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CATALOGUE OF THE TYPES AND FIGURED SPECIMENS
IN THE PALÆONTOLOGICAL COLLECTION OF THE
GEOLOGICAL DEPARTMENT, AMERICAN
MUSEUM OF NATURAL HISTORY.

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July 22, 1898.

P R E F A C E .

This Catalogue is intended to embrace all the type and figured specimens in the Palæontological Collection of the Geological Department of the American Museum of Natural History. The term 'type,' as employed herein, is applied to the specimens which have been used in the original description of a species, whether illustrated or not, and in the further elucidation of the species by the same author. A 'figured specimen' is one which has been identified with the name by a different author from the one who described the species, and which has been illustrated by him in the work to which reference is given. A 'generic type' may be a specific type also, or only a figured specimen. The Catalogue is one of individuals, and therefore does not pretend to give the bibliography of the species, but each entry gives the history of a particular specimen or set of specimens. In many instances there are other individuals in the type series than those which were figured, but these have not been entered separately.

In the tabulation the first column indicates the minor geological subdivision to which the specimen or set of specimens belongs; the second, the number which it bears in the Museum catalogue; the third, a statement as to whether the specimen is a type or only a figured specimen. The fourth column gives the generic and specific names with the author of each. In every instance the person whose name stands at the right hand side of this column is the author of the publication cited on the same line. In the case of the 'figured specimens' the name of the author of the species is placed in parenthesis. When a specimen stands under a different generic or specific name from the one under which it was first published, the original name is put in italics in its proper place in this column, and the revised name will be found in the

column of remarks. The complete history of the specimen or set of specimens will be found under the revised name. In some instances the name has been changed more than once, but such changes are noted only as far as they pertain to the particular specimen or set of specimens in question. A synonymous generic name is indicated in this column by italics. The next five columns contain the references to places of publication by name of work, volume or year of publication, page, plate and figure. If there is but one figure of a specimen cited, an abbreviated statement is inserted, when practicable and desirable, to show what view was used. All the references are grouped together in chronological order, except when the specific name has been changed. In case of such change, the first reference is to the place where the new name was first applied, after which the chronological order is followed, as elsewhere. No copied figures are noted. The tenth column gives localities and the eleventh contains remarks. In the last note is made of changes which have been made in the reference of the specimen to genus or species, and there is a brief statement as to the character of the specimen or specimens and their condition.

The order of arrangement is primarily stratigraphical, as far as the great geological subdivisions, Cambrian, Lower Silurian, etc., are concerned, but under these heads the arrangement is partly zoölogical and partly alphabetical. Plants are placed first, and then the animals are put in ascending order under subkingdoms and classes. Further classification has not usually been considered advisable, genera and species being arranged in strictly alphabetical sequence.

In Volumes I and II of the Palæontology of New York, the terms dorsal and ventral as applied to the valves of Brachiopods are used in the opposite sense from that now used. In this Catalogue the prevailing usage is followed.

ABBREVIATIONS.

AUTHORS' NAMES.

B. & S.....	Billings & Salter.
BILL	E. Billings.
BLAINV.....	H. M. D. de Blainville.
CON.....	T. A. Conrad.
D'A. & V.....	d'Archiac & de Verneuil.
DEFR.....	Defrance.
D'ORB .. .	Alcide d'Orbigny.
EDW	Milne-Edwards.
EICHW.....	E. von Eichwald.
FISCH.....	Fischer von Waldheim.
FR	F. Frech.
GOLDF.....	E. Goldfuss.
GRN.	J. Green.
H.....	James Hall.
H. & C.....	Hall & Clarke.
H. & S.....	Hall & Simpson.
H. & W.....	Hall & Whitfield.
LAM	J. P. B. A. de M. de Lamarck.
LAPW.....	C. Lapworth.
LINN	Linné.
M. & W.....	Meek & Worthen.
MILNE-EDW.....	Milne-Edwards.
NICH.....	H. Alleyne Nicholson.
RAF	C. S. Rafinesque.
ROEM.....	Ferd. Roemer.
SOW... ..	J. Sowerby.
VAN. or VANUX	Lardner Vanuxem.
VERN	E. de Verneuil.
W.....	R. P. Whitfield.
W. & S.....	Wachsmuth & Springer.
WAHL.....	Wahlenberg.
WHITF	R. P. Whitfield.

