

A REVISED SYNONYMIC CATALOGUE WITH TAXONOMIC
NOTES ON SOME NEARCTIC LYCAENIDAE

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INTRODUCTION

The publication by Harry K. Clench ([1961]: 177–220) and John C. Downey ([1961]: 230–242) in Ehrlich & Ehrlich's *How to Know the Butterflies* of revisions of the Theclini by the former and the Plebejini by the latter rendered another part of the present author's synonymic list (1964), at least obsolete insofar as the Theclini is concerned. This situation is similar to the one explained in a previous paper on the Nearctic Melitaeinae (1969, *J. Lepid. Soc.*, 23: 115–125).

Clench revised the Theclini and in the course of his work proposed eight new generic or subgeneric names, besides introducing into our fauna some names that had heretofore been considered Neotropical and eliminating some that are no longer considered Nearctic. Downey, on the other hand, merely rearranged the order in which the genera and some of the species appear in the synonymic list so that it is not considered necessary to repeat his work, no reasons having been given for such action. Clench also made no vital changes in this author's Lycaeninae which he gives tribal rank (Lycaenini) except that he combines *Lycaena cupreus* with *L. snowi* (1961: 222) as one species although recognizing apparently both as good subspecies. Also he does not clearly recognize the subgenus *Tharsalea* Scudder, 1876, although he may recognize it subgenerically in another faunal area, and arranges the species in *Lycaena* in somewhat different order. These are subjective matters with which one cannot quarrel, but in neither case is it deemed necessary to rewrite those parts of the synonymic list.

Neither Clench's nor Downey's works give any synonymies and do not list categories lower than species. This was done in accordance with the wish of the authors of *How to Know the Butterflies*, but is unfortunate for the student because he cannot tell what has become of subspecies, lower categories, and synonyms.

The present paper follows the general style and form of the synonymic list, followed by notes giving explanations for the changes made. An effort has been made to fit all names into the list by giving numbers to them starting with 349 where the Lycaenidae start. A similar arrangement of the genera was impossible because of the many changes made by Clench.

The thorough and badly needed revision of the Theclini by my colleague Harry K. Clench, Curator of Lepidoptera at the Carnegie Museum, is of such value and importance that it should be made available in catalogue form to purchasers of the synonymic list. My thanks are extended to Mr. Clench for clearing up some points that were uncertain in his work or not easily understood. He has been most liberal in his assistance.

I am indebted also to my colleague, F. Martin Brown, for placing at my disposal a *ms* on the types of the Lycaenid butterflies described by William Henry Edwards of which he is the senior author with Paul A. Opler. Brown generously gave permission to use any of his ideas.

Family **LYCAENIDAE**
Subfamily **THECLINAE**

HABRODAIS Scudder, 1876

- Type: *Thecla grunus* Boisduval, 1852
Habrodias McDunnough, 1914 (*lapsus calami*)
- 349 **grunus** (Boisduval), 1852
a **g. grunus** (Boisduval), 1852
b **g. lorquini** Field, 1938
form *chloris* Field, 1938
c **g. herri** Field, 1938

HYPAUROTIS Scudder, 1876

- Type: *Thecla chrysalus* Edwards, "1872-3" (1873) (= *Thecla crysalus* Edwards, "1872-3" [1873])
- 350 **crysalus** (Edwards), "1872-3" (1873)
chrysalus Auctorum
chryaslus (Edwards), 1884 (*lapsus calami*)
form *citima* (H. Edwards), 1881

CHLOROSTRYMON Clench, [1961]

- Type: *Thecla telea* Hewitson, 1868
- *351 **simaethis** (Drury), "1770" [1773]
a **s. sarita** (Skinner), 1895
- 352 **telea** (Hewitson), 1868
- 353 **maesites** (Herrich-Schäffer), 1864

PHAEOSTRYMON Clench, [1961]

- Type: *Thecla alcestis* Edwards, "1870-1" (1871)
- 354 **alcestis** (Edwards), "1870-1" (1871)
a **a. alcestis** (Edwards), "1870-1" (1871)
b **a. oslari** (Dyar), 1904

HARKENCLENUS nom. nov.

pro *Chrysophanus* Hübner, 1818 (opinion 541, name 1235)

Type: *Chrysophanus mopsus* Hübner, 1818 (opinion 541, name 1235)
 (= *Papilio titus* Fabricius, 1793) (opinion 541, name 1605)

