



BIOLOGICAL CATALOGUE OF NORTH AMERICAN BUTTERFLIES

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The 2008 catalogue of U.S.-Canada butterflies by J. Pelham is an outstanding reference on the names given to those butterflies, and their types and type localities. However, it is a work of ICZN nomenclature, and emphasizes technical details of types and names rather than their biological importance. Thus, many of the names are given the wrong status as synonyms or subspecies or species, the degree of distinctiveness of these names cannot be determined, many names are arranged by geography rather than by biological relationship to other names, and important biological forms are unrecognizably lost in lengthy lists of ICZN-criteria synonyms. So this is a good opportunity to present the first "Biological Catalogue" of North American butterflies.

What is a Biological Catalogue? It is a list of the biological creatures of an area that emphasizes biology first, nomenclature second. The goal is to define the biological units actually existing in nature, and correctly present their status, and then apply the existing names to those units in a way that best represents their biological status. Here are examples of the differences between biology and nomenclature: 1) In a list of names, all the subspecies names within a species are given equal importance, even if some are very weak near-synonyms and others are very distinct almost-species. In a biological catalogue, the subspecies are nested—less-distinctive ssp. are subordinated to more-distinct ssp.—to show their distinctiveness. This distinction is important even politically, as the U.S. government has declared some taxa to be "Endangered Species" that are really barely-valid weak subspecies, and are not "species" at all. (Opposition to the law and depletion of government money has nearly frozen the Endangered Species list, so now there is little similarity between a list of the taxa most deserving of preservation and the list of government Endangered/Threatened Species.) 2) In a list of names, all the species are given equal status, as if they are all equally distinct. In the real world of biology, names were applied rather randomly to natural taxa as a result of historical & geographical accidents of discovery, so some named organisms are weakly distinct or should not have been named at all. About 70% of the names in catalogues are synonyms (95% in Europe). And in some cases, some species are not very distinct from others because those closely-related organisms behave like a pretzel, interbreeding at certain places where the pretzel arms join, and remaining distinct at other places where the pretzel arms do not contact each other, so in a biological catalogue the whole pretzel is called a superspecies (called a "stenchospecies" here, expressing the disappointment lepidopterists feel that those animals fail to fit the desired neat problem-free species concept) and its components that do not hybridize in some regions are called semispecies ("bookkeeping species" here, because local lepidopterists like to treat these as species in their local books). 3) In ICZN nomenclature, all names below the genus category are sorted into available "subspecific" names (validly proposed named for species and subspecies with various requirements for definition and designation of types and museum deposition of types etc.) and unavailable "infrasubspecific" names (proposed for forms or varieties [depending on the date published and technical details of the original description—recent form names are just listed in synonymy or are called *nomina nuda*] or aberrations etc.), and the latter names cannot be used for subspecies or species. Biologically, this sorting is often wrong. Some "subspecies"-status names are really below the status of a biological subspecies (they are forms or aberrations), and some "infrasubspecific" names actually apply to subspecies or even species. Some of those unavailable form names are quite important, even more important than many subspecies. For instance, form *alba* is the white albino female form frequent in *Colias* butterflies, and studies have shown that those albino females produce more eggs, because they reroute the nitrogen that would have gone into producing yellow/orange pigment to adorn the wings like males, into growing more eggs instead, a valuable adaptation in cold inhospitable environments. Perhaps one of these years someone may summon enough energy to rear *Pyrgus communis/albescens*, and just may find that a "species" is really just a valval polymorph. Spring forms are usually very useful for thermoregulation in the cold temperatures of spring. In *Phyciodes*, in a biological catalogue the form *marcia* has darker and more mottled unh evidently to aid thermoregulation in spring, whereas in a catalogue of names *marcia* is a synonym of a subspecies and can't be used at all for describing thermoregulation. 4) Nomenclaturally, aberrations such as *dobra* (*Thorybes*) or *youngi* (*Boloria*) or *orcus* (*Glaucopteryx*) can satisfy ICZN rules for the naming of a subspecies and be listed as ssp. in a catalogue of names, but

in a biological catalogue they must be demoted as aberrations of little interest. 5) In a catalogue of ICZN names, a cline can have one or two or three or even five or more names, as there is no ICZN rule to limit them. But in a biological catalogue, a cline should have at most two names—one for each end of the cline—which causes problems in applying names to the cline, as the existing names were a result of historical accidents of discovery, so statistically speaking most names are likely to be positioned toward the central regions of the cline rather than at the very end, and the oldest names are often not closest to the ends. When the names nearest the ends are not the oldest names, in a biological catalogue we have to use “pretend type localities” and “jumping subspecies” to apply just two names. For example, these clines have three names: *aeahaja-hilda-aureolus*, *altasierra-palla-eremita*, *oetus-pallescens-alkalorum*, *florus-castro-sangremar*, *massasoit-hughi-chermocki*. It is difficult to nomenclaturally reduce three names such as *aeahaja-hilda-aureolus* to two in the ICZN code, because the middle name *hilda* is older than the name at the end such as *aureolus* that we want to use (because it has the orangest females) but we can’t use because it is a newer name and the principle of priority in the ICZN Code requires the use of older names. So, we just sink the newer name *aureolus* at the end of the cline to the older name *hilda* toward the middle, a process called “jumping subspecies”, as the middle name *hilda* jumps the end name *aureolus* and gets crowned queen *hilda* in a game of nomenclatural checkers; so we now use the name *hilda* for the orangest bugs, and the “pretend type locality” of *hilda* gets assigned the locality of the end name taxon *aureolus*. This sounds absurd (like Alice in Wonderland and her psychedelic mushroom), and it is; but we are forced to do it in order to apply two names to the cline without violating the ICZN rule of priority. 6) Names proposed in or near hybrid/intergradation zones have difficulties in the ICZN code. For example *damei* (*Cercyonis*) is a name applicable to a subspecies, and occurs in an intergrade zone, and would eliminate some names that are desirable to keep because it is older than them, but occurs as a widespread form so it applies to several bookkeeping species. In *Papilio* (N.S.) #19 I kept *damei* the subspecies name in one subspecies, where it is younger than a desirable name so would not eliminate that name, and I invented *damei* the infrasubspecific form in another subspecies and in another bookkeeping species, where a subspecies name *damei* would kill off desirable names we want to keep but an infrasubspecific form name *damei* would cause no harm. This trick works to make the name *damei* usable in all three taxa yet keeps it from eliminating valuable ssp. names; this trick can be called a “schizophrenic taxon”, as the name *damei* has a “split personality”, used in several species/subspecies. 7) A catalogue of names is littered with ancient names of aberrations, homonyms, and synonyms that will rarely if ever be used again. And when a nomenclaturist rediscovers an older name that applies to a critter long-known under another name, he is essentially forced by the ICZN to dredge it up and use it to replace the traditional name (only with extraordinary and unlikely efforts petitioning the ICZN can this process be overruled). A biological catalogue can and should just ignore these worthless names while noting that a petition for their suppression is needed. 8) A catalogue of names tries to obey every ICZN article to the letter, even if it means using old dubious obscure names that have numerous problems (toxotaxa). So a Catalogue of Names is supposed to retain the use of names that are in the process of being suppressed by petition to the ICZN. But biologists are totally disgusted with toxotaxa and the use of the principle of priority to replace good names with bad. Biologists are horrified at the too-frequent resurrection of ancient forgotten names to replace perfectly good often-used names, causing endless confusion (examples are *dumetorum*, *hyllus*, *ruricola*, *castro*, *oregonia*, *balder*, ad nauseum). Therefore, in a Biological Catalogue there should be little tolerance for nomenclatural garbage, so if some name has problems regarding identity or types or type locality etc. that confuse its application—a toxotaxon—it should just be ignored, and only resurrected later if these problems are resolved and ICZN petitions to suppress it fail. 9) A biological catalogue attempts to present only scientific truth, as science is the process of discovering truth. In contrast, a catalogue of ICZN names forces the perpetuation of scientific lies, in the form of inappropriate misleading names such as the name *Plebejus lupini*. That butterfly’s larvae and adults do not go near *Lupinus*, so the name of that species is a blatant lie. Yet the ICZN principle of priority forces its use, in perpetuity, in a horrendous violation of the scientific method and common sense. Thanks to the ICZN, nomenclatural catalogues can never correct this lie. But wait, there is hope. This Biological Catalogue introduces the principle of the *Lapsus Contrarius*, a simple emendation that negates such lies.

A biological catalogue attempts to obey ICZN rules where possible, but emphasizes biology first. Sometimes some trickery may be needed to make those names apply reasonably well to the actual biological units in nature, including the use of form names not regulated by the ICZN (infrasubspecific names or *nomina nuda*). Of course, the best way to apply names to real biological units would be to just ignore ICZN rules and propose new appropriate names for the problem taxa, to best fit their biological status. Maybe in several decades the ICZN rules will incorporate special articles that might make it possible to bypass the principle of priority in special cases to make the names better describe nature. It must be emphasized that the ICZN Code regulates names, using an archaic system started in the 1700s, and has nothing to do with biology, and may not survive in its current archaic state much longer, because DNA-taxonomists and geneticists are belittling the system and calling the traditional species “typological”, and traditional taxonomists are not being hired. In a decade or two when most traditional taxonomists retire or die, big changes will happen.

In this biological catalogue, I list only the names, and their type localities, because those are the only parts of a catalogue of names that have biological value. The types can be ignored. The holotype/lectotype/neotype of a biological taxon can be abnormal, or can be just a leg without a body, or a plaster cast, or a pupal shell, and still be nomenclaturally valid, because only the characterization of the population at the type locality is important. To assign a

population to a subspecies name, we must know the characteristics of the named population. (This biological catalogue assumes that the populations of butterflies at the TL have been properly matched by the Miller/Brown and now the Pelham Catalogue [with corrections of it in *Papilio* {New Series} #19] to the type specimens those populations are purported to have produced.)

Each type locality (TL) listed below is the locality of the holotype, lectotype, or neotype, because the ICZN Code states that the TL is the locality of the holotype, lectotype, or neotype, whichever one of the three has been designated for that taxon. If that type has a vague or absent locality label, or the taxon has only syntypes from multiple localities, authors sometimes defined several different type localities. For those taxa with multiple type localities, the TL listed is the best final determination in the Pelham Catalogue, except for those dozens of TL corrections made in *Papilio* (New Series) #19.

I do not list authors of scientific names here, or the dates they were named or the book/journal in which they were published, as that information has no biological importance. By the way, there have been many shenanigans by authors in the process of naming and cataloging bugs. Some people seem to name critters—sometimes as many as they can—just to try to achieve fame (megalomania has possessed some lepidopterists, who think that all the butterflies belong to them). Some people have provided specimens to others, in exchange for the recipient naming the bug after the donor. Some people name taxa after some other person, as a way of courting favor (praise or financial support), without consideration of the appropriateness of the name for that bug. Often that person whose name is now applied to the bug is totally unknown to the entomological community, as the person is merely a spouse, or friend, or just a roommate, etc., while good appropriate names are ignored. Rarely an author will back-date his publication in order to claim authorship of a bug; for instance Herman Strecker backdated a publication naming *Cercyonis hoffmani*—from the same collected series of the bug named *wheeleri* by W. H. Edwards—in order to claim authorship, but his trickery was caught by his referring to a later paper in the *hoffmani* paper (see note 639 in Miller/Brown catalogue/checklist). Some people have the tendency—unconsciously perhaps—to synonymize bugs named by competitors, just out of spite (*Papilio* [New Series] #12 demonstrates such a case in someone’s attempt to synonymize the name *pseudosamuelis* to *melissa*). These shenanigans and more (for example, Herbert Morrison deliberately falsified localities of numerous collected specimens; and Herman Strecker never returned borrowed specimens and should have been imprisoned for felony theft) have occurred in North American butterflies. (These shenanigans occur worldwide among all kinds of creatures, and are tolerated by the ICZN. For instance a Denver newspaper wrote that a herpetologist recently named the world’s smallest snake after his obscure wife and then claimed to have “discovered” it, thereby alienating a considerable portion of the entire population of Barbados who were already familiar with the snake they considered to be theirs.) Maybe assigning authorship to ICZN names provides some people the ego-boosting incentive to do taxonomic work, which they otherwise might not do, which helps biology. But these pathetic authorship shenanigans do not concern us here, and can just be partially ignored in a biological catalogue, by ignoring the authors of the names (unfortunately we are stuck with the bad names that they often apply to the taxa).

Some people are lumpers, and some are splitters. Many decisions of status are not clear-cut, as two allopatric taxa may be treated as species by some people based on their opinion that they are “different enough” to be called species, or are equivalent in magnitude of difference to other species pairs currently treated as species (a process of circular reasoning divorced from objective criteria that allows splitting to relentlessly spread across all taxa) while other people may treat them as just subspecies. I try to use the “biological species concept”, so if two bugs seem to interbreed or hybridize extensively I tend to lump them, and I will even lump sympatric allochronic taxa if they are similar enough, because allochrony does not allow a field test of reproductive isolation. A few comments justifying the assigned status of species or subspecies are given below, but to avoid repetition I mostly use the status assigned to problematic names in *Papilio* (New Series) #19 which gives reasons for the status assigned. For some tropical skippers etc. I have not had the time to find and read obscure papers to judge whether taxa have been split into several species for good reasons or just split because of a highly-split species concept, so an alternate species name is given in parentheses. Progress marches on, and lumping versus splitting will always be with us, and opinions change with time. In *Papilio glaucus*, I have always thought that *canadensis* & *rutulus* belong to *P. glaucus* because they interbreed extensively. Most people disagree and just ignore the extensive intergradation, but the latest research shows that there is no reproductive isolation in the *glaucus-canadensis* blend zone (Donovan & Scriber *J. Lep. Soc.* 57:25-35; Scriber & Lederhouse *JRL* 27:222-232), and during the last decade’s warming trend in Michigan some *glaucus* genes have traveled north more than 300 km into *canadensis*, leaving their “species” behind (very difficult to do with real species, which are able to retain their genes), and a new “hybrid swarm” in the Battenkill Valley in E N.Y. is similar to the hybrid swarm *P. glaucus appalachiensis*, as both swarms have taken genes from both *canadensis* & *glaucus*, and continue to exist merely because they have only one obligate-diapausing allochronic flight between the first two generations of nearby *glaucus* (J. Scriber & G. Ordning 2005, *Entom. Exp. et Applicata* 115:247-263)(see also J. Scriber [*J. Res. Lepid.* 27:96-103 & 27:222-232 & *Oecologia* 71:94-103]; Tyler, Brown, & Wilson [1994, *Swallowtail Butterflies of the Americas*]; J. Scott & J. Shepard [*Pan-Pac. Ent.* 52:23-28, which demonstrates intergradation in BC]; L. Brower [*Evolution* 13:40-63, which demonstrates intergradation in Black Hills]).

North America here means U.S. and Canada. The U.S-Mexican border is a historical/military accident of zero significance in biogeography; however it would be too much work to try to separate the Mexican fauna into temperate and tropical faunas, as not enough is known, and the separation would be difficult as hundreds of species transcend the boreal/tropical boundary. (Additionally, the Mexicans have set up financial and legal “permit” barriers to prevent foreigners from studying their fauna).

The goal in a biological catalogue is to emphasize biology over nomenclature, which hopefully means using names that are appropriate, or at least are not inappropriate or misleading. As we have seen, the principle of priority is often an impediment to applying scientific names properly to biological units, and prevents the removal of inappropriate misleading (lying) names. One way to get rid of the principle of priority is to ignore scientific names and use just common names, as most birders have done.

Common names can be changed to make them appropriate, so misleading inappropriate names can just be removed. Because of this flexibility, common names have the potential to better reflect real biological relationships than scientific names, provided that people actually use appropriate names and correct the inappropriate misleading common names. So, perhaps common names should be part of a biological catalogue. Unfortunately the users of common names seem reluctant to replace misleading common names, and seem reluctant to replace bad names with more appropriate names. The common names that should be used are names that have been widely accepted, except the misleading inappropriate ones must be discarded and replaced. Scott (1993; J. Lepid. Soc. 47:170-171) reviewed a book on common names of N.A. butterflies (Common Names of N.A. Butt., ed. Jacqueline Miller, Smithsonian Inst. Press, 177 pp.) and noted numerous inappropriate names. He wrote “Common names should be appropriate names for the common person; they should not be the most common error.” So, a list of common names—inappropriate names deleted and corrected—is provided at the end of this biological catalogue.

Scientific names, in contrast, cannot be changed (at least not now under ICZN rules), even though they are biologically inappropriate or misleading. Many names are grossly misleading. However, one name is so horribly misleading and inappropriate that it cannot be tolerated. That name is *Plebejus lupini*, whose larvae & adults have nothing to do with *Lupinus* plants. I and others have been ranting against that name for decades. *Lupini* is a blazing beacon of badness.

Obviously, we need a fix for inappropriate misleading names, a fix that is applicable to all such names. The best fix for inappropriate misleading scientific names seems to be a deliberate misspelling that works on all such names—a **LAPSUS CONTRARIUS**—by changing the spelling a bit to fix the horrible error. **To form the lapsus contrarius to fix any misleading name, just add a- or an- to the front of the name, and the offensive meaning is negated: a- is added to names starting with a consonant; an- is usually added to names starting with a vowel. If that prefix creates a homonym, the prefix anti- should be used.** For example, I have deliberately emended the name *lupini* to *alupini*, by using the prefix a- (the prefix meaning not-, for example amorphous, apetalous, anhydrous, etc., which mean without form, lacking petals, lacking water), so *alupini* now means NOT-lupini. A Biological Catalogue must treat biology first, nomenclature second, so gross biological errors cannot be tolerated. The lapsus contrarius is new territory of course, as it is not found in the ICZN Code which currently requires the retention of inappropriate misleading names, so the nomenclatural pedants will be completely opposed to it. But the ICZN Code definitely needs a rule or procedure that would allow grossly inappropriate names to be changed, and the lapsus contrarius is the only possible universally-applicable workable solution that I see now. Its time will come. During the evolution of biological creatures, behavior (such as swimming) changes first, and structural evolution (such as flippers) follows. When enough taxonomists change their behavior and reject inappropriate names, a rule permitting their negation or removal will soon be incorporated into the ICZN code.

The Biological Catalogue has an exciting future. Being founded in biology rather than in nomenclature, it attempts to crawl out of the old-name ICZN sewer, and closely track scientific progress. Will the biological catalogue morph into a presentation of DNA relationships, restrained a bit by presumed reproductive isolation? Will it become a summary of DNA fingerprinting results? Will ICZN dictates finally just be ignored? We shall see. But probably none of this will matter, as the human population explosion and the end of cheap oil and the devastation of forests and agricultural soil and water supplies and fisheries and global warming will evidently cause massive starvation and chaos and the collapse of our resource-wasting civilization along with the death of most biota by some time around mid-century (2050).

Abbreviations: TL=type locality. = means the following named taxon is a synonym or is so similar that it cannot be distinguished by the ordinary person. => means that the following name is a synonym, but is different enough that it might be a valid weak subspecies to some people, or is intermediate between two other named ssp. thus is invalid, or was suppressed by a jumping subspecies in a 3-name cline. > means that the subspecies is weaker and belongs to the group of subspecies named just above it. >>means that the subspecies is even weaker and is nested in a group that is in turn nested in another >group of ssp. “Stenchospecies”=superspecies. “Bookkeeping species”=semispecies.

Hesperioidea, Hesperidae, Eudaminae

- Phocides pigmalion okeechobee* TL Marco Is., Collier Co. Fla.
Phocides belus TL Mex.
Phocides polybius lilea TL near Vera Cruz, Veracruz, Mex.
Proteides mercurius mercurius TL French Guiana
Proteides mercurius sanantonio TL Cuba
Epargyreus zestos zestos TL "Suriname"
Epargyreus clarus clarus TL Dayton, Rockingham Co. Va.
>*Epargyreus clarus huachuca* TL Huachuca Mts., Cochise Co. Ariz.; =*profugus* TL Virgin Mts., Clark Co. Nev.
>*Epargyreus clarus californicus* TL China Flat, El Dorado Co. Calif.
Epargyreus exadeus cruza TL Cordova, Veracruz, Mex.
Polygonus leo arizonensis TL Florence, Pima Co. Ariz.
Polygonus leo histrio TL "Panama"
Polygonus savigny savigny TL Antilles; =*manueli* TL New Bremen, Santa Catharina, Brasil
Chioides (catillus?) albofasciatus TL Polochic Valley, Guatemala
Chioides zilpa TL Cartago, Costa Rica
Typhedanus undulatus TL?
Polythrix mexicanus TL 7 mi. S Valles, SLP, Mex.
Polythrix octomaculata TL Suriname
Aguna asander TL Tefe, Brasil
Aguna metophis TL Brasil
Aguna claxon TL Atoyac, Veracruz, Mex.
Zestusa dorus TL Mt. Graham, Graham Mts., Graham Co. Ariz.
Codatractus alcaeus alcaeus TL Nicaragua
Codatractus arizonensis TL Baboquivari Mts., Pima Co. Ariz.
Codatractus valeriana TL Mex.; =*mysie* TL Patagonia Mts., Santa Cruz Co., Ariz.
Urbanus proteus proteus TL Cherrypoint, Craven Co. NC?
Urbanus belli TL Salta, Argentina
Urbanus pronus TL Ambato, Ecuador
Urbanus esmeraldus TL Villa Nova, Amazon
Urbanus dorantes dorantes TL Suriname
Urbanus teleus TL?
Urbanus tanna TL Santa Rita, Cauca River, Colombia
Urbanus simplicius TL Suriname
Urbanus procne TL Brasil
Urbanus doryssus doryssus TL Bahia, Brasil
Astraptus fulgurator azul TL near Vera Cruz, Veracruz, Mex.
Astraptus egregius egregius TL?
Astraptus alardus latia TL Costa Rica
Astraptus alector hopfferi TL South America; =*gilberti* TL 7 mi. S Valles, San Luis Potosi, Mex.
Astraptus anaphus annetta TL Tres Rios, Costa Rica
Autochton cellus TL Georgia
Autochton pseudocellus TL Ramsey Can., Huachuca Mts., Cochise Co. Ariz.
Autochton cincta TL Oaxaca, Mex.
Achalarus lyciades TL Georgia
Achalarus casica TL?
Achalarus albociliatus albociliatus TL Colombia
Achalarus toxus TL Mex.
Achalarus (Thessia) jalapus TL Jalapa, Veracruz, Mex.
Thorybes drusius TL So. Ariz.
Thorybes bathyllus TL Burke Co. Georgia
Thorybes pylades pylades TL Mass.; =*indistinctus* TL Laguna Mts., San Diego Co. Cal.
Thorybes pylades albosuffusa TL Fort Davis, Jeff Davis Co. Tex.
Thorybes confusus TL Tampa, Fla.
Thorybes diversus TL Plumas Co. Calif.
Thorybes mexicana mexicana TL Mex.; =*dobra* TL Fort Grant, Pinaleño Mts., Graham Co. Ariz.; =*nevada* TL Sierra Nevada, Calif.
Thorybes mexicana aemilia TL Fort Klamath, Klamath Co. Ore.
Thorybes mexicana blanca TL Crooked Crk. Lab, White Mts., Calif.

Cabares potrillo potrillo TL Cuba
Spathilepia clonius TL Suriname
Cogia hippalus hippalus TL Tucson, Pima Co. Ariz.
Cogia outis TL Round Mtn., Blanco Co. Tex.
Cogia caicus moschus TL Fort Grant, Pinaleño Mts., Graham Co. Ariz.
Cogia calchas TL Rio de Janeiro, Brasil

Hesperiidae, Pyrginae, Pyrrhopygini

Apyrrothrix araxes arizonae TL Fort Grant, Pinaleño Mts., Graham Co. Ariz.

Hesperiidae, Pyrginae, Celaenorrhinini

Celaenorrhinus fritzgaertneri TL Volcan de San Miguel, El Salvador
Celaenorrhinus stallingsi TL Monterrey, Nuevo Leon, Mex.

Hesperiidae, Pyrginae, Carcharodini

Arteurotia tractipennis tractipennis TL Cartago, Costa Rica
Nisoniades rubescens TL Suriname
Pellicia arina TL Atoyac, Veracruz, Mex.
Pellicia dimidiata dimidiata TL. Mex.
Windia windi TL Salada, Colima, Mex.
Noctuana stator TL Mex.
Bolla brennus brennus TL Volcan de Chiriqui, Panama
Bolla clytius TL Tres Marias Is., Nayarit, Mex.
Staphylus ceos TL Fort Grant, Pinaleño Mts., Graham Co. Ariz.
Staphylus mazans mazans TL near Vera Cruz, Veracruz, Mex.
Staphylus hayhurstii TL vic. Sedalia, Missouri
Pholisora catullus TL?
Pholisora mejicanus TL near Vera Cruz, Veracruz, Mex.
Hesperopsis libya libya TL Littlefield, Mohave Co. Ariz.; =>*joaquina* TL McKittrick, Kern Co. Calif.
Hesperopsis libya lena TL Montana; =*confertiblanca* TL N Montrose, Montrose Co. Colo.
Hesperopsis alpheus alpheus TL Colfax Co., New Mex.; =*oricus* TL Carson Valley, Douglas Co. Nev.
Hesperopsis alpheus texana TL Boca Chica, Cameron Co. Tex.
Hesperopsis alpheus graciaelae TL Bennett Wash., near Parker Dam, Calif.

Hesperiidae, Pyrginae, Erynnini

Gorgythion begga pyralina TL Paramaribo, Suriname
Sostrata (bifasciata?) nordica TL Mex.
Mylon pelopidas TL?
Grais stigmaticus stigmaticus TL Chiriqui, Panama
Timochares ruptifasciata TL South America
Anastrus sempiternus sempiternus TL Cartago, Costa Rica
Chiomara (asychis?) georgina georgina TL near Vera Cruz, Veracruz, Mex.
Chiomara mithrax TL Colombia
Gesta (gesta?) invisus TL Cartago, Costa Rica
Ephyriades brunnea floridensis TL Key Largo, Fla.
Erynnis (Erynnis) icelus TL New England
Erynnis (Erynnis) brizo somnus TL Georgiana, Brevard Co. Fla.
Erynnis brizo brizo TL Georgia
Erynnis brizo burgessi TL Mt. Graham, Pinaleño Mts. Graham Co. Ariz.
Erynnis brizo lacustra TL Blue Lakes, Lake Co. Calif.
Erynnis (Erynnides) martialis TL Denison to New Jefferson, Iowa
Erynnis (Erynnides) pacuvius pacuvius TL New Mex.
Erynnis pacuvius lilius TL Kaslo, BC
Erynnis pacuvius pernigra TL Mt. Tamalpais, Marin Co. Calif.
Erynnis pacuvius callidus TL Mt. Wilson, Los Angeles Co. Calif.
Erynnis (Erynnides) funeralis TL Texas
Erynnis (Erynnides) zarucco terentius TL Florida
Erynnis zarucco zarucco TL Cuba

Erynnis stenospecies lucilius (includes *baptisiae*, *lucilius*, *afranius*; needs work)
Erynnis (Erynnides) baptisiae TL Woods Hole, Barnstable Co. Mass.
Erynnis (Erynnides) lucilius TL Schoharie...Bethlehem, N.Y.
Erynnis (Erynnides) new ssp. near *lucilius*? (boreal Man.-BC)
Erynnis (Erynnides) afranius TL Colorado
Erynnis (Erynnides) persius TL "Mass."; =*borealis* TL mouth North Nahanni R., NWT; =*avinoffi* TL Alaska;
 =*fredericki* TL near Lead, Black Hills, S.D.
Erynnis (Erynnides) juvenalis juvenalis TL?
Erynnis juvenalis clitus TL Mt. Graham, Pinaleno Mts., Graham Co. Ariz.
Erynnis (Erynnides) telemachus TL Hualapai Mts., Mohave Co. Ariz.
Erynnis (Erynnides) propertius propertius TL Calif.
Erynnis propertius meridianus TL White Mts., Ariz.
Erynnis (Erynnides) scudleri TL Huachuca Mts., Pima Co., Ariz.
Erynnis (Erynnides) horatius TL?
Erynnis (Erynnides) tristis tristis TL: San Francisco, Calif.
Erynnis tristis tatus TL Mt. Graham, Pinaleno Mts., Graham Co. Ariz.

Hesperiidae, Pyrginae, Achlyodini

Achlyodes pallida TL Jalapa, Portrero, Veracruz, Mex.; =*selva* TL Jalapa, Veracruz, Mex.
Achlyodes (Eantis) mithridates tamenund TL Norse, Bosque Co. Tex.

Hesperiidae, Pyrginae, Pyrgini

Carrhenes canescens canescens TL Potrero, Veracruz, Mex.
Xenophanes tryxus TL Suriname
Antigonus emorsa TL Cuernavaca, Morelos, Mex.
Antigonus erosus TL?
Systasea pulverulenta TL Orizaba, Veracruz, Mex.
Systasea zampa TL S of Fort Apache, Navajo Co. Ariz.
Celotes nessus TL San Antonio, Tex.
Celotes limpia TL Limpia Can., Davis Mts., Tex.
Pyrgus centaureae wyandot TL Long Island, N.Y.
Pyrgus centaureae freija TL Labrador/Nfld.
Pyrgus centaureae loki TL Long's Peak, Larimer Co. Colo.
Pyrgus ruralis ruralis TL SW Belden, Plumas Co. Calif.; =*ricara* TL vic. Empire, Clear Creek Co. Colo.
Pyrgus ruralis lagunae TL N end of E Laguna, Laguna Mts., San Diego Co. Calif.
Pyrgus xanthus TL Rosita, Wet Mts., Colo.; =*mcdunnoughi* TL Ariz.
Pyrgus scriptura TL Sacramento, Calif.
Pyrgus scriptura spring form *pseudoxanthus*; =*apertorum* TL Cottonwood Pass Rd., Spring Mts., Nev.
Pyrgus communis communis TL Demopolis, Marengo Co. Ala.
Pyrgus (communis?) albescens TL Mex. (may be a dominant/recessive valval polymorph)
Pyrgus philetas TL Davis Mts., Tex.
Pyrgus oileus TL Mex. or U.S.; =*syrictus* TL?
Heliopetes (Heliopyrgus) domicella domicella TL Guyana
Heliopetes (Heliopyrgus) sublinea TL Orizaba, Paso de San Juan, Veracruz, Mex.
Heliopetes erictorum TL E Magalia, Butte Co. Calif.
Heliopetes macaira TL near Vera Cruz, Veracruz, Mex.
Heliopetes laviana TL Nicaragua
Heliopetes arsalte TL probably Guianas

Hesperiidae, Heteropterinae

Carterocephalus (palaemon?) mandan TL Pine Ridge, Manitoba; =*mesapano* TL Norway, Oxford Co. Maine
Carterocephalus palaemon skada TL Kodiak, Alaska; =*magnus* TL Plantation, Sonoma Co. Calif.
Piruna pirus TL Hardscrabble Can., Wet Mts., Colo.
Piruna haferniki TL Green Gulch, Chisos Mts., Tex.
Piruna polingii TL Huachuca Mts., Ariz.
Piruna aea mexicana TL 9 mi. E Queretaro, Queretaro, Mex.
Piruna penaea TL Sierra de Guerrero, Mex.

Hesperiidae, Hesperinae, Megathymini, Megathymina

Megathymus yuccae yuccae TL Aiken Co., S.C.

Megathymus yuccae coloradensis TL near Colorado Springs, Colo.; =*stallingsi* TL Caldwell, Sumner Co. Kans.; =*reinthali* TL 2 mi. W Ben Wheeler, Van Zandt Co. Tex.; =*louiseae* TL 16 mi. N Del Rio, Val Verde Co. Tex.; =*winkensis* TL Wink, Winkler Co. Tex.; =*elidaensis* TL SW Elida, Roosevelt Co. New Mex.; =*navajo* TL Fort Wingate, Zuni Mts., New Mex.; =*arizonae* TL Mtn. View, Pima Co. Ariz.; =*browni* TL near Salina, Sevier Co. Utah; =*albasuffusa* TL 5 mi. NW Glen Can. Dam, Coconino Co. Ariz.; =*maudae* TL 21 mi. N Essex, Providence Mts., Calif.; =*martini* TL Little Rock, Los Angeles Co. Calif.; =*harbisoni* TL 1 mi. W Scissors Crossing, San Diego Co. Calif.