ABBREVIATIONS.

LIST OF WORKS CITED.

- A. M. N. H. Bulletin of the American Museum of Natural History. 8vo, New York. Begun in 1881.
- Agric. N. Y. Natural History of New York. Part V, Agriculture : by E. Emmons. Vol. I, 4to, Albany, 1846.
- Am. J. Sci. The American Journal of Science. 8vo, New Haven. 1818—. Up to 1880 the title was "The American Journal of Science and Arts."
- Am. P. F. The American Palæozoic Fossils; by S. A. Miller. 8vo, Cincinnati, 1877. 2d edition, 1883.
- Can. N. & G. The Canadian Naturalist and Geologist. 8vo, Montreal. Vol. I, 1856 ; 8, '63 ; 2d series, 1864—.
- Can. O. R. Figures and Descriptions of Canadian Organic Remains. 8vo, Montreal. Decade 2, 1865.
- Geol. N. Y. Annual Report of the New York Geographical Survey. (Legislative document.) 8vo, Albany. 5 vols., 1837-1841.
- Geol. N. Y. 1st D., etc.—Geology of New York. 4to, Albany. Geology of the First Geological District; by William Mather. 1843. Survey of the Second Geological District; by Ebenezer Emmons. 1842. Survey of the Third Geological District; by Lardner Vanuxem. 1842. Survey of the Fourth Geological District; by James Hall. 1843.
- Geol. Vt. Report on the Geology of Vermont. 2 vols. 4to, Claremont, N. H., 1861.
- Geol. Wis. New species of Fossils from the Niagara Group of Wisconsin. (From the Geological Report for 1859.) 8vo. A galley proof divided into pages, published at Albany in 1860.
Report of the Superintendent of the Geological Survey, Exhibiting the Progress of the Work. 8vo, Madison, 1861.
Report of the Geological Survey of the State of Wisconsin. Vol. I, 8vo (Albany), 1862.
Geological Survey of State of Wisconsin, 1859-1863, Palæontology. Part Third. 8vo, Albany, 1871. (A reprint of pp. 347-438 of the revised edition of the 20th Report, New York State Museum.)
Geology of Wisconsin. Survey of 1873-1879. Vol. 4, 8vo, Madison, 1882.
- J. A. N. S. Journal of the Academy of Natural Sciences of Philadelphia. 1st series, 8vo, 8 vols., 1817-1842.
- Lake Sup. Report on the Geology of the Lake Superior Land District; by J. W. Foster and J. D. Whitney. Part 2. The Iron Region, together with the General Geology. 8vo, Washington, 1851.

- Leth. Geog.....Lethæa Geognostica ; by Ferd. Römer. Revised edition in press.
- Mem. A. M. Memoirs of the American Museum of Natural History. 4to, New York. Vol. 1, part 1, 1893 ; part 2, 1895.
- M. Am. Tr.....A Monograph of the Trilobites of North America ; by Jacob Green. 16mo, Philadelphia, 1832.
- M. M. C. Z.....Memoirs of the Museum of Comparative Zoölogy at Harvard College. Vol. 20. The North American Crinoidea Camerata ; by Charles Wachsmuth and Frank Springer. 2 vols., with atlas of plates, 4to, Cambridge, 1897.
- N. Y. S. M.....Annual Report of the Regents of the University on the Condition of the State Cabinet of Natural History. 8vo, Albany. Beginning with 1848. There have been some minor changes in the title from time to time. The 20th Report was issued in the regular octavo form under date of 1867. A larger octavo edition of it with some changes and additions was issued with date of 1868, but with an enclosed slip stating that the date on the title page should have been 1870. Pages 347 to 438 of the revised edition with the corresponding plates were issued with independent pagination under date of 1871, with the title, Geological Survey of the State of Wisconsin, 1859-1863, Palæontology. Part Third. The later editions of this report have been cited only when they contain some change from the first edition. The 28th Report was issued in two editions : one consisting of plates without text, dated 1875, and known as the "Documentary Edition" ; and the other including the text, dated 1879, and known as the "State Museum Edition." The latter contained emendations of and additions to the original matter. The "State Museum Edition" is the one usually cited, the other being referred to only when it differs from that.
- P. A. N. S.....Proceedings of the Academy of Natural Sciences of Philadelphia. 8vo. Vol. 1, 1843.
- Pal. N. Y.....Palæontology of New York. 4to, Albany. 8 vols. in 14 parts, 1847-1894.
- Pal. Ohio.....Report of the Geological Survey of Ohio. Palæontology. 8vo, Columbus. Vol. 2, 1875.
- Pr. d. Pal.....Prodrome de Paléontologie stratigraphique universelle des animaux mollusques et rayonnés ; by Alcide d'Orbigny. 8vo, Paris. 3 vols. 1850-1852.
- Q. J. G. S.....Quarterly Journal of the Geological Society. 8vo, London. Begun in 1845.
- St. G. N. Y.....Annual Report of the State Geologist (of New York). 8vo and 4to, Albany. The first was that for 1881.
- U. S. G. S.....Bulletin of the United States Geological Survey. 8vo, Washington. Numbered parts have been issued at irregular intervals since 1883.

