GEOMETRID NOTES.—ON *MESOLEUCA CAESIATA*.

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As I looked through the Packard collection at Cambridge, Mass., I noticed that his eastern types of *Mesoleuca caesiata* Denis & Schiffermüller were not like the European ones of his own or my collection. *Mesoleuca caesiata* in Packard's European collection numbered some 12 or 15 examples from Standinger and others, the localities being Lapland, Iceland, Switzerland and Austrian Alps. His American examples were from Okak and Caribou Islands, also Mt. Washington, Aug. 1-11, and specimens from Randolph, Vt., in the Boston Society of Natural History. In the Proc. Bost. Soc. Nat. Hist., Vol. XI, 1866, page 51, he described *Cidaria aurata* from Okak, Caribou Islands and Mt. Washington, N. H. He speaks of these as having golden scales on the fore wings and on examining the types I found they agreed with the original descriptions but not with the European forms. Thus I saw we had two distinct species of which I note the following.

In *caesiata* European, the hind wings are whitish with traces of brown markings, the fringe of both wings being black and white. In some the markings are sharp and well defined, being powdered with golden scales. The discal spot is plain and distinct, there being a white and black cast to all wings. In *caesiata*, American form, or *aurata*, the specimens are of a brownish cast, smoky as it were and not black and white like the European. The hind wings lack the pallid white of true *caesiata* and are suffused with brown, and there are two white wavy zig-zag lines with brown margins to wings. The discal spot is suffused and the center of the mesial land is not clear, like European, but smoky and divided though not gray as some Iceland examples or reddish brown as my European examples from Pitcairpel. *Mesoleuca flavicincta* of Europe is a closely allied form to *aurata* but is so distinct as not to allow discussion. The variety *Mesoleuca inventaria* of Grote (Bull. Geol. Surv. Terr. Hayden VI, 591, 1882), may be a synonym of this but as I have not seen the type I can not say. While working over this matter last February, I wrote to Dr. Taylor in regard to the western forms, as they were unknown to me; and he assures me that they are the same as Eastern, though I believe he did not have the description as he did not then possess a copy of the description in the Boston Society Papers, for which he wrote afterwards. No doubt we shall have an interesting paper from him on the western form.