Megathymus yuccae reubeni TL Hueco Mts., El Paso Co. Tex.

Megathymus yuccae wilsonorum TL Victoria, Tam., Mex.

Megathymus ursus deserti TL N of Camp Crk., Maricopa Co. Ariz.

Megathymus ursus ursus TL Santa Catalina Mts. W Redington, Ariz.

Megathymus ursus violae TL Guadeloupe Mts., Carlsbad Caverns NP, New Mex.

Megathymus cofaqui slotteni TL Williston, Levy Co. Fla.

Megathymus cofaqui cofaqui TL Burke Co., Ga.; =*harrisi* TL Stone Mtn., De Kalb Co. Ga.

Megathymus (cofaqui?) streckeri texana TL Kerrville, Kerr Co. Tex.; =>*leussleri* TL near Valentine, Cherry Co. Neb.

Megathymus (cofaqui?) streckeri streckeri TL Petrified Forest, Apache Co. Ariz.

Stallingsia smithi maculosus TL Kingsville, Kleberg Co. Tex.

Hesperiidae, Hesperinae, Megathymini, Aegialina

Agathymus neumoegei neumoegei TL Prescott, Yavapai Co. Ariz.; =*carlsbadensis* TL head Yucca Can., Guadeloupe Mts., Tex.; =*judithae* TL Hueco Mts., El Paso Co. Tex.; =*diabloensis* TL Diablo Mts., Hudspeth Co. Tex.; =*florenceae* TL Davis Mts., Tex.; =*mcalpinei* TL 5.1 mi. N Marathon, Tex.

Agathymus neumoegei chisosensis TL Chisos Basin, Chisos Mts., Tex.

Agathymus polingi TL Bavoquivari Mts., Ariz.

Agathymus (aryxna?) alliae alliae TL 15 mi. W Cameron, Coconino Co. Ariz.

Agathymus (aryxna?) alliae paiute TL Peek-a-boo Can., Las Vegas Range, Nev.

Agathymus aryxna gentryi TL Agua Dulce Mts., Pima Co. Ariz.

Agathymus aryxna freemani TL near Bagdad, Yavapai Co. Ariz.

Agathymus aryxna baueri TL Verde Hot Springs, Yavapai Co. Ariz.

Agathymus aryxna aryxna TL W slopes Patagonia Mts., SE Nogales, Sonora, Mex.

Agathymus evansi TL Ramsey Can., Huachuca Mts., Ariz.

Agathymus mariae mariae TL Frankin Mts., El Paso, Tex.; =*chinatiensis* TL 2.7 mi. S Shafter, Presidio Co. Tex.;

=*lajitaensis* TL 10 mi. W Lajita, Presidio Co. Tex.; =*rindgei* TL 14 mi. N Bracketville, Kinney Co. Tex.; =*gilberti* TL 14 mi. N Bracketville, Kinney Co. Tex.

Agathymus remingtoni valverdiensis TL 28 mi. N Del Rio, Val Verde Co. Tex.

Agathymus stephensi stephensi TL Mason Valley (La Puerta), San Diego Co. Calif.

Hesperiidae, Hesperinae, unknown placement

Erionota thrax TL Java

Perichares philetes adela TL Rio de Janeiro, Brasil

Hesperiidae, Hesperinae, Thymelicini

Ancyloxypha numitor TL E U.S.

Ancyloxypha arene TL near Tucson, Ariz.

Oarisma poweshiek TL Grinnell, Poweshiek Co. Iowa

Oarisma garita garita TL mts. W of Denver, Colo.

Oarisma edwardsii TL Hardscrabble Can., Wet Mts., Custer Co. Colo.

Copaeodes aurantiaca TL?

Copaeodes minima TL Waco, McLennan Co. Tex.

Adopaeoides prittwitzi TL Mex.

Thymelicus lineola lineola TL Germany

Hesperiidae, Hesperinae, Calpodini

Calpodus ethlius TL Suriname

Panoquina panoquin TL Conn.

Panoquina panoquinoides panoquinoides TL Key West, Fla.

Panoquina panoquinoides errans TL Calif.
Panoquina ocola ocola TL Fla.
Panoquina lucas TL “Americae meridionalis Insulis Dom. V. Rohr”; =*sylvicola* TL Cuba
Panoquina hecebolus TL Tehuantepec, Oaxaca, Mex.
Panoquina (fusina?) evansi TL Pharr, Hidalgo Co. Tex.

Hesperiidae, Hesperinae, unnamed tribe

Synapte (malitiosa) pecta TL Mex.
Synapte salenus TL Colombia?
Synapte (syraces) shiva TL Dos Arroyas, Guerrero, Mex.
Corticea corticea TL Lagayra, Venezuela

Hesperiidae, Hesperinae, unnamed tribe

(*Atrytone* probably belongs with *Nastra* as the larvae are almost identical)

Amblyscirtes exotera TL?
Amblyscirtes cassus TL Mt. Graham, Pinaleno Mts., Graham Co. Ariz.
Amblyscirtes aenus megamacula TL WSW Pena Blanca Lake, Santa Cruz Co. Ariz.
Amblyscirtes aenus aenus TL Hardscrabble Can., Wet Mts., Custer Co. Colo.
Amblyscirtes aenus aenus less-spotted form *erna* TL Palo Duro Can., Armstrong Co., Tex.
Amblyscirtes aenus linda TL Hope Hill Farm, Faulkner Co. Ark.
Amblyscirtes oslari TL Chimney Gulch, Jefferson Co. Colo.
Amblyscirtes texanae TL Davis Mts. N Alpine, Tex.
Amblyscirtes hegon TL White Mts., N.H.; =*samoset* TL Mass. & N.H.
Amblyscirtes nereus TL Camp Apache to Gila R., Navajo-Apache Cos. Ariz.
Amblyscirtes celia TL Blanco, Comal, & Nueces Cos. Tex.
Amblyscirtes belli TL Lancaster & 2 mi. W Vickery, Dallas Co. Tex.
Amblyscirtes eos TL Dallas, Tex.
Amblyscirtes elissa arizonae TL ½ mi. W Kino Springs, Santa Cruz Co. Ariz.
Amblyscirtes tolteca tolteca TL Tehuantepec, Oaxaca, Mex.
Amblyscirtes tolteca prenda TL Tucson, Ariz.
Amblyscirtes nysa TL Clifton, Bosque Co. Tex.
Amblyscirtes alternata TL Georgia
Amblyscirtes vialis TL Perryton Twp., Mercer Co., Ill.
Amblyscirtes aesculapius TL?
Amblyscirtes reversa TL Suffolk, Nansemond Co. Va.
Amblyscirtes carolina TL ½ mi. S Hamlet, Richmond Co., N.C.
Amblyscirtes phylace TL south-central Colo.
Amblyscirtes fimbriata TL Mex.; =*bellus* Cochise Co. Ariz.
Vidius perigenes TL Rincon, Guerrero, Mex.
Monca crispinus TL Mex.; =*tyrtaeus* TL Lagayra, Venezuela
Nastra lherminier TL Carolinas
Nastra neamathla neamathla TL central Fla.
Nastra neamathla julia TL Pharr, Hidalgo Co. Tex. (see Butt. Houston)
Cymaenes tripunctus TL Cuba
Cymaenes (odilia) trebius TL Bogota, Colombia
Lerodea eufala eufala TL Indian River, Fla.
Lerodea arabus arabus TL Sabino Can., Santa Catalina Mts. Ariz.
Lerodea arabus dysaules TL Venta de Zopilote, Guerrero, Mex.
Lerema accius TL Georgia
Lerema liris TL Atoyac, Veracruz, Mex.
Vettius fantasos TL Suriname
Rhinthon osca TL Caracas, Venezuela

Hesperiidae, Hesperinae, Hesperini

Decinea perciosius TL Mex. to Panama
Oligoria maculata TL Edgard, St. John the Baptist Parish, La.
Conga chydaea TL Serpa, Amazonas, Brasil
Hylephila phyleus phyleus TL Antigua, Lesser Antilles; =*eureka* TL Eureka, Humboldt Co. Calif.

Hylephila phyleus muertovalle TL Furnace Creek date grove, Death Valley, Calif.
Pseudocopaeodes eunus eunus TL Victorville, San Bernardino Co. Calif.; =*wrightii* TL Victorville, San Bernardino Co. Calif.; =*flavus* TL Stillwater NWR, Churchill Co. Nev.; =>*obscurus* TL Eagle Valley, Carson City, Nev.
Pseudocopaeodes eunus alineae TL Afton, San Bernardino Co. Calif. (extinct at TL)
Hesperia uncas tomichi TL Big Mesa, Gunnison Co. Colo.
Hesperia uncas uncas TL vic. Denver, Colo.
Hesperia uncas lasus TL Cochise or Santa Cruz Cos., Ariz.; =*grandiosa* TL White R. Valley, White Pine Co. Nev.; =*reeseorum* TL Reese R. Valley, Lander Co. Nev.
Hesperia uncas fulvapalla TL Lockes Ponds, Railroad Valley, Nye Co. Nev.; =>*terraclivosa* TL Monitor Valley-Petes Summit Rd., Toquima Range, Lander Co. Nev. (intergrade to *macswaini*)
Hesperia uncas macswaini TL Blancos Corral, White Mts., Calif.
>*Hesperia uncas giuliani* TL Adobe Hills, Mono Co. Calif.
Hesperia juba TL Calif.
Hesperia stenchospecies comma (includes *manitoba*, *colorado*, *assiniboia*)
Hesperia comma laurentina TL Gaspé, Que.
Hesperia comma borealis TL Nain, Labrador
Hesperia comma manitoba TL Lac la Hache, BC
Hesperia comma hulbirti TL Hurricane Ridge, Olympic Mts., Wash.
Hesperia comma colorado TL evidently Kenosha Pass or Guanella Pass, Colo.
Hesperia comma assiniboia TL Regina, Sask.
>*Hesperia comma ochracea* TL Platte Can., Jefferson-Douglas Cos. Colo.
Hesperia comma idaho TL Doyle, Lassen Co. Calif.; =>*mojavensis* TL Kyle Can. Ski Area, Spring Mts., Nev. (intermediate to *susanae*); =>*oregonia* TL Trinity Co. Calif. (an intergrade swarm of *idaho*X*hulbirti*X*dodgei*)
Hesperia comma susanae TL Horseshoe Cienega, White Mts., Ariz.
Hesperia comma oroplata TL Spring Creek, Fremont Co. Colo.
Hesperia comma harpalus TL W side Sierra Nevada Mts., W of Carson City, in Calif.; =*cabelus* TL W side Sierra Nevada Mts., W of Carson City, in Calif.; =*yosemite* TL near Yosemite, Calif.
Hesperia comma leussleri TL Warner's Hot Springs, San Diego Co. Calif.
>>*Hesperia comma tildeni* TL Cherry Flat Res., Santa Clara Co. Calif.
Hesperia comma dodgei TL Santa Cruz, Santa Cruz Co. Calif.
>*Hesperia comma mattoonorum* TL Low Divide Rd., 2300', Del Norte Co. Calif.
Hesperia woodgatei TL Jemez Mts., Sandoval Co. New Mex.
Hesperia ottoe TL Kansas
Hesperia leonardus leonardus TL Mass.
Hesperia leonardus pawnee TL Glencoe, Dodge Co. Neb.
Hesperia leonardus montana TL Buffalo Creek, Jefferson Co. Colo.
Hesperia pahaska pahaska TL N Harrison, Sioux Co. Neb.
Hesperia pahaska williamsi TL Bavoquivari Mts., Pima Co. Ariz.; =*martini* TL SE Ivanpah, New York Mts., San Bern. Co. Calif.
Hesperia columbia TL Calif.
Hesperia viridis TL Las Vegas, San Miguel Co. New Mex.
Hesperia attalus attalus TL near Waco, McLennan Co. Tex.
Hesperia attalus nigrescens TL vic. Sandy Island Nat. Wildlife Refuge, Horry Co. S.C.
Hesperia attalus slossonae TL Fla.
Hesperia metea metea TL Conn.
Hesperia metea licinus TL near Waco, McLennan Co. Tex.; =>*intermedia* TL Lake Issaqueena, Pickens Co. S.C. (intermediate to *metea*)
Hesperia meskei meskei TL Bastrop Co. Tex.
Hesperia meskei straton TL Indian River, Brevard Co., Fla.
Hesperia meskei pinocayo TL Big Pine Key, Fla.
Hesperia dacotae TL Volga, Brookings Co. S. D.
Hesperia sassacus sassacus TL Cambridge, Mass.; =*manitoboides* TL Nipigon, Ont.
Hesperia sassacus nantahala TL Buck Creek, Clay Co. N.C.
Hesperia lindseyi lindseyi TL Napa Co. Calif.; =*macneilli* TL Laytonville, Mendocino Co. Calif.; =*eldorado* TL Meadow Brook barrens, El Dorado Co. Calif.; =*septentrionalis* TL 4 mi. E Montague, Siskiyou Co. Calif.
Hesperia lindseyi mccorklei TL N Jackson Rd., Douglas Co. Ore.
Hesperia miriamae miriamae TL Mt. Star, Mono Pass, Inyo Co. Calif.
Hesperia miriamae longaevicola TL Mt. Barcroft, White Mts., Calif.
Hesperia nevada TL South Park, Colo.; =*sierra* TL Tahoe Meadows, Washoe Co. Nev.

Polites (Yvretta) carus TL Davis Mts., Tex.
Polites (Yvretta) rhesus TL W of Pueblo, Pueblo Co. Colo.
Polites sabuleti sabuleti TL San Francisco, Calif. (& Sacramento also, actually); =>*channelensis* TL Santa Rosa I., Calif.; =*genoa* TL near Genoa, Douglas Co. Nev.; =*alkaliensis* TL Granite Mts., Washoe Co. Nev.; =>*basinensis* TL Reese R. Valley, Lander Co. Nev. (intermediate toward *sinemacula*)
Polites sabuleti sabuleti female form *nigrescens* TL Steptoe Valley warm springs, White Pine Co. Nev. (more of a female form than a ssp.)
Polites sabuleti chusca TL N Mojave Co. Ariz.
Polites sabuleti sinemacula TL 5 mi. W Denio Jct., Humboldt Co. Nev.
Polites sabuleti ministigma TL 8 mi. W Crestone, Saguache Co. Colo.
Polites sabuleti tecumseh TL Little Crabtree Mdw. near Mt. Whitney, Calif.; =*aestivalis* TL SE of Scott Mtn. Summit, Trinity Co. Calif.; =>*albamontana* TL Trail Can., White Mts., Esmeralda Co. Nev. (intermediate to *sabuleti*)
Polites draco TL Twin Lakes, Lake Co. Colo.
Polites peckius peckius TL NE U.S. or SE Canada; =*wamsutta* TL Mass.
Polites peckius surllano TL Green Mtn., Jefferson Co. Colo.
Polites mardon TL Tenino Prairie, Thurston Co. Wash.; =*klamathensis* TL 12 air mi. SE Ashland, Jackson Co. Ore.
Polites baracoa baracoa TL Cuba
Polites themistocles themistocles TL?
>*Polites themistocles turneri* TL Jesmond, BC
Polites origenes origenes TL?
Polites origenes rhena TL Wet Mts. W of Pueblo, Colo.
Polites mystic mystic TL Hunter, Greene Co. N.Y.
Polites mystic dacotah TL, Georgetown or eastward toward Idaho Springs, Clear Creek Co. Colo.
Polites sonora siris TL Tenino Prairie, Thurston Co. Wash.
Polites sonora sonora TL Sierra Nevada, Calif.
>*Polites sonora flavaventris* TL Alta Creek Basin, Pine Forest Range, Humboldt Co. Nev.; =>*longinqua* TL Trail Can., White Mts., Esmeralda Co. Nev. (intermediate to *sonora*)
Polites sonora utahensis TL Park City, Summit Co. Utah
Polites vibex vibex TL “mainland”, evidently Fla.
Polites vibex praeceps TL Tehuantepec, Oaxaca, Mex.; =*brettoides* TL Davis Mts., Tex.
Wallengrenia otho otho TL Georgia
Wallengrenia otho clavus TL British Guiana; =*curassavica* TL Curaçao
Wallengrenia egeremet TL?
Pompeius verna TL Perryton Twp., Mercer Co. Ill.; =*sequoyah* TL Ark.
Atalopedes campestris TL Sacramento, Calif.; =*tenebricosus* TL Eureka, Humboldt Co. Calif.; =*huron* TL Evanston, Cook Co. Ill.
Atrytone arogos arogos TL?
>*Atrytone arogos iowa* TL Denison & New Jefferson, Iowa
Problema byssus kumskaka TL Denison, Crawford Co. Iowa
Problema byssus byssus TL Indian River, Brevard Co. Fla.
Problema bulenta TL Georgia
Poanes zabulon TL?
Poanes taxiles TL Oak Creek Can., Wet Mts., Fremont Co. Colo.
Poanes hobomok wetona TL Sand Gulch S Greenwood, Wet Mts., Custer Co. Colo.
Poanes hobomok hobomok TL Mass.
Poanes hobomok monofacies TL Chestnut Mtn., Macon Co., N.C.
Poanes aaroni aaroni TL Cape May, N.J.; =*howardi* TL Georgiana, Indian River, Brevard Co. Fla.
Poanes aaroni minimus TL Bull Swamp, Orangeburg Co. S.C.
Poanes aaroni bordeloni TL Sabine Pass, Jefferson Co. Tex.
Poanes viator viator TL Goose Lake Prairie, Grundy Co. Ill.
Poanes viator zizaniae TL Tinicum Wildlife Preserve, Philadelphia, Penn.
Poanes yehl TL Fla.
Poanes massasoit massasoit TL Carver, Plymouth Co. Mass.; =*suffusa* TL around Philadelphia; =>*hughi* TL Beltsville Md. (intermediate toward *chermocki*)
Poanes massasoit chermocki TL New Bridge, Dorchester Co. Md.
Poanes melane melane TL San Francisco Bay area, Calif.
Poanes melane vitellina TL?
Stinga morrisoni TL Hardscrabble Can., Custer Co. Colo.

Ochlodes agricola agricola TL SSE Sausalito, Marin Co. Calif.; =*nemorum* TL near Belden, Plumas Co. Calif.
Ochlodes agricola verus TL Havilah, Kern Co. Calif.
Ochlodes sylvanoides orecoasta TL Cullaby Lake, Clatsop Co. Ore.
Ochlodes sylvanoides santacruz TL Central Valley on Santa Cruz I., Calif.; =>*catalina* TL Toyon Bay on Santa Catalina Is., Calif. (intermediate to *sylvanoides*)
Ochlodes sylvanoides sylvanoides TL near Belden, Plumas Co. Calif.; =*pratincola* TL Broderick, Yolo. Co. Calif.; =*omnigena* TL Kingston Can., Toiyabe Mts., Nev.; =*napa* TL Empire, Clear Creek Co. Colo.
Ochlodes sylvanoides bonnevilla TL Thomas Can., Ruby Mts., Elko Co. Nev.
Ochlodes yuma lutea TL Bowman Crk., Toiyabe Mts., Nev.
Ochlodes yuma yuma TL Darwin Falls, Inyo Co. Calif.; =*sacramentorum* TL Sherman Is., Sacramento Co. Calif.; =*scudder* TL White River, Rio Blanco Co. Calif.
Ochlodes yuma anasazi TL Rio Grande Gorge near Questa, Taos Co. New Mex.
Paratrytone snowi TL Ute Pass, Teller Co. Colo.
Anatrytone logan logan TL Kanawha R., Kanawha Co. W.Va.
Anatrytone logan lagus TL S Colo.
Anatrytone mazai TL Mexcala, Guerrero, Mex.
Quasimellana eulogius TL Mex.
Euphyes pilatka pilatka TL St. Augustine, St. Johns Co., Fla.
Euphyes pilatka klotsi TL Sugarloaf Key, Monroe Co. Fla.
Euphyes conspicua conspicua TL Dansville State Game Area, Ingham Co. Mich.; =*buchholzi* TL Valley, Douglas Co. Neb.
>*Euphyes conspicua orono* TL Maine
Euphyes dion dion TL Whiting, Lake Co., Ind.
Euphyes dion dion dark form *alabamiae* TL Mobile Co. Ala.; =*mcguirei* TL Benbrook Res., Tarrant Co. Tex.
Euphyes dion bayensis TL Bay St. Louis, Hancock Co., Miss. (stigma varies toward *dion* at TL)
Euphyes berryi TL Monticello, Jefferson Co. Fla.
Euphyes bimacula bimacula TL Philadelphia
Euphyes bimacula arbogasti TL near jct. I-26 X hwy. 17A, Berkeley Co. S.C.
Euphyes bimacula illinois TL Denine Crossing, Grundy Co. Ill.
Euphyes arpa TL Georgia
Euphyes vestris vestris TL Meadow Valley, Plumas Co. Calif.; =*harbisoni* TL N slope Tecate Peak, San Diego Co. Calif.; =*californica* TL Calif.; =*kiowah* TL Colo.
>*Euphyes vestris metacommet* TL Mass.
Euphyes dukesi dukesi TL Mobile Co. Ala.
Euphyes dukesi calhouni TL Cabbage Swamp, Pasco Co. Fla.
Asbolis capucinus TL Cuba
Notamblyscirtes simius TL Pueblo, Colo.
Notamblyscirtes simius form *nigra*
Notamblyscirtes simius form *rufa*
Atrytonopsis hianna hianna TL Quincy & Dorchester, Mass.; =*turneri* TL Barber Co. Kans.
Atrytonopsis hianna loammi TL Jacksonville, Duval Co. Fla.
Atrytonopsis hianna deva TL vic. Tucson, Ariz. (like *hianna* exc. variable stigma)
Atrytonopsis vierecki TL Dry Cañon, Otero Co. New Mex.
Atrytonopsis lunus TL vic. Tucson, Ariz.
Atrytonopsis pittacus TL Fort Grant, Pinaleño Mts., Graham Co. Ariz.
Atrytonopsis cestus TL vic. Tucson, Ariz.
Atrytonopsis python TL TL Fort Grant, Pinaleño Mts., Graham Co. Ariz.; =*margarita* TL Jemez Springs, Sandoval Co. New Mex.
Atrytonopsis (ovinia) edwardsi TL Santa Catalina Mts. nr. Redington, Ariz.
Nyctelius nyctelius nyctelius TL Brasil & Suriname
Thespieus macareus TL?

Papilionoidea, Papilionidae, Parnassiinae, Parnassiini

Parnassius evermanni thor TL 800 mi. up. Yukon R., Alaska
Parnassius clodius strohbeeni TL Santa Cruz Mts., Santa Cruz Co. Calif. (extinct)
Parnassius clodius clodius TL Bear Valley, Marin Co., Calif.; =*claudianus* TL W Wash.; =*pseudogallatinus* TL BC; =*incredibilis* TL Mt. St. Elias, Alaska; =*sol* TL Baxters, Placer Co. Calif.; =*baldur* TL Tioga Pass, Mono-Tuolumne Co. Calif.; =*alturus* TL Alturus Lake, near Sawtooth Mtn., Idaho; =*gallatinus* TL Gallatin Co. Mont.; =*shepardi* TL Wawawai, Whitman Co. Wash.; =*menetriesii* TL Mt. Nebo, Juab-Utah Cos. Utah.

Parnassius phoebus apricatus TL Kodiak I., Alaska; =*elias* Mt. St. Elias, Alaska; =*alaskensis* TL Denali Nat. Park, Alaska; =*golovinus* TL Golovin Bay, NW Alaska
Parnassius phoebus smintheus TL vic. Rock Lake, 22.5 km NW Pocatonton, Alberta; =*yukonensis* TL 5 mi. SW Haines Jct., Yukon; =*magnus* TL Enderby, BC; =*olympianna* TL Hurricane Ridge, Olympic Mts., Wash.; =*xanthus* TL Moscow, Latah Co. Ida.; =*montanula* TL Turah, Missoula Co. Mont.; =*sayii* TL Running Crk. Field Stn., Elbert Co. Colo.; =*utahensis* TL Park City, Summit Co. Utah; =*hollandi* TL La Sal Mts., E Utah; =*dakotaensis* TL Mt. Roosevelt, Black Hills, S.D.; =*rubina* TL above Liberty Lake, Ruby Mts., Nev.
Parnassius phoebus maximus TL Judith Mts., Fergus Co. Mont.
Parnassius phoebus hermodur TL S. Colo. (alpine zone in Sangre de Cristo Mts. or Monarch Pass in Sawatch Range)
Parnassius phoebus pseudorotgeri TL Elwood Pass, Rio Grande Co. Colo.
Parnassius phoebus sternitzkyi TL Castle Lake, Siskiyou Co. Calif.
Parnassius phoebus behrii TL Tioga Pass, Mono-Tuolumne Cos. Calif.

Papilionidae, Papilioninae, Leptocircini

Eurytides (Neographium) marcellus TL Virginia
Eurytides marcellus summer form *lecontei*
Eurytides (Neographium) philolaus TL Mex.

Papilionidae, Papilioninae, Troidini

Parides eurimedes mylotes TL Nicaragua
Parides alopis TL Chihuahua/Durango, Mex.
Battus philenor philenor TL?
Battus philenor hirsuta TL Plumas Co. Calif.
Battus polydamas polydamas TL Suriname
Battus polydamas lucayus TL Nassau, Bahamas

Papilionidae, Papilioninae, Papilionini

Papilio (Sinoprinceps) xuthus TL Canton, China
Papilio (Papilio) stenochospecies machaon (includes *machaon*, *oregonia*, *bairdii*, *joanae*, *brevicauda*, *zelicaon*, *polyxenes*)
Papilio machaon aliaska TL Nulato & below Fort Yukon, Alaska
Papilio machaon hudsonianus TL Kettle Rapids, Nelson R., Man.
Papilio machaon hudsonianus less-yellow form *comstocki*
Papilio machaon pikei TL Dunvegan, Peace River Valley, Alberta
Papilio machaon oregonia TL Heppner, Morrow Co. Ore.
Papilio machaon brucei TL Glenwood Springs, Garfield Co. Calif.; =*dodi* TL Dorothy, Alta.
Papilio machaon brucei less-yellow form *comstocki*
Papilio machaon brucei black form *bairdii*
Papilio machaon bairdii (black form) TL vic. Fort Whipple, near Prescott, Ariz.
Papilio machaon bairdii yellow form *brucei*
Papilio machaon bairdii yellow-abdomen form *hollandii* TL Roaring Forks [Carbondale], Garfield Co. Colo.
Papilio machaon bairdii very-black form *ampliata*
Papilio machaon joanae TL Warsaw, Benton Co. Missouri (mtDNA & eyespot etc. traits of *bairdii*, crosses with *bairdii* in lab)
Papilio machaon brevicauda TL St. John's, Nfld.
Papilio machaon gaspeensis TL Mt. Lyall, Gaspé Co., Que.; =>*bretonensis* TL Baddeck, N.S. (intermediate to *brevicauda*)
Papilio zelicaon (yellow form) TL San Francisco, Calif.; =*gothica* TL Gothic, Gunnison Co. Colo.
Papilio zelicaon narrower-yellow form *comstocki*
Papilio zelicaon black form *nitra* TL Judith Mts., Mont.
Papilio zelicaon very black form *ampliatanitra*
Papilio polyxenes asterias (black form) TL N.Y., Va., & Carolina
Papilio polyxenes asterias very-black form *ampliata*
Papilio polyxenes asterias narrower-banded form *curvifascia*
Papilio polyxenes asterias yellow form *pseudoamericanus*
>*Papilio polyxenes kahli* (black form) TL Riding Mts., Man. (introgressed toward *hudsonianus*)
>*Papilio polyxenes kahli* less-yellow form *comstocki*

Papilio polyxenes coloro (yellow form) TL Whitewater Hill, Coachella Valley, Riverside Co. Calif.; =*rudkini* TL Ivanpah Mts., San Bern. Co. Calif.
Papilio polyxenes coloro less-yellow form *comstocki*
Papilio polyxenes coloro black form *clarki*
Papilio (Papilio) indra indra TL Mt. Zion, Jefferson Co. Colo.; =*shastensis* TL McCloud Bridge Cgd., Shasta L., Shasta Co. Calif.; =>*phyllisae* TL Butterbredt Peak, Kern Co. Calif. (intermediate toward *pergamus*); =>*nevadensis* TL Jett Can., Toiyabe Range, Nev. (intermediate toward *martini* etc., like *indra* but longer tails, sl. wider bands, & more hw blue)
Papilio indra ssp. W Utah (older larva solid black)
Papilio indra pergamus TL Devil Can., NNW San Bernardino, Calif.
Papilio indra martini TL Gilroy Can., Providence Mts., Calif.; =>*panamintensis* TL Thorndike Cgd., Wildhorse Can., Panamint Range, Calif. (intergrade *martini*X*fordi*); =>*calicicola* TL Muddy Mts., E of Buffington Pockets, Clark Co. Nev. (like *panamintensis*); =>*parvindra* TL Dead Mts. NNW Needles, San Bern. Co. Calif. (like *panamintensis*)
Papilio indra fordi TL Granite Mts., N & E Apple Valley, San Bern. Co. Calif.
Papilio indra kaibabensis TL Bright Angel Point, S Rim Grand Can., Ariz.
Papilio indra minori TL Black Ridge, Mesa Co. Colo.
Papilio (Heraclides) thoas autocles TL Guerrero, Mex.
Papilio (H.) crespontes crespontes TL?
Papilio (H.) aristodemus ponceanus TL Miami, Fla.
Papilio (H.) andraemon bonhotei TL Nassau, Bahamas
Papilio (H.) ornythion TL Yucatan, Mex.
Papilio (H.) astyalus pallas TL Oaxaca, Mex.
Papilio astyalus bajaensis TL San Antonio microwave tower, Baja Calif. Sur, Mex.
Papilio (H.) androgeus epidaurus TL Mex. to Panama
Papilio (H.) anchisiades idaeus TL?
Papilio (H.) rogeri pharnaces TL Oaxaca, Mex.
Papilio (H.) stenchospecies glaucus (includes *alexiares*, *glaucus*, *appalachiensis*, *canadensis*, *rutulus*)
Papilio (Pterourus) glaucus garcia TL Monterrey, Mex. (a ssp. of *alexiares*, which is a ssp. of *glaucus*)
Papilio glaucus glaucus TL Sandbridge, Virginia Beach, Virginia; =*maynardi* TL Fla.
Papilio glaucus appalachiensis TL Buck Creek Serpentine Barrens, Clay Co. N.C.
Papilio glaucus canadensis TL St. John's, Nfld.
Papilio glaucus arcticus TL Eagle, Alaska
Papilio glaucus rutulus TL near Belden, Plumas Co. Calif.; =*arizonensis* TL vic. Fort Grant, Pinaleno Mts., Graham Co. Ariz.
Papilio (Pt.) eurymedon TL near Belden, Plumas Co. Calif.; =*albanus* TL near Belden, Plumas Co. Calif.
Papilio (Pt.) multicaudata multicaudata TL Mex.; =*pusillus* TL N end Independence Mts., Elko Co. Nev.
Papilio (Pt.) garamas abderus TL Mex.
Papilio (Pt.) menatius victorinus TL?
Papilio (Pt.) pilumnus TL Mex.
Papilio (Pt.) troilus troilus TL Middleton Place Plantation, Charleston Co. S.C.; =*ilioneus* TL River Road, Burke Co. Ga.
Papilio troilus fakahatcheensis TL vic. Copeland, Collier Co. Fla.
Papilio (Pt.) palamedes palamedes TL Carolina.
Papilio palamedes leontis TL Monterrey, Mex.

