

locus coeruleus. Degenerated fibers were fairly abundant in the mesencephalic root as far cephalad as the point of crossing of the IV-nerve root. A few of these sensory fibers apparently continue farther cephalad in the mesencephalic root to end in the V-mesencephalic root nucleus lateral to the central gray mass above the IV and III nuclei. Additional experiments are in progress to determine the distribution of the nerve fibers arising from the V-mesencephalic nucleus and the locus coeruleus.

CONCHOLOGY.—*The land mollusks of the genus Obba from the islands of Bohol and Panglao, P. I.*¹ PAUL BARTSCH, U. S. National Museum.

The United States National Museum has recently received a lot of shells belonging to the genus *Obba*, collected by Gilbert S. Perez on the islands of Bohol and Panglao, which made a revision of the group necessary. This has resulted in the recognition of a number of new forms, brief critical diagnosis of which are presented herewith. A fuller account and figures of these will be published in a monograph on the Philippine members of the genus, which is in preparation.

***Obba rota* Perezi, n. subsp.**

The present race differs from *Obba rota rota* Broderip, which is at home on the island of Siquijor, in being decidedly more elevated and in having the peripheral keel less upturned at the edge, and situated about half way between the base and summit, while in *Obba rota rota* it is at the anterior extremity of the upper third.

The type, Cat. No. 216983, U. S. N. M., comes from Bilar, Bohol, and measures: altitude, 10.2 mm.; greater diameter, 27.6 mm.; lesser diameter, 22 m.

***Obba rota panglaoensis*, n. subsp.**

This race is much smaller and darker than *Obba rota rota* Broderip. It is elevated like *Obba rota perezi* B. and has the keel similarly situated, but the sculpture is rougher in the present race.

The type, Cat. No. 216984, U. S. N. M., comes from Panglao Island, and measures: altitude, 9.7 mm.; greater diameter, 23.5 mm.; lesser diameter, 18.7 mm.

¹ Published by permission of the Secretary of the Smithsonian Institution.

***Obba moricandi hernandezensis*, n. subsp.**

The present race is more elevated and narrower than typical *Obba moricandi moricandi* Sowerby which comes from Jaena, Bohol. The pronounced characteristic color bands of the spire in the typical form are completely absent and only a faint narrow light-brown thread encircles the base. Our specimens come from Garcia Hernandez, Bohol.

The type, Cat. No. 216980, U. S. N. M., measures: altitude, 19.3 mm.; greater diameter, 33.2 mm.; lesser diameter, 25.2 mm.

***Obba scrobiculata valenciensis*, n. subsp.**

The rough axial sculpture, characteristic of *Obba scrobiculata scrobiculata* Pfeiffer, is reduced to a minimum, while the color bands on the upper surface of the typical form are merely indicated by obsolete lines in the present race. The upper surface is marked by broad, light and dark oblique axial zones, which lend it a watered-silk effect. A color band is present on the base.

The type, Cat. No. 216986, U. S. N. M., comes from Valencia, Bohol, and measures: altitude, 13 mm.; greater diameter, 29.3 mm.; lesser diameter, 23 mm.