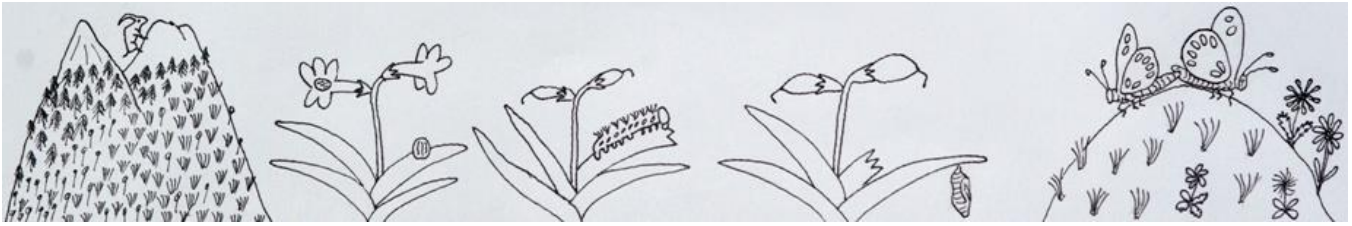


PAPILIO (NEW SERIES) # 28

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BUTTERFLIES OF THE SOUTHERN ROCKY MOUNTAINS AREA, AND THEIR NATURAL HISTORY AND BEHAVIOR: PHOTOS OF MOSTLY EGGS LARVAE PUPAE. PART I HESPERIIDAE

James A. Scott

These four issues of Papilio (New Series) are photos for my book “Butterflies of the Southern Rocky Mts. Area, and their Natural History and Behavior”, showing some adults but mostly early stages (eggs, 1st-stage, mature larvae, and pupae) of as many of the species as possible, primarily from the Southern Rockies area (I added a few other interesting species that do not occur in the area). They have been cropped and downsized to illustrate just the butterflies and conserve kilobytes, rather than serve as artistic images. They are arranged by evolutionary relationship, as in the book text.

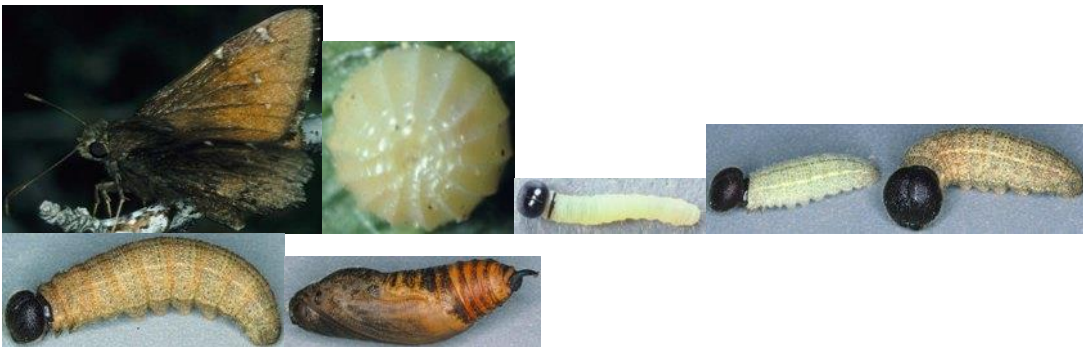
Localities of photos are Colorado especially the Denver/Front Range area, unless noted. Most were taken by J. Scott, some by others (including Elton Woodbury, Steve Spomer, Frank Fee, Jim Troubridge, others listed by Scott 1986a).

Abbreviations: M=male, F=female, A=adult (difficult to determine sex), E=egg, L=larva (L1=1st-stage, L2=2nd-stage, L3=3rd-stage, L4=4th-stage (usually the mature stage in Lycaeninae), L5=5th-stage usually mature in most butterflies, L6=6th stage mature in *Argynnis*), P=pupa

Hesperiidae, Eudaminae



Epargyreus clarus M afternoon rest, E, L1, L5, L5, L5 prepupa, P, P



Cecropterus "Thorybes" pylades pylades M, E, L1, ~L3, L5, L5, P



Cecropterus "Thorybes" diversus Del Norte Co. Calif. E, L1, L5, L5, P, P

Hesperiidae, Pyrginae, Carcharodini



Pholisora catullus catullus F, E, E Ontario, L1, L5, L5 Ont., L5 L5 L5 more-diapausing, P, P



