

it dexterously fashions into a girth around the middle, and thus supported finally turns into a chrysalis. This is pale green or whitish, finely and regularly speckled with black, and in shape much resembles that of *P. rapæ*, of which an illustration will be hereafter given. In summer the chrysalis state lasts only a week or ten days, but in the case of the autumn brood the insect remains in this condition all winter and only comes forth as a Butterfly in the April or May following.

REVIEWS.

CONTRIBUTIONS TO ENTOMOLOGY FROM THE STATE OF NEW YORK. —Two works of value on the life history of various insects taken in the neighbouring State of New York, are before us; both of them emanate from official sources, and singularly enough, both appeared but a few months ago, though the Reports to which they belong have reference to the year 1869. The first to which we would draw attention is entitled "ENTOMOLOGICAL CONTRIBUTIONS," by Mr. J. A. Lintner.* It contains a remarkably elaborate description of the metamorphoses and whole life history of the handsome but rare moth *Hemileuca Maia*, Drury, occupying nearly twenty pages, accompanied by a lithographed plate of egg, chrysalis and imago, and constituting an excellent monograph of the species. This is followed by interesting observations upon various stages in the life of the butterflies *Melitæa Phæton*, Fab., *M. Nycteis*, Doubl., and *Pieris Oleracca*, Harris. The author then describes, with illustrations, three new species of *Nisoniades*, named *Icelus*, *Lucilius* and *Ausonius*; and a new Sphinx, *Ellema pineum*, which will probably be found in Canada, if it be not already in some of our collections under the name of *E. Harrisii*—a closely allied species. A list of forty species of Sphingidæ, another of over a hundred butterflies, and calendars of butterflies and moths, complete the author's observations. To these he has appended a very useful list, with references to volume and page, of all the North American moths, some 600 in number, described in Guenee's *Species General des Lepidopteres*. The volume is concluded by a translation from the German of a paper by Dr. Speyer on *Cucullia intermedia*, Spey., and *C. lucifuga*, W. V., to which Mr. Lintner has prefixed some notes on the larvæ. We have given a full account of the contents of this volume in order that the student may know where to look for very valuable contributions to our

* *Entomological Contributions*, by J. A. Lintner. From the twenty-third Annual Report of the New York State Cabinet of Natural History. for the year 1869. 8vo., pp, 90,