- 355 **titus** (Fabricius), 1793
 a **t. titus** (Fabricius), 1793
 b **t. mopsus** (Hübner), "1818" [1809–13]
 c **t. watsoni** (Barnes & Benjamin), 1926
 d **t. immaculosus** (Comstock), 1913

SATYRIUM Scudder, 1876

Type: *Lycaena fuliginosa* Edwards, 1861

Callipsyche Scudder, 1876

Strymon Auctorum (*partim*)

Thecla Auctorum (*partim*)

- 356 **fuliginosum** (Edwards), 1861
 a **f. fuliginosum** (Edwards), 1861
 suasa (Boisduval), 1869
 ab. *immaculata* Gunder, 1927
 b **f. semiluna** Klots, 1930
- 357 **behrii** (Edwards), "1870–1" (1870)
 a **b. behrii** (Edwards), "1870–1" (1870)
 kali (Strecker), "1872" [1878]
 ab. *nigroinita* (Gunder), 1924
 b **b. crossi** (Field), 1938
 c **b. columbia** (McDunnough), 1944
- 358 **auretorum** (Boisduval), 1852
 a **a. auretorum** (Boisduval), 1852
 tacita (H. Edwards), 1881
 b **a. spadix** (H. Edwards), 1881
- 359 **tetra** (Edwards), "1870–1" (1870)
 adenostomatis (H. Edwards), 1877
- 360 **saepium** (Boisduval), 1852
 chalcis Edwards, "1868–9" (1869)
 soepium (Boisduval), 1852 (*lapsus calami*)
 a **s. saepium** (Boisduval), 1852
 form *fulvescens* (H. Edwards), 1877
 form *chlorophora* (Watson & Comstock), 1920
 form *provo* (Watson & Comstock), 1920
 b **s. okanagana** (McDunnough), 1944

- 361 **liparops** (Le Conte), [27 July 1833]
 a **l. liparops** (Le Conte), [27 July 1833]
 b **l. strigosa** (Harris), 1862
 ab. *pruina* (Scudder), 1889
 c **l. fletcheri** (Michener & dos Passos), 1942
 liparops (Fletcher *nec* Le Conte [27 July 1833])
 "1903" [1904]
 d **l. aliparops** (Michener & dos Passos), 1942
- 362 **kingi** (Klots & Clench), 1952
- 363 **calanus** (Hübner), "1806" [1809]
 wittfeldii (Edwards), 1883
 a **c. calanus** (Hübner), "1806" [1809]
 b **c. falacer** (Godart), "1819" [1824]
 lorata (Grote & Robinson), 1867
 inorata (Grote & Robinson), 1867
 ab. *heathii* (Fletcher), "1903" [1904]
 c **c. godarti** (Field), 1938
- 364 **caryaevorus** (McDunnough), 1942
- 365 **edwardsii** (Saunders), 1869
 fabricii (Kirby), 1871
- 366 **sylvinus** (Boisduval), 1852
 a **s. sylvinus** (Boisduval), 1852
 b **s. desertorum** (Grinnell), 1917
 c **s. itys** (Edwards), 1882
 d **s. putnami** (H. Edwards), 1877
 putmani Brown, Eff, & Rotger, 1955 (*lapsus calami*)
- 367 **californica** (Edwards), 1862
 borus (Boisduval), 1869
 cygnus (Edwards), "1870-1" (1871)
- 368 **acadica** (Edwards), 1862
 acadia Brown, Eff, & Rotger, 1955 (*lapsus calami*)
 a **a. acadica** (Edwards), 1862
 souhegan (Whitney), 1868
 souhegon (McDunnough), 1938 (*lapsus calami*)
 ab. *muskoka* (Watson & Comstock), 1920
 ab. *swetti* (Watson & Comstock), 1920
 b **a. coolinensis** (Watson & Comstock), 1920
 c **a. montanensis** (Watson & Comstock), 1920
 d **a. watrini** (Dufrane), 1939
- 369 **dryope** (Edwards), "1870-1" (1871)

EUMAEUS Hübner, "1816" [1819]

Type: *Eumaeus minyas* Hübner, "1816" [1819] (= *Rusticus adolescens minijas* Hübner, "1806" [1809])
Eumenia Godart, "1819" [1824]

*370 **atala** (Poey), 1832

a **a. florida** Röber, 1926

grayi Comstock & Huntington, 1943

371 **minyas** (Hübner), "1816" [1819] (*emendatio*)

minijas (Hübner), "1806" [1809]

toxea (Godart), "1819" [1824]

OENOMAEUS Hübner, "1816" [1819]

