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ILLUSTRATIONS OF NEW UNIONIDÆ.

Plate I, figs. 1, 2, 5, *Unio superiorenensis* Marsh. For description see NAUTILUS for January, 1897, p. 103.

Figs. 3, 4, *Unio Askewi* Marsh. Description in NAUTILUS for December 1896, p. 91.

Figures are natural size. The specimens illustrated have been placed by Mr. Marsh in the Museum of the Academy of Natural Sciences of Philadelphia.

LIST OF SPECIES COLLECTED AT BAHIA, BRAZIL, BY DR. H. VON IHERING.

IDENTIFIED BY W. H. DALL.

The following species of shells were collected under the direction of Dr. H. von Ihering at Bahia, except when otherwise stated, and were forwarded to the National Museum for identification. This list includes only the doubtful species which could not be named with the literature available at the San Paulo Museum. Dr. von Ihering will eventually publish a complete list of the Brazilian coast fauna; meanwhile these identifications may be useful for reference. The remarkable thing about the collection, made 500 miles south of Cape San Roque and 2,200 miles beyond the mouth of the Amazon, is its typically Antillean character, resembling the fauna of the Bahamas. This indicates (if there be no uncertainty as to the

provenance of the specimens) that the present distribution of the coast fauna antedates the present volume of the Amazonian discharge, since it would seem incredible that so many thoroughly littoral species should be able to cross the present area of some hundreds of miles of fresh water in either direction. A few species marked with an asterisk are inserted on Dr. v. Ihering's authority.

<i>Melampus flavus</i> Gmel.	<i>Janthina communis</i> Lam.
<i>Bulla striata</i> Brug.	<i>Janthina exigua</i> , Bahia.
<i>Terebra cinerea</i> Born, San Paulo.	<i>Tritonium tritonis</i> var. <i>nobile</i>
<i>Conus verrucosus</i> Hwass.	Conr.
<i>Conus mus</i> Hwass.	<i>Tritonium femorale</i> L.
<i>Conus daucus</i> Hwass.	<i>Tritonium chlorostomum</i> Lam.
<i>Drillia albinodata</i> Reeve.	<i>Lambidium oniscus</i> L.
<i>Drillia albocincta</i> C. B. Ads.	<i>Ranella ponderosa</i> Reeve.
<i>Mangilia limonitella</i> Dall.	<i>Cassis tuberosa</i> .*
<i>Olivella jaspidea</i> Gmel.	<i>Dolium perdix</i> * L., replacing <i>D.</i>
<i>Olivella nivea</i> Gmel.	<i>galea</i> of San Paulo.
<i>Marginella bullata</i> .*	<i>Trivia suffusa</i> Gray.
<i>Marginella largillierti</i> .*	<i>Cypræa cinerea</i> Gmel.
<i>Volvarina fusca</i> Sby.	<i>Strombus pugilis</i> L., Bahia and
<i>Mitra nodulosa</i> Gmel.	southward.
<i>Turbinella ovoidea</i> Kien.*	<i>Strombus costatus</i> Gmel. (not
<i>Fasciolaria aurantiaca</i> Lam.*	south of Bahia, v. Ihr.).
<i>Leucozonia cingulifera</i> Lam.	<i>Strombus gallus</i> L. (not south of
<i>Pisania pusio</i> var. <i>janeirensis</i>	Bahia, v. Ihr.).
Orb.	<i>Cerithium literatum</i> Born.
<i>Tritonidea tinctoria</i> Conr. (!)	<i>Cerithium algicola</i> C. B. Ads. ?
<i>Nassa vibex</i> Say, Rio.	<i>Cerithium atratum</i> var. <i>vari-</i>
<i>Nassa ambigua</i> Mtg.	<i>abile</i> ? Ads.
<i>Anachis albella</i> C. B. Ads.	<i>Modulus modulus</i> L.
<i>Anachis catenata</i> Sby.	• <i>Siphonium nebulosum</i> Dillw.
<i>Nitidella nitidula</i> Sby.	<i>Vermicularia spirata</i> Phil.
<i>Columbella mercatoria</i> L.	<i>Petalconchus irregularis</i> Orb.
<i>Murex pomum</i> Gmel.*	<i>Crepidula plana</i> Say.
<i>Coralliophila galea</i> Ch.	<i>Amalthea antiquata</i> L.
<i>Sistrum nodulosum</i> C. B. Ads.	<i>Capulus incurvatus</i> Gmel.
<i>Purpura hæmastoma</i> Lam., typi-	<i>Polynices porcellana</i> Orb.
cal, Rio Grande do Sul.	<i>Polynices lactea</i> Gmel.
<i>Purpura hæmastoma</i> var. <i>trini-</i>	<i>Polynices caudidissima</i> Recl.,*
<i>tatensis</i> Guppy.	replacing the next.

- Polynices brunnea* Link., San Paulo.
Polynices rufilabris Rve.*
Natica canrena Lam.
Natica pusilla Say (!).
Natica sulcata Lam.
Acmaea onychina Gld.
Phasianella minuta Anton.
Uvanilla americana Gmel.
Astraliun tuber L.
Omphalius hotessierianus Orb.
Calliostoma jucundum Gld.
Calliostoma jujubinum Gmel.
Submarginula octoradiata Gmel.
Fissurella rosea Gmel.
Fissuridea alternata Say.
Plicatula ramosa Lam.
Spondylus spathuliferus var. *intermis*.
Pecten ornatus Lam.
Mytilus exustus Lam.
Botulina opifex Say.
Arca jamaicensis Gmel.
*Arca imbricata**.
Mactrella Iheringi n. sp.
- Arca auriculata**.
Arca candida Ch., San Paulo.
Lucina costata Conr. .
Chama congregata Conr.
Cardium laevigatum L.
Venus pectorina Lam. (also S. Paulo).
Venus cribraria Conr.
Venus circinata Born.
Venus subrostrata Lam. (beaui Recl.).
Cytherea varians Wood.
Dosinia concentrica Born, S. Paulo.
Lucinopsis tenuis Recl., S. Paulo.
Tagelus mollis Gould, Rio Grande do Sul.
Tagelus gibbus Spengl. (+ *plattensis* Orb.).
Macoma constricta Brug.
Mactrella Iheringi Dall, n. sp., San Paulo.
Semele reticulata Gmel.
Bouchardia rosea Mawe (Rio?).

Shell thin, white, inflated, with small and prominent beaks, externally with fine concentric, and a few irregular, radial lines, and a silky-yellowish epidermis, the beaks median, smooth, with an obsolete posterior keel, the lunular region widely and deeply impressed; hinge of the subgenus, the pallial sinus angular, reaching to the vertical of the beaks. Lon. 65.0; alt. 52.0; diam. 32.0 mm.

ISAAC LEA DEPARTMENT.

[Conducted in the interest of the Isaac Lea Conchological Chapter of the Agassiz Association by its General Secretary, Mrs. M. Burton Williamson.]

Volume 8 of the Transactions has begun its annual round of the Chapter members. It will be some time before every member has



Dall, William Healey. 1897. "List of species collected at Bahia, Brazil, by Dr. H. von Ihering." *The Nautilus* 10, 121–123.

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