Pieridae, Dismorphiinae

Enantia (melite) albania albania TL Motagua Valley, Guatemala

Pieridae, Coliadinae

Kricogonia lyside TL Haiti
Kricogonia lyside black bar form *terissa*
Kricogonia lyside female upf basal patch missing form *anorbis*
Kricogonia lyside female yellow form *unicolor*
Kricogonia lyside female black-upf-tip form *fantasia*
Nathalis iole TL Mex.
Nathalis iole female orange-uph form *felicia*
Nathalis iole green-unh winter form *viridis*
Nathalis iole white form *pallida*

Eurema species reddish-unh winter form *rosa*
Eurema दौरa palmira TL Cuba
Eurema दौरa दौरa TL Virginia; =*eugenia* TL Isla San Jose, Archipelago de las Perlas, Panama; =*sidonia* TL Campeche, Mexico
Eurema दौरa ssp. female white form *alba*
Eurema mexicana mexicana TL Mex.
Eurema arbela boisduvaliana TL Mex.
Eurema salome jamapa TL near Vera Cruz, Veracruz, Mex.
Eurema albula celata TL Potrero, Veracruz, Mex.
Eurema (Pyrisitia) proterpia TL Jamaica
Eurema proterpia tailed winter form *longicauda*
Eurema proterpia white female form *alba*
Eurema (Pyrisitia) messalina TL Cuba
Eurema (Pyrisitia) lisa TL U.S.
Eurema (Pyrisitia) nise nise TL near Millbank, Portland Parish, Jamaica
Eurema nise nelphe TL Potrero, Veracruz, Mex.
Eurema (Pyrisitia) dina helios TL Nassau, Bahamas
Eurema dina westwoodii TL Mex.
Eurema (Abaeis) nicippe TL Virginia
Colias female white form *alba* (occurs in all species, but rare in some, weak in *C. nastes* & *C. behrii*)
Colias nastes streckeri TL vic. Lake Louise, Alta.; =*dioni* TL Plateau Mtn., Alta.
Colias nastes nastes TL Labrador; =*gueneei* TL Southampton Island, Nunavut; =*ferrisi* TL Glacier Creek, Dempster Hwy., Richardson Mts., Yukon; =*aliaska* TL Rampart, Alaska; =*subarctica* TL Bernard Harbour, Nunavut; =*dezhnevi* TL Chaplinske klyuchi, gornaya tundra, Magadan Oblast, Russia
Colias nastes moina TL vic. Eskimo Point, W coast Hudson Bay, Nunavut
Colias tyche boothii TL vic. isthmus of Boothia Pen., Nunavut, Canada; =*chione* TL isthmus of Boothia Pen., Nunavut; =*rossii* TL isthmus of Boothia Pen., Nunavut
Colias tyche thula TL near Meade River, S of Point Barrow, Alaska
Colias tyche kolosovae TL (Siberia, add) (in Alaska?); =*olga* TL 20 km E Ioni Lake, East Chukotka, Russia
Colias (tyche?) canadensis TL mile 209, Alaska hwy., BC
Colias hecla aquilonaris TL Fluss Olenek, Russia; (occurs in Alaska?, valid ssp.?)
Colias hecla hecla TL Greenland; =*glacialis* TL Lady Franklin Bay, Nunavut; =*chrysothemoides* TL vic. Coppermine, Northwest Territories
Colias hecla hela TL vic. Eskimo Point, W coast Hudson Bay, Nunavut
Colias meadii johanseni TL Bernard Harbour, Nunavut, Canada (larva & stigma identical to *meadii*)
Colias meadii elis TL Kicking Horse Pass, Banff NP, Alta.
Colias meadii lemhiensis TL near Meadow Creek Lake, Lemhi Range, Lemhi Co. Ida. (almost intermediate)
Colias meadii meadii TL Mosquito Pass, Park-Lake Cos. Colo.
Colias occidentalis kluanensis TL Haines Jct., Yukon
Colias occidentalis krauthii TL 12 mi. W Custer, Black Hills, S.D.
Colias occidentalis christina TL near Slave River between Fort Smith NWT & Fitzgerald, Alta.
Colias occidentalis sacajawea TL Elkhorn Crk., Lewis & Clark Co. Mont.
Colias occidentalis wasatchia TL W of Strawberry Res., 1.9 mi. S East Portal, Wasatch Co. Utah; =*pseudochristina* TL N fork Provo R., Summit Co. Utah
Colias occidentalis sullivanii TL Alvord Desert Rd., N end Steens Mtn., Harney Co. Ore.
Colias occidentalis occidentalis TL near Port Townsend, Gulf of Georgia, Wash.
Colias occidentalis chrysothemas TL Napa Co. Calif.
Colias stenchospecies alexandra (includes *columbiensis*, *pseudocolumbiensis*, *edwardsii*, *alexandra*, needs work)
Colias columbiensis columbiensis TL Anderson Lake, D'Arcy, BC
Colias columbiensis pseudocolumbiensis TL Hall Creek at hwy. 33, BC
Colias edwardsii astraia TL near Yellowstone Lake, Yellowstone Nat. Park, Wyo.
Colias edwardsii edwardsii TL near Virginia City, Storey Co. Nev.; =*emilia* TL Crump Lake, Lake Co. Ore.
Colias edwardsii altiplano TL Piney Creek, Arapahoe Co. Colo.
Colias alexandra alexandra TL foothills W of Denver, Colo.; =*apache* TL 13 mi. E McCrary, White Mts., Ariz.
Colias alexandra altamont TL Arrow Creek breaks, 19 mi. N Stanford, Fergus Co. Mont.
Colias harfordii TL Contra Costa Co. or Havilah in Kern Co., Calif.
Colias eurytheme TL Sacramento, Calif.
Colias eurytheme spring form *vernalis*=*ariadne*
Colias philodice philodice TL Virginia; =>*hagenii* TL NE corner South Park, Park Co. Colo.

Colias philodice philodice spring form *vernalis*
Colias philodice eriphyle TL Lac la Hache, BC (S BC only, often orangish-tinted)
Colias philodice vitabunda TL Denali Nat. Park, Alaska
Colias interior TL mouth Saskatchewan R., vic. Grand Rapids, Man.; =*laurentina* TL Baddeck, Cape Breton I., Nova Scotia
Colias palaeno baffinensis TL Frobisher Bay, Baffin I., Nunavut
Colias palaeno chippewa TL W end Great Slave Lake, NWT
Colias pelidne TL NE coast Labrador
Colias (pelidne) minisni TL Lake Louise, Alta.; =*skinneri* TL Yellowstone NP, Wyo.
Colias scudderii inupiat TL Dalton hwy. mile 323, N slope Brooks Range, Alaska
Colias scudderii gigantea TL W coast Hudson Bay above York Factory, Manitoba
Colias scudderii mayi TL Riding Mts., Man.
Colias scudderii harroweri TL Clear Creek E Green R. Lake, Wind River Mts., Sublette Co. Wyo.
Colias scudderii scudderii TL Hoop Creek, S of Berthoud Pass, Clear Creek Co. Colo.; =*ruckesi* TL Winsor Creek Can., San Miguel Co. New Mex.
Colias behrii TL vic. Tioga Pass, Mono-Tuolumne Cos. Calif.
Zerene cesonia cesonia TL Georgia
Zerene cesonia cesonia red-unh winter form *rosa*
Zerene cesonia cesonia female form *immaculsecunda* (lacks black dogface marks)
Zerene eurydice TL vic. Alpine Dam, Marin Co. Calif.
Zerene eurydice white female form *alba* (rare)
Anteos clorinde TL Brasil
Anteos maerula TL Jamaica
Phoebis species white female form *alba*
Phoebis (Aphrissa) statira statira TL Suriname
Phoebis statira floridensis TL Upper Indian River, Brevard Co. Fla.
Phoebis statira orangish female form *naranja*
Phoebis (Aphrissa) orbis orbis TL Cuba
Phoebis sennae sennae TL possibly Jamaica
Phoebis sennae marcellina TL Suriname
Phoebis sennae reddish-unh winter form *rosa*
Phoebis agarithe agarithe TL Mex.; =*fisheri* TL La Paz, Baja Calif. Sur, Mex.; =>*maxima* TL Upper Indian River, Brevard Co. Fla.
Phoebis argante argante TL Rio de Janeiro
Phoebis philea philea TL Suriname
Phoebis philea male-like female form *alamacho*
Phoebis philea cream female form *crema*
Phoebis neocypris virgo TL Mex., mts. of Oaxaca....; =*intermedia* TL Cartago, Costa Rica

Pieridae, Pierinae, Anchocharini

Anthocharis stenchospecies sara (includes *browningi*, *julia*, *stella*, *flora*, *sara*, *inghami*, *thoosa* etc.)
Anthocharis julia browningi TL Brighton & City Creek Can., Salt Lake Co. Utah
Anthocharis julia julia TL Beaver Creek near Fairplay, Park Co. Colo.
Anthocharis julia columbia TL Brilliant, near Castlegar, Columbia R., BC; =*nomen nudum sulfuris*
Anthocharis julia stella TL Marlette Peak, Carson Range, Washoe Co. Nev.
Anthocharis julia flora TL Tenino, Thurston Co. Wash.
 >*Anthocharis julia alaskensis* TL Skagway, Alaska
Anthocharis julia sempervirens TL Bald Hills Rd. 16.3 rd. mi. SE hwy. 101, just W Schoolhouse Peak, Redwood NP, Humboldt Co. Calif.
Anthocharis sara sara TL near Belden, Plumas Co. Calif.
Anthocharis sara sara spring form *reakirtii*
 >*Anthocharis sara pseudothoosa* TL Jackass Crk., Sweetwater Mts., Douglas Co. Nev.
Anthocharis sara inghami TL Tucson, Ariz.
Anthocharis sara coriande TL 1 mi. SE Glorieta, Santa Fe Co. New Mex.
Anthocharis sara colorado TL McElmo Creek, Montezuma Co. Colo.
Anthocharis sara thoosa TL Mokiah Pass, Mohave Co. Ariz.; =*gunderi* TL Middle Ranch, Santa Catalina I., Calif.
Anthocharis cethura pima TL between Pontano & Tucson, Ariz.; =*mojavensis* TL mouth Bonanza King Mine Can., Providence Mts., Calif.
Anthocharis cethura cethura TL vic. Los Angeles, Calif.; =*catalina* TL head Pebbly Beach Can., Santa Catalina I. Calif.

Anthocharis cethura cethura yellow form *caliente*
Anthocharis cethura cethura orangeless form *deserti*
Anthocharis cethura morrisoni TL Kern R., Kern Co. Calif.
Anthocharis cethura hadromarmorata TL S end Swingle Bench, Churchill Co. Nev.
Anthocharis (Paramidea) midea midea TL Wilmington I., near Savannah, Georgia
Anthocharis midea annickae TL West Rock, New Haven, Conn.; =*texana* TL 6 mi. W Buffalo, Freestone Co. Tex.
Anthocharis (Paramidea) lanceolata lanceolata TL hwy 70 at Soda Creek, Plumas Co. Calif.
Anthocharis lanceolata australis TL Arroyo Seco & Millard Cans., San Gabriel Mts., L.A. Co. Calif.; =>*desertolimbus*
 TL 1 mi. W Scissors Crossing, San Diego Co. Calif. (intermediate to *lanceolata*)
Euchloe (hyantis) guaymasensis TL microwave relay 40 km N Guaymas, Sonora, Mex.
Euchloe hyantis lotta TL Colo., Ariz., Utah, S Cal. (supposedly intergrades with *hyantis* on Kern Plateau)
Euchloe hyantis hyantis TL vic. Ukiah, Mendocino Co. Calif.
Euchloe (hyantis) andrewsi TL Crestline hwy., near Lake Arrowhead, San Bernardino Mts., Calif. (wing pattern similar
 to *ausonides*)
Euchloe ausonides ausonides TL San Francisco, Calif.
Euchloe ausonides yellowish female form *flavidalis*
 >*Euchloe ausonides coloradensis* TL Turkey Creek Jct., Jefferson Co. Colo.; =*transmontana* TL Kingston Can.,
 Toiyabe Mts., Nev.; =*palaeoreios* TL Spearfish Can., Black Hills, Lawrence Co. S.D.; =*mayi* TL Riding Mts., Man.
 >*Euchloe ausonides insulanus* TL Wellington, Vancouver I., BC
Euchloe ausonides ogilvia TL Dempster hwy. mi. 45, Ogilvie Mts., Yukon
Euchloe naina jakutia TL Suntar Mts., Yakutia, Russia
Euchloe creusa TL Rock Lake, 22.5 km NW Pochahontas, Alta.
Euchloe olympia TL Coalburgh, Kanawha Co. W.Va.; =*rosa* TL Wichita Co. Texas

Pieridae, Pierinae, Pierini

Appias (Glutophrissa) drusilla tenuis TL Tumbes, Peru
Appias (Glutophrissa) drusilla neumoegenii TL Indian River, Brevard Co. Fla.
Appias drusilla yellow-uph female form *amarilla*
Melete lycimnia isandra TL Mex.
Neophasia menapia menapia TL vic. Davis Creek Park, Washoe Co. Nev.; =*tehachapina* TL N Slope Double Mtn.,
 Tehachapi Mts. Calif.; =>*magnamenapia* TL Wilson Peak Road, Lincoln Co. Nev. (slightly bigger)
Neophasia menapia tau TL near Port Townsend, Jefferson Co. Wash.
Neophasia menapia melanica TL 6 mi. W Willits, Mendocino Co. Calif.
Neophasia terlooti TL Sierra Madre E Mazatlan, Sinaloa, Mex.
Catasticta nimbice nimbice TL prob. vic. Orizaba, Veracruz, Mex.
Pieriballia viardi viardi TL Mex.
Itaballia demophile centralis TL Quiriqva, Guatemala
Leptophobia aripa elodia TL Mex.?
Pieris rapae rapae TL Sweden
Pieris rapae spring form *metra*
Pieris virginianensis TL Coalburgh, Kanawha R. valley, Kanawha Co. W.Va.; =*hyatti* TL Campbellville, Ont.
Pieris stenochospecies napi (includes *hulda*, *pseudobryoniae*, *angelika*, *marginalis*, *venosa*, *pseudonapi*, *oleracea*).
 Forms: paler 2nd-generation form *napaeae*, brownish ups veins female form *bryoniae*, brownish-yellow ups female
 form *flava*, greenish-yellow unh form *subflava*, whiter-unh form *subtalba*, pale-yellow ups form *sulphurea*, sharp
 unh vein border form *acuta* (broader veins form *diffusa*), upf median spotless form *restricta*.
Pieris marginalis marginalis TL near Port Townsend, Jefferson Co. Wash.
 >*Pieris marginalis reicheli* TL Revelstoke, BC
Pieris marginalis pseudonapi TL Silverton, San Juan Co. Colo.; =*mcdunnoughi* TL Silverton, Colo.; =*zieglerei* TL
 between West Yellowstone & Big Sky, Gallatin Co. Mont.
Pieris marginalis mogollon TL Mogollon Range, Catron Co. New Mex.
Pieris marginalis pallidissima TL Provo, Utah Co. Utah
Pieris marginalis venosa TL San Mateo, San Mateo Co. Calif.; =*sequoia* TL Prairie Creek Redwood SP, Humboldt Co.
 Calif.; =*castoria* TL French Camp, San Joaquin Co. Calif.; =*microstriata* TL Eldredge, Sonoma Co. Calif.
Pieris hulda hulda TL Kodiak I., Alaska (also found on Pribilof Islands)
Pieris hulda pseudobryoniae TL Nulato, Alaska; =*shapiro* TL Kikuktok Mtn., Yukon Delta Hooper Bay, Alaska;
 =*browni* TL Big Creek, Seward Pen., Alaska; =*meckya* TL 8 mi. NE Palmer, Talkeetna Mts., Alaska; =*guppyi* TL
 Skagway, Alaska (much more work needed on these)
Pieris hulda tremblayi TL Pink Mtn., BC (much more work needed)
Pieris hulda angelika TL Keno, Yukon (much more work needed on relationship)

Pieris oleracea passosi TL Palmer, Alaska (syntypes are mixture of *oleracea* & *shapiro* specimens; C. Guppy will fix)
Pieris oleracea oleracea TL N.Y. & Mass.; =? *casta* (species uncertain) TL Great Bear Lake, NWT
 >*Pieris oleracea frigida* TL Caribou I., Straits of Belle Isle, Labrador
Pontia protodice TL New York City, New York
Pontia protodice spring form *vernalis*
Pontia callidice occidentalis TL vic. Empire, Clear Creek Co. Colo.
Pontia callidice occidentalis spring form *vernalis*=*calyce*
Pontia callidice nelsoni TL St. Michael's, Alaska
Pontia sisymbrii ssp. yellow female ups form *flava*
Pontia sisymbrii beringiensis TL 9 mi. N Atlin, BC
Pontia sisymbrii flavitincta TL Cranbrook, BC
Pontia sisymbrii sisymbrii TL 1 mi. NE Storrie, Plumas Co. Calif.; =*elivata* TL Glenwood Springs, Garfield Co. Colo.;
 =*nordini* TL Monroe Can., Sioux Co. Nev.; =*transversa* TL Paradise, Chiricahua Mts., Ariz.
Pontia sisymbrii nigravenosa TL 2 mi. N Red Cloud Mine, Spring Mts., Nev.
Pontia beckerii TL Virginia City, Storey Co. Nev.
Pontia beckerii darker-unh spring form *vernalis*
Ascia monuste blackish female form *nigra*
Ascia monuste monuste TL Suriname
Ascia monuste phileta TL Fla.
Ascia monuste eubotea TL Antilles (stray to Fla.)
Ascia (Ganyra) josephina josepha TL Polochic, Guatemala
Ascia josephina howarthi TL Tembabichi Bay, Baja Calif. Sur, Mex.; =*kuschei* TL San Miguel, nr. Los Mochis,
 Sinaloa, Mex.

Nymphalidae, Libytheinae

Libythea (Libytheana) carinenta ssp. wet-weather violet-gray-unh form *kirtlandi*
Libythea carinenta mexicana TL Jalapa, Veracruz, Mex. (stray to Tex.)
Libythea carinenta larvata TL vic. New Braunfels & San Antonio, Tex.; =*streckeri* TL Donna, Hidalgo Co. Tex.
Libythea carinenta bachmanii TL Mahoning Co., Ohio
Libythea carinenta motya TL Cuba (stray to Tex.)

Nymphalidae, Danainae, Danaini, Danaina

Danaus (Danaus) plexippus plexippus TL Kendall, Orleans Co., N.Y.
Danaus (Anosia) gilippus berenice TL Jamaica
Danaus gilippus thersippus TL Lion Hill, Panama; =*strigosus* TL Guatemala
Danaus (Anosia) eresimus montezuma TL Misantla, Veracruz, Mex.
Danaus eresimus tethys TL Fond Parisien, Haiti

Nymphalidae, Danainae, Danaini, Itunina

Lycorea halia (=“ceres”) *demeter* TL Cuba
Lycorea halia atergatis TL Venezuela

Nymphalidae, Danainae, Ithomiini

Dircenna klugii TL Mex.
Pteronymia cotytto TL Mex. (add)

Nymphalidae, Satyrinae, Elymniini

Lethe (Enodia) portlandia floralae TL Rock Springs, Orange Co., Fla.
Lethe portlandia portlandia TL Georgia
Lethe portlandia missarkae TL 5 mi. S Fayetteville, Washington Co. Ark.
Lethe (Enodia) anthedon TL Lava, Sullivan Co. N.Y.; =*borealis* TL Hymers, Ont.
Lethe (Enodia) creola TL Opelousas, Evangeline Parish, La.
Lethe (Satyrodes) eurydice eurydice TL Morris Arboretum, Philadelphia Co., Penn.; =*transmontana* TL near Compton,
 Compton Co. Que.; =*boisduvallii* TL NW part of Mass.
Lethe eurydice fumosus TL a few mi. S Omaha, Sarpy Co., Neb.
Lethe (Satyrodes) appalachia appalachia TL Conestee Falls, near Brevard, Transylvania Co. N.C.
Lethe appalachia leeuwi TL Wakelee, Cass Co. Mich.

Nymphalidae, Satyrinae, Satyrini

- Coenonympha haydenii* TL Yellowstone Lake, Park Co. Wyo.
Coenonympha stenospecies tullia (includes *tullia*, *kodiak*, *nipisiquit*, *inornata*, *ampelos*, *ochracea*, *california*)
Coenonympha tullia mcisaaci TL Doyles Station, Nfld.
Coenonympha tullia nipisiquit TL Bathurst, N.B. (nearly identical to *inornata* in wing pattern, despite distinctive relict mtDNA; allochronic to *inornata*)
Coenonympha tullia inornata TL lower Saskatchewan River near Lake Winnipeg, Man.; =*quebecensis* TL Chelsea, Ottawa Co. Que.; =*heinemani* Grindstone I., Clayton, Jefferson Co. N.Y.
>*Coenonympha tullia benjamini* TL Waterton Lakes, Alta.; =*bottineauensis* TL just E of Bottineau, N.D.
Coenonympha tullia mackenziei TL Nyarling River, 0.8 mi. from its confluence with Little Buffalo R., NWT
Coenonympha tullia ochracea TL Turkey Creek, Jefferson Co. Colo.; =*phantasma* TL Eldora, Boulder Co. Colo.
Coenonympha tullia pseudobrenda TL road toward Wilson Peak from Atlanta Road, Wilson Creek Range, Lincoln Co. Nev.
Coenonympha tullia furcae TL S Rim Grand Can., Coconino Co. Ariz.
Coenonympha tullia subfusca TL White Mts., Ariz.
Coenonympha tullia mono TL TL Bridgeport, Mono Co. Calif.
Coenonympha tullia sweadneri TL Pine Creek, Shoshone Co. Ida.
Coenonympha tullia ampelos TL probably near Goose Lake, Lake Co., Ore.; =*columbiana* TL Aspen Grove, BC; =>*elko* TL Elko, Elko Co. Nev. (intermediate *ampelos*X*sweadneri*)
>*Coenonympha tullia insulanus* TL Victoria, Vancouver I., BC
Coenonympha tullia eunomia TL Wilhoit, Clackamas Co. Ore.
Coenonympha tullia yontocket TL 4 km W Fort Dick, Del Norte Co. Calif.
Coenonympha tullia californica TL vic. San Francisco, Calif.; =*brenda* TL Los Angeles, Calif.; =>*eryngii* TL Mt. Shasta, Siskiyou Co. Calif. (intermediate toward *ampelos* but very similar to *californica*)
Coenonympha tullia californica gray-unh spring form *siskiyouensis*
Coenonympha tullia kodiak TL Kodiak I., Alaska; =*yukonensis* TL Dawson, Yukon...Eagle City, Alaska...American Creek; =*mixturata* TL Kamchatka Oblast, Koryakia Autonomous Okrug, Russia
Cyllopsis pyracmon henschawi TL vic. Camp Lowell, Pima Co. Ariz.; =*nabokovi* TL Ramsey Can., Huachuca Mts. Cochise Co. Ariz.
Cyllopsis pyracmon form *nabokovi* (Aug.-Sept. gen. with ray along M₁, unh bands farther apart, unh lighter)
Cyllopsis pertepida dorothea TL S Rim Grand Can., Ariz.; =*maniola* TL Cochise Co. Ariz.; =*avicula* TL Fort Davis, Davis Mts., Tex.
Cyllopsis gemma gemma TL Georgia
>*Cyllopsis gemma freemani* TL Pharr, Hidalgo Co. Tex.
Cyllopsis gemma ssp. dark-uns spring form *inductura*
Paramacera xicaque allyni TL Barfoot Park, Chiricahua Mts., Ariz.
Hermeuptychia hermes hermes TL Rio de Janeiro, Brasil
>*Hermeuptychia hermes sosybius* TL?; =*kappeli* TL Lake Okeechobee, S Fla.
Neonympha stenospecies areolatus (includes *areolatus*, *helicta*, *mitchellii*)
Neonympha areolatus TL Pine Barrens Road, Chatham Co. Ga.
Neonympha helicta dadeensis TL Carde Sound Road, Miami-Dade Co. Fla.
Neonympha helicta helicta TL vic. Aiken State Park, Aiken Co. S.C.
Neonympha helicta septentrionalis TL Lakehurst, Ocean Co. N.J.
Neonympha mitchellii TL 10 mi. from Indiana line, Cass Co. Mich.; =>*francisci* TL Fort Bragg, Cumberland Co. S.C. (ocelli often a bit elongate perhaps due to introgression from *areolatus*)
Megisto cymela cymela TL Jacksonboro, Colleton Co., S.C. (work needed on two cohorts ~1 month apart); =*eurvtrix* TL Goose Creek, Berkeley Co. S.C. (more work needed to prove this is a species)
Megisto cymela viola TL Enterprise, Volusia Co. Fla.
Megisto rubricata rubricata TL Waco, McLennan Co. Tex.
Megisto rubricata smithorum TL Marfa-Alpine, west Tex.
Megisto rubricata cheneyorum TL Madera Can., Santa Rita Mts., Pima Co. Ariz.
Cercyonis pegala pegala TL vic. Charleston, S.C.; =*abbotti* TL Chipley, Washington Co. Fla.; =*alope* TL Burke-Screven-Bulloch Cos. Region of Georgia (a form in blend zone of *pegala-carolina*, according to Ronald Gatrell)
Cercyonis pegala carolina TL Conestee Falls, Transylvania Co. N.C. (pale-yellow patch, W.Va.-Carolina mts.)(may include Salem Uplift bug in Missouri?)
Cercyonis pegala maritima TL Oak Bluffs, Dukes Co., Mass., (most of E U.S.; misnamed “*alope*” in numerous works); =>*texana* TL Bastrop, Bastrop Co. Tex.
Cercyonis pegala nephele TL W end of North Channel of Lake Huron, Ont.; =*olympus* TL Chicago, Cook Co. Ill.; =*borealis* TL Trumbull Co. Ohio; =*ino* TL Calgary, Alta.; =*incana* TL Olympia, Thurston Co. Wash.; =*paludum*

TL3.7-4.0 mi. W Lamoille Can. Rd., Nevada state hwy. 227, Pleasant Valley, Elko Co. Nev.; =*baronii* TL Mendocino Co. Calif. (lectotype has some unh ocelli); =>*ariane* TL Meadow Valley Rd., 2 mi. S Spanish Ranch, Plumas Co. Calif. (has a little *gabbii* influence); =>*walkerensis* TL 5.4 mi. NW Bridgeport, Huntoon Camp, U.S. hwy. 395, Swanger Creek, Mono Co. Calif. (slightly intergraded to *gabbii*)

Cercyonis pegala boopis TL Point Richmond, Contra Costa Co. Calif. (no unh ocelli)

Cercyonis pegala australosierra TL N end Linns Valley, WSW Posey, Tulare Co. Calif.

Cercyonis pegala gabbii TL Goose Lake, Lake Co., Ore.; =*paucilineatus* TL 3.8 mi. S Orovada, US hwy. 95, Quinn River Valley, Humboldt Co. Nev.=*carsonensis* TL 3.6 mi. S Nevada rd. 207, Scossa Ranch, Carson River Valley, Douglas Co. Nev.; =*pluvialis* TL 1 mi. N Nye Co. line, White River Valley, White Pine Co. Nev.; =*utahensis* TL Benjamin, ~7300S X 2610W, Utah Co. Utah

Cercyonis pegala stephensi TL between Lake City & Cedarville, Surprise Valley, Modoc Co. Calif.; =*blanca* TL hwy. 140 at Dufurrena Ranch, Charles Sheldon Antelope Range, Humboldt Co. Nev.

Cercyonis pegala wheeleri TL evidently near Owens Lake, Inyo Co. Calif. (extinct)

Cercyonis stenchospecies sthenele (includes *sthenele*, *meadii*)

Cercyonis sthenele sthenele TL San Francisco, Calif. (extinct there); =>*hypoleuca* TL Canada Sauces Oeste, Santa Cruz I., Calif. (intergrade toward *behrii* but nearest *sthenele*)

Cercyonis sthenele behrii TL Pan Toll Camp, Mt. Tamalpais, Marin Co. Calif.

Cercyonis sthenele silvestris TL 2 air mi. SW Pulga, N fork Feather R. Can., Butte Co. Calif.

Cercyonis sthenele sineocellata TL 8.2 mi. N Adel, W side Crump Lake, Lake Co. Ore.

Cercyonis sthenele paulus TL vic. Virginia City, Storey Co. Nev.

Cercyonis sthenele paulus orangish-fw form *damei* TL Cape Royal, N Rim of Grand Can., Ariz.

>*Cercyonis sthenele masoni* TL Black Ridge breaks, Mesa Co. Colo.

>*Cercyonis sthenele masoni* rare orangish-unf form *damei*

Cercyonis meadii melania TL Marfa-Alpine, west Texas; =*mexicana* TL head of Rio Piedras Verdes, Chihuahua, Mex.

Cercyonis meadii meadii TL Bailey, South Platte River, Park Co. Colo. (fewer unh ocelli than *melania*)

Cercyonis meadii alamosa TL 7.0 mi. N jct. hwy. 17 & 112, on hwy. 17, San Luis Valley, Saguache Co. Colo.

Cercyonis oetus pallescens TL 4 rd. mi NE Reese R. crossing on Nev. road 722, Reese River Valley, Lander Co. Nev.; =>*alkalorum* TL 1.5-1.7 rd. mi. E Nev. road 376, Northumberland Mine Road, N end Alkali Flat, Big Smoky Valley, Nye Co. Nev. (an extreme of *pallescens*)

Cercyonis oetus oetus TL W slope Mt. Judah, SSE Donner Pass, Placer Co. Calif.; =*phocus* TL Lac la Hache, BC

Cercyonis oetus charon TL Twin Lakes in Lake Co., to Park Co. Colo.

Gyrocheilus patrobas tritonia TL White Mts., Ariz.

Erebia vidleri TL mts. above Seton Lake, near Lillooet, near Fraser River, BC

Erebia rossii ornata TL Churchill, Manitoba

Erebia rossii rossii TL vic. isthmus of Boothia Pen., Nunavut

>*Erebia rossii gabrieli* TL Mt. McKinley Park=Denali NP, Alaska

>*Erebia rossii kuskoquima* TL Bethel, ~20 mi. up Kuskoquim R. at inland edge of coastal tundra, Alaska

Erebia rossii ssp. ocelli-less form *brucei*

Erebia disa steckeri TL Bethel, ~20 mi. up Kuskoquim R. at inland edge of coastal tundra, Alaska

Erebia disa subarctica TL Mackenzie Delta, NWT

Erebia mancinus TL Rock Lake, 22.5 km NW Pochontas, Alta.

Erebia magdalena magdalena TL alpine zone near Georgetown, Clear Creek Co. Colo.; =*saxicola* TL Adams Lookout, Wilmore Wilderness, 43 km SE Grande Cache, Alta.

Erebia magdalena mckinleyensis TL Sable Pass, Denali NP, Alaska

Erebia fasciata fasciata TL Winter Cove, Cambridge Bay, NWT

Erebia fasciata avinoffi TL Kotzebue Sound, Alaska

Erebia epipsodea ocelli-less form *brucei* TL Cashier Valley, Hall Valley, Park Co. Colo.

Erebia epipsodea TL Rock Lake, 22.5 km NW Pochontas, Alta.; (=homonym *rhodia*); =*sineocellata* TL Fort Qu'Appelle, Sask.; =*fremani* TL vic. Rivercourse, Alta.; =*remingtoni* TL Dawson, Yukon; =*hopfingeri* TL Black Can. S of Methow, Okanogan Co. Wash.)

Erebia discoidalis TL Cumberland House, 54°N, Sask.; =*mcDunnoughi* TL Whitehorse, Yukon

Erebia stubbendorffii alaskensis TL American Creek, Eagle City, Alaska (*stubbendorffii* is evidently same sp. as *pawloskii*, see Gorbunov book)

Erebia stubbendorffii canadensis TL above Churchill, Man.