Type: *Papilio ortygnus* (Cramer), "1782" [1779]

372 **ortygnus** (Cramer), "1782" [1779]

MINISTRYMON Clench, [1961]

Type: *Thecla leda* Edwards, 1882

373 **ines** (Edwards), 1882

374 **leda** (Edwards), 1882

375 **clytie** (Edwards), 1877

gen. hiem. maevia (Godman & Salvin), (1887)

HETEROSMAITIA Clench, 1964

Type: *Thecla bourkei* Kaye, 1924

376 **spurina** Hewitson, "1862" [1867]

377 **zebina** (H. A. Freeman), 1950

CALYCOPIS Scudder, 1876

Type: *Rusticus armatus poeas* Hübner, "1806" [1811] (= *Hesperia cecrops* Fabricius, 1793)

378 **beon** (Stoll), 1782

379 **cecrops** (Fabricius), 1793

poeas (Hübner), "1806" [1811]

ab. *gottschalki* (Clark & Clark), 1938

TMOLUS Hübner, "1816" [1819]

Type: *Papilio echion* Linnaeus, 1767

380 **echiolus** (Draudt), 1920

echion Auctorum (*nec* Linnacus, 1767)

381 **azia** (Hewitson), 1873

nipona Auctorum (*nec* Hewitson, 1877)

CALLOPHRYS (INCISALIA) Scudder, 1872

Type: *Licus niphon* Hübner, [1819–] 1823 [1823]

- 382 **polios** Cook & Watson, 1907
 ab. *davisi* Watson & Comstock, 1920
- 383 **irus** (Godart), "1819" [1824]
 a **i. irus** (Godart), "1819" [1824]
arsace (Boisduval & Le Conte), [1833]
 ab. *baltaeta* Scudder, 1889
balteata dos Passos, 1964 (*lapsus calami*)
- b **i. hadros** Cook & Watson, 1909
- 384 **henrici** (Grote & Robinson), 1867
 a **h. henrici** (Grote & Robinson), 1867
 b **h. turneri** Clench, 1943
 c **h. margaretae** dos Passos, 1943
 d **h. solatus** Cook & Watson, 1909
- 385 **fotis** (Strecker), "1877" [1878]
 a **f. mossii** (H. Edwards), 1881
 b **f. schryveri** Cross, 1937
 c **f. bayensis** R. M. Brown, 1969
 d **f. doudoroffi** dos Passos, 1946
 e **f. windi** Clench, 1943
 f **f. fotis** (Strecker), "1877" [1878]
- 386 **augustinus** (Westwood), "1846-52" [1852]
augustus (Kirby *nec* Fabricius, 1793), 1837
 a **a. augustinus** (Westwood), "1846-52" [1852]
 b **a. helenae** dos Passos, 1943
 c **a. croesioides** Scudder, 1876
 d **a. iroides** (Boisduval), 1852
 ab. *immaculata* (Cockle), 1910
 e **a. annetteae** dos Passos, 1943
- 387 **lanoraieensis** Sheppard, 1934
- 388 **niphon** (Hübner), [1819-] 1823 [1823]
nipha (Morris), 1860 (*lapsus calami*)
 a **n. niphon** (Hübner), [1819-] 1823 [1823]
plautus (Scudder), 1876
 b **n. clarki** Freeman, 1938
- 389 **eryphon** (Boisduval), 1852
 a **e. eryphon** (Boisduval), 1852
 b **e. sheltonensis** Chermock & Frechin, "1948" [1949]
- CALLOPHRYS (SANDIA)** Clench & Ehrlich, 1960
 Type: *Callophrys (Sandia) mcfarlandi* Ehrlich & Clench, 1960
- 390 **mcfarlandi** Ehrlich & Clench, 1960 (*emendatio*)
mcfarlandi Ehrlich & Clench, 1960

