

*Petricola* may stand for the form with orange secondaries. Walker's type happens to be paler than average mountain specimens. The names of course should be reversed, thus:

*S. petricola* Walk.—Ground color of primaries creamy ochreous, secondaries orange. Alberta Rocky Mountains. Rare on the prairie.

Var. *athabasca* Neum.—Ground color of all wings whitish, sometimes pure white. Alberta prairies. Rare in the mountains.

It usually flies on the prairies from the middle of June to the middle of July. My mountain specimens are dated from June 30th to July 27th, but I don't know that I was ever in the mountains before the earlier date. It flies most freely at low levels, but my palest mountain specimen comes from 7,500 feet on Mt. Saskatchewan, and was taken by Mrs. Nicholl. I have a female from Eureka, Utah, which is probably *petricola*. *Athabasca* is well figured by Holland on Pl. XXX., f. 29. What his fig. 35 is I don't know. It may possibly be a worn specimen of this species, but shows more reddish in the secondaries than any of mine. It certainly is not *alleni*. Grote's type of *alleni* in the British Museum appeared to me to be *adumbrata*, as did also the *alleni* of the Henry Edwards collection.

An analogous case to this amongst Alberta butterflies is perhaps found in *Argynnis electra*, which is the predominating form in the mountains where *lais* is rare; whereas *lais* is the normal prairie form, where *electra* is seldom met with.

424. *S. sp.*—I had listed this as *hudsonica*, and it is the *hudsonica* of the Kootenai List. I do not feel quite confident that it is not a variation of that species (No. 422), but I have so far been unable to connect them. I have never taken it on the prairie, nor nearer to Calgary than Laggan, but have seen it on the wing in the daytime in abundance all through the mountains during July, and Dr. Dyar records it apparently as somewhat common in the Kootenai from May 29th to July 13th. So far as the males are concerned, the maculation and color scheme is practically identical with *hudsonica*, but the tone is very much darker, there being more inoration with black scales, and all the black shades blacker.