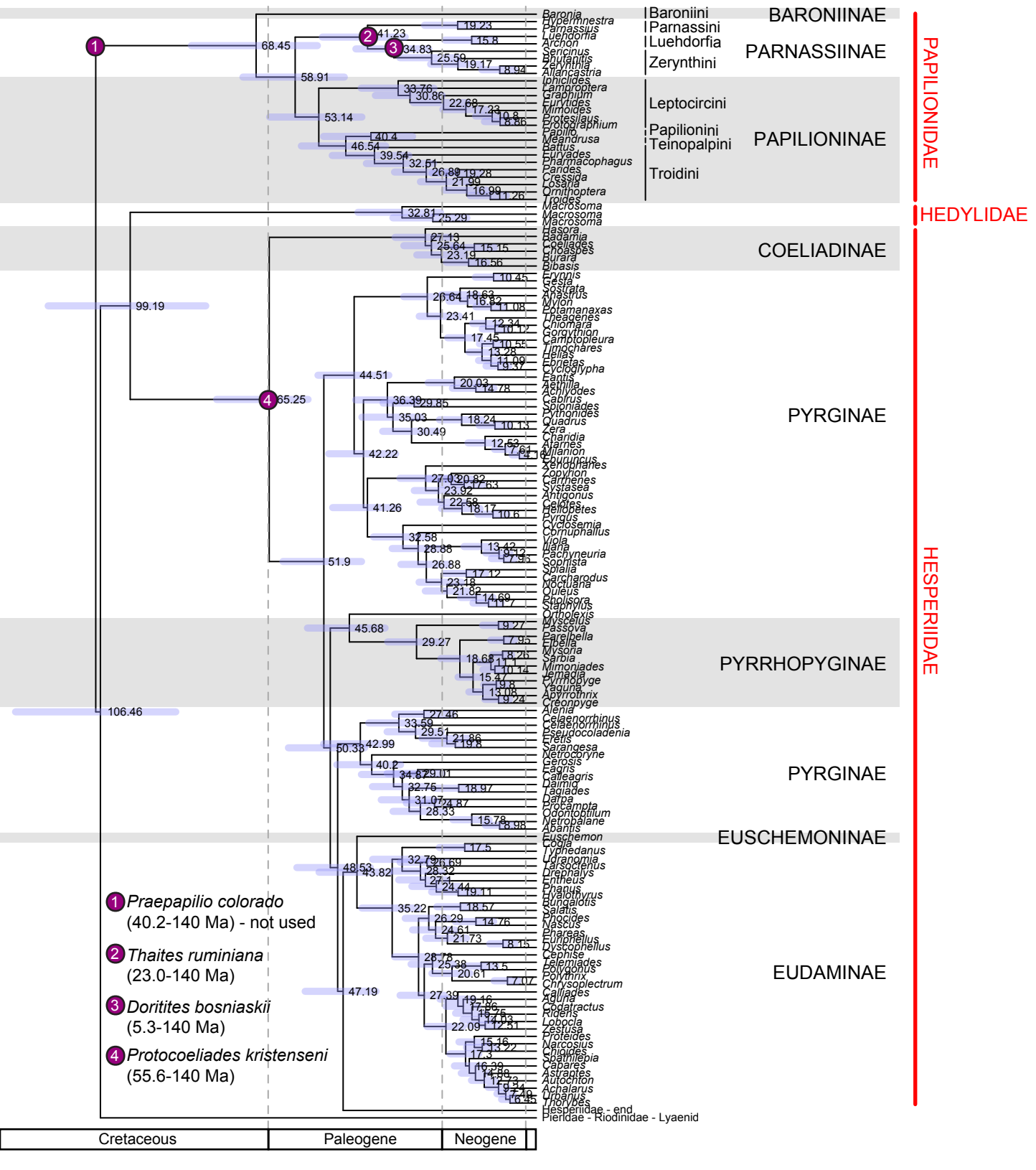
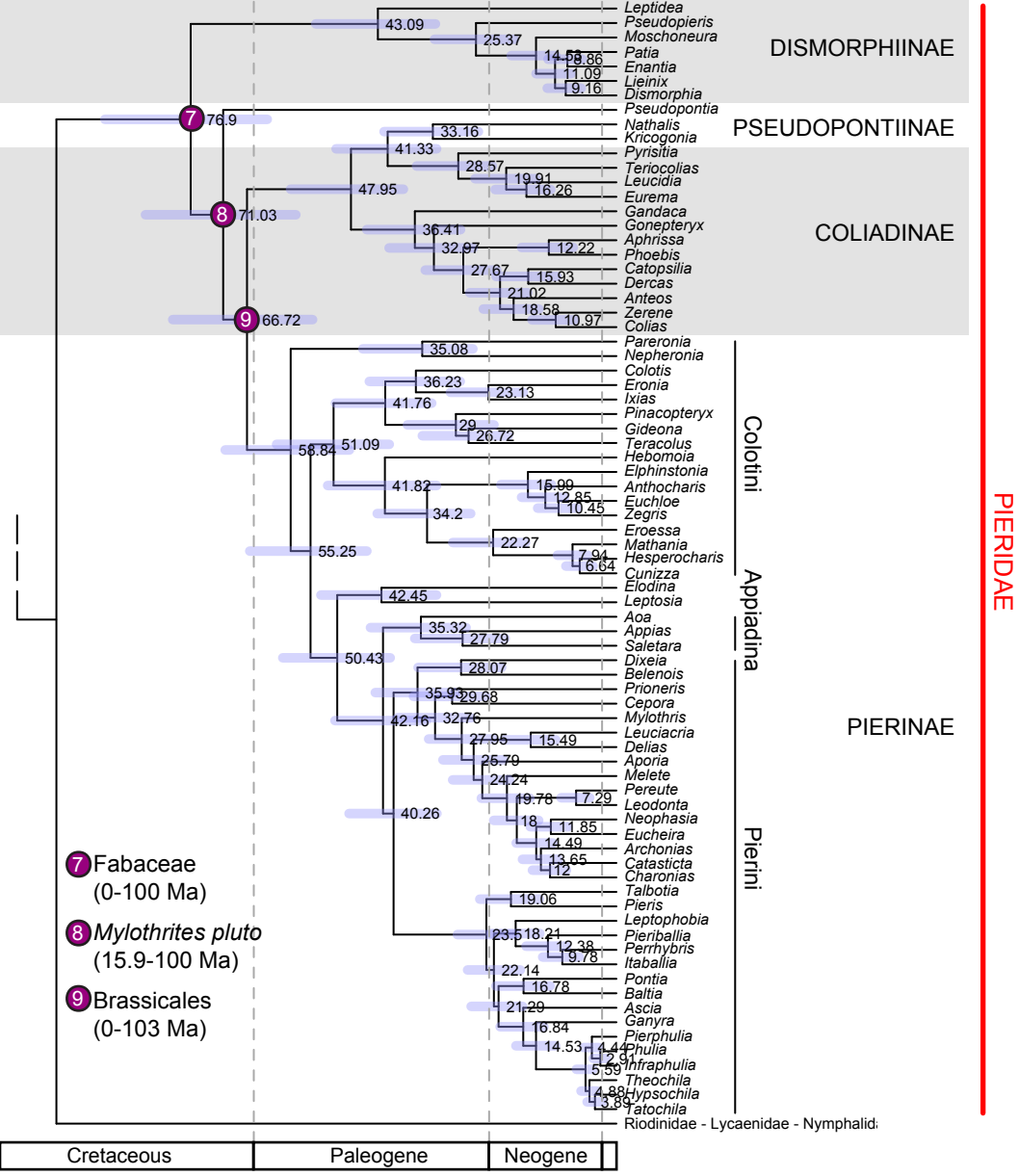
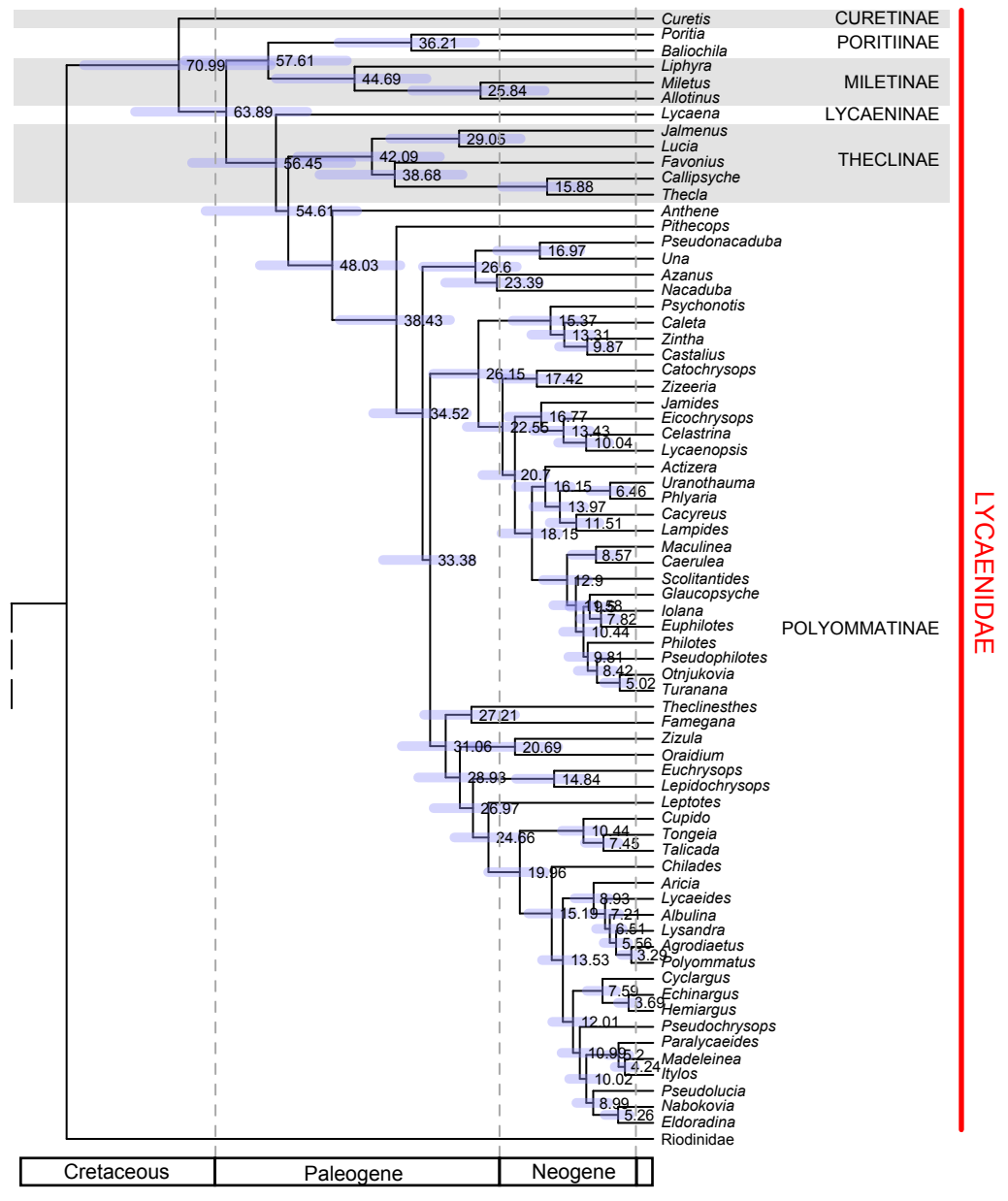
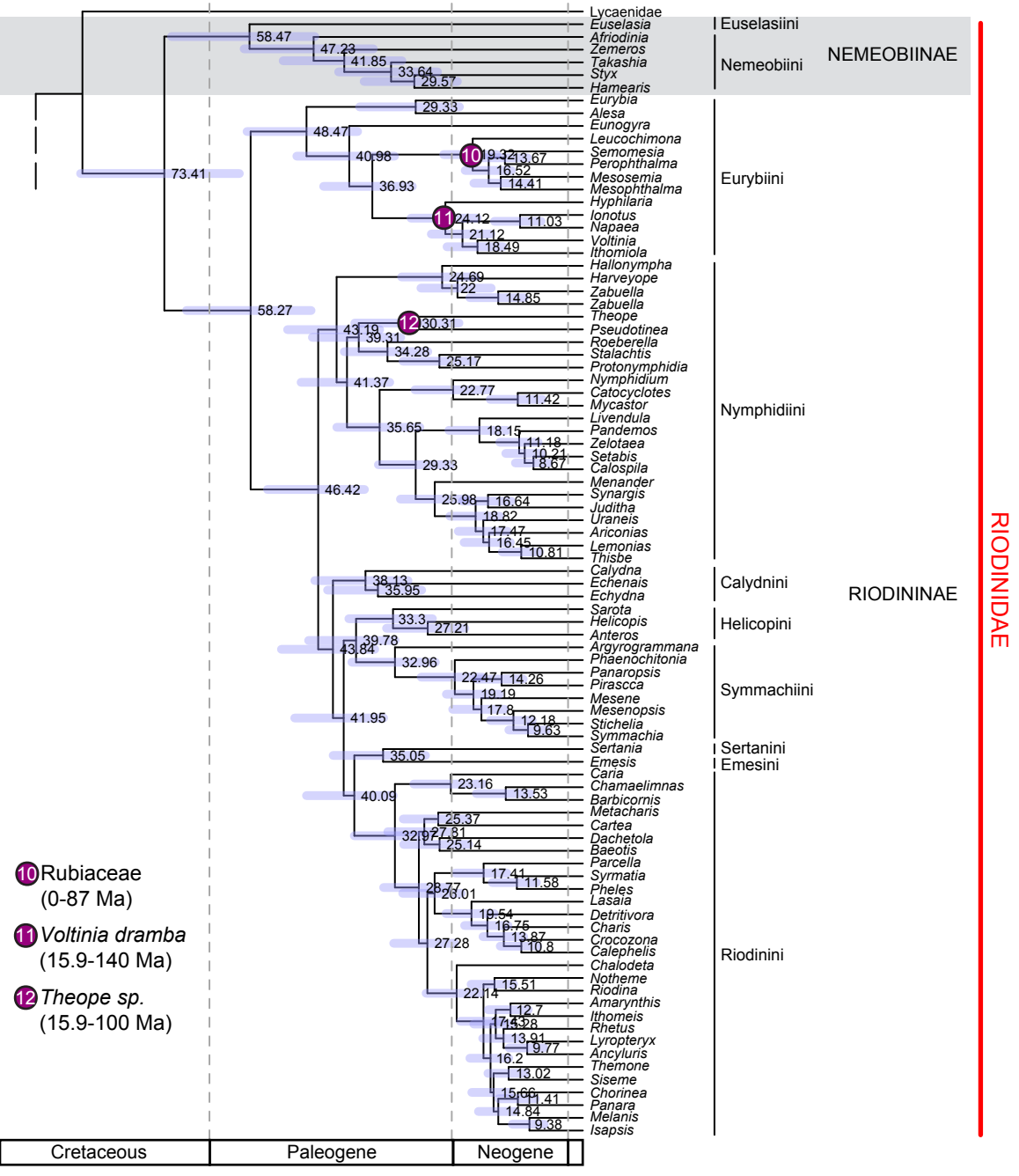
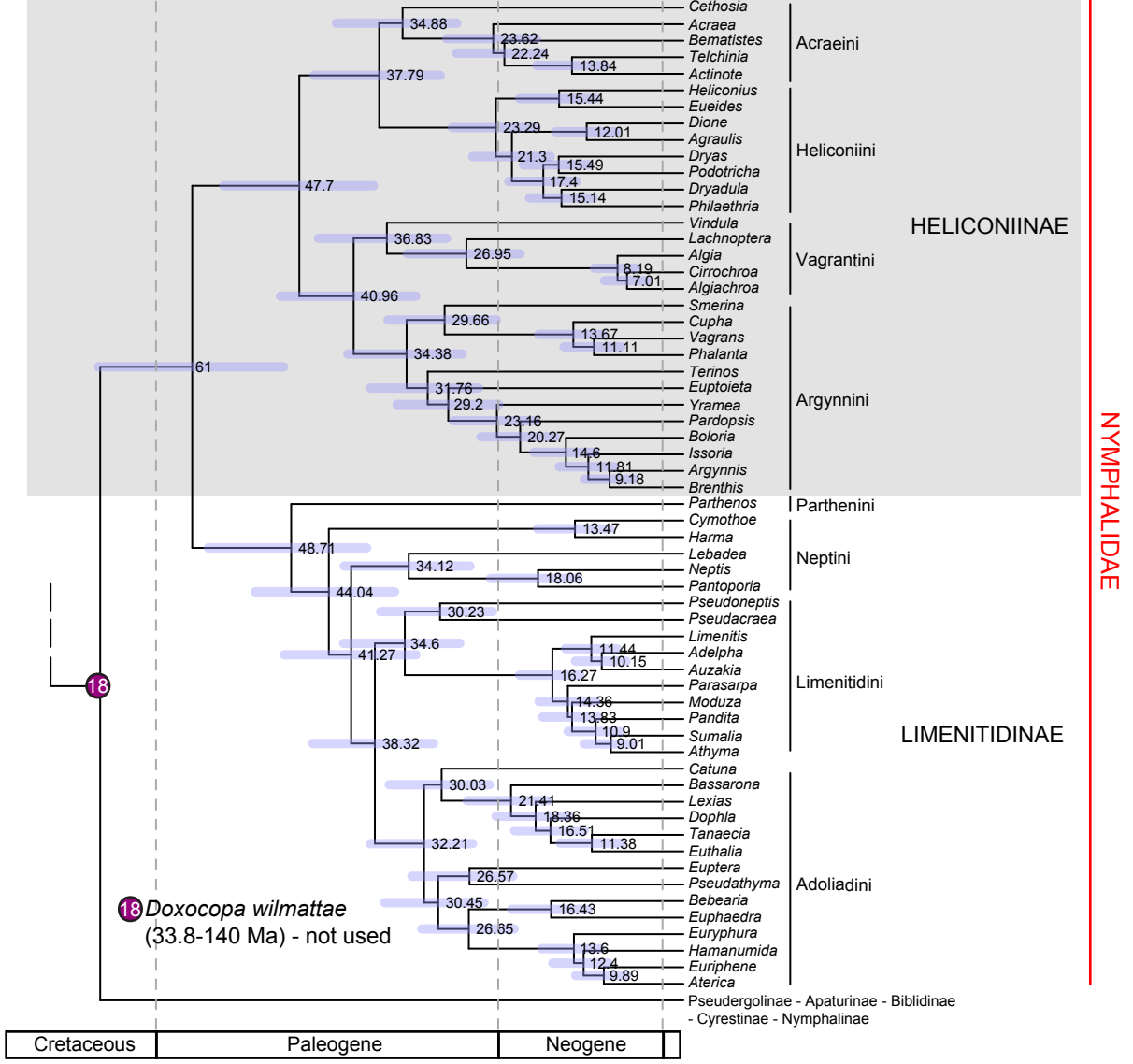

Baronia
Hypselmnestra
Parnassius
Luehdorfia
Archon
Sericinus
Teinopalpus
Zerynthia
Allancastria
Ipnicliades
Lamproptera
Graphium
Eurytides
Mimoides
Protesilaus
Protographium
Papilio
Meandrusa
Battus
Euryades
Pharmacophagus
Parides
Cressida
Losaria
Ornithoptera
Troides
Macrosoma
Macrosoma
Macrosoma
Hasora
Badamia
Coeliades
Choaspes
Burara
Bibasis
Erynnis
Gesta
Systasea
Anastrus
Mylon
Potamanaxas
Theagenes
Chiomara
Gorgythion
Camptopleura
Timochares
Helias
Eloria
Cyclogypha
Eantis
Aethilla
Achlyodes
Cabirus
Sbordonia
Pythonides
Quadrus
Zera
Charidia
Atarnes
Milanion
Epargyreus
Xenophanes
Zopyrion
Carrhenes
Systasea
Antigonus
Celaenorrhinus
Helioptetes
Pyrgus
Cyclosemia
Cornuphallus
Viola
Iliana
Pachyneuria
Sophista
Spialia
Carcharodus
Noctuana
Quleus
Pholisora
Staphylus
Orthoteixis
Myscelus
Passova
Pareloella
Tibella
Mysoria
Sarbia
Mimoniades
Lemadia
Pyrrhopyge
Yaguna
Apyrrothrix
Creoppyge
Alenia
Celaenorrhinus
Celaenorrhinus
Pseudocoladenia
Eretis
Sarangesa
Netrocoryne
Gerosis
Eagris
Calleagris
Daimio
Tagiades
Darpa
Procampta
Oligoritizium
Netrobalane
Abantis
Euschemon
Coeliades
Typhedanus
Udranomia
Tarsocentus
Dropalys
Entheus
Phanus
Hyalothyrus
Bungalotis
Salatis
Phocides
Nascus
Pharneus
Eurphrellus
Dyscophellus
Cephise
Telemiades
Polygonus
Polythrix
Chrysoplectrum
Calliades
Aguna
Conotractus
Rhodinis
Lobocla
Zestusa
Proteides
Narcosius
Urbanus
Spathilepia
Cabares
Astraptes
Autochton
Achalarus
Urbanus
Thorybes
Hesperiidae - end
Pieridae - Riodinidae - Lyaenid
Baroniini
Parnassini
Luehdorfia
Zerynthini
Leptocircini
Papilionini
Teinopalpini
Troidini
BARONIINAE
PARNASSIINAE
PAPILIONINAE
COELIADINAE
PYRGINAE
PYRRHOPYGINAE
PYRGINAE
EUSCHEMONINAE
EUDAMINAE
PAPILIONIDAE
HEDYLIDAE
HESPERIIDAE
68.45
58.91
53.14
99.19
65.25
44.51
42.22
41.26
51.9
106.46
45.68
50.33
42.99
48.53
43.82
47.19
1 Praepapilio colorado (40.2-140 Ma) - not used