CALLOPHRYS (XAMIA) Clench, [1961]Type: *Thecla xami* Reakirt, "1866" [1867]391 **xami** (Reakirt), "1866" [1867]*blenina* (Hewitson), 1868**CALLOPHRYS (MITOURA)** Scudder, 1872Type: *Thecla smilacis* Boisduval & Le Conte, [1833] (= *Papilio damon* Stoll, 1782 *nec* [Denis & Schiffermüller], 1775 = *Lycus gryneus* Hübner, "1816" [1819])392 **loki** (Skinner), 1907393 **hesseli** Rawson & Ziegler, 1950394 **gryneus** (Hübner), "1816" [1819]a **g. gryneus** (Hübner), "1816" [1819] (*gen. vern.*)*damon* (Stoll *nec* [Denis & Schiffermüller], 1775), 1782*demon* (Skinner), 1897 (*lapsus calami*)*damastus* (Godart), "1819" [1824]*auburniana* (Harris), 1862 (*partim*)ab. *octoscripta* Buchholz, 1951*gen. aest. smilacis* (Boisduval & Le Conte), [1833]*auburniana* (Harris), 1862 (*partim*)*patersonia* (Brehme), 1907b **g. sweadneri** Chermock, "1944" [1945]c **g. castalis** (Edwards), "1870-1" (1871)*discoidalis* (Skinner), 1897form *brehmei* Barnes & Benjamin, 1923395 **spinetorum** (Hewitson), 1867*ninus* (Edwards), "1870-1" (1871)*cuyamaca* (Wright), 1922396 **siva** (Edwards), "1874-6" (1874)a **s. siva** (Edwards), "1874-6" (1874)*rhodope* (Godman & Salvin), (1887)b **s. juniperaria** J. A. Comstock, 1925c **s. mansfieldi** Tilden, 1951397 **nelsoni** (Boisduval), 1869a **n. nelsoni** (Boisduval), 1869ab. *exoleta* (H. Edwards), 1881b **n. muiri** (H. Edwards), 1881398 **johnsoni** (Skinner), 1904**CALLOPHRYS (CALLOPHRYS)** Billberg, 1820Type: *Papilio rubi* Linnaeus, 1758

Lycus Hübner, "1816" [1819] (*nec Lycus* Fabricius, 1787)

Licus Hübner [1819-] 1823 [1823]

- 399 **affinis** (Edwards), 1862
 a **a. washingtonia** Clench, 1944
 b **a. affinis** (Edwards), 1862
- 400 **sheridanii** (Carpenter), 1877 (*emendatio*)
sheridonii (Carpenter), 1877 (*lapsus calami*)
 a **sheridanii** (Carpenter), 1877 (*emendatio*)
 b **s. neoperplexa** (Barnes & Benjamin), 1923
 c **s. newcomeri** Clench, 1963
- 401 **dumetorum** (Boisduval), 1852
 a **d. dumetorum** (Boisduval), 1852
perplexa Barnes & Benjamin, 1923
- 402 **apama** (Edwards), 1882
 a **a. apama** (Edwards), 1882
 b **a. homoperplexa** Barnes & Benjamin, 1923
- 403 **comstocki** Henne, 1940
- 404 **lemberti** Tilden, 1963
- 405 **viridis** (Edwards), 1862

CALLOPHRYS (CYANOPHRYS) Clench, [1961]

Type: *Strymon agricola* Butler & Druce, 1872

- 406 **miserabilis** Clench, 1946
pastor *Auctorum* (*nec* Butler & Druce, 1872)
- 407 **goodsoni** (Clench), 1946
facuna *Auctorum* (*nec* Hewitson, 1877)

ATLIDES Hübner, "1816" [1819]

Type: *Papilio halesus* Cramer, "1779" [1777]

Brangas Hübner, "1816" [1819]

- 408 **halesus** (Cramer), "1779" [1777]
 a **h. halesus** (Cramer), "1779" [1777]
dolichos (Hübner), 1823
juanita (Scudder), 1868
 b **h. corcorani** Clench, 1942
 form *estesi* Clench, 1942

DOLYMORPHA Holland, 1931

Type: *Thecla jada* Hewitson, "1862" [1867]

- 409 **jada** (Hewitson), "1862" [1867]

EURISTRYMON Clench, [1961]

Type: *Thecla favonius* Smith, 1797

- 410 **polingi** (Barnes & Benjamin), 1926
 411 **favonius** (Smith), 1797
 412 **ontario** (Edwards), "1868-9" (1868)
 a **o. ontario** (Edwards), "1868-9" (1868)
 b **o. violae** (Stallings & Turner), 1947
 c **o. autolyceus** (Edwards), "1870-1" (1871)
 d **o. ilavia** (Beutenmüller), 1899
 mirabelle (Barnes), 1900

HYPOSTRYMON Clench, [1961]

- Type: *Thecla critola* Hewitson, 1874
 413 **critola** (Hewitson), 1874

PANTHIADES Hübner, "1816" [1819]

- Type: *Papilio pelion* Cramer, "1779" [1775]
 Parrhasius Hübner, "1816" [1819]
 Eupsyche Scudder, 1876
 414 **m-album** (Boisduval & Le Conte), [June 1833]
 ♂ *psyche* (Boisduval & Le Conte) [June 1833]