CATALOGUE OF TYPES AND FIGURED
SPECIMENS.

Cambrian.

Kingdom PLANTÆ.

Subkingdom

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
L. C. ?	200	Fig'd.	Buthotrephis Hall. <i>flexuosa</i> (<i>Emmons</i>) <i>Hall.</i>	Pal. N. Y.	I	263	69A	I
			Fucooides Brongniart. <i>duplex</i> .....					...
U. C.	355	Type.	Palæophycus Hall. <i>duplex</i> <i>Hall.</i>	Lake Sup.	2	226	A23	I

Kingdom ANIMALIA.

Subkingdom

U. C.	289	Gen. and Sp. Type.	Dendrograptus Hall. <i>Hallianus</i> <i>Prout.</i> <i>Hall.</i> " " " " " " Graptolithus Linn. <i>Hallianus</i> . G. (Dendrograptus) Hall. <i>Hallianus</i>	Am. J. Sci. Geol. Wis. N. Y. S. M. Can. O. R. N. Y. S. M.	II, II I 16 Dec. 2 20	189 21 124 127 177	p. 190	1c-f, 2 1a-c 1a-c 1a-c 10
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MOLLUSCOIDEA.

L. C.	208	Type.	Billingsella Hall. <i>orientalis</i> <i>Whitfield.</i> <i>pepina</i> <i>Hall.</i> " " " " " " Dicellomus Hall. <i>crassus</i> <i>politus</i>	A. M. N. H. N. Y. S. M. St. G. N. Y. Pal. N. Y.	I 16 2 8, pt. I	144 134 230	14 6 37 7	6 23-26 16-19 16-19 27
U. C.	²⁰⁰ ₂	Gen. and Sp. Type	" " " " <i>Hall.</i> Discina Lamarck. ? <i>inutilis</i> <i>Hall.</i> Discinella Hall.	N. Y. S. M.	16	134	6	11
U. C.	289a	Type.	 Lingula Bruguière. <i>ampla</i> (<i>Owen</i>) <i>Hall.</i> " " " " " " <i>antiqua</i> <i>aurora</i>	N. Y. S. M.	16	130	6	11
U. C.	²⁰⁰ ₂	Fig'd.	 <i>mosia</i> <i>Hall.</i> " " <i>pinniformis</i>	Geol. Wis. N. Y. S. M.	1861 I 16	24 21 125	Ct. 2 6 10	4, ext.? ..
U. C.	²⁰⁰ ₂ ²⁰⁰ ₁	Type.	 <i>polita</i>	N. Y. S. M.	16	126	6	1-3
			 <i>prima</i>				6	3a, ext.

CRYPTOGAMIA.

Class THALLOGENA.

LOCALITY.	REMARKS.
Greenwich, N. Y.	In slate. Referred to Hudson River group in the volume.
.....	See <i>Palaeophyscus</i> .
Pictured Rocks, L. Sup.	As <i>Fucoides</i> ? Slab bearing several stems. Not described.

COELENTERATA.

Class HYDROZOA.

.....	As type of <i>Graptolithus Hallianus</i> . " <i>G. (Dendrograptus)</i> . Made generic type.
Osceola Mills, Wis.	A large stipe with branchlets; fronds imbedded. Two blocks.
.....	See <i>Dendrograptus</i> . " "

Class BRACHIOPODA.