2 Thaites ruminiana (23.0-140 Ma)
3 Doritites bosniaskii (5.3-140 Ma)
4 Protocoeliades kristenseni (55.6-140 Ma)
Cretaceous
Paleogene
Neogene

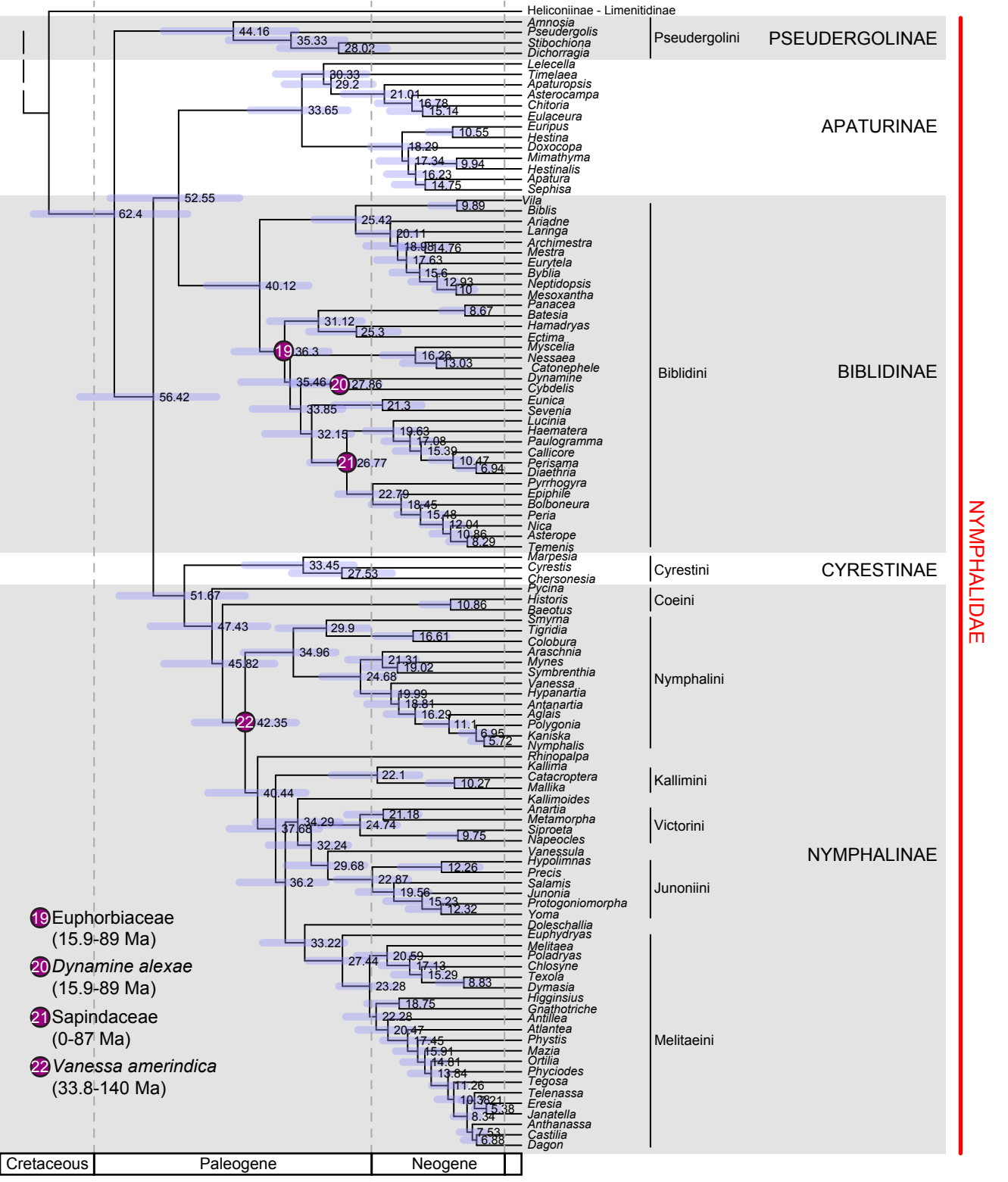

HETEROPTERINAE
TRAPEZITINAE
HESPERIINAE
HESPERIIDAE
Hesperiidae - begin
Butleria
Heteropterus
Carterocephalus
Metisella
Dalla
Dardarina
Erynna
Trapezites
Signeta
Neohesperilla
Toxidia
Oreisplanus
Hesperilla
Motasingha
Dispar
Anisynta
Antigonia
Mesodina
Sovia
Ampittia
Thoressa
Halpe
Taractrocera
Potanthus
Sumiana
Ocybadistes
Arrhenes
Cabera
Cephrenes
Telicota
Gegenes
Pardaleodes
Meza
Pyrrhyna
Platylesches
Osmodes
Gorgyra
Osphantes
Cresna
Paronymus
Teniorhinus
Paracleros
Andronymus
Gretna
Hypoleucis
Caenides
Xanthodisca
Kedestes
Tsitana
Astictopterus
Isoteinon
Chondrolepis
Zophopetes
Artitropa
Gamia
Leona
Mopala
Hidari
Pteroteinon
Monza
Semelea
Suada
Pemara
Plastingia
Suastus
Unkana
Lotongus
Zela
Gangara
Eriopota
Iambrix
Idmon
Hyarotis
Notocrypta
Ancistroides
Perichares
Orses
Zenonia
Polytremis
Iton
Caltoris
Gegenes
Pelopidas
Agathymus
Megathymus
Talides
Tromba
Pyrrhopygopsis
Cobalus
Thracides
Aides
Panoquina
Calpodes
Sallana
Thymelicus
Damisma
Copaeodes
Euphyes
Serdis
Libra
Lindra
Hansa
Thespieus
Atrytonopsis
Vacerra
Xeniades
Anatrytone
Decinea
Buzyges
Quasimellana
Ochlodes
Poanes
Stinga
Hylephila
Polites
Wallengrenia
Appia
Pompeius
Nyctelius
Conga
Ataladopedes
Pseudocopaeodes
Hesperia
Synapte
Lustinia
Racta
Molo
Asbolis
Pyrrhocalles
Anthoptus
Cortica
Ancyloxypha
Amblyscirtes
Mnasicles
Remella
Callimormus
Virga
Lerita
Vinius
Paracarystus
Niconiades
Mucia
Halotus
Sodalia
Phanes
Lucida
Cumbre
Pheraeus
Parphorus
Sturnus
W Morys
Vidius
Cymaenes
Vehilius
Papias
Mnasilus
Nastra
Yettius
Monca
Lerodea
43.58
41.4
38.42
34.53
30.59
27.4
24.19
20.64
21.74
20.57
19.22
18.2
17.54
16.25
12.96
8.33
11.97
10.43
8.16
28.67
25.18
17.35
20.51
10.89
8.24
6.69
12.67
14.11
10.74
26.63
23.58
35.79
29.37
26.33
31.59
20.3
29.56
15.71
25.04
24.06
20.49
32.83
34.68
32.1
25.52
20.5
30.52
19.01
17.37
14.61
26.82
22.04
24.77
10.58
33.6
