FOURTH
SUPPLEMENT
1933 to 1938 (inclusive)

to
THE LENG CATALOGUE
of
COLEOPTERA
of
AMERICA, NORTH OF MEXICO

By
RICHARD E. BLACKWELDER
Assistant Curator
in charge of
Coleoptera
AMERICAN MUSEUM OF NATURAL HISTORY

Mount Vernon, N. Y.
JOHN D. SHERMAN, JR.
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Printed in the United States of America
by
THE FREYBOURG PRINTING CO.
Mount Vernon, N. Y.
INTRODUCTION

This fourth supplement to Mr. Leng's catalog of North American Coleoptera is offered by the compiler and by the publisher with the hope that it may help to alleviate a condition which has led to a widespread desire for a complete new catalog. Since there appears to be little chance of financing such a new catalog in the near future, it has been thought worth while to prepare another supplement which would fill some of the more obvious needs.

It is probable that a great many entomologists have no conception of the amount of work involved in the preparation of a bibliographic catalog for publication. The writer, when he undertook the present task, anticipated at most a two or three month job. Work was started about the first of March and has occupied most of the compiler's time continuously till the middle of October. It is doubtful if the work could have been undertaken if it had been known that it would involve such an outlay in time and study.

Although this supplement includes many changes in make-up from that followed in the previous supplements (as will be explained below), it has been the endeavor of the compiler to make it as useful as possible in connection with the original catalog and the other supplements. Although Mr. Leng has not had an active part in this work, all proposed changes in procedure have been examined by him and I believe, have his complete approval.

In my opinion it is due principally to the excellence of the original catalog that it is possible to issue supplements which can give any satisfaction. Few coleopterists have contributed so largely to the work of all their colleagues as Mr. Leng, and few large works have been so completely constructive in their nature or so universally indispensable as the "Leng Catalog".

It would seem to be axiomatic that the fourth of a series of supplements should conform in procedure and treatment with the previous parts. In spite of this a glance at the present work will suffice to show that it departs widely from the other supplements. The reasons for these changes are outlined below.

The primary cause of changes in make-up of the supplement was the desire to save space. The complete division of the page into
two columns and the omission of numbers have together increased the space available by twenty to thirty percent. The first of these changes will scarcely be noticed by users of the catalog. The second may meet with disapproval of some, but in its defense may be mentioned the substantial amount of space saved which has been used for the inclusion of revisionary studies.

The second important departure from the previous supplements is in the matter of authorities for new synonyms, records, and other changes. It has been felt that a summary of the compiler's opinions on the status of species and classifications (such as the original catalog properly included to some extent) was of less interest in the supplement than an accurate reporting of what has been published during the last six years and who published it. Accordingly nearly every new proposal is accompanied by a citation to the author of that proposal.

It has been the aim of the compiler to include all new species described up to January, 1939, all synonymy proposed up to the time the manuscript was completed (about September 1, 1939), all new records for North America with synonyms, all contributions to the classification of beetles, and all revisionary studies, whether of families, genera, or groups of species.

Bibliographic references are made as in the catalog by giving the author, date, and page. An indication of distribution is given. Italics have been used always for synonyms, and generic synonymy are in addition placed in parenthesis. Names which were proposed for categories less than species are preceded by a letter denoting the category assigned to them by the writer quoted. These are arranged in indented form to emphasize their status lower than species.

For the first time subgenera are definitely indicated as such. These names are strongly indented and are printed in Roman capitals. Space considerations prevented the insertion of the word subgenus or an abbreviation in these cases, but once the system of type faces is understood, there should be no difficulty. Bold-face is used always for genera, italics for synonyms, and capitals for subgenera. (In the Carabidae only there have recently been proposed some names for "sections" within certain subgenera. These have been printed in small capitals and still more indented than the subgenera.)

Two uses are made of the asterisk (*). Wherever there has been recently published a presumably complete revision of a genus, an asterisk is placed at the left hand margin immediately below the generic name. Any other items which were not included in the revision are separated from the latter by a row of three as-
terisks. Thus the three asterisks always denote the end of a re-
vision or of a subgenus, or of a special rearrangement of genera
as mentioned in a footnote.