Erebia stubbendorffii ethela TL Trout Creek, Yellowstone Lake, Park Co. Wyo.

Erebia stubbendorffii demmia TL Chicago Basin, San Juan Mts., La Plata Co. Colo.

Erebia dabanensis youngi TL mts. between Forty-Mile & Mission Creeks, Alaska

>*Erebia dabanensis herscheli* TL Herschel I., Beaufort Sea, Alaska

>*Erebia dabanensis riley* TL Denali NP, Alaska

Erebia kozhantshikovi lafontainei TL Mt. Decoeli, St. Elias Mts., Yukon
Erebia occulta TL Dempster Hwy. km 150, Yukon; =*phellea* TL km 66-68 Council Rd., Seward Pen., Alaska
Erebia callias callias TL Mosquito Pass, Park-Lake Cos. Colo.
Erebia callias ocelli-less form *brucei=sinocho*
Neominois ridingsii pallidus TL 4.8 rd. mi. N Nevada road 359, Larkin Dry Lake Road, Alkali Valley, Mineral Co. Nev.
Neominois ridingsii ridingsii TL Loveland, Larimer Co. Colo.; =>*minus* TL N side Moose Jaw, Sask.
>*Neominois ridingsii neomexicanus* TL Bluewater Can., Zuni Mts., Cibola Co. New Mex.
Neominois ridingsii curicata TL Big Mesa, Gunnison Co. Colo.
Neominois ridingsii wyomingo TL 6 mi. WNW Midwest, I-25, Natrona Co. Wyo.
Neominois ridingsii streichii TL Mt. Jefferson, Nye Co. Nev.; =*dionysus* TL 5 mi. N Trumbull, Hurricane Ridge, Mohave Co. Ariz.
Neominois ridingsii colobiterra TL 8 mi. NNW Parachute, Garfield Co. Colo.
Oeneis (“*Protoeneis*”) *uhleri uhleri* TL Georgetown or eastward toward Idaho Springs, Clear Creek Co. Colo.; =>*varuna* TL Dacotah Terr. (smaller, little different); =>*reinthali* TL near Gothic, Gunnison Co. Colo. (some dark, but variable, little different)
Oeneis uhleri cairnesi TL White River district, Yukon; =*kluanensis* TL NW Burwash Landing, Quill Creek Area, St. Elias Mts., Yukon
Oeneis uhleri nahanni TL Lone Mtn. (Mt. Tha-on-tha), Nahanni Range, Mackenzie Mts., NWT
Oeneis (*Oeneis*) *nevadensis gigas* TL Vancouver I., BC
Oeneis nevadensis nevadensis TL Little Volcano Mtn., ~7 air mi. SE Quincy, Plumas Co. Calif.
Oeneis nevadensis iduna TL Mendocino Co. Calif.
Oeneis (*nevadensis*) *macounii* TL Lake Nipigon, Ont.
Oeneis stenchospecies chryxus (includes *chryxus*, *calais*, *alberta*)
Oeneis chryxus TL Rock Lake, 22.5 km NW Pochontas, Alta.
Oeneis calais strigulosa TL Gull Lake, (Raggedy Crk.) near Minden, Ont.
Oeneis calais calais TL Rupert House, Hudson Bay
Oeneis calais caryi TL vic. 59°54'N, 111°40'W near W side Slave River, Alta.
Oeneis calais altacordillera TL Baldy Peak, Sangre de Cristo Mts., Custer Co. Colo.
Oeneis calais valerata TL Hurricane Ridge, Olympic Mts., Wash.
Oeneis calais stanislaus TL Deadman Creek, Sonora Pass, Tuolumne/Alpine Cos. Calif.
Oeneis calais ivallda TL summit Freel's Peak & Tallac Mtn., near Lake Tahoe, near Nevada boundary, Placer Co. Calif.
Oeneis alberta unnamed oranger ssp. Peace River, Alta.-BC
Oeneis alberta ojibwe TL Pine Ridge, Man.
Oeneis alberta alberta TL Fish Creek Prov. Park, ~1 mi. W of Bow River, Calgary, Alta.; =*oslari* TL South Park between Kenosha Pass & Fairplay, Park Co. Colo.; =*capulinensis* TL N rim Capulin Mtn., Union Co New Mex.
Oeneis alberta daura TL Mt. Graham, Pinaleño Mts., Graham Co. Ariz.
Oeneis bore taygete TL Hopedale, Labrador; =*gaspeensis* TL Mt. Albert, Gaspé NP, Quebec
Oeneis bore hanburyi TL vic. Coronation Gulf...Grays Bay, NWT; =*mckinleyensis* TL Denali NP, Alaska; =*fordi* TL Bethel, ~20 mi. up Kuskoquim River at inland edge of coastal tundra, Alaska
Oeneis bore edwardsi TL Rio Grande Pyramid, San Juan Mts., Hinsdale Co. Colo.
Oeneis jutta alaskensis TL mts. between Forty-Mile & Mission Creeks, NE Alaska...American Creek, Alaska (European ssp. *jutta* similar but usually? has a tawny spot on upf tornus in cell CuA₂); =*leussleri* TL 30 mi. SW Aklavik & immediately W of Mackenzie Delta, adjacent to escarpment, NWT; =*harperi* TL Gillam, Man.; =*ascerta* TL West White Pine Truck Trail, Solana State Forest, Aitkin Co. Minn.; =>*chermocki* TL Banff, Alta. (a bit intermediate toward *reducta*); (Note: *balder=balderi* [lapsus calami] is a European toxtaxon synonym of ssp. *jutta* that does not apply to Labrador or N.A., TL Lapland, Norway, & Sweden)(actual Labrador bugs are intermediate *alaskensis*X*terraenovae*)
Oeneis jutta terraenovae TL DoYLES Station, Nfld.
Oeneis jutta ridingiana TL Riding Mts., Man.
Oeneis jutta reducta TL Upper Gallatin Can., Gallatin Co. Mont. (weak unh band)
Oeneis alpina excubitor TL hilltop 4 mi. E Mt. Chambers, Ogilvie Mts., Yukon
Oeneis melissa semidea TL White Mts., N.H.
Oeneis melissa melissa TL Chateau Bay, Labrador coast
Oeneis melissa assimilis TL Repulse Bay, Nunavut; =*arctica=simulans* both TL Bernard Harbour, Nunavut; =*semplei* TL where Little Cape Jones R. discharges into Hudson Bay
Oeneis melissa gibsoni TL Bethel, ~20 mi. up Kuskoquim River at inland edge of coastal tundra, Alaska
Oeneis melissa atlinensis TL Mt. Vaughan, Atlin, BC

Oeneis melissa beanii TL alpine peaks near Lake Louise, Banff NP, Alta.
Oeneis melissa lucilla TL Hall Valley, Park Co. Colo.
Oeneis stenchospecies polixenes (includes *norna?*, *polixenes*, *yukonensis*, *philipi*, etc., needs work)
Oeneis polixenes polixenes TL Chateau Bay, Labrador coast
Oeneis polixenes katahdin TL Mt. Katahdin, Penobscot Co. Maine
Oeneis polixenes subhyalina TL vic. isthmus of Boothia Pen., Nunavut; =*peartiae* TL Winter Cove, Cambridge Bay, Victoria I., NWT, Yukon
>*Oeneis polixenes beringiensis* TL Chukotka Pen., Magadan Oblast, Chukotka Autonomous Okrug, Russia; =*luteus* TL Pink Mtn., BC
>*Oeneis polixenes woodi* TL Herschel I., Yukon
Oeneis polixenes yukonensis TL Klutlan glacier, Yukon
Oeneis polixenes brucei TL Bullion Mtn., Hall Valley, Park Co. Colo.
Oeneis (norna?) philipi TL km 1 Dempster Hwy. at Klondike R., Yukon

Nymphalidae, Morphinae, Morphini

Morpho polyphemus polyphemus TL Mex.
Morpho peleides montezuma TL --(add)

Nymphalidae, Charaxinae, Anaeini

Anaea troglodyta floridalis TL Florida City, Miami-Dade Cos. Fla.
Anaea aidea TL Bay of Campeche, SE Mex.; =*morrisonii* Mt. Graham, Pinaleno Mts., Graham Co., Ariz.
Anaea andria TL probably Ill. or Missouri
Anaea (Memphis) glycerium glycerium TL Mex.
Anaea (Memphis) pithyusa pithyusa TL Potrero, Veracruz, Mex.
Anaea (Memphis) echemus echemus TL Cuba
Anaea (Memphis) forreri TL Presidio, Veracruz, Mex.
Archaeoprepona demophon centralis TL---(add)

Nymphalidae, Nymphalinae, Limenitidini, Limenitidina

Limenitis archippus floridensis TL Apalachicola, Fla.
Limenitis archippus watsoni TL Alexandria, Rapides Parish, La. (intermediate between *archippus* toward *floridensis*, but only upf darker)
Limenitis archippus archippus TL N.Y.
Limenitis archippus lahontani TL Fernley, Lyon Co. Nev.; =>*idaho* TL 3.1 mi. S Jackpot, Elko Co. Nev. (near *lahontani*, intermediate to *archippus*)
Limenitis archippus obsoleta TL at or S of Tucson, Ariz.
Limenitis archippus hoffmanni TL Misantra, Veracruz, Mex.
Limenitis stenchospecies arthemis (includes *artemis*, *astyanax*, *weidemeyerii*, *lorquini*)
Limenitis arthemis rubrofasciata TL Sask.-Man.-Alta.; =*burrisonii* (nomen dubium, O.D. resembles *rubrofasciata*, possible *L. lorquini* ssp., C. Guppy will fix)
Limenitis arthemis arthemis TL N.Y., probably Catskill Mts.
Limenitis arthemis astyanax TL?
Limenitis arthemis arizonensis TL near Tucson, Ariz.
Limenitis arthemis unnamed (redder uns, Nuevo Leon Mex., & intergrading near *arizonensis* in Chisos Mts. Tex.)
Limenitis weidemeyerii angustifascia TL SE McNary, White Mts., Ariz.; =*nevadae* TL Spring Mts., Nev.; =*sinefascia* TL near Prescott, Ariz.; =*siennafascia* TL near Barfoot Park, Chiricahua Mts., Ariz.
Limenitis weidemeyerii weidemeyerii TL Lakewood, Jefferson Co. Colo.; =*oberfoelli* TL Badlands, Slope Co. N.D.
Limenitis weidemeyerii latifascia TL 10 mi. S Pocatello, Mink Crk., Bannock Co. Ida.
Limenitis weidemeyerii orange fw-tip form *fridayi* (intergrades [N Nev.]/hybrids [W Nev.] with *lorquini*)
Limenitis lorquini ilgae TL Bamberton, Jones Crk. road to Oliphant Lake, BC
Limenitis lorquini itelkae TL near Keremeos, BC
Limenitis lorquini lorquini TL hwy 70 at Soda Creek, Plumas Co. Calif.; =*eavesii* TL Virginia City, Storey Co. Nev.
Limenitis lorquini powelli TL San Bernardino Co. Calif.
Limenitis lorquini pallidafacies TL Trail Can., White Mts., Esmeralda Co. Nev.
Adelpha fessonia fessonia TL Honduras
Adelpha basiloides TL Mex.
Adelpha eulalia TL Mex.
Adelpha (bredowii?) californica TL Calif.

Nymphalidae, Nymphalinae, Heliconiini, Heliconiina

Dione moneta poeyi TL Oaxaca, Mex.
Dione (Agraulis) vanillae nigrrior TL Upper Matecumbe Key, Fla.
Dione vanillae incarnata TL near Durango City, Durango, Mex.
Dryas iulia largo TL Key Largo, Monroe Co. Fla.
Dryas iulia moderata TL Honduras
Dryadula phaetusa TL West Indies
Heliconius (Eueides) isabella eva TL Panama; =*zorcaon* TL Mex., Honduras, Guatemala
Heliconius charithonia tuckeri TL Winter Park, Orange Co. Fla.
Heliconius charithonia vazquezae TL Campeche, Mex.
Heliconius erato petiverana TL Mex., Honduras

Nymphalidae, Nymphalinae, Heliconiini, Argynnina

Euptoieta claudia TL Jamaica
Euptoieta hegesia meridiania TL Espirito Santo, Brasil; =*hoffmanni* TL Escuiñapa, Sinaloa, Mex.
Argynnis (Speyeria) diana TL Jamestown, James City Co., Va.
Argynnis (Speyeria) cybele cybele TL New York City, N.Y.; =*novascotiae* TL White Point Beach, Queens Co., N.S.
Argynnis (S.) cybele krautwurmi TL Les Cheneaux, Mackinac Co. Mich.
Argynnis (S.) cybele pseudocarpenteri TL Sand Ridge, Man.
Argynnis (S.) cybele carpenterii TL near top Taos Peak, Taos Co., New Mex.
Argynnis (S.) cybele charlottii TL Glenwood Springs, Garfield Co., Colo.
Argynnis (S.) cybele leto TL near Carson City, Ormsby Co., Nev.; =*letona* TL City Creek Can., Salt Lake Co. Utah
Argynnis (S.) cybele pugetensis TL Stimson Creek, near Belfair, Mason Co. Wash.; =>*eileenae* TL Bear River Ridge Rd., 7 mi. SE Ferndale, Humboldt Co. Calif. (intergrade near *pugetensis*)
Argynnis (Speyeria) aphrodite cullasaja TL trail to Scaly Mtn., Macon Co. N.C.
Argynnis (S.) aphrodite alcestis TL Galena, Jo Davies Co. Ill.
Argynnis (S.) aphrodite aphrodite TL New York City, N.Y.; =*winni* TL St. Calixte de Kilkenny, 40 mi. from Montreal, Que.
Argynnis (S.) aphrodite manitoba TL Sand Ridge, SE Man.; =*mayae* TL Sand Ridge, Man.
Argynnis (S.) aphrodite columbia TL Lac la Hache & Quesnel Lake, BC
Argynnis (S.) aphrodite whitehousei TL Jaffray, BC; =*ethne* TL near Sheridan, Big Horn Mts., Wyo.
Argynnis (S.) aphrodite byblis TL White Mts., Ariz.
Argynnis (Speyeria) nokomis coeruleascens TL head of Rio Piedras Verdes, Sierra Madre, Chihuahua, Mex.
Argynnis (S.) nokomis nitocris TL White Mts., Ariz.
Argynnis (S.) nokomis nokomis TL “Sneffels Mts.” [alpine mts., so error], Ouray Co. Colo. [possibly Uncompahgre R. near Ridgway, but type was evidently coll. at Beulah, New Mex. by Mrs. T. Cockerell, & sold to E. Osler; bug phenotype is the same in both areas]; =*nigrocaerulea* TL Beulah, Sapello Can., San Miguel Co. New Mex.
Argynnis (S.) nokomis apacheana TL vic. Independence, Inyo Co. Calif.; =*carsonensis* TL Scossa Ranch, Carson Valley, Douglas Co. Nev.
Argynnis (Speyeria) idalia idalia TL West Farms, New York City, N.Y.
>*Argynnis (S.) idalia occidentalis* TL 1 mi. SE Crete, Will Co., Ill
Argynnis (Speyeria) mormonia bischoffii TL Kodiak I., Alaska
Argynnis (S.) mormonia opis TL Bald Mtn., Cariboo, BC; =*jesmondensis* TL Jesmond, BC
Argynnis (S.) mormonia eurynome TL Fairplay, Park Co. Colo.; =*clio* TL Moose P.O., Jackson Hole, Wyo.; =*washingtonia* TL Paradise Valley, Mt. Rainier, Wash.
Argynnis (S.) mormonia kimimela TL Terry Peak, Black Hills, Lawrence Co. S.D.
Argynnis (S.) mormonia erinna TL Spokane Falls, Spokane Co. Wash.
Argynnis (S.) mormonia artonis TL “Wells” [actually Ruby Mts.], Elko Co. Nev.
Argynnis (S.) mormonia mormonia TL (lectotype mislabeled Lac Sal) Little Valley, W of Washoe Lake, Washoe Co. Nev.; =*arge* TL Monache Meadows, Tulare Co. Calif.; =*obsidiana* TL Sawmill Meadow, Glass Mtn., Mono Co. Calif.
Argynnis (S.) mormonia luski TL White Mts., Ariz.
Argynnis (Speyeria) adiate adiate TL Santa Cruz Mts., Santa Cruz Co. Calif.
Argynnis (S.) adiate clemencei TL Atascadero, San Luis Obispo Co. Calif.
Argynnis (S.) adiate atossa TL valley 4 mi. from Tehachapi, Tehachapi Mts., Calif. (extinct)
Argynnis (Speyeria) hydaspae hydaspae TL Gold Lake, Sierra Co. Calif.; =*viridicornis* TL Greenhorn Mts., Kern Co. Calif.; =*tehama* TL Covelo Road, at Government Flat, Tehama Co. Calif.

Argynnis (S.) hydaspe purpurascens TL Soda Springs, Siskiyou Co. Calif.
Argynnis (S.) hydaspe davisi TL McClellan Mtn. peat bog, Humboldt Co. Calif.
Argynnis (S.) hydaspe rhodope TL Caribou Trail, 2500', BC; =*sakuntala* TL Kaslo, BC; =*conquista* TL NW Wyo. (mis-labeled "Little Tesuque Can., near Santa Fe, New Mex.")
Argynnis (S.) hydaspe minor TL Mt. McLean, near Lillooet, BC
Argynnis (Speyeria) callippe macaria TL Havilah, Kern Co. Calif. (silvered); =*laurina* TL Greenhorn Mts., Kern Co. Calif. (unsilvered form)
Argynnis (S.) callippe callippe TL San Francisco, Calif.; =>*comstocki* TL Los Angeles, Calif.
Argynnis (S.) callippe rupestris TL Moore Creek Rd. S of hwy. 120, Mariposa Co. Calif.; =*inornata* TL vic. Camptonville, Yuba Co. Calif.; =*hagemani* TL Shingletown, Shasta Co. Calif.
Argynnis (S.) callippe juba TL Downieville, Sierra Co. Calif.; =*laura* TL vic. Downieville, N fork Yuba R., Sierra Co. Calif.; =*sierra* TL Gold Lake, Sierra Co. Calif.
Argynnis (S.) callippe liliana TL Bale Station, near Mt. St. Helena, Napa Co. Calif.
Argynnis (S.) callippe shasta TL 8 rd. mi. SE McCloud River Bridge, Shasta Co. Calif.; =*adiasteoides* TL Cahto Peak summit, Mendocino Co. Calif.
Argynnis (S.) callippe elaine TL Butte Falls, Jackson Co. Ore.
Argynnis (S.) callippe semivirida TL Aspen Grove, BC
Argynnis (S.) callippe chilcotinensis TL Riske Creek, BC
Argynnis (S.) callippe nevadensis TL Lake Washoe, Washoe Co. Nev.
Argynnis (S.) callippe calgariana TL head of Pine Creek, Alta.; =*gallatini* TL Elkhorn Ranch, Upper Gallatin Can., Gallatin Co. Mont.; =*harmonia* TL Mt. Wheeler, Snake Range, White Pine Co. Nev.
Argynnis (S.) callippe meadii TL Turkey Creek Junction, N Tinytown, Jefferson Co. Colo.
Argynnis (Speyeria) atlantis atlantis TL Hunter, Catskill Mts., Green Co. N.Y.; =*canadensis* TL Doyles Station, Nfld.
>*Argynnis (S.) atlantis hollandi* TL Riding Mts., Man.
Argynnis (S.) atlantis pahasapa TL Deerfield Res., Pennington Co. S.D.
Argynnis (S.) atlantis sorocko TL 1 mi. NE Mt. Judge, Clear Creek Co. Colo.
Argynnis (Speyeria) hesperis beani TL Banff, Alta.; =>*hutchinsi* TL T2N R1W, Jefferson Co. Mont. (intermediate to *tetonia*)
>*Argynnis (S.) hesperis brico* TL km 23.5 Castle Creek Forest Service Rd., 25 air km S McBride, Cariboo Mts., BC
Argynnis (S.) hesperis dennisi TL Beulah, Manitoba; =*helena* TL Fort Edmonton, Alta.
Argynnis (S.) hesperis ratonensis TL Raton Mesa, Colfax Co. New Mex.
Argynnis (S.) hesperis greyi TL Lamoille Can., Ruby Mts., Elko Co. Nev.
Argynnis (S.) hesperis irene TL Gold Lake, Sierra Co. Calif.; =*hanseni* TL Anthony Peak on Covelo Road, Tehama Co. Calif.
>*Argynnis (S.) hesperis elko* TL Wildhorse Creek Cgd., ~10 mi. S Mountain City, Owyhee R., Elko co. Nev.
>*Argynnis (S.) hesperis cottlei* TL near Alturas, Modoc Co. Calif.; =*dodgei* TL Diamond Lake, Douglas Co. Ore.; =*viola* TL Trail Creek, Sawtooth Mts., Custer Co. Ida.
Argynnis (S.) hesperis tetonia TL Teton Mts. region, Wyo.
>*Argynnis (S.) hesperis wasatchia* TL Payson Can., Utah Co. Utah (intergrading toward *chitone*)
Argynnis (S.) hesperis lurana TL Harney Peak, Black Hills, S.D.
Argynnis (S.) hesperis hesperis TL Turkey Creek Jct., Jefferson Co. Colo.
Argynnis (S.) hesperis electa TL Twin Lakes, Lake Co. Colo.; =*cornelia* TL Ouray, Ouray Co. Colo.; =*nikias* TL Jemez Springs, Sandoval Co. New Mex.
Argynnis (S.) hesperis dorothea TL Sandia Peak and road 2/3 of way down mts. to S, Sandia Mts., New Mex.
>*Argynnis (S.) hesperis capitaneus* TL Padilla Point, crest of Capitan Ridge, Lincoln Co. New Mex.
Argynnis (S.) hesperis nausicaa TL Rock Can., Pinaleño Mts., Graham Co. Ariz.
Argynnis (S.) hesperis schellbachi TL Neal Springs, N Rim Grand Canyon, Coconino Co. Ariz.
Argynnis (S.) hesperis chitone TL Cedar Breaks Nat. Mon., Iron Co., Utah
Argynnis (Speyeria) egleis tehachapina TL highest peak in Tehachapi Mts., Kern Co. Calif.
Argynnis (S.) egleis egleis TL vic. Gold Lake, Sierra Co. Calif.
Argynnis (S.) egleis oweni TL Mt. Shasta, Siskiyou Co. Calif.; =*volaboli* TL South Yolla Bolly Mtn., Tehama Co. Calif.
Argynnis (S.) egleis mattooni TL Dry Lake Mtn., Siskiyou Mts., Siskiyou Co. Calif.
Argynnis (S.) egleis moeckii TL Skookum Mdw., Walker Rim, Klamath Co. Ore.
Argynnis (S.) egleis utahensis TL City Creek Can., Salt Lake Co., Utah; =*toyabe* TL Kingston Can., Toiyabe Mts., Nev.; =*reidi* TL Wheeler Peak Cgd., Snake Range, White Pine Co. Nev.
Argynnis (S.) egleis mcdunnoughi TL Elkhorn Ranch Resort, upper Gallatin Can., Gallatin Co. Mont.
Argynnis (S.) egleis secreta TL perhaps Rabbit Ears Pass, Routt Co. Colo.
Argynnis (S.) egleis linda TL Heyburn Peak, Sawtooth-Boise, Custer Co. Ida.
Argynnis (S.) egleis albrighti TL Highwood Mts., Chouteau Co. Mont.

Argynnis (Speyeria) zerene sitka TL Haines, Alaska
Argynnis (S.) zerene bremnerii TL Vancouver, BC
Argynnis (S.) zerene hippolyta TL Oceanside, Tillamook Co. Ore.
 >*Argynnis (S.) zerene myrtleae* TL San Mateo, San Mateo Co. Calif. (extinct there); =*puntareyes* TL Point Reyes dunes, Marin Co. Calif.; =*sonomensis* TL S end Sonoma Mts., N of Lakeville Hwy. X Rt. 37, Sonoma Co. Calif.
Argynnis (S.) zerene behrensii TL Mendocino, Mendocino Co. Calif.
Argynnis (S.) zerene gloriosa TL W of Selma, Illinois R. Valley, Josephine Co. Ore.
Argynnis (S.) zerene zerene TL hwy. 70 at Chambers Creek, Plumas Co. Calif.; =*conchyliaetus* TL Mt. Shasta, Siskiyou Co. Calif.; =*monticola* TL Hog Ranch, Mather, Tuolumne Co. Calif.
Argynnis (S.) zerene gunderi TL mts. above Davis Creek Ranger Station, N of Alturus, Modoc Co. Calif.; =*cynna* TL Ruby Valley, Elko Co; Nevada
Argynnis (S.) zerene picta TL Aspen Grove, BC; =*garretti* TL Cranbrook, BC
Argynnis (S.) zerene platina TL loc. of Holland's lectotype, perhaps now Ogden, Weber Co., Utah; =*pfoutsii* TL Mt. Loafer, near Payson, Utah Co. Utah
Argynnis (S.) zerene sinope TL Estes Park area, Rocky Mtn. NP, Colo.
Argynnis (S.) zerene malcolmi TL Mammoth, Mono Co. Calif.
Argynnis (S.) zerene carolae TL Charleston Park, Spring Mts., Nev. (nearest *malcolmi*, see *Papilio* [N.S.] #19)
Argynnis (Speyeria) coronis semiramis TL San Bernardino [Mts.], Calif.; =*hennei* TL near summit Mt. Pinos, Frazier Mtn. Park, Ventura Co. Calif.
Argynnis (S.) coronis coronis TL Gilroy, Santa Clara Co., Calif.
Argynnis (S.) coronis simaetha TL Black Can., Cascade Mts., near Brewster, Okanogan Co. Wash.
Argynnis (S.) coronis snyderi TL City Creek Can., Salt Lake Co. Utah
Argynnis (S.) coronis halcyone TL evidently Hartsel to Howbert, Park Co. Colo.
Argynnis (Speyeria) edwardsii TL Empire, Clear Creek Co., Colo.; =*montana* TL Montana
Boloria (Boloria) alaskensis alaskensis TL mts. between Forty-Mile & Mission Creeks, Alaska; =*reiffi* TL BC
Boloria alaskensis halli TL vic. Green River Pass, Wind River Range, Sublette Co. Wyo.
Boloria eunomia tricularis TL Nain, Labrador
Boloria eunomia dawsoni TL Hymers, Ont.
Boloria eunomia nichollae TL N end of Wilcox Pass, Alta. (also occurs Coast Range SW BC)
Boloria eunomia denali TL Denali NP, Alaska
Boloria eunomia caelestis TL Hall Valley, Park Co. Colo.; =*ursadentis* TL Beartooth Pass, ½ mi. S Montana-Wyo. border, Park Co. Wyo.; =>*laddi* TL Snowy Range, Albany Co. Wyo.
Boloria (Clossiana) selene terraenovae TL E part of Nfld. (*selene* is correct name if *myrina* & *selene* intergrade across Eurasia or they are conspecific for other reasons; Gorbunov book lists N America? in his range of *B. selene*)
Boloria (selene?) selene atrocotalis TL Chicoutimi, Quebec; =*albequina* TL White Horse Pass, Yukon
Boloria (selene?) selene myrina TL SE N.Y.; =*marilandica* TL near Beltsville, Md.
 >*Boloria (selene?) selene sabulocollis* TL Smith Lake, Sheridan Co. Neb.
Boloria (selene?) selene nebraskensis TL Dodge Co., Neb.
Boloria (selene?) selene tollandensis TL Tolland, Gilpin Co. Colo.
Boloria epithore epithore TL Saratoga, Santa Cruz Mts., Santa Clara Co. Calif.
Boloria epithore chermocki TL 2.9 mi. E Dolph, Yamhill Co. Ore.; =*uslui* TL Shingle Creek Road, Keremeos, BC; =*sierra* TL Sentinel Dome, Yosemite NP, Calif.
Boloria epithore sigridae TL Tats Lake, St. Elias Mts., BC
Boloria bellona TL?; =*jenistai* TL vic. Rivercourse, Alta.; =>*toddi* TL St. Margarets River, near or under Lac-Walker Res., Que.
Boloria (frigga?) gibsoni TL Barter I., N Alaska
Boloria frigga saga TL Labrador
Boloria frigga sagata TL Hall Valley, Park Co. Colo.
Boloria improba improba TL Winter Cove & Cambridge Bay, NWT; =*youngi* TL mts. between Forty-Mile & Mission Creeks, NE Alaska (yellow aberration)
Boloria improba nunatak TL alpine zone Torrens River, Alta.
Boloria improba harryi TL ½ mi. NW Mt. Chauvenet, Wind River Mts., Fremont Co. Wyo.
Boloria improba acrocneuma TL Mt. Uncompahgre, San Juan Mts., Hinsdale Co. Colo.
Boloria alberta TL Lake Louise (Mt. St. Piran or vic.), Alta.
Boloria (tritonina?) astarte TL alpine zone near Rock Lake, NW Pocahontas, Alberta
Boloria (tritonina?, astarte?) distincta distincta TL Harrington Crk., Yukon
Boloria (tritonina?, astarte?) distincta tshukotkensis TL Magadan Oblast, Chukotka Autonomous Okrug, Russia
Boloria polaris polaris TL Cap Nord, Finmark, Norway; =*homeyeri* TL 74° & 76° in Greenland
Boloria polaris stellata TL Churchill, Man.

Boloria freija browni TL Independence Pass, Pitkin Co. Colo.
Boloria freija freija TL Lapp. Liljeblad, W Gulf of Bothnia & Lappland, Sweden
Boloria tarquinius tarquinius TL vic. isthmus of Boothia Pen., Nunavut (in appearance & habitat is same sp. as *natazhati*)
Boloria tarquinius nabokovi TL near Mt. St. Paul, ravine N of Summit Lake, km 621.7 Alaska Hwy., Sentinel Range, BC
Boloria tarquinius natazhati TL N of Mt. Natazhat, SW Yukon; =>*bankslandia* TL Victoria I., NWT
Boloria stenospecies titania (includes *titania*, *grandis*, *chariclea*)
Boloria titania montinus TL summit Mt. Madison, head of Tuckerman's Ravine, White Mts., N.H.
Boloria titania grandis TL Hymers, Ont. (multiple wing traits identical to European *titania*, overwhelming tiny variable valva rod difference); =>*ranieri* TL Paradise Valley, Mt. Rainier, Wash.; (= *boisduvalii* TL east of Europe [doubtfully Labrador] has no valid evidence that it is Nearctic)
Boloria titania helena TL Mosquito Pass, Lake-Park Cos., Colo.; = *ingens* TL Yellowstone Park, Wyo.
Boloria titania helena=*ingens* melanic female form *sangredecristo* (on Beartooth Plateau, prevalent at high altitude)
Boloria titania sangredecristo TL Hermit Pass, Sangre de Cristo Mts., Custer Co. Colo. (all females melanic)
Boloria (chariclea) titania arctica TL Greenland
Boloria (chariclea) titania butleri TL Cape Thompson, Alaska
Boloria kriemhild TL Utah

Nymphalidae, Nymphalinae, Cyrestini

Marpesia zerynthia zerynthia TL "Mexico, Amer. Med. Et. Centr."; = *coresia* TL Brasil; (*lentigera* is nomen dubium due to worthless TL of Colombia...Peru...Texas)
Marpesia chiron TL Jamaica
Marpesia petreus petreus TL Suriname
Marpesia eleucea eleucea TL Havana, Cuba

Nymphalidae, Nymphalinae, Coeini

Historis odius odius TL West Indies
Historis odius dious TL Suriname
Historis acheronta acheronta TL Brasil

Nymphalidae, Nymphalinae, Apaturini

Doxocopa pavon theodora TL Ferdinand De Jagua, Cuba
Doxocopa laure laure TL Bay of Honduras
Asterocampa celtis reinthali TL Ocoee, Orange Co., Fla.
Asterocampa celtis celtis TL Savannah River, Burke Co. Ga.; = *alicia* TL vic. New Orleans, La.
Asterocampa celtis jeffermont TL Indian Gulch, Jefferson Co. Colo.
Asterocampa celtis montis TL Fort Grant & Mt. Graham, Pinaleño Mts., Graham Co. Ariz.
Asterocampa celtis antonia TL vic. Norse, Bosque Co., Tex.
Asterocampa leilia TL Camp Lowell & Sonoita Valley, Santa Cruz Co. Ariz.; = *cocles* TL Hidalgo, Hidalgo Co. Tex.
Asterocampa clyton ssp. black-uph form *geneumbrosa*
Asterocampa clyton ssp. uniformly-gray-unh form *apunctus*
Asterocampa clyton flora TL Palatka, Putnam Co. Fla.
Asterocampa clyton clyton TL Savannah River, Burke Co. Ga.; = *proserpina* TL Denison to New Jefferson, Iowa; = *ocellata* TL Coalburgh, Kanawha Co., W.Va.
Asterocampa clyton texana TL Round Mtn., Blanco Co. Tex.; = *louisa* TL Pharr, Hidalgo Co. Tex.; = *subpallida* TL Baboquivari Mts., Pima Co. Ariz.
Asterocampa idyja argus TL El Progreso, Motagua Valley, Guatemala

Nymphalidae, Nymphalinae, Biblidini

Dynamine postverta (= *mylitta* TL Suriname) *mexicana* TL de Presidio, Veracruz, Mex.
Dynamine dyonis TL Mex.
Epiphile adrasta adrasta TL Mex.
Temenis laothoe hondurensis TL Honduras
Hamadryas februa ferentina TL?
Hamadryas glauconome diasia TL Puerto Rico & Haiti (*amphichloe* is obvious allopatric ssp. of *glauconome*)
Hamadryas glauconome grisea TL Sinaloa, Mex.
Hamadryas atlantis lelaps TL Ventanas, Durango, Mex.