STRYMON Hübner, 1818 (opinion 541, name 1332)

- Type: *Strymon melinus* Hübner, 1818 (opinion 541, name 1602)
 Bithys Hübner, 1818 (opinion 541, name 1234)
 Bythis Geyer, [1827-31] (opinion 541, name 1236) (*lapsus calami*)
 Argus Gerhard (*nec* Bohadsch, 1761, *nec* Scopoli, 1763, *nec* Scopoli, 1777, *nec* Boisduval, 1832), 1850
 Callipareus Scudder, 1872
 Callicista Grote, 1873
 Uranotes Scudder, 1876
 415 **martialis** (Herrich-Schäffer), 1864
 *416 **acis** (Drury), "1770" [1773]
 mars (Fabricius), [1777]
 a **a. bartrami** (Comstock & Huntington), 1943
 417 **melinus** Hübner, 1818 (opinion 541, name 1602)
 a **m. melinus** Hübner, 1818
 hyperici (Boisduval & Le Conte), [27 July 1833]
 ab. *youngi* Field, 1936
 b **m. humuli** (Harris), 1841
 ab. *meinersi* Gunder, 1927
 c **m. franki** Field, 1938
 d **m. pudica** (H. Edwards), 1877

- e **m. atrofasciata** McDunnough, 1921
 f **m. setonia** McDunnough, 1927
 418 **avalona** (Wright), 1905
 419 **rufofusca** (Hewitson), "1862" (1877) (*emendatio*)
 rufo-fusca (Hewitson), "1862" (1877)
 420 **cestri** (Reakirt), "1866" [1867]
 421 **yojoa** (Reakirt), "1866" [July 1867]
 *422 **columella** (Fabricius), 1793
 a **c. istapa** (Reakirt), "1866" [1867]
 b **c. modesta** (Maynard), 1873
 ocellifera (Grote), 1873
 423 **bazochii** (Godart), "1819" [1824]
 thius Geyer, 1832
 agra Hewitson, 1871
 424 **alea** (Godman & Salvin), "1879-1901" [1887]
 laceyi (Barnes & McDunnough), 1910
 425 **bebrycia** (Hewitson), 1868
 buchholzi H. A. Freeman, 1950

ERORA Scudder, 1872

- Type: *Thecla laeta* Edwards, 1862
 426 **laeta** (Edwards), 1862
 ♀ *clothilde* (Edwards), "1863-4" (1863)
 *427 **quaderna** (Hewitson), 1868
 a **q. sanfordi** dos Passos, 1940

ELECTROSTRYMON Clench, [1961]

- Type: *Papilio endymion* Fabricius, 1775
 *428 **endymion** (Fabricius), 1775
 a **e. cyphara** (Hewitson), 1874

TAXONOMIC DISCUSSION

The following names, arranged in alphabetical order, have been omitted from this revised synonymic catalogue because they are now believed not to occur in the Nearctic region:

?*Lycaena erytalus* Butler, "1869" [1870] (?*lapsus calami* for *Tmolus eurytulus* Hübner, 1819)

Polyommatus hugon Godart, "1819" [1824]

Strymon eurytulus (Butler), "1869" [1870] is a South American species of which *erytalus auctorum* is a misspelling and these names are accordingly omitted from the list.

Strymon daraba (Hewitson), "1861" [April 1867] is also a South American species and dropped from the List.

Strymon pastor Butler & Druce, "1869-76" [1872]

Thecla beroea Hewitson, 1868

Thecla cybira Hewitson, "1862-78" [1874]

Thecla facuna Hewitson "1862" [1877]

Thecla nipona Hewitson, 1877

The following explanations will help answer questions concerning placement of names, especially where the above list deviates from the treatment of Clench, or where more recent information has been incorporated.

HARKENCLENUS

The International Commission on Zoological Nomenclature by opinion 541 suppressed among other names *Chrysophanus* Hübner, 1818, and placed it on the Official Index of Rejected and Invalid Names in Zoology for the purposes of the Law of Priority but not for those of the Law of Homonymy. Consequently, a replacement name is in order. For that purpose *Harkenclenus* has been chosen, being an arbitrary combination of the first syllables of the name of my friend and colleague, Harry Kendon Clench. The new name is masculine.

SATYRIUM

Satyrium edwardsii has from time to time been ascribed to Saunders or Grote & Robinson. It was a manuscript name of Saunders first published by Grote & Robinson (1867) in the synonymy of *S. calanus*. Since that is no longer considered a valid publication (Code, Art. 16 [b] [ii]), the name must be credited to Saunders who validly published it in 1869.