25.53
14.43
24.14
21.67
15.7
5.25
29.02
25.11
21.04
30.88
22.75
28.79
23.98
21.84
32.73
23.72
28.92
26.12
14.59
9.68
31.78
13.5
11.9
11.26
9.71
9.01
30.02
7.54
29.24
23.59
12.07
22.08
17.3
15.33
25.4
16.2
7.81
28.56
22.62
16.64
12.19
16.52
13.69
14.62
13.49
26.19
18.76
12.65
11.04
8.02
17.86
13.65
10.85
9.09
17.1
10.44
8.15
15.75
11.11
6.89
9.58
25.55
13.6
4.29
7.13
11.58
9.84
9.07
15.66
22.68
3.84
16.79
5.19
12.76
9.7
24.24
11.87
9.1
23.1
20.48
18.44
12.46
19.87
17.22
13.55
9.63
8.27
19.18
14.62
11.31
10.49
8.53
18.15
6.95
15.57
12.31
4.59
11.09
9.57
10.63
10.26
9.69
8.71
5 Pamphilites abdita
(23.0-140 Ma)
6 Poaceae
(0-65 Ma)
Paleogene
Neogene

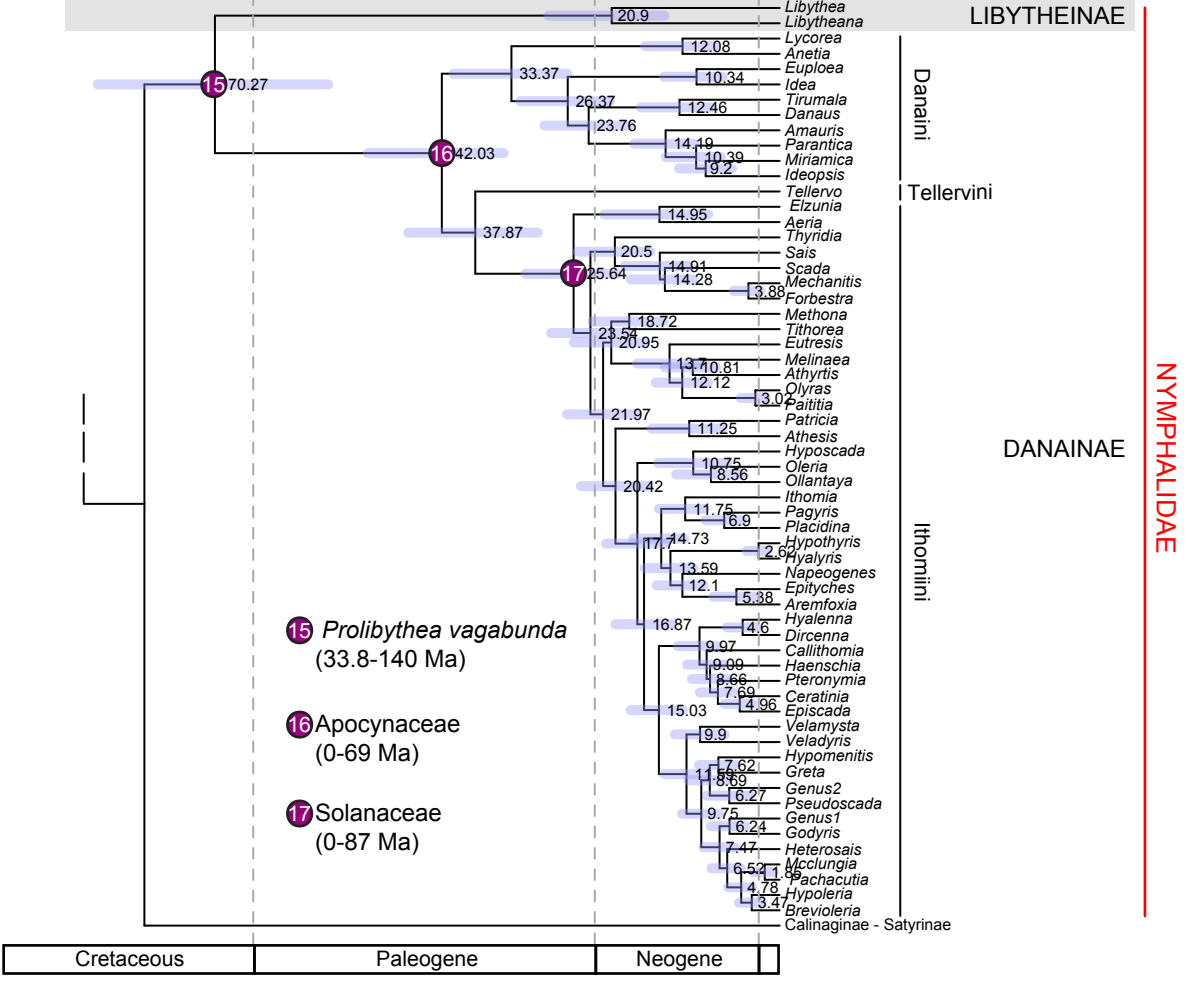

DISMORPHIINAE
PSEUDOPONTIINAE
COLIADINAE
PIERINAE
Colotini
Appiadina
Pierini
PIERIDAE
Leptidea
Pseudopieris
Moschoneura
Patia
Enantia
Lieinix
Dismorphia
Pseudopontia
Nathalis
Kricogonia
Pyrisitia
Teriocolias
Leucidia
Eurema
Gandaca
Gonepteryx
Aphrissa
Phoebis
Catopsilia
Dercas
Anteos
Zerene
Colias
Pareronia
Nepheronia
Colotis
Eronia
Ixias
Pinacopteryx
Gideona
Teracolus
Hebomoia
Elphinstonia
Anthocharis
Euchloe
Zegris
Eroessa
Mathania
Hesperocharis
Cunizza
Elodina
Leptosia
Aoa
Appias
Saletara
Dixeia
Belenois
Prioneris
Cepora
Mylothris
Leuciacria
Delias
Aporia
Melete
Pereute
Leodonta
Neophasia
Eucheira
Archonias
Catasticta
Charonias
Talbotia
Pieris
Leptophobia
Pieriballia
Perrhybris
Itaballia
Pontia
Baltia
Ascia
Ganyra
Pierphulia
Phulia
Infraphulia
Theochila
Glutophrissa
Tatochila
Riodinidae - Lycaenidae - Nymphalid
43.09
25.37
14.53
8.86
11.09
9.16
7
76.9
33.16
41.33
28.57
19.91
16.26
47.95
8
71.03
36.41
32.97
12.22
27.67
15.93
21.02
18.58
10.97
9
66.72
35.08
36.23
23.13
41.76
29
26.72
58.84
51.09
41.82
15.99
12.85
10.45
34.2
22.27
7.94
6.64
55.25
42.45
35.32
27.79
50.43
28.07
35.93
29.68
42.16
32.76
27.95
15.49
25.79
24.24
19.78
7.29
40.26
18
11.85
14.49
13.65
12
19.06
23.5
18.21
12.38
9.78
22.14
16.78
21.29
16.84
14.53
4.44
2.91
5.59
4.88
3.89
7 Fabaceae
(0-100 Ma)
8 Mylothrites pluto
(15.9-100 Ma)
9 Brassicales
(0-103 Ma)