Hamadryas feronia farinulenta TL Honduras
Hamadryas guatemalena TL Guatemala
Hamadryas iphthime joannae TL Chiltepec, Oaxaca, Mex. (very doubtful in U.S.)
Hamadryas amphinome mexicana TL Mex.
Myscelia ethusa ethusa TL Mex.
Myscelia cyananthe skinneri TL Bayemena, Sinaloa, Mex.
Eunica monima TL?; =*modesta* TL Guatemala; =*fairchildi* TL Cuba
Eunica tatila tatila TL Mex.
Eunica tatila tatilista TL Rae Town, Jamaica
Mestra amymone TL Nicaragua
Biblis hyperia aganisa TL Mex.

Nymphalidae, Nymphalinae, Nymphalini

Smyrna blomfieldia datis TL west Mex.
Hypanartia lethe TL West Indies
Vanessa virginiensis TL Virginia
Vanessa cardui cardui TL Sweden
Vanessa carye annabella TL W Arroyo Verde Park, Ventura, Ventura Co. Calif. (identical to *Colombia carye* except for a tiny valva point)
Vanessa atalanta rubria TL Mex.
Vanessa tameamea TL Oahu, Hawaii
Aglais milberti TL vic. Philadelphia, Penn.; =*viola* TL Doyles Station, Nfld.; =*subpallida* TL Westcliffe, Custer Co. Colo.; =*pullum* TL Ditch Camp, White Mts., Ariz.
Aglais urticae urticae TL Sweden
Roddia l-album j-album TL N.Y., Philadelphia, New Harmony Indiana (larger uph submarginal yellowish spots than *l-album*); =*watsoni* TL Sicamous, BC; (*vau-album* is nomen nudum)
Nymphalis californica TL Queen Lily Cgd. near Belden, Plumas Co. Calif.; =*herri* TL Buckhorn Mts., Okanogan Co. Wash.
Nymphalis antiopa TL Sweden; =*hyperborea* TL Alaska; =*lintnerii* TL probably Schoharie, Schoharie Co. N.Y.; (these may be weak ssp.)
Polygonia interrogationis TL?
Polygonia interrogationis black-uph summer form *umbrosa*
Polygonia comma TL Mass.
Polygonia comma black-uph summer form *umbrosa*
Polygonia satyrus satyrus TL vic. Empire, Clear Creek Co. Colo.; =*chrysoptera* TL Lake & Mendocino Cos. Calif.; =>*neomarsyas* TL Salmon Meadows, Brewster, Okanogan Co. Wash. (intermediate toward *transcanada* but closer to *satyrus*)
Polygonia satyrus transcanada TL Temiscouata Co. Que.
Polygonia progne TL N.Y.
Polygonia progne black-uph summer form *umbrosa*
Polygonia oreas silenus TL Portland, Multnomah Co., Ore.; =>*threatfuli* TL Kalamalka L. Prov. Park, Vernon, BC (intermediate *oreas*X*silenus*)
Polygonia oreas oreas TL Redwood Park, Contra Costa Co. Calif.
Polygonia oreas nigrozephyrus TL Lump Gulch, Gilpin Co. Colo.
Polygonia oreas satellow TL 8 mi. NE Cedaredge, Delta Co. Colo.
Polygonia gracilis gracilis TL Mt. Washington, Coos Co., N.H.
Polygonia gracilis zephyrus TL Virginia City, Storey Co. Nev.
Polygonia faunus ssp., weakly-marked-uns female form *silvius*=*orpheus*
Polygonia faunus smythi TL Mt. Rogers (Balsam Mtn.), Grayson Co., Va.
Polygonia faunus faunus TL Hunter, Greene Co. N.Y.
Polygonia faunus rusticus TL Big Trees, Calaveras Co. Calif.; =*silvius* TL Yosemite Valley, Yosemite NP, Calif.; =>*fulvescens* TL Pescadero Crk., near Portola State Park, San Mateo Co. Calif. (reared thus unnaturally paler-unh colored?)
Polygonia faunus arcticus TL base Black Mtn., near Aklavik, NWT
Polygonia faunus cenveray TL Halfmoon Park, Crazy Mts., Sweet Grass Co. Mont.
Polygonia faunus hylas TL S of Berthoud Pass, Clear Creek Co. Colo.
Siproeta stelenes biplagiata TL San Pedro Sula, Honduras
Siproeta epaphus epaphus TL Peru
Anartia jatrophae guantanamo TL San Carlos Estate, Guantanamo, Cuba

Anartia jatrophae luteipicta TL San Pedro Sula, Cortes, Honduras
Anartia amathea fatima TL West Indies (intergrades to *amathea* in Darien Panama, K. Brown Lepid. News 1988 #2 p. 39-40); =*venusta* TL Mex.-Guatemala
Anartia lytrea chrysopelea TL Havana, Cuba
Hypolimnias misippus TL Java, Indonesia
Junonia coenia TL E U.S.; =*grisea* TL South Pasadena, LA Co. Calif.
Junonia evarete zonalis TL Bogota-Cuba-Puerto Rico
Junonia evarete nigrosuffusa TL Huachuca Mts.-Baboquivari Mts., Ariz.
Junonia genoveva TL West Indies

Nymphalidae, Nymphalinae, Melitaeini

Euphydryas phaeton ozarkae TL ridge N of Lynch Hollow, Camden Co., Missouri
Euphydryas phaeton phaeton TL N.Y.
 >*Euphydryas phaeton borealis* TL Lincoln, Penobscot Co., Maine
Euphydryas stenchospecies chalcedona (bookkeeping species *colon*, *chalcedona*, *anicia*, *bernadetta*; see Papilio [N.S.]#12 & #18)
Euphydryas colon paradoxa TL Seton Lake, Lillooet, BC
Euphydryas colon wallacensis TL Wallace, Shoshone Co. Ida.; =>*nevadensis* TL Wildhorse Camp, 10 mi. S Mountain City, Elko Co. Nev.
Euphydryas colon colon TL Columbia River, Kalama, Cowlitz Co., Wash.; =*perdiccas* TL Mt. Hood, Ore.; (*svilhae* is nomen nudum)
Euphydryas chalcedona dwinellei TL McCloud fishing station, Shasta Co. Calif.; =*sperryi* TL Bartle Lumber Camp, Siskiyou Co. Calif.
Euphydryas chalcedona chalcedona TL San Francisco, Calif.; =*cooperi* TL Mt. Tamalpais, Marin Co. Calif.
Euphydryas chalcedona hennei TL Box Can., San Diego Co. Calif. (=“*quino*”)
Euphydryas chalcedona sinecat TL Pine Hill, El Dorado Co. Calif.
Euphydryas chalcedona sierra TL Sierra Nevada (high alt.); =*trinitina* TL Sawtooth Ridge in Trinity Alps, S of Caribou Lake, Siskiyou-Trinity Co. line, Calif.
 >*Euphydryas chalcedona irelandi* TL Boy Scout Camp, Camp Wolfboro, trail near Alta Peak, Sequoia NP, Tulare Co. Calif.
Euphydryas chalcedona corralensis TL Rock Corral, San Bernardino Co. Calif.
Euphydryas chalcedona kingstonensis TL ¾ mi. SE Horse Thief Springs, Kingston Range, San Bernardino Co. Calif.
Euphydryas chalcedona klotsi TL Roosevelt Lake, Gila Co. Ariz.
Euphydryas chalcedona macglashanii TL vic. Truckee, Nevada Co. Calif.
Euphydryas chalcedona olancha TL vic. Olancha Peak, Tulare-Inyo Cos., Calif.
Euphydryas chalcedona ssp. near “*variicolor*” (Carson Pass, wings like *anicia* “*variicolor*” but valva nearer *chalcedona*)
Euphydryas anicia “*variicolor*” TL ridge S of Sonora Pass, 9600’, Mono Co. Calif. (also found Ebbets Pass) (intergrade thus an invalid name, wings like *wheeleri-sierra-macglashanii*, valva near *anicia*)
Euphydryas anicia hermosa TL southern Ariz.
Euphydryas anicia wheeleri TL mouth Meadow Can., Toquima Range, Nye Co., Nev.
 >*Euphydryas anicia alena* TL Summit Brian Head, Iron Co. Utah
 >*Euphydryas anicia wecoeut* TL Coal Mine Point, Black Ridge, Mesa Co. Colo.
Euphydryas anicia (near *colon*?) *maria* TL Park City, Summit Co. Utah (larva a little white-hairy like *colon* & adults dark, maybe due to introgression from *colon*?, valve is *anicia*-like); =*effi* TL Corral Crk., Ketchum, Blaine Co. Ida. (same adults and hostplant as *maria*, similar larva)
Euphydryas anicia morandi TL Kyle Can. on Mt. Charleston Peak, Spring Mts., Nev.
Euphydryas anicia hopfingeri TL Black Can., Methow Valley, Okanogan Co. Wash.
Euphydryas anicia anicia TL Rock Lake, 22.5 km NW Pocahtontas, Alta.; =*howlandi* TL Polaris, Beaverhead Co. Mont.
Euphydryas anicia helvia TL Ramparts, Yukon River, Alaska
Euphydryas anicia Brucei TL above treeline at head of Hall Valley or at Whale Mine there, Park Co. Colo.
Euphydryas anicia eurytion TL South Park, probably near Fairplay, Park Co. Colo.; =*carolae* TL 1.3 mi. S Fairplay, Park Co. Colo.; =>*windi* TL Timber Island, Teton Mts., Teton Co. Wyo. (intergrade toward *anicia*)
Euphydryas anicia capella TL Manitou Springs, El Paso Co. Colo.; =*cloudcrofti* TL Pines Cgd., 2 mi. NE Cloudcroft, Sacramento Mts., Otero Co. New Mex.
 >*Euphydryas anicia chuskae* TL 3-5 mi. NNW Toadlena, Chuska Mts., San Juan Co., New Mex.
Euphydryas anicia carmentis TL Pagosa Springs, Archuleta Co. Colo.
Euphydryas anicia magdalena TL White Mts., Ariz.
Euphydryas anicia bakeri TL Cave Creek, Durkee, Baker Co. Ore.

Euphydryas bernadetta macyi TL Wildhorse Crk., Alvord Basin, Harney Co. Ore.
Euphydryas bernadetta veazieae TL Jackass Mts., Harney Co. Ore.
 >*Euphydryas bernadetta wenatchee* TL 8 mi. N Kittitas, ¼ mi. above Colockum Pass Rd., Kittitas Co. Wash.
Euphydryas bernadetta bernadetta TL Monroe Can., N Harrison, Sioux Co. Neb.
 >*Euphydryas bernadetta rorina* TL Beaver Creek, Grand Co. Colo.
Euphydryas editha baroni TL Mendocino, Mendocino Co. Calif.
Euphydryas editha editha TL Twin Peaks, San Francisco, Calif.; =*bayensis* TL Hillsborough, San Mateo Co. Calif.;
 =*luestherae* TL Del Puerto Can., 22 mi. W Patterson, Stanislaus Co. Calif.; =*karinae* TL Monkey Rock, 1.5 mi. N
 Hull Mts., Mendocino Co. Calif.
 >*Euphydryas editha insularis* TL Santa Rosa I., Calif.
 >*Euphydryas editha quino* TL San Diego, Calif.; =*wrighti* TL San Diego, Calif.; =*augusta* TL vic. San Bernardino,
 Calif.
 >*Euphydryas editha taylori* TL Victoria, Vancouver I., BC
Euphydryas editha ehrlichii TL Ord Mts. at NW end of San Bernardino Mts., W of Victorville, Calif.
Euphydryas editha rubicunda TL Mariposa Co. Calif. (higher altitude above foothills); =>*aurilacus* TL near Gold Lake
 Camp, Gold Lake, Sierra Co. Calif.
Euphydryas editha nubigena TL W end of Dana Plateau, above Tioga Pass, Mono Co. Calif.; =*tahoensis* TL Tahoe
 Meadows, Carson Range, Washoe Co. Nev.; =*bingi* TL Emerson Peak, Warner Mts., Modoc Co. Calif.; =*remingtoni*
 TL Mt. Thielsen (lower altitude), Douglas Co. Ore.; =*augustina* TL San Bernardino Mts., Calif.
 >*Euphydryas editha lawrencei* TL near timberline of trail between Diamond L. to Mt. Thielsen, Douglas Co. Ore.
Euphydryas editha colonia TL Mt. Hood, Ore.
Euphydryas editha beani TL high alt. near Lake Louise, Banff NP, Alta.
Euphydryas editha edithana TL flats SE of Ash Creek, Ash Valley 14 mi. SE Adin, Lassen Co. Calif.; =*monoensis* TL
 Rush Creek (below Farmington's ranch), near Mono Lake, Mono Co. Calif.; =*fridayi* TL between June & Silver
 Lakes, Mono Co. Calif.; =*mattooni* TL 9.4 rd. mi. N Fort Bidwell in Surprise Valley, Modoc Co., Calif.;
 =*owyheensis* TL Wildhorse Crossing Cgd., Owyhee R. Valley, Elko Co. Nev.
 >*Euphydryas editha lehmani* TL Lehman Caves Resort, Mt. Wheeler, Snake Range, Nev.; =*koreti* TL ridge S of Bald
 Mtn., White Pine Co., Nev.; =*gunnisonensis* TL Owl Creek Pass rd. 2 mi. E US 550, 3.4 mi. NE Ridgway, Ouray
 Co. Colo.
 >*Euphydryas editha hutchinsi* TL Milligan Can., Jefferson Co. Mont.; =*alebarkii* TL ~10 mi. SW Encampment on Battle
 Lake Rd., Sierra Madre Mts., Carbon Co. Wyo.
 >>*Euphydryas editha montanus* TL upper slopes Mt. Washburn, Yellowstone NP, Wyo.
Euphydryas (Hypodryas) gillettii TL Yellowstone NP, Wyo.; =*glacialis* Two Medicine Lake, Glacier NP, Glacier Co.
 Mont.
Poladryas minuta minuta TL Comfort, Kendall Co. Tex.
Poladryas minuta arachne TL vic. Golden, Jefferson Co. Colo.; =*gilensis* TL W fork Gila River, Catron Co., New
 Mex.; =*expedita* TL 1 rd. mi. W Mountain Springs Summit, Spring Mts., Nev.
Poladryas minuta nympa TL NW Mexico evidently including Sonora Mex. (S Ariz. TL is error, U.S. has only
 intergrades to this Mex. ssp., and none like lectotype)
Poladryas minuta monache TL Monache Meadows, Tulare Co. Calif.
Microtia elva TL Guatemala & Nicaragua
Microtia (Dymasia) dymas dymas TL San Antonio, Tex.
 >*Microtia dymas imperialis* TL Palm Springs, Riverside Co. Calif.
Microtia dymas chara TL vic. Tucson, Ariz.
Microtia (Texola) elada ulrica TL San Antonio, Tex.
Microtia elada perse TL Fort Grant & Mt. Graham, Pinaleño Mts., Graham Co. Ariz.
Chlosyne janais janais TL?
Chlosyne definitiva definitiva TL inland from Corpus Christi, Nueces Co. Tex.; =*schausi* TL Paso de San Juan, Veracruz,
 Mex.
Chlosyne definitiva anastasia TL Durango, Durango, Mex.
Chlosyne endeis pardelina TL La Gloria, S of Monclova, Coahuila, Mex.
Chlosyne melitaeoides TL Mex.
Chlosyne eumeda TL Mochtitlan, Guerrero, Mex.; =*dryope* TL Jalisco, Mex.
Chlosyne rosita browni TL El Salto, San Luis Potosi, Mex.
Chlosyne rosita montana TL Mt. Popocatepetl, Mex./Puebla, Mex.
Chlosyne theona thekla TL vic. old Fort Lowell, near Tucson, Pima Co. Ariz.
Chlosyne theona bolli TL San Antonio, Bexar Co. Tex.
Chlosyne chinatiensis TL Chinati Mts., Presidio Co. Tex.
Chlosyne leanira obsoleta TL near San Rafael, Marin Co. Calif. (extinct)

Chlosyne leanira leanira TL hwy 70 at Chambers Crk., Plumas Co. Calif.; =*oregonensis* TL Mt. Ashland, Loop Road, Jackson Co. Ore.; =*daviesi* TL Strawberry Lake, Tuolumne Co. Calif.; =*nebularum* TL Highland Way, 3-4 rd. mi. SE Soquel to San Jose road, Santa Cruz Co. Calif.

Chlosyne leanira wrighti TL San Bernardino, San Bernardino Co. Calif.; =*elegans* TL Oso Flaco Sand Dunes, vic. Oso Flaco Lake, San Luis Obispo Co. Calif.; =>*cerrita* TL edge of Mojave Desert, Calif. (intergrades to *alma*)

Chlosyne leanira alma TL NW Mohave Co., Ariz.; =*basinensis* TL Nevada road 338, 1 mi NE Calif. state line, Sweetwater Mts., Lyon Co. Nev.; =*flavodorsalis* TL Comb Ridge, 4 mi. W Bluff, San Juan Co. Utah

Chlosyne leanira pariaensis TL Cockscomb Ridge, 61 rd. km E Kanab, Kane Co. Utah (3 traits like *leanira*, 3 like *fulvia*)

Chlosyne leanira fulvia TL Davis Mts., Tex.

Chlosyne leanira coronado TL summit Redington Pass, Santa Catalina Mts., Ariz.

Chlosyne cyneas TL mts. of Oaxaca, Mex.

Chlosyne nycteis pastoron TL Jones Knob, Macon Co., N.C.

Chlosyne nycteis nycteis TL middle states of U.S. [E of the Great Plains]

Chlosyne nycteis reversa TL Riding Mts., Man.

Chlosyne nycteis drusius TL Turkey Creek Junction, Jefferson Co. Colo.

Chlosyne gorgone TL Burke Co. Ga.; =*carlota* TL Cedar Hill, Jefferson Co. Mo.

Chlosyne gorgone larva form *rufa*

Chlosyne gorgone larva form *bicolor*

Chlosyne gorgone larva form *nigra*

Chlosyne lacinia ssp. larva form *rufa*

Chlosyne lacinia ssp. larva form *bicolor*

Chlosyne lacinia ssp. larva form *nigra*

Chlosyne lacinia crocale TL NE of Fort Apache, Navajo-Apache Cos. Ariz.

Chlosyne lacinia adjutrix TL Tex.

Chlosyne californica TL "Colorado Desert of SE Cal.", San Bernardino Co.? Calif.

Chlosyne harrisii harrisii TL Maine, N.H., Mass.; =*albimontana* TL White Mts., N.H.; =*liggetti* TL Slippery Rock, Cook Forest, Clarion Co. Penn.

Chlosyne harrisii hanhami TL Man. or Minn.

Chlosyne stenchospecies palla (includes *whitneyi*, *gabbii*, *sterope*, *acastus*, *neumoegeni*, *palla*)

Chlosyne whitneyi whitneyi TL N slope Mt. Dana, Mono Co. Calif.; =*malcolmi* TL high alt. near Mammoth Camp, Mono Co. Calif.

Chlosyne whitneyi altalus TL Nigel Pass, Banff NP, Alta.

Chlosyne whitneyi windriver TL near Bears Ears Mtn., Wind River Mts., Fremont Co. Wyo.

Chlosyne whitneyi damoetas TL mts. N or NW of South Park [most likely Hall Valley, Park Co. Colo.]... Williams River Range [most likely W Berthoud Pass, Grand Co. Colo.]

Chlosyne gabbii gabbii TL La Tuna Can., Verdugo Mts., LA Co. Calif.

Chlosyne gabbii atrifasciata TL La Cascada, Santa Cruz I., Santa Barbara Co. Calif.

Chlosyne sterope sterope TL Tygh Valley, Wasco Co. Ore.

Chlosyne sterope dorothyi TL Durkee, Baker Co. Ore. (perhaps intermediate *sterope*X*acastus* thus invalid)

Chlosyne sterope acastus TL Provo Can., Utah Co. Utah; =*waucoba* TL ½ mi. N Cerro Gordo, Inyo Mts., Inyo Co. Calif.

Chlosyne sterope arkanyon TL Poncha Crk., hwy. 285, S of Poncha Springs, Chaffee Co. Colo.

Chlosyne sterope sabina TL Sabino Can., Santa Catalina Mts., Ariz.

Chlosyne sterope neumogeni TL Virgin River Valley, Washington Co. Utah

Chlosyne sterope vallismortis TL Tuber Can. spring, Panamint Mts., Death Valley NM, Inyo Co. Calif. (introgressed with *palla*); =*robusta* TL Kyle Can. Cgd., Spring Mts., Nev.

Chlosyne palla australomontana TL Kennedy Meadows Rd., Tulare Co. Calif. (introgressed with *neumoegeni*)

Chlosyne palla palla TL hwy. 70 at Chambers Crk., SW Belden, Plumas Co. Calif. (has some cream females, thus nearer *eremita* than *altasierra*); =>*eremita* TL Lake Co., Calif. (an extreme of *palla* with most females cream)

Chlosyne palla altasierra TL Fallen Leaf Lake, El Dorado Co. Calif.

Chlosyne palla flavula TL Glenwood Springs, Garfield Co. Colo.

Chlosyne palla calydon TL Turkey Creek Junction, Jefferson Co. Colo.; (*blackmorei* is nomen nudum)

Chlosyne hoffmanni segregata TL Crater Lake, Klamath Co. Ore.; =*manchada* TL Drury, Tumwater Can., Chelan Co. Wash.

Chlosyne hoffmanni hoffmanni TL Gold Lake, Sierra Co. Calif.

Phyciodes (Tegosa) luka TL Tamazunchale, San Luis Potosi, Mex.

Phyciodes (Anthanassa) frisia frisia TL Cuba

Phyciodes frisia tulcis TL central valleys of Guatemala

Phyciodes (Anthanassa) ptolyca ptolyca TL Chisoy Valley, Guatemala
Phyciodes (Anthanassa) texana texana TL New Braunfels, Comal Co. Tex.
Phyciodes texana seminole TL Bainbridge, Decatur Co. Ga.
Phyciodes (Anthanassa) argentea TL Choctum, Guatemala
Phyciodes species, whiter-mottled-unh spring form *marcia*
Phyciodes (Phyciodes) graphica vesta TL New Braunfels, Comal Co. Tex.
Phyciodes (Phyciodes) mylitta mylitta TL Stanyan Hill, San Francisco, Calif.; =*epula* TL San Francisco, Calif.
Phyciodes mylitta arizonensis TL Ariz.
Phyciodes pallida pallida TL Flagstaff Mtn., Boulder Co. Colo.
Phyciodes pallida barnesi TL Glenwood Springs, Garfield Co. Colo.
Phyciodes orseis orseis TL Mt. St. Helena, Napa Co. Calif.
Phyciodes orseis herlani TL Glenbrook Creek, 7000', Douglas Co. Nev.
Phyciodes stenchospecies tharos (includes *tharos*, *cocyta*, *diminutor*, *incognitus*, *batesii*)
Phyciodes tharos ricololorado TL Moab, Grand Co. Utah
Phyciodes tharos tharos TL Van Courtland Park, New York City, N.Y.; =*euclea* TL New York City & vicinity;
 =*distincta* TL Calexico, Imperial Co. Calif.
Phyciodes tharos orantain TL below Barr Lake, Adams Co. Colo.
Phyciodes cocyta cocyta TL Black Rock, Cape Breton, N.S.; =*arctica* TL Table Mtn., Port au Port, Nfld.
Phyciodes cocyta selenis TL Grosky Rd., The Pas, Man.; =*marcia* TL Kanawha River (town of Coalburgh, later
 renamed Cabin Creek), Kanawha Co. W.Va.; =*pascoensis* TL Pasco, Franklin Co. Wash.
Phyciodes cocyta arenacolor TL Warm Springs, Steptoe Valley, White Pine Co. Nevada
Phyciodes diminutor diminutor TL NE Conger, Freeborn Co., Minn.
Phyciodes diminutor incognitus TL Duncan Ridge Rd., Union Co., Georgia
Phyciodes batesii batesii TL Winchester, Frederick Co. Va.; =>*maconensis* TL Jones Knob, Macon Co., N.C.
Phyciodes batesii lakota TL Pine Ridge, Sioux Co. Neb.
Phyciodes batesii saskatchewan TL Halfway Lake (N of Edmonton near Clyde), Alberta
Phyciodes batesii apsaalooke TL Hidden Basin Cgd., Bighorn Co. Wyo.
Phyciodes batesii anasazi TL near Gateway, Mesa Co. Colo.
Phyciodes pulchella tutchone TL Nickel Creek, 4000', SW Yukon
Phyciodes pulchella owimba TL Pattee Can., Missoula Co. Mont.
Phyciodes pulchella pulchella TL San Francisco Calif.; =*pratensis* TL Old Cemetery, San Francisco Calif.; =*campestris*
 TL Old Cemetery, San Francisco Calif.; =>*inornatus* TL Clear Creek, 2.9 mi. E Grass Valley Rd., Sonoma Range,
 Pershing Co. Nev. (intermediate *pulchella*X*camillus* [& *Xmontana*])
Phyciodes pulchella deltarufa TL Willow Slough just N Davis, Yolo Co. Calif.
Phyciodes pulchella montana TL Tuolumne Meadows, Tuolumne Co. Calif.; =*orsa* TL Gold Lake, Sierra Co. Calif.;
 =>*vallis* TL Nevada road 338 at Garden Can., Sweetwater Mts., Lyon Co. Nev. (intermediate *montana*X*pulchella*
 [& *Xcamillus*])
Phyciodes pulchella camillus TL Fairplay, Park Co. Colo.
Phyciodes pulchella sacramento TL 1 mi. E Cloudcroft, Sacramento Mts., Otero Co. New Mex.
Phyciodes pulchella shoshoni TL Humboldt R. N Battle Mtn., Elko Co. Nev.
Phyciodes pallescens TL Puebla, & Morelos (region of Cuernavaca), Mex.
Phyciodes picta picta TL North Platte, Lincoln Co. Neb.
Phyciodes picta canace TL vic. Tucson, Ariz.
Phyciodes phaon phaon TL San Simon (=St. Simons) Is., Glynn Co, Georgia
Phyciodes phaon jalapeno TL Mesa, Maricopa Co., Ariz.

Lycaenidae, Riordininae, Riordinini, Riordinina

Calephelis borealis TL Hudson R. near Upper Coldenham, Orange Co. N.Y.
Calephelis muticum TL Willis, Washtenaw Co., Mich.
Calephelis virginensis TL Virginia; =*louisiana* TL Opelousas, Evangeline Parish, La.
Calephelis nilus perditalis TL San Benito, Cameron Co. Tex.
Calephelis nemesis TL vic. Tucson, Ariz.; =*australis* TL San Antonio, Bexar Co. Tex.; =*guadeloupe* TL vic. New
 Braunfels & San Antonio, Tex.; =*dammersi* TL Blythe, Riverside Co. Calif.; =*californica* TL Riverside, Riverside
 Co. Calif.
Calephelis rawsoni rawsoni TL Lacey's Ranch ~7 mi. SW Kerrville, Kerr Co. Tex.
Calephelis rawsoni freemani TL 12 mi. NW Alpine, Davis Mts., Tex.
Calephelis rawsoni arizonensis TL Brown Can., Baboquivari Mts., Pima Co. Ariz.
Calephelis wrighti TL Coachella Valley, S Calif.
Caria ino melicerta TL Paso de San Juan, Veracruz, Mex.

Lasaia maria maria TL Ajijic, Jalisco, Mex.
Lasaia sula peninsularis TL Piste, Yucatan, Mex.
Melanis pixe pixe TL Mex.

Lycaenidae, Riordininae, Riordinini, Emesiina

Emesis zela cleis TL Fort Grant, Pinaleño Mts., Graham Co., Ariz.
Emesis ares TL Fort Grant, Pinaleño Mts., Graham Co., Ariz.
Emesis emesia TL Nicaragua
Emesis tenedia TL Nova Granada, near Bogota, Colombia
Apodemia stenchospecies mormo (includes *mormo*, *cythera*, *virgulti*, *deserti*, *mejicanus*, *duryi*, *dialeuca*, *mojavelimbus*)
Apodemia mormo pueblo TL S of Security, El Paso Co. Colo.
Apodemia mormo mormo TL Washoe Co. Nev.; =*parva* TL N Eureka, W slope Diamond Mts., Eureka Co. Nev.;
= *autumnalis* TL 2 rd. mi. N Red Cloud Mine, Spring Mts., Nev.
Apodemia mormo langei TL Antioch dunes, Contra Costa Co. Calif.
Apodemia (mormo?) cythera cythera TL 9 mi W Lone Pine, Inyo Co. Calif.
>*Apodemia (mormo?) cythera tuolumnensis* TL Grand Can. of the Tuolumne R., Yosemite NP, Calif.
Apodemia virgulti virgulti TL La Tuna Can., Verdugo Mtns., LA Co. Calif.; =*arenaria* TL El Segundo sand dunes, LA
Co. Calif.; =*nigrescens* TL Colton, San Bernardino Co. Calif. (Papilio [N.S.]#18 reviews the “*mormo*” ssp.)
Apodemia virgulti deserti TL La Puerta Valley, San Diego Co. Calif.
Apodemia virgulti mejicanus TL Sonora, Mex., or S Ariz.
Apodemia virgulti duryi TL 5 mi. E Mesilla, Organ Mts., Dona Ana Co. New Mex.
Apodemia dialeuca davenporti TL Walker Pass, Kern Co. Calif.; =*pratti* TL Holcomb Valley, San Bernardino Mts.,
Calif.
Apodemia dialeuca mojavelimbus TL Ord Mts., 6 air mi. ESE Hesperia, N slope San Bernardino Mts., San Bernardino
Co. Calif.
Apodemia dialeuca dialeuca TL 5 mi. NE La Encantada, Sierra San Pedro Martir, Baja Calif. Norte, Mex.;
= *dialeucoides* TL Sugarloaf Mtn., San Bernardino Mts., San Bernardino Co. Calif.
Apodemia (dialeuca?) peninsularis TL NE edge El Prado Meadow, Laguna Mts., San Diego Co. Calif.
Apodemia nais nais TL Prescott, Yavapai Co. Ariz.
Apodemia nais chisosensis TL Chisos Mts., 5400', Big Bend NP, Tex.
(*Apodemia phyciodoides* TL Sonora Mex. [mis-labeled Chiricahua Mts. {including Paradise} Ariz., thus not in U.S.])
Apodemia palmerii palmerii TL St. George, Washington Co. Utah; =*arizona* TL Ariz. road 90, 10.8 mi. N road 82,
Cochise Co. Ariz.
Apodemia palmerii marginalis TL Acme, Calif.
Apodemia hepburni hepburni TL Pinos Altos, Chihuahua, Mex.
Apodemia walkeri TL Acapulco, Guerrero, Mex.
Apodemia multiplaga TL Rinconada, Veracruz, Mex.