One of the characteristics of human endeavor is the occasional
mistake that is almost inevitably to be found. The most con-
centrated effort will not prevent a few errors from marring any work.
These are generally taken for granted and are scarcely noticed un-
less they are present in unusual numbers. While examining the
sources of the present compilation, the writer was forced to the con-
clusion that an entirely disproportionate number of the errors in
our taxonomic papers on beetles has been made by a relatively small
number of workers. For the most part these are errors due to care-
lessness or indifference, and they usually result from failure to as-
certain all the facts or from one’s being in too great a hurry to get
papers published. A few of these are mentioned in footnotes in the
text. Among the more common and very unfortunate errors may
be mentioned the following: The renaming of preoccupied genera
and species for which there was already one or more available names:
failure to give the author of a homonym an opportunity to rename
it: changing the name of a genus or species because of page preced-
ence: citing a synonym in parenthesis between the generic and speci-
fic names. as *Mylabris* (*Bruchus*) *atomus*, where *Bruchus* is not
used as a subgenus: failure to follow the Rules strictly in the matter
of accepting or correcting the original spelling of names: and extreme
carelessness in giving references to older species and in the spelling
of the names themselves.

Most of these errors have been copied into the supplement
without specific comment, but attention is directed to some by
footnotes. In most cases in which there have been changes made
by the compiler, this fact is indicated. But in general responsi-
bility and authority for all items are placed directly back on the
entomologist who published them. An exception to this state-
ment must be noted in the matter of the bibliographic references.
Many of these have been corrected by independent study, and
wherever there was a discrepancy the original catalog has been
followed (unless ample reasons have been published for the change).

Many of the entomologists whose recent work is included in
this supplement were kind enough to check the preliminary lists of
their publications. One hundred and one such lists were sent out,
and about 85 were returned with the necessary additions or correc-
tions. Many important oversights were thus corrected, and many
new items were contributed by these workers from their own studies.
Grateful acknowledgment is made to all these friends.
SIGNS AND ABBREVIATIONS

* indicates a revision of the genus (or other group).
*** indicates the end of a revision or of a subgenus.
[ before locality indicates that it applies to line above.
a. aberration.
n. natio, used by Breuning as a category between subspecies and aberration.
s. subspecies.
v. variety.
Coccinellidae

Rhadogera 29

Corticini

* * *

Phloeonemus

(adhaerens Shp., not No. American) 29

Microsicus 30

parvulus Guer. 29-189 30 S.U.S. Mex.

Lasconotus Er. 46-258 31

(Inilus Pasce 63-33) 32

(Anchomma Wankow. 67-249) 39

(Orthocerini Sahib. 71-44) 38

Aulonium

bidentatum Fab. 01-556 32 L.Cal. C.A. I.W.I.

Lapethus Csy. 90-317 32

(Lytopus Shp. 95-494)

(Phloeonemus shrimp. 94-456) 30

Lathridiidae

Corticaria

linearis Payk. 98-302 34 Eur. Sib. [Green].

Enicus

tricornatus Brown 34-22 Sask.

Mycetidae

Stethorhanis

borealis Blais. 34-325 B.C.

Coccinellidae

Hyperaspis

leachi Nuren. 34-19 Cal.

biornatus Nuren. 34-18 Cal.

fimbriolata Melsh. 46-180 Tex.

Hyperaspis

horni Nuren. 34-19 N.J.

Scyrmus

maderi Nuren. 37-183 Cal.

fuscus | Nuren. 34-18

scotti Nuren. 34-17 Cal.

schuberti Nuren. 34-17 Ariz. Cal.

Coccidula

suturalis Weise 95-132 35 Vanc.-N.J.

ocidentalis Horn 95-114 35

Psyllobora

plagiata Schffr. 08-125 Ariz.

robinet Nuren. 11-71 30

Ceratomegilla

cotteli Nuren. 34-20 Wyo.

Adonia

ameena Fald. 35-453 Al. Alaska, Asia

Hippodamia

hoppingi Nuren. 34-21 Cal.

lunatomaculata Mots. 45-382 Cal.

nigromaculata Nuren. 34-20 (Ad-

Quindecimpectata Oliv. 08-1027 39

[Can.-N.C.-Ark.-Ill.]

caseyi Westc. 12-422 38
giaticolus Muls. 50-134 39

Exochomus


quatuorpustulatus Linn. 58-367 40 Eur.

quadripustulatus Nuren. 34-113 40

[Cal.]