Cretaceous
Paleogene
Neogene

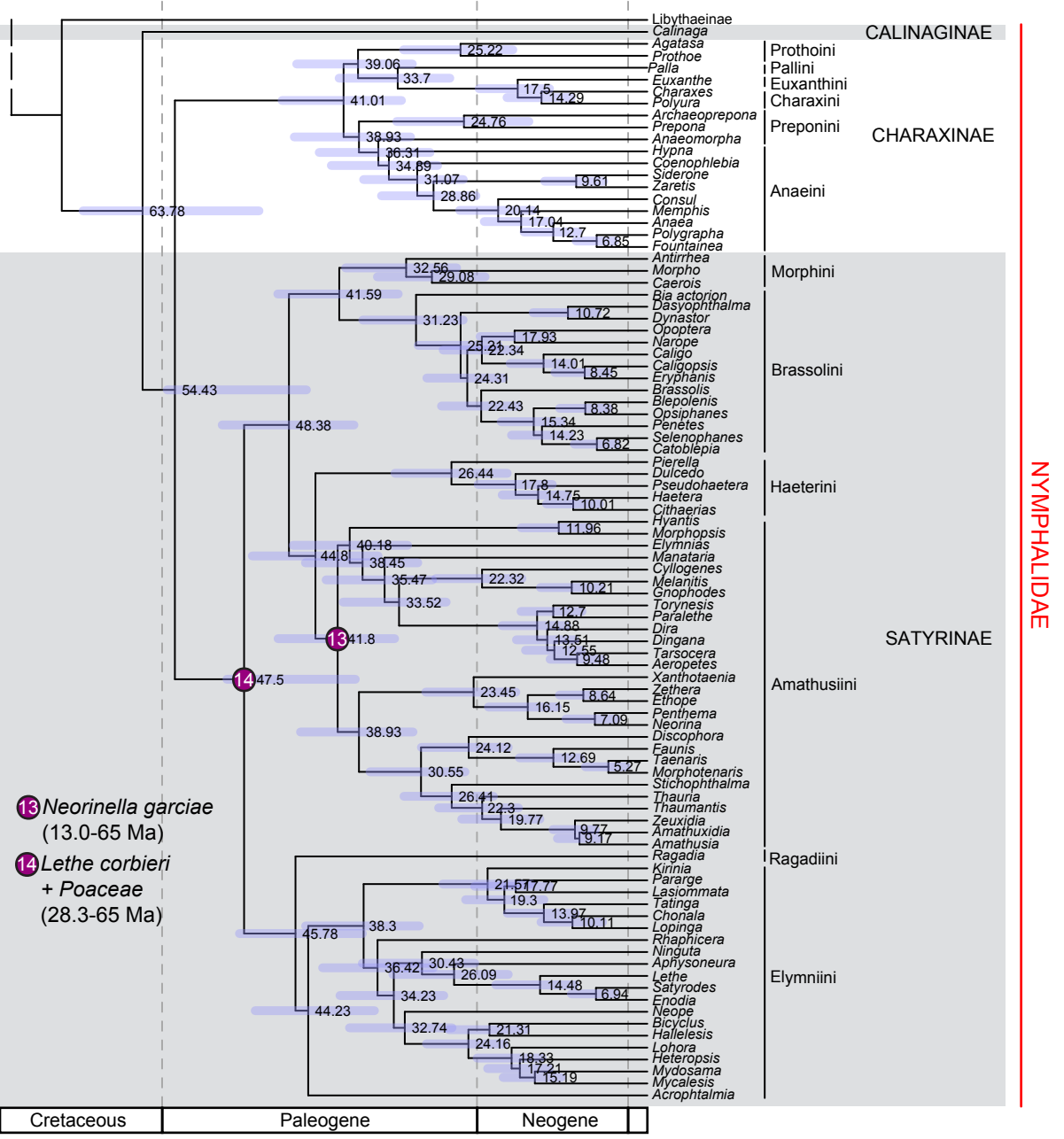

Curetis
Poritia
Baliochila
Liphyra
Miletus
Allotinus
Lycaena
Jalmenus
Lucia
Favonius
Callipsyche
Thecla
Anthene
Pithecops
Pseudonacaduba
Una
Azanus
Nacaduba
Psychonotis
Caleta
Zintha
Castalius
Catochrysops
Zizeeria
Jamides
Eicochrysops
Celastrina
Lycaenopsis
Actizera
Uranothauma
Phlyaria
Cacyreus
Lampides
Maculinea
Caerulea
Scolitantides
Glaucopsyche
Iolana
Euphilotes
Philotes
Pseudophilotes
Otnjukovia
Turanana
Theclinesthes
Famegana
Zizula
Oraidium
Euchrysops
Lepidochrysops
Leptotes
Cupido
Tongeia
Talicada
Chilades
Aricia
Lycaeides
Albulina
Lysandra
Agrodiaetus
Polyommatus
Cyclargus
Echinargus
Hemiargus
Pseudochrysops
Paralycaeides
Madeleinea
Itylos
Pseudolucia
Nabokovia
Eldoradina
Riodinidae
70.99
57.61
36.21
44.69
25.84
63.89
56.45
29.05
42.09
38.68
15.88
54.61
48.03
16.97
26.6
23.39
38.43
15.37
13.31
9.87
26.15
17.42
34.52
16.77
22.55
13.43
10.04
20.7
16.15
6.46
13.97
11.51
18.15
33.38
8.57
12.9
11.58
7.82
10.44
9.81
8.42
5.02
27.21
31.06
20.69
28.93
14.84
26.97
24.66
10.44
7.45
19.96
8.93
15.19
7.21
6.51
5.56
3.29
13.53
7.59
3.69
12.01
10.99
5.2
4.24
10.02
8.99
5.26
CURETINAE
PORITIINAE
MILETINAE
LYCAENINAE
THECLINAE
POLYOMMATINAE
LYCAENIDAE
Cretaceous
Paleogene
Neogene

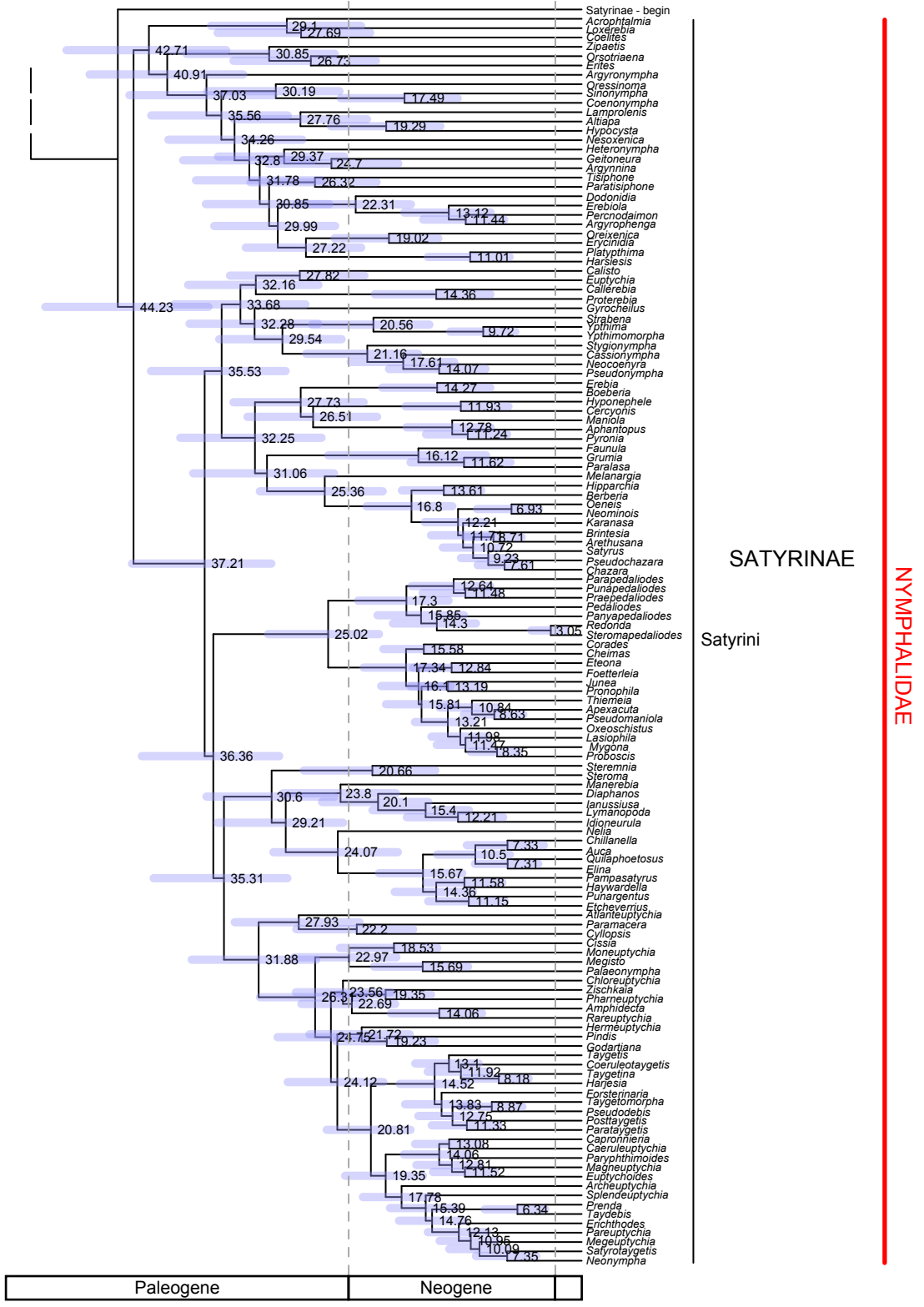

Lycaenidae
Euselasia
Afriodinia
Zemeros
Takashia
Styx
Hamearis
Euselasiini
Nemeobiini
NEMEOBIINAE
Eurybia
Alesa
Eunogyra
Leucochimona
Semomesia
Perophthalma
Mesosemia
Mesophthalma
Hyphilaria
Ionotus
Napaea
Voltinia
Ithomiola
Eurybiini
Hallonympha
Harveyope
Zabuella
Zabuella
Theope
Pseudotinea
Roeberella
Stalachtis
Protonymphidia
Nymphidium
Catocyclotes
Mycastor
Livendula
Pandemos
Zelotaea
Setabis
Calospila
Menander
Synargis
Juditha
Uraneis
Ariconias
Lemonias
Thisbe
Nymphidiini
Calydna
Echenais
Echydna
Calydnini
Sarota
Helicopis
Anteros
Argyrogrammana
Phaenochitonia
Panaropsis
Pirascca
Mesene
Mesenopsis
Stichelia
Symmachia
Helicopini
Symmachiini
Sertania
Emesis
Caria
Chamaelimnas
Barbicornis
Metacharis
Cartea
Dachetola
Baeotis