Lycaenidae, Miletinae, Miletini

Feniseca tarquinius TL?; =*novascotiae* TL S Milford, N.S.

Lycaenidae, Lycaeninae, Lycaenini

Lycaena (Lycaena) phlaeas (all ssp.) blue-spotted form *caeruleopunctata*
Lycaena phlaeas hypophlaeas TL vic. Boston, Mass.; =*americana* TL Mass.
Lycaena phlaeas hypophlaeas melanitic form *fasciata*
Lycaena phlaeas arethusa TL head of Fish Creek, W or SW of Calgary, Alta.; =>*weberi* TL Sweet Grass Hills, Liberty
Co. Mont.
Lycaena phlaeas arctodon TL E side Beartooth Pass, Carbon Co., Mont.
Lycaena phlaeas alpestris TL N slope Mt. Dana, Mono Co. Calif.
Lycaena phlaeas feildeni TL W side Smith Sound, SE Ellesmere I., Nunavut
Lycaena cupreus cupreus TL Tioga Pass, Mono/Tuolumne Co. Calif.; =*lapidicola* TL Tioga Pass, Mono Co. Calif.
Lycaena cupreus artemisia TL The Potholes, Teton Co. Wyo.
Lycaena cupreus snowi TL Gray's Peak, Clear Creek (perhaps Summit) Co. Colo.; =*henryae* TL Caribou Pass, BC
Lycaena (Epidemia) mariposa mariposa TL Calif.; =*penrosae* TL Lake Eleanor, Yellowstone NP, Wyo.
Lycaena mariposa charlottensis TL Queen Charlotte I., BC
Lycaena (Epidemia) nivalis warnermontana TL Dismal Swamp, Warner Mts., Modoc Co. Calif.
Lycaena nivalis nivalis TL Gold Lake, Sierra Co. Calif.
Lycaena nivalis bichroma TL summit Mt. Eddy, Siskiyou Co. Calif.

Lycaena nivalis browni TL Snowslide Can 8 mi. from Montpelier, Idaho; =*praetexta* TL Wildhorse Crossing Cgd., Owyhee R. Valley, Elko Co. Nev.

Lycaena stenospecies helloides (includes *helloides*, *florus*, but evidently not *dorcas*)

Lycaena (Epidemia) helloides TL San Francisco; (= *castro* TL Denver, Denver Co. Colo. if 2nd lectotype is *helloides*)

Lycaena helloides unnamed darker ssp. (S BC)

Lycaena (Epidemia) florus arcticus TL Mayo Lake Road, Yukon

Lycaena florus sangremar TL NE Taos Ski Basin, Taos Co. New Mex.

Lycaena florus florus TL Garnett's Ranch, near Lundbreck, mouth of Crow's Nest Pass, Alta.; =>*castro* TL Empire, Clear Creek Co. Colo. (*castro* is near-*florus*, amount of orange more similar to *florus* than to *sangremar*) (*castro* is a nomen dubium as the Ferris lectotype might be *L. helloides*) (I have petitioned ICZN to suppress the name *castro*)

Lycaena florus megaloceras TL 5-Spring Creek, Big Horn Co., Wyo. (cream female upf, unh grayer)

Lycaena florus near-megaloceras (cream female upf but unh like *florus* in color, C Mont.)

Lycaena florus dospassosi TL Bathurst, N.B.

Lycaena (Epidemia) dorcas dorcas TL The Pas, Man.

Lycaena dorcas michuron TL Fenton Road, Livingston Co. Mich.

Lycaena dorcas claytoni TL Springfield, Penobscot Co. Maine

Lycaena (Epidemia) epixanthe epixanthe TL N.J.

Lycaena epixanthe phaedrus TL Dublin Shore, Lunenburg Co., N.S.; =*amicetus* TL Avalon Pen., near St. John, Nfld.; =*michiganensis* TL Proud Lake, Oakland Co. Mich.

Lycaena (Epidemia) thoe TL N.A.; (this is not *hyllus* TL Smyrna, Turkey, which evidently belongs to *Lycaena thersamon* or *L. alciphron* and is nomen dubium)

Lycaena (Chalceria) gorgon gorgon TL vic. Cresta, Butte Co. Calif.

>*Lycaena gorgon micropunctata* TL Lower Rock Crk., Mono Co. Calif.

Lycaena gorgon jacquelinae TL Pine Creek Can., Warner Mts., Modoc Co. Calif.; =*dorothea* TL 3 mi. W Selma, Josephine Co. Ore.

Lycaena heteronea gravenotata TL Plainview, just N of Coal Creek, Jefferson Co. Colo.; =>*submaculata* TL Warner Valley, at S edge Lassen NP, Plumas Co. Calif. (intermediate to *heteronea*)

Lycaena heteronea heteronea 2 air mi. SSE Sausalito, Marin Co. Calif.; =*rutila* (invalid homonym) TL Wilson Peak Road, Wilson Creek Range, Lincoln Co. Nev.; =*rava* TL Lamoille Can., Ruby Mts., Nev.; =>*klotsi* TL Broadwater Co. Mont.

Lycaena heteronea northi TL North Trinity Mtn., Humboldt Co. Calif.

Lycaena (Chalceria) heteronea clara TL Tehachapi Pass, Kern Co. Calif.

Lycaena (Chalceria) rubidus rubidus TL 5 mi. E Lakeview, Lake Co. Ore.; =*duofacies* TL Bogus Basin, Boise Co. Ida.; =*perkinsorum* TL 1 mi. E The Dalles, Wasco Co. Ore.; =*monachensis* TL Monache Meadows, Tulare Co. Calif.; =*incana* TL Trail Can., White Mts., Esmeralda Co. Nev.; =*longi* TL canyons N Harrison, Sioux Co. Neb.

Lycaena rubidus sirius TL vic. Twin Lakes, Lake Co. Colo.

Lycaena rubidus ferrisi TL 13 mi. E McNary, Apache Co. Ariz.

Lycaena (Chalceria) dione TL Denison & New Jefferson, Iowa

Lycaena stenospecies xanthoides (includes *xanthoides*, *editha*)

Lycaena xanthoides obsolescens TL Hunter Mtn. E of Nelson Range, Death Valley NM, Inyo Co. Calif.

Lycaena xanthoides xanthoides TL Sacramento, Calif.

Lycaena xanthoides nigromaculata TL W of Meridian, Colusa Co. Calif.

*Lycaena xanthoides editha*X*xanthoides*=>"*pseudonexa*" TL Railroad Park, Dunsmuir, Shasta Co. Calif. (intermediate thus invalid)

Lycaena xanthoides editha TL near Carnelian Bay of Lake Tahoe, Placer Co. Calif.

Lycaena xanthoides obscuramaculata TL 4 km S Jarbidge, Jarbidge Mts., Elko Co. Nev.; =homonym *nevadensis* TL 4 km S Jarbidge, Jarbidge Mts., Elko Co. Nev.

Lycaena xanthoides vurali TL Broadwater Co. Mont.; =homonym *montana* TL Broadwater Co. Mont.

Lycaena (Hermelycaena) hermes TL vic. San Diego, Calif.

Lycaena arota arota TL hwy. 70 at Soda Creek, Plumas Co. Calif.

>*Lycaena (Tharsalea) arota nubila* TL Griffith Park, Los Angeles, Calif.

Lycaena arota virginienensis TL Virginia City, Storey Co. Nev.; =*schellbachi* TL Bright Angel Trail near North Rim, Grand Can., Ariz.

Lycaenidae, Lycaeninae, Theclini, Theclina

Hypaurotis crysalus crysalus TL Palmer Lake, El Paso Co. Colo.

Hypaurotis crysalus citima TL Mt. Nebo, Juab-Utah Cos., Utah; =>*intermedia* TL Highland Spring, Highland Range, Lincoln Co. Nev. (intermediate toward *crysalus*)

Habrodais grunus grunus TL hwy. 70 at Chambers Crk., Plumas Co. Calif.; =*lorquini* TL Mt. Diablo, Contra Costa Co. Calif.

Habrodais grunus herri TL McKenzie (Sister's) Pass, Lane-Deschutes Co. Ore.

Lycaenidae, Lycaeninae, Theclini, Eumaeina

Eumaeus atala TL Cuba; =*florida* TL Miami, Fla.

Eumaeus toxea TL Guatemala; (not "*minijas*")

Atlides halesus halesus TL Virginia; =*corcorani* TL Riverside, Calif.

Atlides halesus dolichos TL Georgia; =*juanita* TL Palatka, Putnam Co. Fla.

Rekoa palegon TL Suriname

Rekoa marius TL?

Arawacus jada TL Mex.

Satyrium (Satyrium) fuliginosa fuliginosa TL Norden, El Dorado Co. Calif.; =*tildeni* TL Siskiyou Mts., Siskiyou Co. Calif.

Satyrium fuliginosa albolineatum TL Boardman Ridge, S of Hull Mtn., Lake Co. Calif.

Satyrium (fuliginosa?) semiluna TL Half Moon Ranch, Jackson Hole, Teton Co. Wyo.; =*maculadistinctum* TL W slope East Sister, Sweetwater Mts., Lyon Co. Nev.

Satyrium behrii behrii TL Mono Lake, Mono Co. Calif.; =*columbia* TL Fairview, BC

Satyrium behrii crossi TL Nederland, Boulder Co. Colo.

Satyrium liparops fletcheri TL Manitoba

Satyrium liparops aliparops TL Glenwood Springs, Garfield Co. Colo.

Satyrium liparops strigosa TL Blue Hill, Norfolk Co., Mass

Satyrium liparops liparops TL Millhaven Plantation near Briar Crk., Screven Co. Ga.

Satyrium liparops floridensis TL Withlacoochee State Forest, Citrus Co. Fla.

Satyrium kingi TL Savannah, Chatham Co. Ga.

Satyrium caryaevorus TL Merivale, Ont.

Satyrium calanus calanus TL? (obviously Fla.); =*wittfeldii* TL vic. Georgiana, Brevard Co. Fla.

Satyrium calanus falacer TL Philadelphia, Penn.; =*boreale* TL Britannia Park, Ottawa, Ont.

Satyrium calanus godarti TL Rosemont, Teller Co. Colo.

Satyrium calanus albidus TL NW Hayden, Routt Co. Colo.

Satyrium calanus ssp. white-uns form *heathii*

Satyrium edwardsii edwardsii TL Queenstown, Ont.

>*Satyrium edwardsii meridionale* TL S boundary Aiken SP, Aiken Co. S.C.

Satyrium auretteorum auretteorum TL near Belden, Plumas Co. Calif.

Satyrium auretteorum spadix TL Tehachapi Pass, Kern Co. Calif.

Satyrium auretteorum fumosum TL Malibu Lake, LA Co., Calif.

Satyrium saepium saepium TL near Belden, Plumas Co. Calif.; =*okanogana* TL Peachland, BC; =*fulvescens* TL Havilah, Kern Co. Calif.; =*chalcis* TL Isabel Crk., Santa Clara Co. Calif.; =*chlorophora* TL San Diego, Calif.; =*provo* TL Provo, Utah Co. Utah; =*rubrotenebrosum* TL San Bruno Mts., San Mateo Co. Calif.; =*obscurifuscum* TL ½ mi. S Bonanza Gulch, Jarbidge Mts., Elko Co. Nev. (may be weak ssp.)

Satyrium saepium caliginosum TL Baywood Park, San Luis Obispo Co., Calif.

Satyrium saepium latalinea TL Leeds Crk., Pine Valley Mts., Washington Co. Utah; =*subaridum* TL Hunter Mtn. E of Nelson Range, Inyo Co. Calif.

Satyrium tetra TL Arroyo Bayo, Santa Clara Co. Calif.; =*adenostomatis* TL Tehachapi Pass, Kern Co. Calif.

Satyrium sylvinus dryope TL Santa Clara Co. Calif.

Satyrium sylvinus megapallidum TL Elko, Elko Co. Nev.

Satyrium sylvinus sylvinus TL near Belden, Plumas Co. Calif.; =*desertorum* TL Oak Creek, Kern Co. Calif.

Satyrium sylvinus putnami TL Mt. Nebo, Juab-Utah Cos. Utah; =*itys* TL Prescott, Yavapai Co. Ariz.

Satyrium sylvinus nootka TL Wellington, Vancouver I., BC

Satyrium californica californica TL Capell Crk., NNE Napa, Napa Co. Calif.; =*borus* TL hwy. 70 at Chambers Crk., ~6 road mi. SW Belden, Plumas Co. Calif.; =*cygnus* TL 3 mi. SW Virginia City, Storey Co. Nev.

>*Satyrium californica obscurafacies* TL Baker Crk. Cgd., Snake Range, White Pine Co. Nev.

Satyrium californica wapiti TL near Oliver, Gunnison Co. Colo.

Satyrium californica brashor TL Mica Crk., near Osoyoos, BC

Satyrium acadica TL near London, Ont.; =*coolinensis* TL NE N. Amer. or Great Plains (mislabelled Coolin Ida.); =*montanensis* TL Mont.

Satyrium (Harkenclenus) titus titus TL Millhaven Plantation, Screven Co. Ga.

Satyrium titus watsoni TL Kerrville, Kerr Co. Tex.; =*campus* TL vic. Defiance, Shelby Co. Iowa; =*winteri* TL Sherborn, Middlesex Co. Mass.; =>*occidentalis* TL Star Creek Can., Humboldt Range, Pershing Co. Nev. (possible weak ssp.)

Satyrium titus immaculosus TL Provo, Utah Co. Utah

Satyrium (Fixsenia) favonius favonius TL Georgia

Satyrium favonius ontario TL Port Stanley, Ont.

Satyrium favonius autolyucus TL Dallas, Tex.; =*violae* TL Folsom, Union Co., New Mex.

Satyrium favonius ilavia TL Tex. (easily derived from *autolyucus*, whereas *polingi* is much different in pattern & stigma & wing shape)

Satyrium (F.) polingi TL Sunny Glen Ranch near Alpine, Brewster Co. Tex.; =*organensis* TL Finley Can., Organ Mts., Dona Ana Co. New Mex.

Phaeostrymon alcestis alcestis TL Dallas, Tex.

Phaeostrymon alcestis oslari TL Tucson, Ariz.

Ocaria ocrisia TL Ecuador

Chlorostrymon simaethis simaethis TL St. Christopher, Lesser Antilles

Chlorostrymon simaethis sarita TL Comal Co. Texas

Chlorostrymon maesites maesites TL Cuba

Chlorostrymon maesites telea TL Amazon

Callophrys (Cyanophrys) goodsoni TL Tegucigalpa, Honduras

Callophrys (Cyanophrys) herodotus TL?

Callophrys (Cyanophrys) miserabilis TL Rincon, Guerrero, Mex.

Callophrys (Callophrys) stenchospecies affinis (includes *apama*, *affinis*, *perplexa*)

Callophrys affinis apama TL Fort Grant, Pinaleno Mts., Graham Co. Ariz.; =>*albipalpus* TL 10 mi. N Ruidosa, Sacramento Mts., Lincoln Co. New Mex. (intermediate to *homoperplexa*)

Callophrys affinis homoperplexa TL Golden, Jefferson Co. Colo.

Callophrys affinis affinis TL vic. Fort Bridger, Uinta Co. Wyo.

Callophrys affinis washingtonia TL Alta Lake, Okanogan Co. Wash.

Callophrys affinis oregonensis TL Kusshi Crk., Yakima Co. Wash. (not sympatric with *washingtonia*)

Callophrys affinis perplexa TL San Diego, Calif. (very similar to *homoperplexa*)

Callophrys affinis superperplexa TL Big Pine Crk., Inyo Co. Calif.

Callophrys (Callophrys) stenchospecies sheridanii (includes *comstocki*, *lemberti*, *viridis*, *pseudodumetorum*, *sheridanii*)

Callophrys sheridanii comstocki TL Providence Mts., San Bernardino Co. Calif.; =>*interrupta* TL S end Stillwater Mts. W Frenchman, Churchill Co. Nev. (intermediate to *lemberti*)

Callophrys sheridanii paradoxa TL Dolores River W Uravan, Montrose Co. Colo.

Callophrys sheridanii lemberti TL W above Tioga Pass, Tuolumne Co. Calif.

Callophrys sheridanii viridis TL San Francisco, Calif.; =*dumetorum* TL San Francisco (conspecific with *sheridanii* in A. Warren Butt. Ore.) (I have petitioned ICZN to suppress the name *dumetorum* and protect the name *sheridanii* from the older name *viridis*)

Callophrys sheridanii pseudodumetorum TL Ruth Res., Trinity Co. Calif.

Callophrys sheridanii newcomeri TL Mill Creek, Yakima Co. Wash.

Callophrys sheridanii neoperplexa TL Eureka, Juab Co. Utah.

Callophrys sheridanii sheridanii TL near Sheridan, Sheridan Co. Wyo.

Callophrys sheridanii sacramento TL Cloudcroft, Sacramento Mts., New Mex.

Callophrys stenchospecies gryneus (includes *sweadneri*, *gryneus*, *siva*, *loki*, *thornei*, *muiroi*, *nelsoni*)

Callophrys (Mitoura) gryneus sweadneri TL St. Augustine, St. Johns Co., Fla.

Callophrys gryneus gryneus TL Aiken Co. S.C.; =*castalis* TL near Waco, McLennan Co. Tex.; =>*smilacis* TL near Fort Pulaski, Chatham Co. Ga. (like *gryneus* but unh line sl. straighter, evidently intermediate toward *sweadneri*)

Callophrys gryneus gryneus less-orange summer form *arufa*

Callophrys gryneus siva TL Fort Wingate, McKinley Co. New Mex.; =*clenchi* TL Pinery Can., Chiricahua Mts., Ariz.

Callophrys gryneus chalcosiva TL S. Willow Creek, Stansbury Mts., Utah

Callophrys gryneus juniperaria TL Mint Can., LA Co. Calif. (5 traits are intermediate *siva*X*loki*)

>*Callophrys gryneus mansfieldi* TL 7 mi. W Simmler, San Luis Obispo Co. Calif.

Callophrys gryneus loki TL Mt. Springs, San Diego Co. Calif.

Callophrys gryneus thornei TL Little Cedar Can., Otay Mtn., San Diego Co. Calif.

Callophrys gryneus muiroi TL Mendocino Co. Calif.

Callophrys gryneus nelsoni TL 6 rd. mi SW Belden, Plumas Co. Calif.

Callophrys gryneus rosneri TL 2 mi. S Kaslo, BC; =*plicataria* TL Cameron Lake, Vancouver I., BC; =*barryi* TL Union Mills, Clackamas Co. Ore.; =*byrnei* TL 5.6 mi. S Emida, Benewah Co. Ida.

Callophrys (Mitoura) hesseli hesseli TL Lakehurst, Ocean Co. N.J.

Callophrys hesseli angulata TL near Aiken State Park, Aiken Co. S.C.
Callophrys (Cisincisalia) spinetorum spinetorum TL Gold Lake Lodge, Sierra Co. Calif.; =*ninus* TL 1 mi. E Kenosha Pass, Park Co. Colo.
(*Callophrys spinetorum millerorum* TL vic. El Encarnacion, Hidalgo, Mex. Not in U.S., just a variant in New Mex.)
Callophrys (Cisincisalia) johnsoni TL BC
Callophrys (Xamia) xami xami TL near Vera Cruz, Veracruz, Mex.
Callophrys xami texami TL Corpus Christi, Nueces Co., Tex.
Callophrys (Sandia) mcfarlandi TL La Cueva Can., W of Sandia Mts., Bernalillo Co. New Mex.
Callophrys (Incisalia) fotis fotis TL NW Mohave Co., Ariz.
Callophrys fotis mojaviensis TL 2 mi. N Red Cloud Mine, Spring Mts., Nev.
Callophrys (Incisalia) mossii schryveri TL Chimney Gulch, Jefferson Co. Colo.
Callophrys mossii mossii TL Esquimault, Vancouver I., BC
Callophrys mossii bayensis TL San Bruno Mts., San Mateo Co. Calif.,
Callophrys mossii doudoroffi TL Big Sur, Monterey Co. Calif.
Callophrys mossii windi TL Placer Co. Calif.; =*hidakupa* TL Stoddard Can., San Gabriel Mts., Calif. (or weak ssp.);
=>*marinensis* TL SW of Lagunitas, Marin Co. Calif. (intermediate to *bayensis*)
Callophrys (Incisalia) augustinus augustinus TL Fawcett, Alta.; =*croesioides* TL Lakehurst, Ocean Co. N.J.; =*helenae*
TL Doyles Station, Nfld.; =*concava* TL 1.3 mi. E Jacks Crk. Cgd., Independence Mts., Elko Co. Nev.
Callophrys augustinus iroides TL Hwy. 70 at Soda Creek, Plumas Co. Calif.; =*annetteae* TL New Mex.
Callophrys augustinus unnamed ssp. dark-uns BC
Callophrys (Incisalia) polios TL Lakewood, Ocean Co., N.J.; =*obscurus* TL Lookout Mtn., Jefferson Co. Colo.;
=*maritima* TL S end of Lake Earl, Del Norte Co. Calif.
Callophrys (Incisalia) irus irus TL Camden or Burlington Cos. N.J.; =*arsace* TL Virginia or Georgia
Callophrys irus hadros TL near Houston, Harris Co. Tex.
Callophrys (Incisalia) henrici henrici TL Penn.; =*turneri* TL Cowley Co. Kans.
Callophrys henrici viridissima TL Bodie Is. lighthouse, Dare Co. N.C.
Callophrys henrici margaretae TL 8 mi. E De Land, Volusia Co. Fla.; =>*yahwehus* TL vic. Bull Swamp, Orangeburg
Co. S.C. (intermediate to *henrici*)
Callophrys henrici solatus TL Blanco Co. Tex.
Callophrys (Incisalia) lanoraieensis TL Lanoraie, Quebec
Callophrys (Incisalia) nippon nippon TL Fla.; =*clarki* TL Constance Bay, Ottawa region, Ont.
Callophrys (Incisalia) eryphon eryphon TL hwy. 70 at Soda Creek, Plumas Co. Calif.; =*pallescens* TL Jett Can.,
Toiyabe Mts., Nev.
Callophrys eryphon sheltonensis TL Shelton, Mason Co. Wash.; =*purpurascens* TL Samoa, Humboldt Co. Calif.
Callophrys eryphon fusca TL Schulz Pass Rd., San Francisco Peaks, Coconino Co. Ariz.
Allosmaitia strophius TL Brasil; =*pion* TL Dueñas, Polochic Valley, Guatemala
Ziegleria guzanta TL Jalapa, Orizaba, Veracruz, Mex.
Electrostrymon hugon TL Brasil; =*sangala* TL Venezuela; =*cyphara* TL Panama
Electrostrymon joya TL Loja, Ecuador; =*canus* TL Chilpancingo, Guerrero, Mex.
Electrostrymon angelia angelia TL Cuba
Calycopis cecrops cecrops TL Savannah, Chatham Co. Ga.
Calycopis cecrops isobeaon TL Cartago, Costa Rica (intergrades to *cecrops*, see Butt. Houston)
Strymon melinus melinus TL Georgia; =*humuli* TL Mass.; =*franki* TL Lawrence, Douglas Co. Colo.; =*pudica* TL
Contra Costa Co. Calif.
Strymon melinus atrofasciata TL Wellington, Victoria I., BC; =*setonia* TL Seton Lake, Lillooet, BC
Strymon (melinus?) avalona TL Avalon, Santa Catalina Island, Calif.
Strymon rufofusca TL?
Strymon albata TL Venezuela
Strymon alea TL Nayarit & Veracruz, Mex.; =*laceyi* TL Devils R. N of Del Rio, Val Verde Co. Tex.
Strymon bebrycia TL Mex.; =*buchholzi* TL Pharr, Hidalgo Co. Tex.
Strymon yojoa TL near Vera Cruz, Veracruz, Mex.
Strymon cestri TL near Vera Cruz, Veracruz, Mex.
Strymon martialis TL Cuba
Strymon acis bartrami TL Miami, Fla.
Strymon bazochii bazochii TL Brasil
Strymon istapa modesta TL Key West, Monroe Co. Fla.
Strymon istapa istapa TL near Vera Cruz, Veracruz, Mex.; =*clenchi* TL Blythe, Riverside Co. Calif.
Strymon limenia TL Jamaica
Strymon serapio TL Mex., Panama

Tmolus echion echiolus TL Mex.
Ministrymon leda TL near Prescott, Yavapai Co. Ariz.
Ministrymon leda winter form *ines*
Ministrymon clytie TL San Antonio, Tex.
Ministrymon azia TL Mex.
Strephonota tephraeus TL Venezuela?
Oenomaus ortygnus TL Suriname
Parrhasius m-album TL Georgia
Hypostrymon critola TL Guaymas, Sonora, Mex.; =*festata* TL near San Jose del Cabo, Baja Calif. Sur, Mex.
Hypostrymon critola spring form *ines*
Erora laeta laeta TL near London, Ont.
Erora laeta quaderna TL Tancitiro, Michoacan, Mex.; =*sanfordi* TL White Mts., Ariz. (valid ssp.?)

Lycaenidae, Lycaeninae, Polyommataini

Lampides boeticus TL Algeria
Leptotes cassius theonus TL Cuba
Leptotes cassius cassidula TL Honduras; =*striata* TL San Antonio, Tex.
Leptotes marina TL Orizaba, near Vera Cruz, Veracruz, Mex.
Brephidium exilis exilis TL Sacramento, Calif.
Brephidium exilis pseudofea TL Key West, Monroe Co. Fla. (intergrades with *exilis*, see Butt. Houston; intermediate between *exilis* & *insularis* except for antenna)
Brephidium exilis insularis TL Rt. 21 near Beaufort, Beaufort Co. S.C. (antenna club brown not orange)
Zizula cyna TL San Antonio, Tex.
Zizina otis otis TL---(add)(in Hawaii)
Cupido (Everes) comyntas comyntas TL? (obviously E U.S.); =*texana* TL near San Antonio, Tex.; =*sissona* TL Sisson [Mount Shasta City], Siskiyou Co. Calif. (type & lowland Calif. bugs are like E U.S. *comyntas*)
Cupido comyntas pacnowe TL Adair Village, Benton Co. Ore.
Cupido amyntula valeriae TL near Lead, Black Hills, S.D.; =*herri* TL Huachuca Mts., Ariz.
Cupido amyntula montanorum TL Tahoe Meadows, Carson Range, Washoe Co. Nev.
Cupido amyntula amyntula TL 2 mi. W Quincy, Plumas Co. Calif.; =*nesiotes* TL China Camp, Santa Rosa I., Calif.
 >*Cupido amyntula albrightii* TL Kings Hill, Meagher Co. Mont. (may be just a form in Mont.-BC)
Cupido amyntula immaculata TL Oak Creek, Yakima Co. Wash.
Cupido amyntula maritima TL Jacquet River, N.B.
Celastrina stenchospecies argiolus (includes *neglecta*, *echo*, *nigrescens*, *lucia*, *ladon*, *pseudargiolus*, *idella*, *argentata*, *serotina*, *humulus*, doubtfully *neglectamajor*)
Celastrina neglecta neglecta TL Hunter, Greene Co. N.Y.; =>?*argentata* TL Cartwright etc. in S Man., & SE Sask. (needs investigation)
Celastrina neglecta echo TL San Francisco, Calif. (placed into *C. neglecta* based on appearance habitat voltinism etc.)
Celastrina neglecta cinerea TL vic. Fort Grant, W foot Pinaleño Mts., Graham Co. Ariz.
Celastrina species form *violacea* (unh has only small dots)
Celastrina species form *marginata* (unh has only dark margin & small dots)
Celastrina species form *lucia* (unh has only central patch & small dots)
Celastrina species form *lucimargina* (unh has central patch + dark margin & small dots)
Celastrina lucia lucia TL Cumberland House, Sask.; =*marginata* TL Orono, Penobscot Co. Maine (b/w photo of lectotype looks like it applies to *C. "lucia Auctorum"*, but ups appears silvery like real *lucia*); =*quesnellii* TL Ahbau Lake, 35 mi. NW Quesnel, BC (perhaps a valid ssp.)
Celastrina lucia bluer ssp. in NE U.S. (=“*lucia Auctorum*”)(*pseudoargiolus* could be applied to this if suitable neotype were designated)
Celastrina lucia nigrescens TL Kaslo, on Kootenay Lake, British Columbia
 >*Celastrina lucia bakeri* TL Baker City, Baker Co. Ore.
Celastrina lucia lumarco TL Surface Creek NNE Cedaredge, Delta Co. Colo.
Celastrina lucia sidara TL Manitou Springs, El Paso Co. Colo.
Celastrina ladon TL Patuxent River, Anne Arundel Co., Md.; =*violacea* TL Kanawha River nr. Coalburgh, Kanawha Co., W. Va.; =?*pseudargiolus* TL E U.S. (requires neotype to fix this taxon)
Celastrina idella TL 2.2 km S Chatsworth, Burlington Co. N.J.
 (?*Celastrina argentata argentata* TL Cartwright etc. in S Man., & SE Sask. [?same sp. as *humulus* & *serotina* with later-spring univoltine flight?, needs work])
Celastrina (argentata?) serotina TL Great Swamp, near West Kingston, Washington Co. R.I.
Celastrina (argentata?) humulus TL Red Rocks, Jefferson Co. Colo.

