

Smith published a photograph of his type in the Canadian Entomologist, leaving the identity of his species beyond doubt. I also possessed a specimen "Xd. type" with Walker's *simplex*. But as that comparison had been made at a time when I had failed to recognize two species, I was unable to place any reliance on the comparison. I was, however, quite satisfied as to the distinctness of *crucialis* from *pallidior*. Hampson published a figure of *pallidior*, made from another, of the type, sent to him by Smith, which is quite recognizable. His woodcut of *simplex* is not so good, but my notes on Walker's type were such as to lead me to suspect strongly that I had made a mistake and that Smith also had fallen into his oft-repeated error, in that, whilst recognizing two very closely allied species, instead of seeking a re-identification of *simplex*, he had chosen to assume its correctness, and created a synonym. I accordingly sent Sir George Hampson a few specimens of each, stating my suspicions, carefully pointing out the distinctive characters, and requesting him to re-examine Walker's type. His diagnosis was in accordance with my suspicions, and I have since visited the British Museum and corroborated his evidence, which results in the synonymy here cited. I regret being unable, at present, to publish a close comparison of the two species, for reasons given above, but feel safe in emphasizing the following points: *Crucialis* is slightly longer-winged than *simplex*, the discoidal spots are a trifle smaller, and the subterminal line or series of blackish streaks is arranged so as to form two oblique triangular shades. In *simplex* they form a more regular and even series, about parallel with the termen. The two species occur together and are not rare on Vancouver Island. Whilst *crucialis* has usually the clearest white ground colour of the two, both have a dark, almost suffused, grey variation. I have been misled into mistaking the extreme dark variations of either species for one form, the corresponding light variations for the other, and must warn others against falling into this error. It must be admitted that the two species are not easily distinguished unless well known.

The synonymy stands as follows:—

*Xylomiges simplex* Walk.

" *pallidior* Smith.

*Xylomiges crucialis* Harr.

" *simplex* Smith et al., nec Walk.