, secondaries; c, tertiaries; d, scapularies; g, greater wing-coverts; f, lesser wing-coverts; e, spurious 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; c, spurious wing, or quills.

The tertiaries and scapnlaries 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, Owis, Vultures, etc.; while they are only redimentary on short-winged birds, such as the Thrushes, Warblers, Sparrows, etc.

PLATE III. HEAD OF THE BALD FACLE (Halierus lescocephalus, 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); I, frontal feathers; m, lores; n, crown; o, occiput.

Plates I., IV., V., VI., VIII., IX., X., and the frontispiece will be more fully explained hereafter.