Parcella
Symatia
Pheles
Lasaia
Detritivora
Charis
Crocozona
Calephelis
Chalodeta
Notheme
Riodina
Amarynthis
Ithomeis
Rhetus
Lyropteryx
Ancyluris
Themone
Siseme
Chorinea
Panara
Melanis
Isapsis
Sertanini
Emesini
Riodinini
RIODININAE
RIODINIDAE
58.47
47.23
41.85
33.64
29.57
29.33
48.47
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19.32
13.67
16.52
14.41
36.93
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27.28
15.51
22.14
12.7
14.28
13.91
9.77
16.2
13.02
15.66
11.41
14.84
9.38
10 Rubiaceae (0-87 Ma)
11 Voltinia dramba (15.9-140 Ma)
12 Theope sp. (15.9-100 Ma)
Cretaceous
Paleogene
Neogene


Cethosia
Acraea
Bematistes
Telchinia
Actinote
Acraeini
34.88
23.62
22.24
13.84
37.79
Heliconius
Eueides
Dione
Agraulis
Dryas
Podotricha
Dryadula
Philaethria
Heliconiini
15.44
23.29
12.01
21.3
15.49
17.4
15.14
47.7
Vindula
Lachnoptera
Algia
Cirrochroa
Algiachroa
Vagrantini
HELICONIINAE
36.83
26.95
8.19
7.01
40.96
Smerina
Cupha
Vagrans
Phalanta
Terinos
Euptoieta
Yramea
Pardopsis
Boloria
Issoria
Argynnis
Brenthis
Argynnini
29.66
13.67
11.11
34.38
61
31.76
29.2
23.16
20.27
14.6
11.81
9.18
Parthenos
Parthenini
Cymothoe
Harma
Lebadea
Neptis
Pantoporia
Neptini
13.47
48.71
34.12
18.06
44.04
Pseudoneptis
Pseudacraea
Limenitis
Adelpha
Auzakia
Parasarpa
Moduza
Pandita
Sumalia
Athyma
Limenitidini
LIMENITIDINAE
30.23
34.6
41.27
11.44
10.15
16.27
14.36
13.83
10.9
9.01
38.32
18
Catuna
Bassarona
Lexias
Dophla
Tanaecia
Euthalia
Euptera
Pseudathyma
Bebearia
Euphaedra
Euryphura
Hamanumida
Euriphene
Aterica
Adoliadini
30.03
21.41
18.36
16.51
11.38
32.21
26.57
30.45
16.43
26.35
13.6
12.4
9.89
18 Doxocopa wilmattae
(33.8-140 Ma) - not used
Pseudergolinae - Apaturinae - Biblidinae
- Cyrestinae - Nymphalinae
NYMPHALIDAE
Cretaceous
Paleogene
Neogene


Heliconiinae - Limenitidinae
Amnosia
Pseudergolis
Stibochiona
Dichorragia
Pseudergolini
PSEUDERGOLINAE
Lelecella
Timelaea
Apaturopsis
Asterocampa
Chitoria
Eulaceura
Euripus
Hestina
Doxocopa
Mimathyma
Hestinalis
Apatura
Sephisa
APATURINAE
Vila
Biblis
Ariadne
Laringa
Archimestra
Mestra