Georgia, Vt.	As <i>Orthisina</i> . Interior imprint of ventral valve. " <i>Orthis</i> . " <i>Orthis?</i> (<i>Orthisina?</i>)
3 miles above Reed's Landing, Minn.	Made generic type. Exterior imprint of a dorsal and a ventral valve and interior imprint of the two valves.
Kickapoo, Wis.	As <i>Orthis</i> . Interior imprint ventral valve. = <i>Obolella</i> . See " " " "
.....	Imprint in sandstone retaining some shell. See <i>Hyolithellus micans</i> .
.....	As type of <i>L. aurora</i> Hall. " " "
Mazomanie, Wis.	Ventral? valve, imbedded. See <i>Lingulepis pinniformis</i> . " <i>Lingula ampla</i> and <i>Lingulella aurora</i> . " <i>Lingulella Stoneana</i> . Two imprints and an imbedded individual retaining some shell. Imbedded individual retaining shell. See <i>Lingulepis</i> . " <i>Obolella</i> . " " and <i>Lingulepis pinniformis</i> .

MOLLUSCOIDEA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
U. C.	296	Fig'd.	Lingula Bruguière— <i>Cont.</i> <i>prima</i> (<i>Con.</i>). <i>Hall.</i>	Lake Sup.	2	204	23	1a
"	291	Type.	<i>winona</i> <i>Hall.</i>	N. Y. S. M.	16	126	6	9, ext.
"	292	"	Lingulella Salter. <i>aurora</i> <i>Hall.</i>	" "	16	126	6	4, 5
"	"	"	" <i>H. & C.</i>	Pal. N. Y.	8, pt. I	...	2	12, 13
L. C. ?	205	"	<i>cælata</i> <i>Hall.</i>	Pal. N. Y.	I	290	79	9a-c
U. C.	294	"	<i>Stoneana</i> <i>Whitfield.</i>	Geol. Wis.	4	344		
"	274	"	<i>Hall.</i>	N. Y. S. M.	16	127	6	6-8
"	295	Fig'd.	<i>H. & C.</i>	Pal. N. Y.	8, pt. I	...	2	9-11
"	"	"	Lingulepis <i>Hall.</i>	A. M. N. H.	I	141	14	1, 2, <i>enl.</i>
"	"	"	<i>minima</i> <i>Whitfield.</i>	Lake Sup.	2	204	23	1e, ext.
"	"	"	<i>pinniformis</i> (<i>Owen</i>). . . . <i>H.</i>	" "	2	204	23	2a, b
"	"	Gen. T.	" " " "	Geol. Wis.	I	21	Ct. 2	3, ext. v. v
"	"	"	" " " "	N. Y. S. M.	16	129	6	13, 14
L. C.	209	Type.	Obolella Billings. <i>crassa</i> <i>Hall.</i>	Pal. N. Y.	I	290	78	8a, ext.
"	"	"	" " " "	N. Y. S. M.	23	246	13	6, ext. X2
"	"	"	" " " "	Pal. N. Y.	8, pt. I	67	2	31, 32
"	"	"	" " " "	" "	I	292	80	3a, b.
U. C.	298	"	<i>polita</i> <i>Hall.</i>	" "	8, pt. I	67	2	33
"	276	Fig'd.	" " " "	Geol. Wis.	1861	24		
"	"	"	" " " "	" "	I	21	Ct. 2	1, ext.
"	"	"	" " " "	N. Y. S. M.	16	133	6	19-21
"	"	"	" " " "	Pal. N. Y.	8, pt. I	67	2	40, 41
"	"	"	<i>prima</i> (<i>Con.</i>). <i>Hall.</i>	" "	I	3	I	2, ext.
"	"	"	<i>Whitfield.</i>	A. M. N. H.	I	142	14	3-5
"	"	"	Orthis Dalman. <i>pepina</i>					
"	"	"	Orthisina d'Orbigny. <i>orientalis</i>					

Subkingdom MOLLUSCA.

		Avicula Klein. ? <i>desquamata</i>					
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Class GASTROPODA.