Celastrina neglectamajor TL Coalburgh, Kanawha Co. W.Va.
Celastrina nigra TL Coalburgh, Kanawha Co. W.Va.; =*ebenina* TL Coalburgh, Kanawha Co. W.Va.
Udara (Vaga) blackburni TL mtn. pass on Oahu, Hawaii
Hemiargus (hanno) ceraunus antibubastus TL Georgia
Hemiargus (hanno) ceraunus gyas TL Tucson, Ariz.; (*astenidas* [TL?] is nomen dubium)
Philotes sonorensis sonorensis TL La Tuna Can., LA Co., Calif.
Philotes sonorensis extinctis TL upper San Gabriel wash, LA Co. Calif. (extinct)
Philotiella speciosa speciosa TL Havilah, Kern Co. Calif.; =*septentrionalis* TL Fort Churchill Rd., Lyon Co. Nev.
Philotiella speciosa purissima TL Harris Grade N of Lompoc, Santa Barbara Co. Calif.
Philotiella speciosa bohartorum TL Briceburg, Mariposa Co. Calif.
Philotiella speciosa leona TL mile 226 US hwy 97, Klamath Co. Ore.
Euphilotes stenchospecies battoides (includes *bernardino*, *allyni*, *battoides*, *ellisii*, *baueri*, *glaucon*, *centralis*)
Euphilotes bernardino bernardino TL San Gabriel Mts., Calif.; =>*inyomontana* TL ridge above Wood Can., Panamint Range, Calif. (intermediate to *martini*)
Euphilotes bernardino martini TL Oatman, Mohave Co. Ariz.
Euphilotes bernardino minuta TL Baking Powder Flat, 1 mi. S Blind Spring, Spring Valley, White Pine Co. Nev.
Euphilotes bernardino allyni TL El Segundo, LA Co. Calif.
Euphilotes battoides battoides TL nr. Mono Pass, Inyo Co. Calif.
Euphilotes battoides unnamed ssp. Ore. high Cascades on *Eriog. marifolium*
Euphilotes battoides vernalis TL Coxey Meadow, San Bernardino Co. Calif.
Euphilotes battoides (ellisii) anasazi TL Aztec, San Juan Co. New Mex.
Euphilotes battoides (ellisii) ellisii TL West Creek, Unaweep Can., Mesa Co. Colo.
Euphilotes battoides (ellisii) basinensis TL 3-4 mi. SE Dayton, Pine Nut Mts., Lyon Co. Nev.
Euphilotes battoides (ellisii) euromojavensis TL Macedonia Can., Mid Hills, San Bernardino Co. Calif.; =*avawatz* TL 5 km W Old Mormon Spring, Avawatz Mts., San Bernardino Co. Calif.
Euphilotes battoides (baueri) baueri TL W side Gilbert Pass, Inyo Co. Calif.
Euphilotes battoides (baueri) orientis TL 12.5 mi. N Pioche, Bristol Mts., Lincoln Co. Nev.
Euphilotes glaucon oregonensis TL Crater Lake, Klamath Co. Ore.
Euphilotes glaucon glaucon TL nr. Virginia City, Storey Co. Nev.; =*mazourka* TL NW edge Badger Flat, Inyo Mts., Inyo Co. Calif.; =*panamintensis* TL Wildrose Can., Panamint Range, Inyo Co. Calif.; =*fusimaculata* TL Peavine Crk. Cgd., Toiyabe Mts., Nye Co. Nev.; =>*australoglaucon* TL Independence Crk., Inyo Co. Calif. (intermediate to *argocyanea*)
Euphilotes glaucon argocyanea TL E end Nelson Range, Inyo Co. Calif.
Euphilotes glaucon hadrochilus TL 6 km S of Westgard Pass, Inyo Co. Calif.
Euphilotes glaucon comstocki TL Tehachapi Mts., Kern Co. Calif.
Euphilotes glaucon intermedia TL Shasta Co. Calif. (presumably vic. Castella)
Euphilotes (glaucon) centralis TL Salida, Chaffee Co. Colo.
Euphilotes stenchospecies enoptes (includes *mojave*, *enoptes*, *dammersi*, *langstoni*, *ancilla*)
Euphilotes mojave mojave TL Randsburg, Kern Co. Calif.
Euphilotes mojave virginensis TL Cabin Can., Virgin Mts., Clark Co. Nev.
Euphilotes enoptes enoptes TL near Belden, Plumas Co. Calif.; =*aridorum* TL Peavine Peak Rd. at hwy 395, Washoe Co. Nev.
Euphilotes enoptes bayensis TL China Camp, near Point San Pedro, Marin Co. Calif.; =*tildeni* TL Del Puerto Can., 22 mi. W Patterson, Stanislaus Co. Calif.
>*Euphilotes enoptes arenacola* TL Marina Beach dunes, 5 mi. N Monterey, Monterey Co. Calif.
Euphilotes enoptes smithi TL Burns Creek, hwy. 1, Monterey Co. Calif.
Euphilotes enoptes cryptorufes TL S facing slopes of Pyramid Mtn., San Jacinto Mts., Riverside Co. Calif.
Euphilotes enoptes dammersi TL Snow Creek, Riverside Co. Calif.; =*opacapulla* TL Grapevine Can., Newberry Mts., Clark Co. Nev.
Euphilotes enoptes langstoni TL 6 rd. mi. S Sherwin Summit, Mono Co. Calif.; =*primavera* TL Penrod Can., 9 rd. mi. S Schurz, Wassuk Range, Mineral Co. Nev.
Euphilotes (ancilla) columbiae TL Columbia R. near Brewster, Okanogan Co. Wash.
Euphilotes ancilla pseudointermedia TL Castle Peak near Donner Pass, Nevada Co. Calif.
Euphilotes ancilla ancilla TL Eureka, Juab Co. Utah.
>>*Euphilotes ancilla gilvatunica* TL Nev. road 341, 3.3 mi. E US 395, Washoe Co. Nev.
Euphilotes ancilla giulianii TL ridge 0.8 mi. SE Wahguyhe Peak, Grapevine Mts., Nye Co. Nev.
Euphilotes ancilla purpura TL Willow Creek, Spring Mts., Clark Co. Nev.; =*cryptica* TL Cold Creek, Spring Mts., Nev. (allochronic); =*shieldsi* TL Trail Can. road, 9.5 rd. mi. W Nev. road 264, White Mts., Esmeralda Co. Nev.
Euphilotes rita coloradensis TL 7 mi. S Kendrick, Lincoln Co. Colo.

Euphilotes rita rita TL Ramsey Can., Huachuca Mts., Ariz.
Euphilotes rita pallescens TL Little Granite Mtn., Dugway Proving Ground, Tooele Co. Utah (intermediate to *rita* in Washington Co. Utah); =*arenamontana* TL Sand Mtn., US 50, Churchill Co. Nev.
Euphilotes rita mattonii TL 4 air mi. W Charleston Res., SW of Jarbidge Mts., Elko Co. Nev.
Euphilotes rita emmeli TL summit of road to 12 mi. E Little Flat Top, 10-11 mi. SE Utah Hwy. 24, Emery Co. Utah
Euphilotes rita ricei TL just W Sand Pass, 15 mi. NW Winnemucca, Humboldt Co. Nev.; =*calneva* TL WSW Calneva RR stop, SE Honey Lake Valley, Lassen Co. Calif. (less extreme than *ricei*)
Euphilotes rita elvirae TL 3.5 mi. SW Pearblossom, LA Co. Calif.; =>*confusa* TL Rest Spring, Cottonwood Mts., Death Valley NM, Inyo Co. Calif. (intermediate to *pallescens*)
Euphilotes spaldingi spaldingi TL Provo, Utah Co. Utah
Euphilotes spaldingi pinjuna TL Shilling's Spring, Conejos Co. Colo.
Glaucopsyche piasus umbrosa TL slope E Big Laguna Lake, Laguna Mts., San Diego Co. Calif.
Glaucopsyche piasus sagittigera TL Glendale, LA Co., Calif.; =*gabrielina* TL WNW Windy Gap, ridge E from Mt. Islip, San Gabriel Mts., LA Co. Calif.
Glaucopsyche piasus daunia TL Turkey Creek, Jefferson Co. Colo.; =*toxema* TL Garnett Valley, Summerland, BC; =*nevada* TL Bob Scott Cgd., Lander Co. Nev.; =>*excubita* TL Four Jeffrey Cgd., vic. Andrews Camp, Bishop Crk., Inyo Co. Calif.
Glaucopsyche piasus piasus TL hwy 70 at Soda Crk., Plumas Co. Calif.; =*viaca* TL Lake Tahoe, Placer Co. Calif.
Glaucopsyche lygdamus lygdamus TL Burke Co. Ga.; =*nittanyensis* TL Bear Meadows, near State College, Centre Co. Penn.; =>*jacki* TL Barber Co. Kans. (intermediate to *oro*)
Glaucopsyche lygdamus couperi TL Anticosti I., Gulf of St. Lawrence, Que.; =*mildredae* TL island off Baddeck, Cape Breton I., N.S.
Glaucopsyche lygdamus afra TL Brandon, Man.
Glaucopsyche lygdamus arizonensis TL White Mts., Ariz.
Glaucopsyche lygdamus oro TL Fairplay, Park Co. Colo.
>*Glaucopsyche lygdamus deserticola* TL Cottonwood Pass Road, Spring Mts., Nev.
>*Glaucopsyche lygdamus minipunctum* TL Cabin Can., Virgin Mts., Clark Co. Nev.
Glaucopsyche lygdamus australis TL Pasadena, LA Co. Calif.; =>*sabulosa* TL dunes W Palm Ave X Lake Drive, Monterey Co. Calif. (intermediate to *incognitus*); =>*palosverdesensis* TL Rancho Palos Verdes, LA Co. Calif. (intermediate to *incognitus*)
>*Glaucopsyche lygdamus pseudoxerces* TL Acapulco Can., Santa Rosa I., Calif. (black pupils a bit smaller on unh)
Glaucopsyche lygdamus xerces TL San Francisco, Calif. (often no black dots in uns postmedian white spots, form *xerces*)(extinct)
Glaucopsyche lygdamus xerces form *polyphemus*=*antiacis*=*behrii* (usual form, small to moderate black dots in white spots)
Glaucopsyche lygdamus xerces form *mertila* (like *polyphemus* but adds white dash in unf cell)
Glaucopsyche lygdamus incognitus TL Alum Rock Park, Santa Clara Co. Calif.
Glaucopsyche lygdamus columbia TL Port Columbia, Brewster, Okanogan Co. Wash.; =aberration *orcus* TL Storey Co. Nev.
Glaucopsyche lygdamus kurnakovi TL Omsukchanky Mts. & town Seimchan, Magadan Province, Russia
Echinargus (Cyclargus) thomasi bethunebakeri TL Miami, Fla. (is it really a separate genus from *Hemiargus*?)
Echinargus (Cyclargus) ammon TL Cuba, Mex.
Echinargus isola TL near Vera Cruz, Veracruz, Mex.; =*alce* TL Larkspur, Douglas Co. Colo.
Polyommatus icarus TL Saxony, Germany
Plebejus (Lycaeides) stenochospecies idas (includes *anna*, *vancouverensis*, *scudderii*, *atrapraetextus*, *fridayi*, *annetta*, *samuels*, *pseudosamuels*, *melissa*)
Plebejus anna anna TL Truckee, Sierra Nevada, Nevada Co. Calif.; =*ricei* TL vic. Big Cultus Lake, Deschutes Co. Ore.; =*frechini* TL Paradise Valley, Mt. Rainier, Wash.
Plebejus anna lotis TL Mendocino, Mendocino Co. Calif. (extinct)
>*Plebejus anna azureus* TL White Rock, 10 mi. S Wildwood, Trinity Co. Calif. (intermediate *lotis*X*anna* but bluer female ups)
Plebejus anna vancouverensis TL Cream Lake, Strathcona Park, Vancouver I., BC
Plebejus (Lycaeides) scudderii scudderii TL Sask.; =*subarcticus* TL Fairchild Point, Great Slave Lake, NWT
Plebejus scudderii aster TL Avalon Peninsula, Nfld.; =>*empetri* TL Baddeck, N.S.
Plebejus scudderii nabokovi TL forest road 122, Lake Co. Minn.
Plebejus atrapraetextus alaskensis TL Fort Yukon, Alaska (legume feeder)
Plebejus atrapraetextus atrapraetextus TL Priest River, Bonner Co. Ida. (wide-border upf male form frequent); =*sweadneri* TL Uranus Peak, Shoshone Co. Ida.; =>*ferniensis* TL Fernie, BC (wide-border form infrequent)
Plebejus atrapraetextus benwarner TL Cedar Pass, Warner Mts., Calif.

Plebejus atrapraetextus fridayi TL [high mts. near] Mammoth, Mono Co. Calif.
Plebejus atrapraetextus annetta TL high Wasatch Mts. E Salt Lake City, Utah
Plebejus atrapraetextus sublivens TL Tomboy Road E Telluride, 10000-12000', San Miguel Co. Colo.
Plebejus atrapraetextus longinus TL Jackson Hole, Teton Co. Wyo.
Plebejus (atrapraetextus?) samuelis TL Center (=Karner), Albany Co. N.Y.
Plebejus melissa pseudosamuelis TL Red Mtn. Inn, hwy. 82, Lake Creek, E of jct. of North Fork & South Fork of Lake Creek, Lake Co. Colo.
Plebejus melissa melissa TL Tinytown, Jefferson Co. Colo.; =*alateres* TL Logandale, Moapa valley, Clark Co. Nev.; =*inyoensis* TL Olancho, Inyo Co. Calif.
Plebejus melissa paradoxa TL Tehachapi Mts., Kern Co. Calif.
Plebejus melissa ssp. (smaller orange spots, S BC)
Plebejus (Albulina) optileta yukona TL mts. between Mission & Forty-Mile Creeks, Alaska
Plebejus (Plebejus) saepiolus hilda TL head of S fork of Santa Ana R., San Bernardino Mts., Calif.; =>*aureolus* TL SW Big Pines Ranger Station, San Gabriel Mts., LA Co. Calif. (an extreme of *hilda*, invoking pretend TL & jumping ssp.)
Plebejus saepiolus aehaja TL Tioga Pass, Mono Co. Calif.
Plebejus saepiolus rufescens TL Gold Lake, Sierra Co. Calif.
Plebejus saepiolus saepiolus TL Bear Valley, near Olema, Marin Co. Calif.; => *maculosus* TL Snake Creek, Great Basin NP, Snake Range, Nev. (topotype series lacks large dots)
Plebejus saepiolus littoralis TL sand dunes N end Lake Earl, Del Norte Co. Calif.
Plebejus saepiolus gertschi TL Cedar Breaks, near Cedar City, Iron Co. Utah; =*albomontanus* TL E of Barcroft lab, White Mts., Calif.; =>*whitmeri* TL near Woodland Park, Rampart Range Rd., Teller Co. Colo. (intermediate toward *saepiolus*=*maculosus*)
Plebejus saepiolus amica TL Fort Smith, NWT; =*insulanus* TL Victoria, Vancouver I., BC
Plebejus saepiolus (unnamed ssp. fewer unh dots, Saratoga Beach, Vancouver I., BC)
Plebejus saepiolus kodiak TL "Kodiak", evidently Sitka, Alaska
Plebejus (Icaricia) icarioides pheres TL San Francisco, Calif. (extinct in San Francisco); =*parapheres* TL Pt. Reyes dunes, Marin Co. Calif.; =>*missionensis* TL Twin Peaks, San Francisco, Calif. (intermediate toward *pardalis*)
Plebejus icarioides pardalis TL Lake Chabot, Alameda Co. Calif.; =*mintha* TL Marin Co. Calif.; =*atascadero* TL Atascadero, San Luis Obispo Co. Calif.
Plebejus icarioides icarioides TL hwy 70 at Soda Creek, Plumas Co. Calif.; =*helios* TL Fawn Lodge, Trinity Co. Calif.; =*daedalus* TL Vogelsang Pass, Yosemite NP, Calif.; =*phileros* TL slope above Donner Pass, Placer Co. Calif.; =>*eosierra* TL ~5 mi SW Olancho, Inyo Co. Calif. (intergrade of *fulla* & *icarioides* & *albihalos*)
>*Plebejus icarioides fenderi* TL 6 mi. SE McMinnville, Yamhill Co. Ore.
Plebejus icarioides evius TL La Crescenta, LA Co. Calif.; =*santana* TL Yaeger Mesa above Trabuco Can., Orange Co. Calif.; =>*inyo* TL Side Hill Spring, Inyo Mts., Inyo Co. Calif. (intermediate *evius*X*albihalos*)
Plebejus icarioides moroensis TL Moro Beach, San Luis Obispo Co. Calif.
Plebejus icarioides fulla TL Sonora Pass, Mono Co. Calif.; =*ardea* TL vic. Virginia City, Storey Co. Nev.
Plebejus icarioides pembina TL Lost Horse Road, Bitter Root Mts., Ravalli Co. Mont.; =*montis* TL Mt. McLean, near Lillooet, BC
Plebejus icarioides lycea TL Gregory Can., Boulder Co. Colo.
Plebejus icarioides panamintina TL between Mahogany Flats & Arcane Meadows, Panamint Range, Inyo Co. Calif.
Plebejus icarioides albihalos TL E of Campito Mtn., White Mts., Calif.; =*austinorum* TL Kyle Can. Ski area, Spring Range, Nev.; =>*argusmontana* TL Mtn. Springs Can., Argus Mts., Inyo Co. Calif. (intermediate *albihalos*X*fulla*)
Plebejus icarioides buchholzi TL White Mts., Ariz.
Plebejus icarioides blackmorei TL Goldstream, Vancouver I., BC
Plebejus (Icaricia) shasta shasta TL slope S above Donner Pass, Placer Co. Calif.; =*comstocki* TL Glacier Point, Yosemite NP, Calif.; =*calchas* TL Mono Lake, Mono Co. Calif.
Plebejus shasta minnehaha TL Heart River, Grant Co. N.D.; =*browni* TL Powder River Pass, Johnson Co. Wyo.; =*pallidissima* TL vic. Stella Lake, Snake Range, Nev.
Plebejus shasta charlestonensis TL Lee Can. near ski tow, Spring Range, Nev.
Plebejus shasta pitkinensis TL Snowmass Lake, Pitkin Co. Colo.
Plebejus shasta platazul TL Hermit Pass, Sangre de Cristo Mts., Custer Co. Colo.
Plebejus stenchospecies acmon (includes *acmon*, *texanus*, *lutzi*, *alupini*, *chlorina*)
Plebejus (Icaricia) acmon TL San Francisco, Calif.
Plebejus (Icaricia) alupini dedeckera TL N-facing slope of Coldwater Can., W side White Mts., Mono Co. Calif. (spelling corrected to *alupini*, a lapsus contrarius)
Plebejus alupini texanus TL 1 mi. S Hillside, Yavapai Co. Ariz.; =*alpicola* TL Barney Lake, Mono Co. Calif.
Plebejus alupini lutzi TL Snowslide Can., 8 mi. from Montpelier, Bear Lake Co. Ida.

Plebejus alupini cotundra TL Hall Valley, Park Co. Colo.
Plebejus alupini spangelatus TL Gray Wolf Range, Olympic Mts., Wash.
Plebejus alupini unnamed ssp. (wider upf male border, high mts from Mt. Shasta to Cascades of Deschutes Co. Ore.,
Eriog. pyrifolium var. *coryphaeum*)
Plebejus alupini alupini TL Gold Lake, Sierra Co. Calif.; =*goodpasturei* TL Timber Creek, Schell Creek Range, White
Pine Co. Nev.
Plebejus (Icaricia) chlorina chlorina TL above Tehachapi, Kern Co. Calif.; =*carolyna* TL 5 mi. from Tehachapi, 5000',
Tehachapi Mts., Calif.
Plebejus chlorina monticola TL Upper Arroyo Seco, mts. vic. Pasadena, Calif.; =*argentata* TL W jct. Saline Valley Rd.
& Hunter Mtn. Rd., E end Nelson Range, Inyo Co. Calif.
Plebejus (Icaricia) neurona TL Doble, San Bernardino Co. Calif.
Plebejus (Plebulina) emigdionis TL San Emigdio Can., Kern Co. Calif.
Plebejus (Agriades) stenospecies glandon (includes *glandon*, *aquilo*, *rustica*, *cassiope*, *podarce*)
Plebejus glandon (aquilo) labrador TL Smokey Mtn., Labrador City, Labrador
Plebejus glandon (aquilo) franklinii TL vic. isthmus of Boothia Pen., Nunavut; =*suttoni* TL Southampton I., Hudson
Bay, Nunavut; =*bryanti* TL Black Mtn., 30 mi. SW Aklavik, NWT
Plebejus glandon (aquilo) lacustris TL Norway House, Man.
Plebejus glandon (aquilo) megalo TL Mt. McLean, Lillooet, BC
>*Plebejus glandon (aquilo)* ssp. Canadian Great Plains (looks like *megalo*X*rustica*)
Plebejus glandon (aquilo) rustica TL vic. Empire, Clear Creek Co. Colo.
Plebejus glandon (aquilo) punctatus TL below Greens Peak, White Mts., Ariz.
Plebejus (Agriades) cassiope TL S Dicks Pass, Lake Tahoe region, El Dorado Co. Calif.
>*Plebejus cassiope kelsoni* TL SE above Caribou Lake, Trinity Alps, Calif.
Plebejus (Agriades) podarce podarce TL Summit Valley, S end Lake Van Norden, Donner Pass, Placer Co. Calif.;
= *cilla* TL E Tioga Pass, Mono Co. Calif.
Plebejus podarce klamathensis TL Waterdog Lake, N Trinity Mtn., Humboldt Co. Calif.

PAPILIO BONUS

The Principle of Priority is the springboard into the Old-Name Sewer.

COMMON NAMES OF NORTH AMERICAN BUTTERFLIES

The common names herein have been devised by a committee of butterfly experts called INTEBA, for International Butterfly Association. INTEBA is a currently-informal grouping of people available to anyone in the world interested in the advancement of butterfly study, who agree to adhere to the principles of a biological catalogue, specifically including common names that are usable by the common person but can never be inappropriate or misleading. These names are expected to supplant those of NABA (North American Butterfly Association). In my book *Butterflies of North America...*, I corrected and improved more than 100 of the common names, but unfortunately most subsequent authors did not care and ignored the corrections and just used the old bad common names. So, the names accepted here are mostly those accepted widely including by NABA, and used in the Brock/Kaufman *Butterflies of N.A.* book (reviewed in *Papilio* [N.S.] #19) (evidently the most popular current butterfly book, which mostly uses the NABA common names) and the *Butterflies through Binoculars* books, and only the worst offenders among the misleading inappropriate names are corrected. (Some names accepted by NABA are so inappropriate & misleading, that they absolutely must be corrected, and one sarcastically wonders whether in those cases the organization stands for No Added Brain Assist.)

I considered providing common names for each species along with the entries in the Biological Catalogue. But the Biological Catalogue is supposed to be a scientific work, and scientific papers on butterflies have generally used only scientific names. But that could change, and Common Names have the potential to be more appropriate than scientific names because they can be corrected, whereas scientific names that are grossly misleading cannot be corrected (except by the *lapsus contrarius*, which has yet to gain widespread acceptance). Of course, it does not matter biologically what the bug is called, for instance *Celastrina humulus* could be called the Spotted Hopazul without offending biologists, just as the word *fritillary* is rather silly but is now so entrenched and beloved that no one would think of calling *Argynnis* (*Speyeria*) anything else, or the blue could be given the scientific name of a goat seen eating the hostplant, and the biological facts would not change. Luckily, there are no rules governing common names, so the bad ones can be easily changed and corrected, so theoretically they could better describe actual characteristics of the bugs in nature (even though in actual practice there is a dismaying laziness and recalcitrance displayed by most butterfly enthusiasts who seem willing to keep using misleading names). Technically, readers can use whatever common names they like. The only exception is inappropriate misleading names. Biology is a search for truth, like all the sciences, therefore lies such as misleading inappropriate names cannot be tolerated in any biology-inspired list, and must automatically be corrected wherever found. The worst offenders are listed next, and then the common names of all the butterflies are placed in a separate list from the scientific names. If the common names become accepted by scientists and supplant the scientific names as they have among birds, then common names will enter the regular Biological Catalogue.

Notable Corrected Common Names

Cogia caicus. Gold-costa Skipper is a much better name.

Autochton cincta. White-Banded Skipper is a much better name.

Autochton pseudocellus. Little Golden-Banded Skipper is a much better name.

Thorybes mexicana. The main range is in US, so Mountain Cloudy Wing is a much better name.

Thorybes bathyllus. Southern Cloudy Wing is wrong as the range is farther north than *T. confusus*. Use Eastern Cloudywing.

Thorybes diversus. Western Cloudywing suggests *T. mexicana*, so use California Cloudywing.

Heliopetes ericetorum. Northern White-Skipper is a much better name.

Celotes limpia. Scarce Streaky Skipper is wrong as it is common. Use Chisos Streaky Skipper.

Oligoria maculata. Twin Spot Skipper is wrong there are 3 spots. Use Three-Spot Skipper.

Cymaenes tripunctus. Use Dingy Dotted Skipper as it has many more than 3 spots.

Panoquina panoquinoides is less obscure than *P. panoquin*. Use Estuary Skipper

Panoquina panoquinoides errans. Wandering Skipper is an error as it is not migratory. Use Estuary Skipper.

Hesperia columbia. Chaparral Skipper is a much better name.

Polites sonora. Sonoran Skipper is an error as it is not in Sonora. Use Western Long Dash.

Notamblyscirtes simius. It does not use roadsides or gullies. Use Hilltop Little Skipper.

Lerodea arabus. Blotchy Gray Skipper is a much better name.

Atrytonopsis ovinia edwardsi. Sheep Skipper is an error as the sheep are in NE Ariz. Use Rounded Dusted Skipper.

Papilio xuthus. Asian Swallowtail is a much better name.

Eurema nicippe. Sleepy Orange is a gross error as flight is fast and erratic, and deriving the word sleepy from a tiny black upf dash is ridiculous. Use Erratic Orange.

Eurema nise. Blacktip Sulfur is a much better name.

Colias philodice. Clouded Sulfur is an error as the wings are clear, not cloudy. Use Common Sulfur.

Cercyonis oetus. Dark Wood Nymph is an error in Nev. where the unh is pale gray. Use Small Wood Nymph as does NABA.

Cercyonis sthenele. Scrub Wood Nymph is a much better name.
 Erebia stubbendorffii. Theano Alpine is an error as the scientific name has changed. Use Red-striped Alpine.
 Myscelia ethusa. Blue Wave is a much better name.
 Hamadryas feronia. Variable Cracker is misleading as it is not especially variable. Use Blue Cracker.
 Vanessa carye (annabella). West Coast Lady is bad because bug occurs all over W N.A. to the tropics. Use Western Lady.
 Polygonia progne. Gray Comma is an error which describes the color of *P. gracilis*. *P. progne* has uns dark-gray, so use Dark-Gray Comma.
 Aglais milberti. Fire-Rim Tortoiseshell is a much better name.
 Boloria selene. Silver-Bordered Fritillary is an error as the spots are silver all over unh. Use Silver Meadow Fritillary.
 Boloria tarquinius natazhati. Beringia Fritillary is an error as bug does not occur in Siberia (Beringia is supposed to be a Pleistocene refuge on/near the Bering Strait as it was made dry land by 100 m of sea-level drop.) Use the earlier better name Pleistocene Fritillary.
 Phyciodes batesii. Tawny Crescent is an error as the upf is usually darker than *P. tharos* & *P. cocyta*. Use Bates' Crescent.
 Lycaena phlaeas. American Copper is an error as it is holarctic & African, and ssp. americana has been synonymized to ssp. hypophlaeas. Use the European name Small Copper.
 Lycana arota. Tailed Copper is a much better name.
 Atlides haesus. Great Purple Hairstreak is an error as it is not purple. Use Great Blue Hairstreak.
 Strymon rufofusca. Reddish Hairstreak is an error as it is not reddish. Use Red-Crescent Hairstreak.
 Erora laeta. Early Hairstreak is an error as 2nd gen. is July. Use Turquoise Hairstreak which perfectly fits the unh.
 Celastrina nigra. Dusky Azure is an error as the wings are sooty, not blue. Use Spring Sooty.
 Plebejus acmon. Acmon Blue is an error as nomenclatural shenanigans have spoiled the name acmon, which in past publications applies to multiple species. Use Bob Pyle's name Silver-Studded Blue.
 Plebejus alupini. Lupine Blue is a gross error as larvae & adults shun lupines. Use Large Silver-Studded Blue.
 Plebejus icarioides. Lupine Blue fits only this species, which eats dozens of lupines.
 Plebejus shasta. Shasta Blue applies to only a tiny part of range. Use Cushion Plant Blue as it occurs on windswept ridges where plants are little cushions shaped by wind (blowing dust & ice crystals) & plant genes.
 Philotes sonorensis. Sonora Blue is a current error as Sonora is outside the range in Mex. Use Stonecrop Blue.