Pholisora mejicanus L5, L4, 2L5 (the pinker nearing diapause), 2P



Hesperopsis libya lena M, F

Hesperiidae, Pyrginae, Erynnini



Erynnis icelus M, E, ~L3, L5



Erynnis brizo burgessi M, E new, E, L1, L5, L5, P, P



Erynnis martialis MF, E new, E, L1, L5, L5, P, P



Erynnis pacuvius M basking, E young, L1, L5, L5 diapausing, P, P



Erynnis afranius M raitting & basking, E new, E, E, L1, L5, L5 near diapause, 2P



Erynnis persius MF, F feeding (note red stigma on abdomen), F closeup of red stigma, F roosting, E new, E, L1, L5, L5



Erynnis telemachus FM, E new, E, L1, L5, L5 near diapause

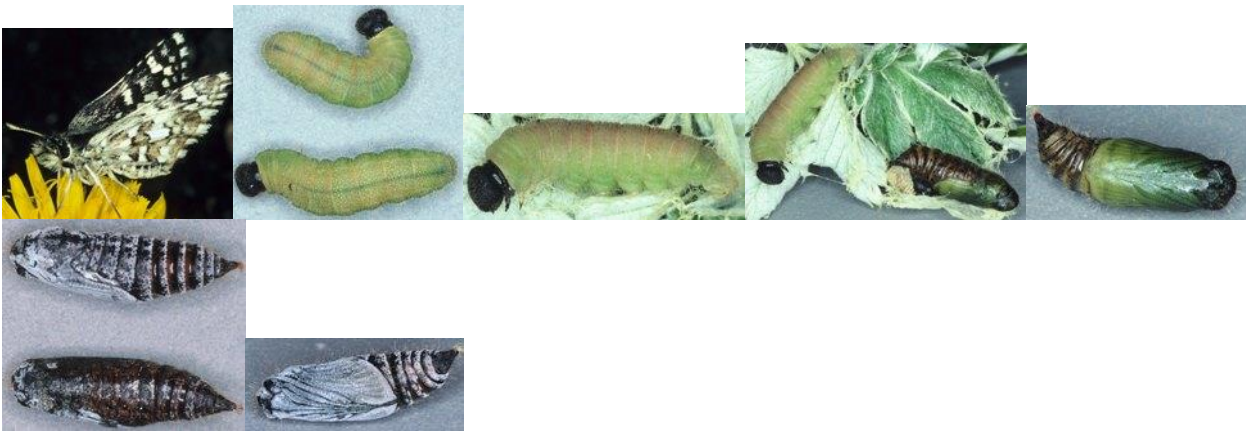


Erynnis juvenalis juvenalis Ontario 2E, L5, P

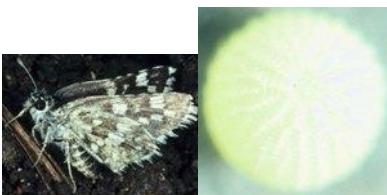
Hesperiidae, Pyrginae, Pyrgini



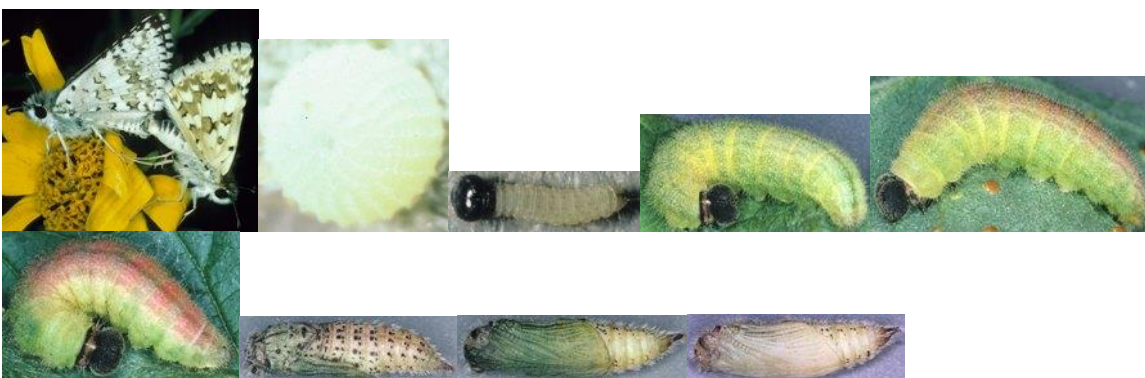
Pyrgus centaureae loki M, E, E, L1, L1, L5 & L4