Eurytela
Byblia
Neptidopsis
Mesoxantha
Panacea
Batesia
Hamadryas
Ectima
Myscelia
Nessaea
Catonephele
Dynamine
Cybdelis
Eunica
Sevenia
Lucinia
Haematera
Paulogramma
Callicore
Perisama
Diaethria
Pyrrhogyra
Epiphile
Bolboneura
Peria
Nica
Asterope
Temenis
Biblidini
BIBLIDINAE
Marpesia
Cyrestis
Chersonesia
Cyrestini
CYRESTINAE
Pycina
Historis
Baeotus
Coeini
Smyrna
Tigridia
Colobura
Araschnia
Mynes
Symbrenthia
Vanessa
Hypanartia
Antanartia
Aglais
Polygonia
Kaniska
Nymphalis
Nymphalini
Rhinopalpa
Kallima
Catacroptera
Mallika
Kallimoides
Kallimini
Anartia
Metamorpha
Siproeta
Napeocles
Victorini
Vanessula
Hypolimnas
Precis
Salamis
Junonia
Protogoniomorpha
Yoma
Doleschallia
Junoniini
NYMPHALINAE
Euphydryas
Melitaea
Poladryas
Chlosyne
Texola
Dymasia
Higginsius
Gnathotriche
Antillea
Atlantea
Phystis
Mazia
Ortilia
Phyciodes
Tegosa
Telenassa
Eresia
Janatella
Anthanassa
Castilia
Dagon
Melitaeini
NYMPHALIDAE
44.16
35.33
28.02
30.33
29.2
21.01
16.78
15.14
33.65
10.55
18.29
17.34
9.94
16.23
14.75
52.55
62.4
9.89
25.42
20.11
18.98
14.76
17.63
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40.12
8.67
31.12
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36.3
16.26
13.03
35.46
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27.86
56.42
21.3
33.85
32.15
19.63
17.08
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10.47
6.94
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26.77
22.70
18.45
15.48
12.04
10.86
8.29
33.45
27.53
51.67
10.86
47.43
29.9
16.61
34.96
45.82
21.31
19.02
24.68
19.99
18.81
16.29
11.1
6.95
5.72
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42.35
22.1
10.27
40.44
21.18
34.29
24.74
37.65
9.75
32.24
29.68
12.26
22.87
36.2
19.56
15.23
12.32
33.22
27.44
20.59
17.13
15.29
8.83
23.28
18.75
22.28
20.47
17.45
15.91
14.81
13.64
11.26
10
9.21
5.38
8.34
7.53
6.88
19 Euphorbiaceae
(15.9-89 Ma)
20 Dynamine alexae
(15.9-89 Ma)
21 Sapindaceae
(0-87 Ma)
22 Vanessa amerindica
(33.8-140 Ma)
Cretaceous
Paleogene
Neogene


LIBYTHEINAE
Libythea
Libytheana
20.9
Danainae
Danaini
Lycorea
Anetia
Euploea
Idea