COMMON NAMES LIST FOR NORTH AMERICAN BUTTERFLIES

HESPERIIDAE

Phocides pigmalion Mangrove Skipper	<i>U. teleus</i> Teleus Longtail
<i>P. belus</i> Beautiful Beamer	<i>U. tanna</i> Tanna Longtail
<i>P. polybius</i> Guava Skipper	<i>U. simplicius</i> Simple Longtail
<i>Proteides mercurius</i> Mercurial Skipper	<i>U. procne</i> Brown Longtail
<i>Epargyreus zestos</i> Zestos Skipper/Rusty Skipper	<i>U. doryssus</i> White-tailed Longtail
<i>E. clarus</i> Silver-spotted Skipper	<i>Astraptus fulgerator</i> Two-barred Flasher
<i>E. exadeus</i> Broken Silverdrop	<i>A. egregius</i> Small-spotted Flasher
<i>Polygonus leo</i> Hammock Skipper	<i>A. alardus</i> Frosted Flasher
<i>Chionides (catillus?) albofasciatus</i> White-striped Longtail	<i>A. alector=gilberti</i> Mad Flasher
<i>C. zilpa</i> Zilpa Longtail	<i>A. anaphus</i> Yellow-tipped Flasher
<i>Typhedanus undulatus</i> Mottled Longtail	<i>Autochthon cellus</i> Golden-banded Skipper
<i>Polythix octomaculata</i> Eight-spotted Longtail	<i>A. pseudocellus</i> Little Golden-banded Skipper
<i>P. mexicana</i> Mexican Longtail	<i>A. cincta</i> White-banded Skipper
<i>Aguna asander</i> Gold-spotted Aguna	<i>Achalarus lyciades</i> Hoary Edge
<i>A. metophis</i> Tailed Aguna	<i>A. casica</i> Desert Cloudywing
<i>A. claxon</i> Green Aguna	<i>A. albociliatus</i> White-fringed Cloudywing
<i>Zestusa dorus</i> Short-tailed Skipper	<i>A. toxeus</i> Coyote Cloudywing
<i>Codatractus alcaeus</i> White-crescent Longtail	<i>A. (Thessia) jalapus</i> Jalapus Cloudywing
<i>C. arizonensis</i> Arizona Skipper	<i>Thorybes drusius</i> Drusius Cloudywing
<i>C. valeriana</i> Valeriana Skipper	<i>T. bathyllus</i> Eastern Cloudywing
<i>Urbanus proteus</i> Long-tailed Skipper	<i>T. pylades</i> Northern Cloudywing
<i>U. belli</i> Bell's Longtail	<i>T. confusus</i> Confused Cloudywing
<i>U. pronus</i> Pronus Longtail	<i>T. diversus</i> California Cloudywing
<i>U. esmeraldus</i> Esmeraldus Longtail	<i>T. mexicana</i> Mountain Cloudywing
<i>U. dorantes</i> Dorantes Longtail	<i>Cabares potrillo</i> Potrillo Skipper
	<i>Spathilepia clonius</i> Falcate Skipper

Cogia hippalus Acacia Skipper
 C. outis Outis Skipper
 C. caicus Gold-costa Skipper
 C. calchas Mimosa Skipper
 Apyrrothrix araxes Dull Firetip
 Celaenorrhinus fritzgaertneri Fritzgaertner's Flat
 C. stallingsi Stallings' Flat
 Arteurotia tractipennis
 Nisoniades rubescens Purplish-black Skipper
 Pellicia arina Glazed Pellicia
 P. dimidiata
 Windia windi Wind's Skipper
 Noctuana stator
 Bolla brennus Brennus Bolla
 B. clytius Mottled Bolla
 Staphylus ceos Golden-headed Scallopwing
 S. mazans Mazans Scallopwing
 S. hayhurstii Hayhurst's Scallopwing
 Pholisora catullus Common Sootywing
 P. mejicanus Mexican Sootywing/Blue Sootywing
 Hesperopsis libya Mojave Sootywing
 H. alpheus Saltbush Sootywing
 H. alpheus graciellae MacNeill's Saltbush Sootywing
 Gorgythion begga Variegated Skipper
 Sostrata (bifasciata?) nordica
 Mylon pelopidas
 Grais stigmaticus Hermit Skipper
 Timochares ruptifasciatus Brown-banded Skipper
 Anastrus sempiternus
 Chiomara asychis White-patched Skipper
 C. mithrax
 Gesta (gesta) invisus False Duskywing
 Ephyriades brunnea Caribbean Duskywing
 Erynnis icelus Dreamy Duskywing
 E. brizo Sleepy Duskywing
 E. martialis Mottled Duskywing
 E. pacuvius Pacuvius Duskywing
 E. funeralis Funereal Duskywing
 E. zarucco Zarucco Duskywing
 E. baptisiae Wild Indigo Duskywing
 E. lucilius Columbine Duskywing
 E. afranius Afranius Duskywing
 E. persius Persius Duskywing/Hairy Duskywing
 E. juvenalis Juvenal's Duskywing
 E. j. clitus Arizona Juvenal's Duskywing
 E. telemachus Rocky Mountain Duskywing
 E. propertius Propertius Duskywing
 E. p. meridianus Meridian Duskywing
 E. scudderi Scudder's Duskywing
 E. horatius Horace's Duskywing
 E. tristis Mournful Duskywing
 Achlyodes pallida
 Eantis mithridates tamenund Sickle-winged Skipper
 Carrhenes canescens Hoary Skipper
 Xenophanes tryxus Glassy-winged Skipper
 Antigonus emorsa White Spurwing
 A. erosus
 Systasea pulverulenta Texas Powdered-Skipper
 S. zampa Arizona Powdered-Skipper
 Celotes nesus Streaky-Skipper
 C. limpia Chisos Streaky-Skipper
 Pyrgus centaureae Grizzled Skipper
 P. ruralis Two-banded Checkered-Skipper
 P. xanthus Mountain Checkered-Skipper
 P. scriptura Small Checkered-Skipper
 P. communis Common Checkered-Skipper
 P. (communis?) albescens White Checkered-Skipper
 P. philetas Desert Checkered-Skipper
 P. oileus Tropical Checkered-Skipper
 Heliopetes domicella Erichson's White-Skipper
 H. sublinea Sublinea White-Skipper
 H. ericetorum Northern White-Skipper
 H. macaira Turk's-cap White-Skipper
 H. laviana Laviana White-Skipper
 H. arsalte Veined White-Skipper
 Carterocephalus (palaemon) mandan Canadian Skipper
 C. palaemon skada Arctic Skipper
 Piruna pirus Russet Skipperling
 P. haferniki Chisos Skipperling
 P. polingii Four-spotted Skipperling
 P. aea Many-spotted Skipperling
 P. penaea Tamaulipas Skipperling
 Megathymus yuccae Yucca Giant-Skipper
 M. ursus Ursine Giant-Skipper
 M. cofaqui Cofaqui Giant-Skipper
 M. (cofaqui) streckeri Strecker's Giant-Skipper
 Stallingsia smithi maculosus Aloe Giant-Skipper
 Agathymus neumoegeni Orange Giant-Skipper
 A. n. chisosensis Chisos Giant-Skipper
 A. polingi Poling's Giant-Skipper
 A. aryxna Arizona Giant-Skipper
 A. (aryxna) alliae Mojave Giant-Skipper
 A. evansi Huachuca Giant-Skipper
 A. mariae Lechuguilla Giant-Skipper
 A. remingtoni Coahuila Giant-Skipper
 A. stephensi California Giant-Skipper
 Erionota thrax Banana Skipper
 Perichares philetas Green-backed Ruby-Eye
 Ancyloxypha numitor Least Skipperling
 A. arene Tropical Least Skipperling
 Oarisma poweshiek Poweshiek Skipperling
 O. garita Garita Skipperling
 O. edwardsii Edwards' Skipperling
 Copaeodes aurantiaca Orange Skipperling
 C. minima Southern Skipperling
 Adopaeoides prittwitzii Sunrise Skipperling
 Thymelicus lineola European Skipperling
 Calpododes ethlius Brazilian Skipper/Canna Skipper
 Panoquina panoquin Salt Marsh Skipper
 P. panoquinoides Estuary Skipper
 P. pan. errans Pacific Estuary Skipper
 P. ocola Ocola Skipper
 P. lucas=sylvicola Purple-washed Skipper
 P. hecebolus Hecebolus Skipper
 P. (fusina?) evansi Evans' Skipper
 Synapte malitiosa Malicious Skipper
 S. salenus Orangish Synapte Skipper
 S. (syraces) shiva Faceted Skipper

Corticea corticea Redundant Skipper
 Amblyscirtes exotera Large Roadside Skipper
 A. cassus Cassus Roadside-Skipper
 A. aenus aenus Bronze Roadside-Skipper
 A. a. linda Linda's Roadside-Skipper
 A. oslari Oslar's Roadside-Skipper
 A. texanae Texas Roadside-Skipper
 A. hegon Pepper & Salt Roadside-Skipper
 A. nereus Slaty Roadside-Skipper
 A. celia Celia's Roadside-Skipper
 A. belli Bell's Roadside Skipper
 A. eos Dotted Roadside-Skipper
 A. elissa Elissa Roadside-Skipper
 A. tolteca Toltec Roadside-Skipper
 A. nysa Nysa Roadside-Skipper
 A. alternata Dusky Roadside-Skipper
 A. vialis Common Roadside-Skipper
 A. aesculapius Lace-winged Roadside-Skipper
 A. reversa Reversed Roadside-Skipper
 A. carolina Carolina Roadside-Skipper
 A. phylace Redhead Roadside-Skipper
 A. fimbriata Redrim Roadside-Skipper
 Vidius perigenes Pale-rayed Skipper
 Monca crispinus=tyrtaeus Violet-patched Skipper
 Nastra lherminier Swarthy Skipper
 N. neamathla neamathla Neamathla Skipper
 N. neamathla julia Julia Skipper
 Cymaenes tripunctus Dingy Dotted Skipper
 C. (odilia) trebius Fawn-spotted Skipper
 Lerodea eufala Eufala Skipper
 L. arabus Blotchy Gray Skipper/Violet-clouded Skipper
 L. arabus dysaules Olive-clouded Skipper
 Lerema accius Clouded Skipper
 L. liris
 Vettius fantasos Fantastic Skipper
 Rhinthon osca
 Decinea percosius Double-dotted Skipper
 Oligoria maculata Three-spot Skipper
 Conga chydaea Hidden-ray Skipper
 Hylephila phyleus Fiery Skipper
 Pseudocopaodes eunus Alkali Skipperling
 Hesperia uncas Uncas Skipper
 H. juba Juba Skipper
 H. comma Common Branded Skipper
 H. woodgatei Apache Skipper
 H. ottoe Ottoe Skipper
 H. leonardus Leonard's Skipper
 H. leonardus pawnee Pawnee Skipper
 H. pahaska Yellow-dust Skipper/Pahaska Skipper
 H. columbia Chaparral Skipper/Columbian Skipper
 H. viridis Black-dust Skipper/Green Skipper
 H. attalus Dotted Skipper
 H. metea Cobweb Skipper
 H. meskei Meske's Skipper
 H. dacotae Dakota Skipper
 H. sassacus Indian Skipper
 H. lindseyi Lindsey's Skipper
 H. miriamae Sierra Skipper
 H. nevada Nevada Skipper
 Polites (Yvretta) carus Carus Skipper
 P. (Y.) rhesus Rhesus Skipper
 Polites sabuleti Sandhill Skipper
 P. draco Draco Skipper/Rocky Mtn. Skipper
 P. peckius Peck's Skipper
 P. mardon Mardon Skipper
 P. baracoa Baracoa Skipper
 P. themistocles Tawny-edged Skipper
 P. origenes Crossline Skipper
 P. mystic Long Dash
 P. sonora Western Long Dash
 P. vibex Whirlabout
 Wallengrenia otho Red Broken-Dash/Southern Broken-Dash
 W. egeremet Brown Broken-Dash/Northern Broken-Dash
 Pompeius verna Little Glassywing
 Atalopedes campestris Sachem
 Atrytone arogos Arogos Skipper
 Problema byssus Byssus Skipper
 P. bulenta Rare Skipper
 Poanes zabulon Zabulon Skipper
 P. taxiles Taxiles Skipper
 P. hobomok Hobomok Skipper
 P. aaroni Aaron's Skipper
 P. viator Broad-winged Skipper
 P. yehl Yehl Skipper
 P. massasoit Mulberry Wing
 P. melane Umber Skipper
 Stinga morrisoni Morrison's Skipper/Arrowhead Skipper
 Ochloides agricola Rural Skipper
 O. sylvanoides Woodland Skipper
 O. yuma Yuma Skipper/Giant-reed Skipper
 Paratrytone snowi Snow's Skipper/Rusty Gully Skipper
 Anatrytone logan Delaware Skipper
 A. mazai
 Quasimellana eulogius Common Mellana
 Notamblyscirtes simius Hilltop Little Skipper
 Euphyes pilatka Palatka Skipper
 E. conspicua Black Dash
 E. dion Dion Skipper
 E. dion bayensis Bay Skipper
 E. berryi Berry's Skipper
 E. bimacula Two-spotted Skipper
 E. arpa Palmetto Skipper
 E. vestris Dun Skipper
 E. dukesi Dukes' Skipper
 Asbolis capucinus Monk Skipper/Palm Skipper
 Atrytonopsis hianna Dusted Skipper
 A. hianna loammi Loammi Skipper
 A. hianna deva Deva Skipper
 A. vierecki Viereck's Skipper
 A. lunus Moon-marked Skipper
 A. pittacus White-barred Skipper
 A. cestus Cestus Skipper
 A. python Python Skipper
 A. (ovinia) edwardsi Rounded Dusted Skipper
 Nyctelius nyctelius Violet-banded Skipper
 Thespieus macareus Chestnut-marked Skipper

PAPILIONIDAE

Parnassius eversmanni Eversmann's Parnassian
P. clodius Clodius Parnassian
P. phoebus Phoebus Parnassian
P. phoebus smintheus Rocky Mountain Parnassian
Eurytides marcellus Zebra Swallowtail
E. philolaus Dark Kite-Swallowtail
Parides eurimedes mylotes Cattle Heart
P. alopis White-dotted Cattleheart
Battus philenor Pipevine Swallowtail
B. polydamas Polydamas Swallowtail
Papilio xuthus Asian Swallowtail
P. machaon Old World Swallowtail
P. m. bairdii/brucei/oregonius Baird's Swallowtail
P. m. joanae Ozark Swallowtail
P. m. brevicauda Short-tailed Swallowtail
P. zelicaon Anise Swallowtail
P. polyxenes Black Swallowtail
P. p. coloro Desert Black Swallowtail
P. indra Indra Swallowtail
P. thoas Thoas Swallowtail
P. crespontes Giant Swallowtail
P. aristodemus Schaus' Swallowtail
P. andraemon Bahamian Swallowtail
P. ornythion Ornythion Swallowtail
P. astyalus Broad-banded Swallowtail
P. androgeus Androgeus Swallowtail
P. anchisiades Ruby-spotted Swallowtail
P. rogeri
P. glaucus glaucus Eastern Tiger Swallowtail
P. g. appalachiensis Appalachian Tiger Swallowtail
P. g. canadensis Canadian Tiger Swallowtail
P. g. rutulus Western Tiger Swallowtail
P. eurymedon Pale Tiger Swallowtail
P. multicaudata Two-tailed Tiger Swallowtail
P. garamas
P. menatius
P. pilumnus Three-tailed Tiger Swallowtail
P. troilus Spicebush Swallowtail
P. palamedes Palamedes Swallowtail

PIERIDAE

Enantia (melite) albania Dimorphic Sulfur
Kricogonia lyside Lyside Sulfur
Nathalis iole Dainty Yellow
Eurema दौरा Barred Yellow
E. mexicana Mexican Yellow/Wolf Face Yellow
E. arbela boisduvaliana Boisduval's Yellow
E. salome Salome Yellow
E. proterpia Tailed Orange
E. messalina Shy Yellow
E. lisa Little Yellow
E. nise Mimosa Yellow
E. dina Dina Yellow
E. nicippe Erratic Orange
Colias nastes Labrador Sulfur
C. tyche Booth's Sulfur
C. canadensis Canadian Sulfur
C. hecla Hecla Sulfur

C. meadii Mead's Sulfur
C. m. johanseni Hyperboreal Sulfur
C. occidentalis Western Sulfur
C. o. christina Christina Sulfur
C. columbiensis BC Sulfur
C. edwardsii Edwards' Sulfur
C. alexandra Queen Alexandra's Sulfur
C. harfordii Harford's Sulfur
C. eurytheme Alfalfa Sulfur/Orange Sulfur
C. philodice Common Sulfur
C. interior Pink-edged Sulfur
C. palaeno Palaeno Sulfur
C. pelidne Pelidne Sulfur
C. scudderi Scudder's Sulfur
C. s. gigantea Giant Sulfur
C. behrii Sierra Sulfur
Zerene cesonia Dogface
Z. eurydice California Dogface
Anteos clorinde White Angled Sulfur/Ghost Brimstone
A. maerula Yellow-angled Sulfur/Yellow Brimstone
Phoebis statira Statira Sulfur
P. orbis Orbed Sulfur
P. sennae Cloudless Sulfur
P. agarithe Large Orange Sulfur
P. argante Apricot Sulfur
P. philea Orange-barred Sulfur
P. neocypris Tailed Sulfur
Anthocharis julia Julia Orangetip
A. sara Sara Orangetip
A. cethura Desert Orangetip
A. midea Falcate Orangetip
A. lanceolata Gray Marble
Euchloe (hyantis) guaymasensis Sonoran Marble
E. hyantis Pearly Marble
E. ausonides Large Marble
E. naina Green Marble
E. creusa Northern Marble
E. olympia Rosy Marble
Appias drusilla Tropical White/Florida White
Melete lycimnia
Neophasia menapia Pine White
N. terlooti Chiricahua White
Catasticta nimbice Mexican Dartwhite
Pieriballia demophile
Leptophobia aripa
Pieris rapae Cabbage White
P. hulda Arctic White
P. marginalis Sharp-veined White
P. oleracea Mustard White
P. virginensis West Virginia White
Pontia protodice Checkered White
P. callidice occidentalis Western White
P. sisymbrii Spring White
P. beckerii Becker's White
Ascia monuste Great Southern White
A. josephina Giant White
A. j. howarthi Howarth's Giant White

NYMPHALIDAE

- Libythea carinenta Snout Butterfly
Danaus plexippus Monarch
D. gilippus Queen
D. eresimus Soldier
Lycorea halia Tiger Mimic-Queen
Dircenna klugii
Pteronymia cotytto
Lethe portlandia Southern Pearly-Eye
L. anhedon Northern Pearly-Eye
L. creola Creole Pearly-Eye
L. eurydice Marsh Eyed Brown
L. e. fumosus Smoky Eyed Brown
L. appalachia Woods Eyed Brown
Coenonympha haydenii Hayden's Ringlet
C. tullia Common Ringlet
Cyllopsis pyracmon Nabokov's Satyr
C. pertepida Canyonland Satyr
C. gemma Gemmed Satyr
Paramacera xicaque Pine Satyr
Hermeuptychia hermes Hermes Satyr
H. h. sosybius Carolina Satyr
Neonympha areolata Georgia Satyr
N. helicta Helicta Satyr
N. mitchellii Mitchell's Satyr
Megisto cymela Little Wood-Satyr
M. c. viola Viola's Wood-Satyr
M. rubricata Red Satyr
Cercyonis pegala Common Wood-Nymph
C. sthenele Scrub Wood-Nymph/Great Basin Wood-Nymph
C. meadii Mead's Wood-Nymph/Red Wood-Nymph
C. oetus Small Wood-Nymph
Gyrocheilus patrobas Red-bordered Satyr
Erebia vidleri Vidler's Alpine
E. rossii Ross' Alpine
E. disa Disa Alpine
E. mancinus Taiga Alpine
E. magdalena Magdalena Alpine/Rockslide Alpine
E. fasciata Banded Alpine
E. epipsodea Common Alpine
E. discoidalis Red-disked Alpine
E. stubbendorffii Red-striped Alpine
E. dabanensis youngi Young's Four-dotted Alpine
E. kozhantshikovi Reddish Alpine
E. occulta Eskimo Alpine
E. callias Colorado Alpine
Neominois ridingsii Grasshopper Satyr/Ridings' Satyr
N. r. wyomingo Swale Satyr
Oeneis uhleri Uhler's Arctic
O. nevadensis Great Arctic
O. (nevadensis) macounii Macoun's Arctic
O. chryxus Chryxus Arctic
O. calais Calais Arctic
O. alberta Alberta Arctic
O. bore White-veined Arctic
O. jutta Jutta Arctic
O. alpina Sentinel Arctic
O. melissa Melissa Arctic
O. polixenes Polixenes Arctic
O. philipi Philip's Arctic
Morpho polyphemus White Morpho
M. peleides Blue Morpho
Anaea troglodyta floridalis Florida Leafwing
A. aidea Tropical Leafwing
A. andria Goatweed Leafwing
A. glycerium Angled Leafwing
A. pithyusa Pale-spotted Leafwing
A. echemus Creamy Leafwing
A. forreri Blue Leafwing
Archaeoprepona demophon centralis
Limenitis archippus Viceroy
L. arthemis White Admiral
L. a. astyanax Red-spotted Purple
L. weidemeyerii Weidemeyer's Admiral
L. lorquini Lorquin's Admiral
Adelpha fessonia Band-celled Sister
A. basiloides
A. eulalia Mexican Sister
A. (bredowii?) californica California Sister
Dione moneta Mexican Silverspot
D. vanillae Gulf Fritillary
Dryas iulia Julia Heliconian
Dryadula phaetusa Banded Orange Heliconian
Heliconius (Eueides) isabella Isabella's Heliconian
H. charithonia Zebra (Heliconian)
H. erato Erato Heliconian
Euptoieta claudia Variegated Fritillary
E. hegesia Mexican Fritillary
Argynnis (Speyeria) diana Diana Fritillary
A. cybele Great Spangled Fritillary
A. aphrodite Aphrodite Fritillary
A. nokomis Nokomis Fritillary
A. idalia Regal Fritillary
A. mormonia Mormon Fritillary
A. adiastra Unsilvered Fritillary
A. hydaspe Hydaspe Fritillary
A. callippe Callippe Fritillary
A. atlantis Atlantis Fritillary
A. hesperis Northwestern Fritillary
A. egleis Great Basin Fritillary
A. zerene Zerene Fritillary
A. coronis Coronis Fritillary
A. edwardsii Edwards' Fritillary
Boloria alaskensis Alaskan Fritillary
B. eunomia Bog Fritillary
B. selene Silver Meadow Fritillary.
B. epithore Pacific Fritillary
B. bellona Meadow Fritillary
B. frigga Frigga Fritillary
B. improba Dingy Fritillary
B. alberta Alberta Fritillary
B. astarte Astarte Fritillary
B. astarte distincta Distinctive Fritillary
B. polaris Polar Fritillary
B. freija Freija Fritillary/Zigzag Fritillary
B. tarquinius natazhati Pleistocene Fritillary

B. titania Purplish Fritillary
 B. t. chariclea Arctic Fritillary
 B. kriemhild Relict Fritillary
 Marpesia zerynthia Waiter Daggerwing
 M. chiron Banded Daggerwing
 M. petreus Ruddy Daggerwing
 M. eleucea Antillean Daggerwing
 Historis odius Odius Leaf Wing
 H. acheronta Acheronta Leaf Wing
 Doxocopa pavon Purple Emperor/Pavon Emperor
 D. laure Silver Emperor
 Asterocampa celtis Hackberry Emperor
 A. leilia Empress Leilia
 A. clyton Tawny Emperor
 A. idyja "Cream-banded" Dusky Emperor
 Dynamine postverta=mylitta
 D. dyonis Blue-eyed Sailor
 Epiphile adrasta Common Banner
 Temenis laothoe
 Hamadryas februa Gray Cracker
 H. glauconome Pale Cracker
 H. atlantis Dusky Cracker
 H. feronia Blue Cracker
 H. guatemalena Guatemalan Cracker
 H. iphthime Ringless Blue Cracker
 H. amphinome Red Cracker
 Myscelia ethusa Blue Wave/Mexican Bluewing
 M. cyananthe Blackened Bluewing
 Eunica monima Dingy Purplewing
 E. tatila Florida Purplewing
 Mestra amymone Common Mestra
 Biblis hyperia Red Rim
 Smyrna blomfieldia Blomfield's Beauty
 Hypanartia lethe Orange Mapwing
 Vanessa virginiensis American Painted Lady
 V. cardui Painted Lady
 V. carye (annabella) Western Painted Lady.
 V. atalanta Red Admiral
 V. tameamea Kamehameha Lady
 Aglais milberti Fire-rim Tortoiseshell/Milbert's
 Tortoiseshell
 A. urticae Small Tortoiseshell
 Nymphalis (Roddia) l-album Compton Tortoiseshell
 N. californica California Tortoiseshell
 N. antiopa Mourning Cloak
 Polygonia interrogationis Question Mark
 P. comma Eastern Comma
 P. satyrus Satyr Comma
 P. progne Dark-gray Comma.
 P. oreas Oreas Comma
 P. gracilis Hoary Comma
 P. faunus Green Comma
 Siproeta stelenes Malachite
 S. epaphus Rusty-tipped Page
 Anartia jatrophae White Peacock
 A. amathea fatima Banded Peacock
 A. lytrea chrysopelea Caribbean Peacock
 Hypolimnas misippus Mimic
 Junonia coenia Buckeye
 J. evarete Tropical Buckeye
 J. e. nigrosuffusa Dark Tropical Buckeye
 J. genoveva Mangrove Buckeye
 Euphydryas phaeton Baltimore Checkerspot
 E. colon Colon Checkerspot
 E. chalcedona Chalcedon Checkerspot
 E. anicia Anicia Checkerspot
 E. bernadetta Bernadetta Checkerspot
 E. editha Edith's Checkerspot
 E. gillettii Gillett's Checkerspot
 Poladryas minuta minuta Dotted Checkerspot
 P. m. arachne Arachne Checkerspot
 Microtia elva Elf
 M. (Dymasia) dymas Tiny Checkerspot
 M. (Texola) elada Elada Checkerspot
 Chlosyne janais Crimson Patch
 C. definita Definite Patch
 C. endeis Banded Patch
 C. melitaeoides Red-spotted Patch
 C. eumeda Eumeda Patch
 C. rosita Rosita Patch
 C. theona Theona Checkerspot
 C. chinatiensis Chinati Checkerspot
 C. cyneas Black Checkerspot
 C. leanira Leanira Checkerspot
 C. l. fulvia Fulvia Checkerspot
 C. nycteis Silvery Checkerspot
 C. gorgone Gorgone Checkerspot
 C. lacinia Bordered Patch
 C. californica California Patch
 C. harrisii Harris' Checkerspot
 C. whitneyi Rockslide Checkerspot
 C. gabbii Gabb's Checkerspot
 C. sterope Sagebrush Checkerspot
 C. palla Northern Checkerspot
 C. hoffmanni Hoffmann's Checkerspot
 Phyciodes frisia Cuban Crescent
 P. f. tulcis Pale-banded Crescent
 P. ptolyca Black Crescent
 P. texana Texan Crescent
 P. t. seminole Seminole Texan Crescent
 P. argentea Chestnut Crescent
 P. vesta Vesta Crescent
 P. mylitta Mylitta Crescent
 P. pallida Pale Crescent
 P. orseis California Crescent
 P. tharos Pearl Crescent
 P. cocyta Northern Crescent
 P. batesii Bates' Crescent.
 P. pulchella Field Crescent
 P. pallescens Pallescens Crescent
 P. picta Painted Crescent
 P. phaon Phaon Crescent

LYCAENIDAE

- Calephelis borealis Northern Metalmark
C. muticum Swamp Metalmark
C. virginensis Little Metalmark
C. nilus perditalis Rounded Metalmark
C. nemesis Fatal Metalmark
C. rawsoni Rawson's Metalmark
C. r. arizonensis Arizona Rawson's Metalmark
C. wrighti Wright's Metalmark/Sweetbush Metalmark
Caria ino Red-bordered Metalmark
Lasaia maria Maria Metalmark
L. sula Blue Metalmark
Melanis pixe Red-bordered Pixie
Emesis zela Zela Metalmark
E. ares Ares Metalmark
E. emesia Curve-winged Metalmark
E. tenebris Falcate Metalmark
Apodemia mormo Mormon Metalmark
A. cythera Oranger Mormon Metalmark
A. virgulti Multivoltine Mormon Metalmark
A. dialeuca Early Mormon Metalmark
A. nais Coppermark/Nais Metalmark
A. n. chisosensis Chisos Coppermark
A. phyciodoides Crescentmark
A. palmeri Palmer's Metalmark/Mesquite Metalmark
A. hepburni Hepburn's Metalmark
A. walker Walker's Metalmark
A. multiplaga Narrow-winged Metalmark
Feniseca tarquinius Harvester
Lycaena phlaeas Small Copper
L. cupreus Lustrous Copper
L. thoe Bronze Copper
L. nivalis Lilac-bordered Copper
L. helloides Purplish Copper
L. florus Florus Copper
L. dorcas Dorcas Copper
L. epixanthe Bog Copper/Cranberry-bog Copper
L. mariposa Mariposa Copper/Forest Copper
L. gorgon Gorgon Copper
L. heteronea Blue Copper
L. rubidus Ruddy Copper
L. dione Gray Copper
L. xanthoides Great Copper
L. x. editha Edith's Copper
L. hermes Hermes Copper
L. arota Tailed Copper
Hypaurotis crysalus Colorado Hairstreak
Habrodais grunus Golden Hairstreak
Eumaeus atala Atala/Cycad Hairstreak
E. toxea Toxic Cycad Hairstreak
Atlides halesus Great Blue Hairstreak
Rekoa palegon Slated Hairstreak
R. marius Double-spotted Slate Hairstreak
Arawacus jada Nightshade Hairstreak/Creamy Stripe-
Streak
Satyrium fuliginosa Sooty Hairstreak
S. behrii Behr's Hairstreak
S. liparops Striped Hairstreak
S. kingi Sweetleaf Hairstreak/King's Hairstreak
S. caryaevorus Hickory Hairstreak
S. calanus Banded Hairstreak
S. edwardsii Edwards' Hairstreak
S. aurette Gold-hunter's Hairstreak
S. saepium Hedgerow Hairstreak
S. tetra Mountain Mahogany Hairstreak
S. sylvinus Sylvan Hairstreak/Western Willow Hairstreak
S. californica California Hairstreak
S. acadica Acadian Hairstreak/Northern Willow Hairstreak
S. titus Coral Hairstreak
S. favonius Southern Oak Hairstreak
S. f. ontario Northern Oak Hairstreak
S. f. ilavia Ilavia Hairstreak
S. polingi Poling's Hairstreak
Phaeostrymon alcestis Soapberry Hairstreak
Ocaria ocrisia Black Hairstreak
Chlorostrymon simaethis Silver-banded Hairstreak
C. maesites Amethyst Hairstreak
C. m. telea Continental Amethyst Hairstreak
Callophrys goodsoni Goodson's Greenstreak
C. herodotus Tropical Greenstreak
C. miserabilis Clench's Greenstreak
C. affinis apama Canyon Hairstreak/Apama Hairstreak
C. a. affinis Immaculate Hairstreak
C. a. perplexa Bramble Hairstreak
C. sheridani comstocki Desert Sheridan's Hairstreak
C. s. lemberti Alpine Sheridan's Hairstreak
C. s. viridis Coastal Green Hairstreak
C. s. sheridani Sheridan's Hairstreak
C. gryneus gryneus Olive Juniper Hairstreak
C. g. sweadneri Sweadner's Juniper Hairstreak
C. g. siva Siva Juniper Hairstreak
C. g. nelsoni Nelson's Juniper Hairstreak
C. g. muiri Muir's Juniper Hairstreak
C. g. loki Loki Juniper Hairstreak
C. g. thornei Thorne's Juniper Hairstreak
C. hesseli White-cedar Hairstreak/Hessel's Hairstreak
C. spinetorum Thicket Hairstreak
C. johnsoni Johnson's Hairstreak
C. xami Xami Hairstreak
C. mcfarlandi Beargrass Hairstreak
C. fotis Desert Elfin
C. mossii Moss' Elfin/Stonecrop Elfin
C. augustinus Brown Elfin
C. polios Hoary Elfin
C. irus Frosted Elfin
C. henrici Henry's Elfin
C. lanoraieensis Bog Elfin
C. nippon Eastern Pine Elfin
C. eryphon Western Pine Elfin
Allosmaitia strophius Blue-metal Hairstreak
Ziegleria guzanta Guzanta Hairstreak
Electrostrymon hugon=sangala Ruddy Hairstreak
E. joya=canus Muted Hairstreak
E. angelia Fulvous Hairstreak
Calycopis cecrops Red-banded Hairstreak
C. c. isobeon Dusky-blue Hairstreak

Strymon melinus Gray Hairstreak
 S. avalona Avalon Scrub-Hairstreak
 S. rufofusca Red-crescent Scrub-Hairstreak
 S. albata White Scrub-Hairstreak
 S. alea Lacey's Scrub-Hairstreak
 S. bebrycia Red-lined Scrub-Hairstreak/Balloon-vine
 Hairstreak
 S. yojoa Yojoa Scrub-Hairstreak
 S. cestri Tailless Scrub-Hairstreak
 S. martialis Martial Scrub-Hairstreak
 S. acis Bartram's Scrub-Hairstreak
 S. bazochii Lantana Scrub-Hairstreak
 S. istapa Mallow Scrub-Hairstreak
 S. limenia Disguised Scrub-Hairstreak
 S. serapio Bromeliad Scrub-Hairstreak
 Tmolus echion Red-spotted Hairstreak
 Ministrymon leda Leda Ministreak
 M. clytie Clytie Ministreak
 M. azia Gray Ministreak
 Strephonota tephraeus Tephraeus Hairstreak
 Oenomaus ortygnus Large Brilliant Hairstreak
 Parrhasius m-album White-M Hairstreak
 Hypostrymon critola Sonoran Hairstreak
 Erora laeta Turquoise Hairstreak
 E. l. quaderna Arizona Turquoise Hairstreak
 Lampides boeticus Pea Blue
 Leptotes cassius Cassius Blue
 L. marina Marine Blue
 Brephidium exilis Pygmy Blue
 B. e. pseudofea Eastern Pygmy Blue
 Zizula cyna Cyna Blue
 Zizina otis otis Mimosa Blue
 Cupido comyntas Eastern Tailed Blue
 C. amyntula Western Tailed Blue
 Celastrina neglecta Summer Azure
 C. neglecta echo California Azure
 C. lucia Early Spring Azure
 C. ladon Spring Azure
 C. idella Holly Azure
 C. (argentata?)serotina Cherry-gall Azure
 C. (argentata?) humulus Hop Azure
 C. neglectamajor Appalachian Azure
 C. nigra Spring Sooty
 Udara blackburni Green Hawaiian Blue
 Hemiargus (hanno) ceraunus Ceraunus Blue
 Philotes sonorensis Stonecrop Blue
 Philotiella speciosa Small Blue
 Euphilotes bernardino Bernardino Blue
 Euphilotes battoides etc. Square-spotted Blue
 E. enoptes etc. Dotted Blue
 E. rita Rita Blue
 E. spaldingi Spalding's Blue
 Glaucopsyche piasus Arrowhead Blue
 G. lygdamus Silvery Blue
 Echinargus (Cyclargus) thomasi Miami Blue
 E. (C.) ammon Nickerbean Blue
 E. isola Reakirt's Blue
 Polyommatus icarus Icarus Blue
 Plebejus anna Anna Blue
 P. scudderii Northern Blue
 P. atrapraetextus Hybrid Blue
 P. samuelis Karner Blue
 P. melissa Melissa Blue/Orange-margined Blue
 P. optilete Cranberry Blue
 P. saepiolus Greenish Blue
 P. icarioides Lupine Blue/Boisduval's Blue
 P. shasta Cushion Plant Blue
 P. acmon Silver-studded Blue
 P. alupini Large Silver-studded Blue.
 P. chlorina Greenish Silver-studded Blue
 P. neurona Veined Blue
 P. emigdionis San Emigdio Blue
 P. glandon Arctic Blue/Primrose Blue
 P. cassiope Heather Blue
 P. podarce Sierra Blue

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