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ZOOLOGY.—The Philippine Island landshells of the genus Platyraphe.¹ Paul Bartsch, U. S. National Museum.

Demands for identification of Philippine Island land mollusks have made it necessary to subject a number of groups to a thorough revision. Of these the genus *Platyraphe* seems to have been very poorly understood by writers in the past, and members belonging to this genus have been indiscriminately placed with *Platyraphe* or *Eucyclotus* and *Pseudocyclophorus*. It is not at all surprising that this should have been the case, for the true characters of the group seem to have so far been overlooked, and the superficial characters in many instances resemble characters presented by members of the other two genera.

Members of the genus *Platyraphe* can, however, always be distinguished by the possession of a slender tube in the angle of junction between the outer lip and the parietal wall, on the inside of the aperture; that is, on the inside of the posterior angle of the aperture. This tube begins a little behind the peristome where it is punctured and extends back for a variable distance in different species, terminating in a second puncture. It is evidently used as a breathing siphon when the animal is withdrawn and the shell sealed by the operculum.

Additional new material is arriving so frequently from unexplored regions of the Islands that it does not seem advisable at the present time to publish a monograph upon this group. I am, therefore, retaining the manuscript, which is being added to as the material arrives, and for the present offer a simple key, which it is believed will be of assistance to collectors in identifying their material.

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Key to the subgenera of Platyraphe

Strong spiral lirations at the end of the second whorl
not 8.
Strong spiral lirations at the end of the second whorl 10busuangensis
Strong spiral lirations at the end of the second
whorl not 10.
Strong spiral lirations at the end of the second
whorl 12balabakensis
Greater diameter less than 6 mm.
Strong spiral lirations at the end of the second
whorl 12ulugana
Strong spiral lirations at the end of the second
whorl not 12.
Strong spiral lirations at the end of the second whorl
9.
Greater diameter more than 5 mmleytensis
Greater diameter less than 5 mmguimarasensis
Spiral lirations not strongly developed on the last whorl.
Spiral lirations only feebly developed on the last whorl.
Strong spiral lirations at the end of the second whorl
16gradata
Strong spiral lirations at the end of the second whorl
not 16.
Strong spiral lirations at the end of the second
whorl 12toledoana
Strong spiral lirations at the end of the second whorl
not 12. Strong spiral lirations at the end of the second
whorl 8businensis
Strong spiral lirations at the end of the second
whorl not 8.
Strong spiral lirations at the end of the second
whorl 7negrosensis
Strong spiral lirations at the end of the second
whorl not 7.
Strong spiral lirations at the end of the second
whorl 6.
Spiral lirations on the umbilical wall of the
last whorl well markedmindanensis
Spiral lirations on the umbilical wall of the
last whorl obsoleteburiasensis
Spiral lirations not feebly developed on the last whorl.
Spiral lirations absent on the last whorl.
Incremental sculpture very strong.
Incremental sculpture consisting of rough riblike
elements and fine threads between themsurigaoana

Incremental sculpture consisting of rough riblike elements only.
Greater diameter more than 13 mm. Inner edge of opercular turns decidedly free, forming a strong lamellacebuensis Inner edge of opercular turns not decidedly
free nor forming a strong lamellaanacampta Greater diameter less than 11 mmsamarensis Incremental sculpture not very strongbalukensis
Last whorl not disjunct at the aperture in adult shells. Last whorl strongly spirally lirate.
Spiral lirations absent on the anterior third of the whorls.
Greater diameter more than 13 mmmucronata Greater diameter less than 13 mm.
Greater diameter more than 10 mm.
Shell finely spirally lirate
Shell coarsely spirally liratevincentensis
Greater diameter less than 8 mmpalauiensis Spiral lirations not absent on the anterior third of the whorl.
Shell planorboid.
Spiral sculpture present at the summit of the whorls.
Nepionic whorls dark. Greater diameter more than 10 mmlateplicata
Greater diameter hose than 10 mmstenostoma
Nepionic whorls lightsibuyanensis
Spiral sculpture absent at the summit of the whorls.
Shell not planorboid.
Spiral lirations feeble on the upper surface of the last
fourth turn.
Spire depressed.
Spiral lirations on the base of last whorl strong
Spiral lirations on the base of last whorl feeble
Spire not depressed but rather elevated.
Axial sculpture very coarsesaranganiensis
Axial sculpture not coarsepalmasensis
Spiral lirations not feeble on the upper surface of the last fourth turn.
Spiral lirations obsolete on the upper surface of the
last fourth turn.
Greater diameter more than 10 mm.
Strong spiral lirations on the next to the last
whorl 5pagbilaoensis
Strong spiral lirations on the next to the last whorl not 5.
moor not J.