Tirumala
Danaus
Amauris
Parantica
Miriamica
Ideopsis
12.08
10.34
12.46
14.19
10.39
9.2
33.37
26.37
23.76
Tellervini
Tellervo
Elzunia
Ithomiini
Aeria
Thyridia
Sais
Scada
Mechanitis
Forbestra
Methona
Tithorea
Eutresis
Melinaea
Athyrtis
Olyras
Paititia
Patricia
Athesis
Hyposcada
Oleria
Ollantaya
Ithomia
Pagyris
Placidina
Hypothyris
Hyalyris
Napeogenes
Epityches
Aremfoxia
Hyalenna
Dircenna
Callithomia
Haenschia
Pteronymia
Ceratinia
Episcada
Velamysta
Veladyris
Hypomenitis
Greta
Genus2
Pseudoscada
Genus1
Godyris
Heterosais
Mcclungia
Pachacutia
Hypoleria
Brevioleria
14.95
37.87
20.5
14.91
14.28
3.88
25.64
18.72
23.54
20.95
13.7
10.81
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14.73
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13.59
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16.87
4.6
9.97
9.09
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7.69
4.96
15.03
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7.62
11.
8.59
6.27
9.75
6.24
7.47
6.52
1.86
4.78
3.47
15 70.27
16 42.03
17
15 Prolibythea vagabunda
(33.8-140 Ma)
16 Apocynaceae
(0-69 Ma)
17 Solanaceae
(0-87 Ma)
Calinaginae - Satyrinae
DANAINAE
NYMPHALIDAE
Cretaceous
Paleogene
Neogene


Libythaeinae
Calinaga
Agatasa
Prothoe
Palla
Euxanthe
Charaxes
Polyura
Archaeoprepona
Prepona
Anaeomorpha
Hypna
Coenophlebia
Siderone
Zaretis
Consul
Memphis
Anaea
Polygrapha
Fountainea
Antirrhea
Morpho
Caerois
Bia actorion
Dasyophthalma
Dynastor
Opoptera
Narope
Caligo
Caligopsis
Eryphanis
Brassolis
Blepolenis
Opsiphanes
Penetes
Selenophanes
Catoblepia
Pierella
Dulcedo
Pseudohaetera
Haetera
Cithaerias
Hyantis
Morphopsis
Elymnias
Manataria
Cyllogenes
Melanitis
Gnophodes
Torynesis
Paralethe
Dira
Dingana
Tarsocera
Aeropetes
Xanthotaenia
Zethera
Ethope
Penthema
Neorina
Discophora
Faunis
Taenaris
Morphotenaris
Stichophthalma
Thauria
Thaumantis
Zeuxidia
Amathuxidia
Amathusia
Ragadia
Kirinia
Pararge
Lasiommata
Tatinga
Chonala
Lopinga
Rhaphicera
Ninguta
Aphysoneura
Lethe
Satyrodes
Enodia
Neope
Bicyclus
Hallelesis
Lohora
Heteropsis
Mydosama
Mycalesis