U. C.	304	Type.	Euomphalus Sowerby. ? <i>vaticinus</i> <i>Hall.</i>	N. Y. S. M.	16	136	6	29, top.
"	305	"	Maclurea Le Sueur. <i>Wadsworthi</i> . . . <i>Whitfield.</i>	A. M. N. H.	I	153	14	16, base.
"	"	"	Metoptoma Phillips. <i>rugosa</i>					
U. C.	303	Type.	Platyceras Conrad. <i>primordiale</i> <i>Hall.</i>	N. Y. S. M.	16	136	6	28, side.

Class BRACHIOPODA—Continued.

LOCALITY.	REMARKS.
Tequamenon Bay, L. Sup. Lansing, Ia.	Exfoliated valve, imbedded. Is the original of figure and description and is a linguloid shell. Valve, imbedded.
Mazomanie, Wis.	As <i>Lingula</i> . Two valves almost in opposition, and a ventral? valve. Imprints.
" "	Two imprints showing dors. valve and card. area. Degree of enlargement incorrectly stated in explanation of plate ($\times 2$).
Troy, N. Y.	As <i>Orbicula</i> . Referred to Hudson River group in volume.
..... Mazomanie, Wis.	As <i>Lingula aurora</i> , var., Hall. Ext. impr. of one valve and int. impr. of the other on same block.
Near Keeseville, N.Y. St. Croix Falls, Minn.	A dorsal and a ventral valve, imbedded. From Au Sable Chasm. As <i>Lingula prima</i> Con. Dorsal valve, imbedded.
" "	" <i>antiqua</i> Emmons. Two ventral valves, imbedded.
..... St. Croix Falls, Minn.	" " Made generic type. Two opposite valves, imbedded.
.....	As <i>Orbicula</i> ? and referred to Hudson River group.
Troy, N. Y.	" <i>Dicellomus</i> . Exfoliated valve, imbedded.
..... Troy, N. Y.	As type of <i>Avicula</i> ? <i>desquamata</i> and referred to Hudson Riv. grp. Very perfect valve, imbedded.
.....	As <i>Lingula</i> . " " " <i>Obolella</i> ?
..... Trempealeau, Wis.	Three separated valves, imbedded, and an imprint of interior of ventral valve. This species was made the type of <i>Dicellomus</i> Hall, 23d rept. N. Y. S. M., p. 246. As <i>Lingula</i> .
..... Au Sable Chasm, N.Y.	A group and a very perfect single individual, imbedded.
.....	See <i>Billingssella</i> .
.....	" "

Class LAMELLIBRANCHIATA.

.....	See <i>Obolella crassa</i> .
La Grange Mt., Minn.	Cast in sandstone.
Mazomanie, Wis.	Cast showing flat side, and matrix.
.....	See <i>Stenotheca</i> .
Trempealeau, Wis.	Internal? cast, imbedded.

Class PTEROPODA.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
L. C.	213		Hyolithellus Billings. <i>micanus</i> (<i>Bill.</i>) <i>Hall.</i>	N. Y. S. M.	23	246	.....	.....
U. C.	307	Type.	<i>Murchisoni</i> <i>Hall.</i> " " <i>Hall.</i>	Geol. Wis.	1861	48	.....	.....
L. C.	215	Fig'd.	Hyolithes Eichwald. <i>americanus</i> (<i>Bill.</i>) .. <i>Hall.</i>	Pal. N. Y.	1	313	87	1a, c
U. C.	206	Type.	<i>primordialis</i> <i>Hall.</i> " " <i>Hall.</i>	Geol. Wis.	1861	48	.....	.....
L. C.	212	"	Stenotheca Salter. <i>rugosa</i> <i>Hall.</i>	N. Y. S. M.	16	135*	6	32, side.
			<i>Theca</i> Sowerby <i>primordialis</i> ? <i>triangularis</i>	Pal. N. Y.	1	306	83	6a, c

Subkingdom VERMES.

			Serpulites Murchison. <i>Murchisoni</i>
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WORM-BURROWS.

L. C.	278 278 278 278	Type.	Scolithus Haldeman. <i>linearis</i> <i>Hall.</i> " " <i>Hall.</i>	Pal. N. Y.	I	2	I	1a 1c
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Subkingdom ARTHROPODA.