Strong spiral lirations on the next to the last whorl 6
Spiral lirations at the end of the second turn not 7.
Spiral lirations at the end of the second
Operculum with the inner edge of the whorls not upturned to form a thickened lamellaPLATYRAPHELLA
Umbilicus almost closed. Strong riblike axial sculpture distantly spacedmalibagoana Strong riblike axial sculpture not distantly spacedglobula Umbilicus not almost closed.
Umbilicus narrow.
Greater diameter more than 12 mm.
Axial sculpture of base very roughplebeia Axial sculpture of base not very roughcamarinana
Greater diameter less than 10 mm
Umbilicus broad.
Spire well elevated. Greater diameter more than 12 mmexpansilabris Greater diameter less than 11 mm.
Peristome broadly expanded

TABLE I
ADDITIONAL DATA PERTAINING TO THE FORMS NAMED IN THE ABOVE KEY

Мате	No. whorls	Alti- tude	Greater diam- eter	Cat. No. U.S. N. M.	I,ocality	Remarks
Platyraphe (Platyraphina) catanduanensis new species	4.3	9.5	17.8	310532	Catanduanes	Type
(Platyraphina)	4	5.3	8.5	310531	Calayan	Type
Platyraphe (Platyraphina) mamillata Möllendorff	4.2	8.2	16.8	303094	Cagayan, Luzon	:
Platyraphe (Platyraphida) anthopoma Möllendorff	4.4	7.5	15.2	184801	Montalban, Luzon	:
Platyraphe (Platyraphida) anthopoma minor Möllen-						
dorff	4.3	5.9	13.0	184805	Sibul, Luzon	:
Platyraphe (Platyraphida) anthopoma montalbana						
	4.1	5.2	8.6	195710	Montalban, Luzon	Type
Platyraphe (Platyraphida) anthopoma media Möllen-						
dorff	:	:	:	:	Mt. Limutan, Luzon	:
Platyraphe (Platyraphe) coptoloma Möllendorff	4.1	6.3	0.01	201070	Magapig, Cagayan, Luzon	:
Platyraphe (Platyraphe) princessana new species	4.0	5.0	6.9	303099	Pto. Princesa, Palawan	Type
Platyraphe (Platyraphe) busuangensis new species	4.0	5.1	6.7	303089	Busuanga	Type
Platyraphe (Platyraphe) balabakensis new species	4.0	4.7	9.9	310533	Latangun, Balabac	Type
Platyraphe (Platyraphe) ulugana new species	4.2	3.8	5.9	310534	Ulugan, Palawan	Type
$\overline{}$	4.0	3.6	5.7	303095	Leyte	Type
(Platyraphe)	4.1	3.3	4.9	257535	Jordan River, Guimaras	Type
(Platyraphe)	4.4	5.3	7.0	310535	Coron Island	:
$\overline{}$	4.0	5.2	8.9	310536	Toledo, Cebu	Type
(Platyraphe)	4.0	4.5	6.7	258745	Busin Bay, Busin Id.	Type
(Platyraphe)	3.9	4.4	7.0	195774	Negros Id.	Type
(Platyraphe)	4.0	4.3	6.3	258738	Lianga Bay, Mindanao	Type
(Platyraphe)	4.2	4.9	7.0	258741	Pasqual, Burias	Type
(Platyraphe)	4.3	, c	13.2	310537	Gigaquit, Mindanao	Type
(Flatyraphe)	4.4	0.0	13.8	184809	Cepti	1 ype
(Flatyraphe)	4.3	ν. ο · ο	13.2	184790	Samar	: : : !
(Platyraphc)	4.5	 ×	10.3	258735	Catbalogan, Samar	Lype
_	4.4	6.2	0.01	25875I	Balukbaluk Island	Type
_	4.0	2.00	13.8	184808	_	: 1
Platyraphe (Platyraphe) inucronata cagayanica new	4.0	6.2	11.2	310538	San Vicente, Cagayan,	Type
		,		(Luzon	F
	4.1	6.7	11.2	239868	St. Vincente Island	Type
Platyraphe (Platyraphe) palauiensis new species platyraphe (Platyraphe) latenticate Mällandorff	4.0	0.0	7.4	257537	Falaui Island Tobloc Island	1 ype
- 1	5.4	1 2.2	12.1	303082	Lablas Islanu	

<u>.</u>
250/33 Cuntung Mrt., Lubang
3F
258755 Palmas Island
310541 Greater Pagbilao Id.
195708 Majayjay, Luzon
310542 Bulusan, Luzon
301100 Balanacan, Luzon
258748 Cataingan Bay, Masbate
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104741 Calamang
184806 Camarines, Luzon
257169 Santa Cruz River, Marin-
n han
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310544 Bacuit, Falawan 104752 Signifor