

GUATEMALA, Polochic valley (*Hague*); COSTA RICA (*Van Patten*³).—EUROPE, Azores and Canary Islands; ASIA and Japan; AFRICA and Madagascar.

We have examples of the true *P. cardui* from Corosal, almost at the sea-level, in British Honduras, from the hot valley of the Polochic in Guatemala, and also from Costa Rica. It is one of the commonest butterflies throughout North America and Europe, and is also found in Asia and Africa. From all this area we have specimens which show scarcely any variation in their markings.

2. *Pyrameis kershawi*.

Cynthia kershawii, M'Coy, Ann. & Mag. N. H. ser. 4, i. p. 76¹.

P. cardui simillimus, sed posticis ocellis tribus angulum analem propioribus cæruleo-pupillatis.

Hab. COSTA RICA, Irazu (*Rogers*).—AUSTRALIA¹.

Mr. F. M'Coy separated the Australian form of *P. cardui* under the above name in consequence of all the specimens from that country having the pupils of the last three submarginal spots and two small spots at the anal angle of the posterior wings bright blue. In all other respects they agree with *P. cardui*. We have two examples, sent us by Mr. Rogers from Irazu in Costa Rica, which have precisely these markings, and are consequently undistinguishable from the Australian insect. Hence, if *P. kershawi* is to be admitted as a distinct species, it must be included in the Central-American fauna, though its occurrence at two such widely separated places seems to cast some doubt on the value of such slight specific characters; and this is of more weight, as in two or three specimens of *P. cardui* from North America we find slight but decided indications of these blue markings.

3. *Pyrameis huntera*.

Papilio huntera, Fabr. Syst. Ent. p. 499¹.

Pyrameis huntera, Strecker, Butt. N. Am. p. 138²; Dist. Proc. Ent. Soc. 1876, p. xiii³.

Pyrameis carye, Butl. & Druce, P. Z. S. 1874, p. 346⁴ (nec Hübner).

P. cardui similis, sed anticis macula ultra cellulam fulva nec alba plerumque distinguenda; ocellis duabus posticarum paginæ inferioris magnis quoque differt.

Hab. NORTH AMERICA, from Canada southwards².—MEXICO, Oaxaca (*Fenochio*); GUATEMALA, Dueñas, Los Altos and central valleys (*F. D. G. & O. S.*), San Gerónimo (*Champion*), Polochic valley (*Hague*); COSTA RICA (*Van Patten*⁴), Talamanca (*Gabb*)³ Volcan de Irazu and San Francisco (*Rogers*); PANAMA, Chiriqui (*Arcé, Champion*).—ANTILLES, Haiti and Jamaica; SOUTH AMERICA, Andes from Colombia to Bolivia, Argentine Republic; CANARY ISLANDS.

This species may readily be distinguished from *P. cardui* by its brighter colour on the underside, and in having two large ocelli on the posterior wings in place of the row of submarginal spots. It is an exceedingly common insect throughout the whole of America from Canada to the Argentine Republic.