Pyrgus xanthus M, 2L5, L5 near diapause, L5 near diapause & P newer, P newer, 2P, P



Pyrgus scriptura A, E



Burnsius ("Pyrgus") communis MF, E, L1, L5, L5 diapausing, L5 more diapausing, P new, P new, P

Hesperiidae, Heteropterae



Piruna pirus F, E, L1, L5, L5, 3P, P near emergence & P young

Hesperiidae, Hesperinae, Thymelicini



Ancyloxypha numitor Minn. M, M, E, L1, 2L5 & 2P, 2L5 with four wax glands, 2P, 2P



Oarisma garita M basking, F, E, L1, L1, L1 fed, L3 & 2L5, L5, 2P



Thymelicus lineola M

Hesperiidae, Hesperinae, Moncini



Amblyscirtes aenus aenus M recycling bird dung, L5, L5



Amblyscirtes oslari F, E, L1, L5, L5, L5 head, P, P



Amblyscirtes vialis L1, L5 with frosty head scales, L5 dracula fang & mandibles



Amblyscirtes phylace M basking, E, L5, L5, L5 head, P, P young



Atrytone arogos iowa M, E, L1, L5, L5, L5, L leaf nest, 2P males & head capsules, 2P females

Hesperiidae, Hesperinae, Hesperini



Hesperia uncas Pueblo Co. Colo. L5, L5, P, P both starting to develop adult



Hesperia juba M, E on Bromus tectorum, E, 3P too dark



Hesperia comma colorado M, E, L1, L5, P, P



Hesperia comma ochracea FM, E showing flange around bottom



Hesperia comma mattoonorum Del Norte Co. Calif. L1, L5, L5 with two wax glands, P, P



Hesperia ottoe F, E, L5, P, P



Hesperia leonardus montana F



Hesperia leonardus pawnee E, L1



Hesperia pahaska M



Hesperia viridis M, E, L5 too dark, P, P



Hesperia nevada nevada F, E, L1, L5 with two wax glands, P, P



Polites (Yvretta) rhesus M, E, L1 L5, L4 & 2L5



Polites sabuleti sabuleti Adams Co. Colo. FM, L5, P (both too dark)



Polites draco M, L1, L5, 2P



Polites peckius surllano F, M courting, E, L1, L5, P, P



Polites peckius peckius M Gunnison Co.



Polites themistocles themistocles FM, E older, L5, P, P



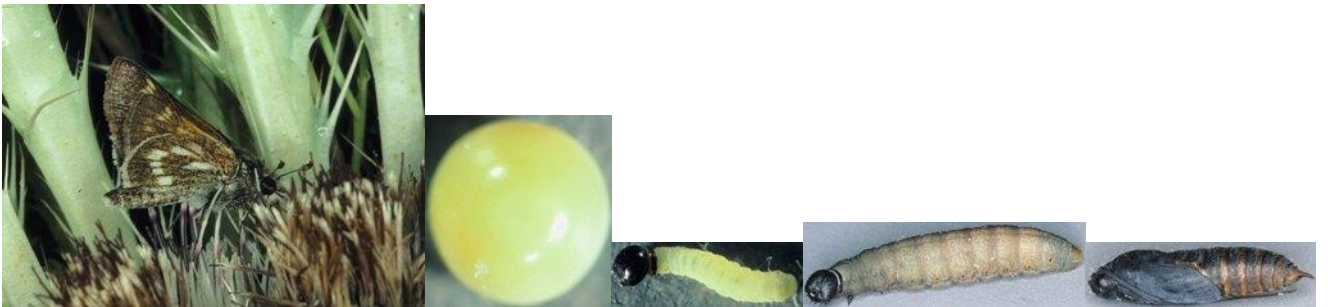
Polites origenes rhena M, E (Ontario ssp. *origenes*), L5, L5, P, P