Dodge—38.

Nunenmacher in litt.

Scott—35.

Gaines—33.

Revision of genus, McKenzie—36.

Valid species, Nunenmacher—34.
TENEBRIONIDÆ

Brumus
blumi Nuren. 34-114 Cal.

Epilachna
varivestis Muls. 50-815 N.A.
corrupta Muls. 50-815 a
a.genuina Muls. 50-817 a
a.juncta Joh. 10-79

ALLELCLUDÆ

Pseudocistela Cr. 73-108 a
* (Cistela of Lec. & Horn) a
amena Say 23-268 Ind. O. Tex.
breviss Say 23-269 E.Can. E.U.S.
erythrotnera Zieg. 44-46
rufipes Melsh.
pinguis Lec. 59-16 N.M. Kan. Cal.
pacifica R.Hopp. 33-284 B.C. Cal.
opaca Lec. 59-78 Cal.
theveneti Horn 75-156
marginata Zieg. 44-46
pectinata R.Hopp. 35-285 B.C.

TENEBRIONIDÆ

AUCHMOBIINI *

Auchmobius Lec. 51-139 a
* sublaevis Lec. 51-140 a
subovalis Blais. 34-238 B.C.
slevini Blais. 34-243 Cal.
parvicollis Blais. 34-246 Cal.
angelicus Blais. 34-249 Cal.
pelipes Blais. 34-252 Cal.
subleoves Blais. 34-254 Cal.
sanfordi Blais. 34-257 Cal.

Stibia Horn 70-260 a
(Entoriophus Csy. 24-296 a)
granulata Blais. 23-238 L.Cal.
fallicosa Blais. 36-70 L.Cal.
puncticollis of Blais. (not Horn) a
v.intersttialis Blais. 36-73 L.Cal.
crbrata Blais. 23-239 L.Cal.
opaca Blais. 25-329 (nom.nud.) a
williamsi Blais. 25-328 L.Cal.
puncticollis Horn 70-260 a Cal. L.Cal.
knowel Blais. 25-329 a
s.majorca Blais. 36-83 L.Cal.

sparsa Blais. 23-237 L.Cal.
blairi Blais. 36-888 "Cal.merid."
tuckeri Csy. 24-297 a
imperialis Blais. 36-94 Ariz.
tanneri Blais. 36-97 Cal.
tortuensis Blais. 36-100 L.Cal.

Eschatomyx Blais. 35-125
wagneri Blais. 35-125 Cal.

Cranotis a

Eusichides
leontella Blais. 36-227 Cal.
vetempsalig Blais. 36-229 Cal.
speculatus Blais. 36-225 Cal.
cressoni Blais. 33-191 Cal.

Eleodes
paradoxa Blais. 31-73 a
montana Blais. 25-335 a
MELANELEODES Blais. 09-33
lineata Blais. 39-55 Ariz.
omissa Lec. 58-186 B.C.
s.tumida Blais. 33-194 a

crassa Blais. 33-196 a
acuta Say. 23-268 Tex.
s.pernigra Blais. 37-138 Cal.

ELEODES (s.str.)
dentipes Esch. 29-10 B.C.
s.sordida Blais. 35-30 Cal.

amecedes Blais. 33-199 Cal. Nev.
armata Lec. 51-134 B.C.
v.pumila Blais. 33-197 Ariz.
ARPELEODES Blais. 37-128 Cal.
tibialis Blais. 09-311 a L.Cal.

kawena Blais. 33-203 Cal.
scabriventris Blais. 33-202 Cal.
oblonga Blais. 33-206 Cal.

BLAPYLIS Horn 70-301 N.Mex.
Indentata Blais. 35-23 Wash.
STENELEODES Blais. 09-33
ornatipennis Blais. 37-129 N.Mex.
HOLELEODES Blais. 37-132 Ariz.
beameri Blais. 37-132 Ariz.
bryanti Blais. 37-134 Ariz.

Neobaphion
elongatium Blais. 33-208 Nev.

Eleodopsis Blais. 39-52 a

* Belongs in Asidinæ—Cranotini, before Asidin, Blaisdell—37.
* Belongs in Eleodopsinæ—Eleodopsini, to follow Eleodiza.