Class

L. C.	289 289	Type.	Nothozoe Barrande. <i>vermontana</i> ... <i>Whitfield</i> .	A. M. N. H.	I	144	14	14, 15
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Order TRILOBITA.

U. C.	310 311	Type.	Agnostus Brongniart. <i>disparilis</i> <i>Hall.</i> <i>josephia</i> <i>Hall.</i>	N. Y. S. M.	16	179	10	25-27
U. C.	309	Type.	<i>lobatus</i> <i>parilis</i> <i>Hall.</i>	" "	16	179	10	23, 24
"	349	"	Amphion Pander. ? <i>matutinus</i> <i>Hall.</i>	" "	16	222	5a 6, glab. x 4	
U. C.	337	Fig'd.	Angelina Salter. <i>Hitchcocki</i>	" "	16	169	7	50, 51
M. C.	272	Type.	Arionellus Barrande. <i>bipunctatus</i> (<i>Shumard</i>) <i>H.</i>	" "	1	147	14	8, glab. enl.
			<i>quadrangularis</i> <i>Whitfield</i> .	A. M. N. H.				
			Atops Emmons. <i>trilineata</i> .....	.....	.....	.....	.....	.....

LOCALITY.	REMARKS.
Troy, N. Y.	As gen. type of <i>Discinella</i> , but the two specimens here referred to are opercula of the pteropod. Quebec group in the description. As <i>Serpulites</i> .
La Grange Mt., Minn.	" " Cast, imbedded.
Troy, N. Y.	As type of <i>Theca? triangularis</i> H. Hud. Riv. group in description. As <i>Theca</i> .
Trempealeau, Wis.	" " An exterior imprint and an internal cast, imbedded. Two other spec. were used to complete the details of the figures. As <i>Metoptoma?</i> Almost entire, imb. Hud. R. group in the descr.
Troy, N. Y.	See <i>Hyolithes</i> . " " " " <i>americanus</i> .

Class ANNELIDA.

.....	See <i>Hyolithellus</i> .
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Susquehanna Riv., Pa. Adams, Mass.	The casts of several long tubes in quartzite. Several casts in quartzite. (Probably of vegetable origin.)
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CRUSTACEA.

Order OSTRACODA.

Highgate, Vt.	Group of casts in quartzite.
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Osceola Mills, Minn. Trempealeau, Wis.	Imprint of under side of a head and two pygidia. ¹ Cast of head and of pygid. First fig. completed fr. two other spec.
L. Pepin, Minn.	See <i>Microdiscus</i> . Cast of a glabella and of a pygidium.
Trempealeau, Wis.	Imprint under side glabella and part of fixed cheeks.
.....	See <i>Protopyrus</i> .
Mth. Root Riv., Minn. Braintree, Mass.	Interior imprint of a glabella and of a right movable cheek. Second locality is incorrect in the explanation of plate. Glabella and fixed cheeks imbedded in slate.
.....	= <i>Ptychoparia</i> . See "

¹ Many of the blocks from the Upp. Camb. (Potsdam) of Wis., Minn., Iowa and Ill. bear several types and figured specimens each.