Polites mardon Del Norte Co. Calif. E, L1, L5, P, P, P



Polites mystic dacotah FM, E, L1, L5



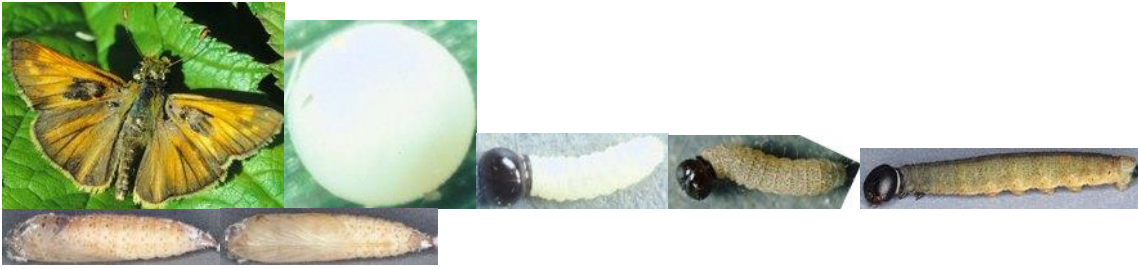
Polites sonora utahensis M on prostrate *Cirsium scariosum* var. *acaulescens*, E, L1, L5, P



Polites vibex vibex Fla. E, L1, L5, L5, P



Pompeius verna Ontario E, L5, P



Atalopedes campestris campestris Nebraska: M, E, L1 new, L1 older, L5, P, P



Poanes taxiles M in *Calystegia sepium*, F on *Cirsium arvense*, E, L1, L5, P, P



Poanes viator viator L3



Stinga morrisoni M, E, L1, L5, L5, P, P



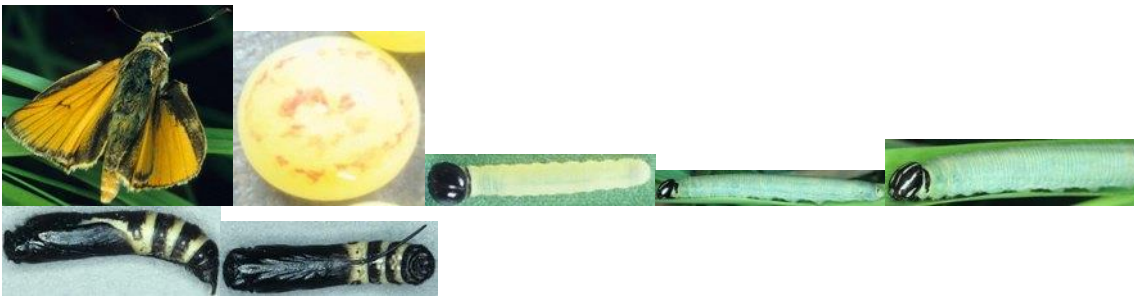
Ochlodes sylvanoides napa FM, E, L1, L5, L5, 2P, P



Ochlodes yuma anasazi M



Paratrytone snowi M, F on *Monarda fistulosa*, E, L1, L5, L5, P, P



Anatrytone logan lagus M basking, E, L1; Minnesota ssp. *logan*: L5, L5, P, P



Euphyes bimacula illinois M, E, L1, L5, P, P



Euphyes dion dion Minn. L5, P nest, P, P



Euphyes vestris kiowah MF, F recycling bird dung, E new, E, E, L1, P, P



Notamblyscirtes simius simius M in *Opuntia polyacantha* flower with 2 sp. beetles, E, L1, L5, L5, P & head capsule, P near emergence & P



Atrytonopsis hianna hianna M, E, L1



Atrytonopsis vierecki E, L1, L5

Hesperiidae, Hesperinae, Megathymini



Agathymus (aryxna) alliae alliae Coconino Co. Ariz. L5