EUMAEUS

Clench removed *Eumaeus* from the Thecliti, and placed it in the Strymoniti.

There are differences of opinion concerning the correct spelling of the name of the type species of this genus. When first published, it was written *minijas*, but when Hübner later proposed this generic name and included this species in it, he wrote the name *minyas*, and that spelling has been generally accepted as a justified emendation. It seems better to adhere to the present practice especially since *Minyas* was a Greek hero and the letter "j" was not included in the classical Latin alphabet.

HETEROSMAITIA

Thecla spurina Hewitson, "1862" [1867] and *T. zebina* Hewitson, "1862" [1867] were both named from single specimens taken in the

Amazon and Nicaragua respectively. One specimen of each has been reported from southern Texas by Stallings & Turner and H. A. Freeman. According to Clench in Ehrlich & Ehrlich ([1961]: 198), "Their true identity remains uncertain." The former according to Clench (*in litt.*) belongs to the genus *Heterosmaitia* Clench, 1964, and it is probable that the latter belongs to the same genus. He is unable to place them with certainty at present.

CALLOPHRYS

Clench in Ehrlich & Ehrlich treats *Callophrys viridis* as a species in his key but omits it from the text. It is here included as a valid species. Further studies, on the biology and larval morphology, by G. A. Gorelick (J. Lepid. Soc., in press) have tended to confirm this separation.

ATLIDES

The correct taxonomic standing of *estesi* presents a problem of nomenclature. The name was proposed as "*Atlides halesus corcorani*, form *estesi*, new normal form" (Clench, 1942). From a reading of Clench's paper, it is clear that he intended *estesi* to represent the western population of *halesus*. On the other hand, Gunder had proposed *corcorani* as a transitional form (1934: 131). Transitional forms are generally considered aberrations, but Clench by his action gave this one subspecific standing. Accordingly, these names have been left as they stand in the synonymic list, but the authorship of *corcorani* has been ascribed to Clench, 1942.

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ON THE NATURE AND USE OF THE SUFFIX *-ELLUS*, *-ELLA*, *-ELLUM* IN SPECIES-GROUP NAMES

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The use of the suffix *-ellus* (*-ella*, *-ellum*) to form species-group names, especially in Microlepidoptera in the form of *-ella*, has been common for a long time, but fortunately it now seems to be waning. There is nothing to be gained by adding this suffix to specific names, except a few letters to the length of the name. Of the approximately 950 names cited in Heinrich's revision of the American Phycitinae (1956), for example, more than 500 are formed with this suffix, starting with *Tinea abietella* Denis and Schiffermueller, 1776,² *Tinea convolutella* Hübner, 1796, *Tinea decuriella* Hübner, 1796, and *Tinea elutella* Hübner, 1796, and continuing to *Ambesa columbiella* McDunnough, 1935, and *Epischnia vividella* McDunnough 1935. None of the 89 new names proposed by Heinrich in this work are formed in this wise.

Latin grammars deal with *-ellus*, *-a*, *-um* as follows:

- a) . . . "diminutives (with endings for gender), forming nouns or adjectives, meaning *little* or *tender*: as . . . *puella*, *asellus*, *misellus*." (Allen and Greenough, 1872).
- b) "There is a class of derivatives called diminutives, which express smallness: hence also sometimes endearment, contempt, pity, or depreciation. Such are of the

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² I am indebted to R. W. Hodges for pointing out that the ending dates back at least to the 10th edition of Linnaeus' *Systema Naturae*, where the genus *Phalaena* is divided into 7 sections, in some of which the specific names regularly bore characteristic endings: Bombyces, Noctuae, Geometrae (*-aria* and *-ata*), Tortrices (*-ana*), Pyralides (*-alis*), Timeae (*-ella*), Alucitae (six species: monodactyla, didactyla, tridactyla, tetradactyla, pentadactyla, hexadactyla). These sections were distinguished in a manner similar to that in which we now designate subgenera, e.g., *Phalaena* (*Tortrix*) *ameriana*, *P. (Tinea) bella*, *P. (Tinea) euonymella*. The Linnean sections now correspond roughly to families. The endings were used by later authors in various families. The endings *-ana* and *-alis* form adjectives; *-aria* and *-ata* are used with both nouns and adjectives; and *-dactyla* is the second member of compounds, which with the numerical 1st members form adjectives.