Acrophtalmia
25.22
39.06
33.7
17.5
14.29
41.01
24.76
38.93
36.31
34.89
31.07
9.61
28.86
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CALINAGINAE
CHARAXINAE
Prothoini
Pallini
Euxanthini
Charaxini
Preponini
Anaeini
Morphini
Brassolini
Haeterini
SATYRINAE
Amathusiini
Ragadiini
Elymniini
NYMPHALIDAE
13 Neorinella garciae
(13.0-65 Ma)
14 Lethe corbieri
+ Poaceae
(28.3-65 Ma)
Cretaceous
Paleogene
Neogene


Satyrinae - begin
Acrophtalmia
Loxerebia
Coelites
Zipaetis
Orsotriaena
Erites
Argyronympha
Oressinoma
Sinonympha
Coenonympha
Lamprolenis
Altiapa
Hypocysta
Nesoxenica
Heteronympha
Geitoneura
Argynnina
Tisiphone
Paratisiphone
Dodonidia
Erebiola
Percnodaimon
Argyrophenga
Oreixenica
Erycinidia
Platythima
Harsiesis
Calisto
Euptychia
Callerebia
Proterebia
Gyrocheilus
Strabena
Ypthima
Ypthimorpha
Stygionympha
Cassionympha
Neocoenyra
Pseudonympha
Erebia
Boeberia
Hyponephele
Cercyonis
Maniola
Aphantopus
Pyronia
Faunula
Grumia
Paralasa
Melanargia
Hipparchia
Berberia
Oeneis
Neominois
Karanasa
Brintesia
Arethusana
Satyrus
Pseudochazara
Chazara
Parapedaliodes
Punapedaliodes
Praepedaliodes
Pedaliodes
Panyapedaliodes
Redonda
Steromapedaliodes
Corades
Cheimas
Eteona
Foetterleia
Junea
Pronophila
Thiemeia
Apexacuta
Pseudomaniola
Oxeoschistus
Lasiophila
Mygona
Proboscis
Steremnia
Steroma
Manerebia
Diaphanos
Ianussiusa
Lymanopoda
Idioneurula
Nelia
Chillanella
Auca
Quilaphoetosus
Elina
Pampasatyrus
Haywardella
Punargentus
Etcheverrius
Atlanteuptychia
Paramacera
Cyllopsis
Cissia
Moneuptychia
Megisto
Palaeonympha
Chloreuptychia
Zischkaia
Pharneuptychia
Amphidecta
Rareuptychia
Hermeuptychia
Pindis
Godartiana
Taygetis
Coeruleotaygetis
Taygetina
Harjesia
Forsterinaria
Taygetomorpha
Pseudodebis
Posttaygetis
Parataygetis
Capronnieria
Caeruleuptychia
Paryphthimoides
Magneuptychia
Euptychoides
Archeuptychia
Splendeuptychia
Prenda
Taydebis
Erichthodes
Pareuptychia
Megeuptychia
Satyrotaygetis
Neonympha
29.1
27.69
42.71
30.85
26.73
40.91
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SATYRINAE
Satyrini
NYMPHALIDAE
Paleogene
Neogene