Order TRILOBITA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			Barrandia Hall.					
			<i>Thompsoni</i>					
			<i>vermontana</i>					
L. C.	<u>288</u> <u>1</u>	Gen. and Sp. Type.	Bathynotus Hall. <i>holopyga</i> <i>Hall</i> .	N. Y. S. M.	12	62	...	3
			" "	Pal. N. Y.	3	529	...	1
			" "	N. Y. S. M.	13	118	...	1
			" "	Geol. Vt.	1 and 2	371	13	3
			Calymene Brongniart. <i>Becki</i>					
U. C.	339	Gen. and Sp. Type.	Chariocephalus Hall. <i>Whitfieldi</i> <i>Hall</i> .	N. Y. S. M.	16	175	6	49-53
"	"	Fig'd.	" "	" "	16	171	6	47
"	<u>324</u>	Type.	Conaspis Hall. <i>eos</i> <i>Hall</i> .	" "	16	152	7	24, 25
			<i>Conocephalites</i> Zeinker. <i>anatinus</i>					
			<i>binodosus</i>					
			<i>diadematus</i>					
			<i>eos</i>					
			<i>eryon</i>					
			<i>hamulus</i>					
			<i>iowensis</i>					
			<i>minor</i>					
			<i>minutus</i>					
			<i>nactus</i>					
			<i>nasutus</i>					
			<i>optatus</i>					
			<i>Oweni</i>					
			<i>Patersoni</i>					
			<i>perseus</i>					
			<i>Shumardi</i>					
			<i>verrucosus</i>					
			<i>wisconsensis</i>					
U. C.	<u>322</u>	Type.	Conocoryphe Corda. <i>optata</i> <i>Hall</i> .	N. Y. S. M.	16	222	5a	7
"	<u>821</u> <u>1</u>	Fig'd.	Crepicephalus Owen. <i>iowensis</i> (<i>Owen</i>) . . . <i>Hall</i> .	" "	16	162	7	29, 32, 33
"	<u>821</u> <u>2</u>	"	" " "	" "	16	162	8	10-12
"	<u>816</u> <u>1</u>	"	" " "	" "	16	162	7	31
"	<u>816</u> <u>2</u>	"	" " "	" "	16	164	8	30
			" " "	" "	16	164	7	39, 41
			" " "	" "	16	164	8	22-24, 27, 28
			" " "	" "	16	164	7	42
			Dikelocephalus Owen. <i>crassimarginatus</i> . . . <i>Whitf.</i>	Geol. Wis.	4	344	...	
			<i>Hall</i> .	N. Y. S. M.	16	...	II	2
L. C.	236	"	? <i>Marcouii</i> . . . <i>Whitfield</i> .	A. M. N. H.	1	150	14	7
U. C.	<u>844</u> <u>2</u>	Fig'd.	<i>minnesotensis</i> (<i>Owen</i>) <i>H</i> .	N. Y. S. M.	16	138	9	5

LOCALITY.	REMARKS.
.....	See <i>Olenellus</i> . " " " " "
.....	As <i>Peltura</i> (<i>Olenus</i>). " " "
Georgia, Vt.	Generic type of <i>Bathynotus</i> . Hud. Riv. grp. in all above descriptions. A nearly perfect exterior imprint. An unfigured imprint of thorax and pygidium is in the type series. See <i>Ptychoparia trilineata</i> .
Trempealeau, Wis. " "	Internal casts of two glabellas and two opposite detached free cheeks. Material used in making fig. 20 of pl. 10. As <i>Ptychaspis miniscensis</i> , but is probably of this species. Imprint of left half of a thoracic segment.
Loose at Trempealeau, Wis.	As <i>Conocephalites</i> . Interior imprint of a glabella with fixed cheeks and the right half of a thoracic segment.
.....	See <i>Ptychoparia</i> . " " " " " <i>Conaspis</i> . " <i>Ptychoparia</i> . " <i>Lonchocephalus</i> . " <i>Crepicephalus</i> . " <i>Ptychoparia</i> . " " " " " " " <i>Conocoryphe</i> . " <i>Ptychoparia</i> . " " " " " " " " " <i>Crepicephalus</i> .
Trempealeau, Wis.	As <i>Conocephalites</i> . Figure combined from two imprints of under side of glabella.
Trempealeau, Wis. In Wis. opp. mouth of Root River, Minn.	As <i>Conocephalites</i> . Imprints of the parts represented, six specimens. Locality incorrectly given for fig. 33, pl. 7, in the description.
Trempealeau, Wis. 3 miles above Reed's Landing, Minn.	As <i>Conocephalites</i> . Interior imprint of glabella and fixed cheeks. " " " " Int. impr. of the parts represented; 5 specimens.
La Grange Mt., Minn. Georgia, Vt. Mazomanie, Wis.	As <i>D. pepinensis</i> Owen? Interior imprint left movable cheek. Exterior imprint of a fragmentary pygidium. Imprint of under side of glabella and fixed cheeks. Frontal limb has been uncovered since figure was made.

Order TRILOBITA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
U. C.	344 844	Fig'd.	Dikelocephalus Owen—Cont.	N. Y. S. M.	16	138	9	5 (pt.)
"	844	"	minnesotensis (Owen) H.	Geol. Wis.	I	22	...	2
"	844	"	" "	N. Y. S. M.	16	138	9	6
"	844	"	" "	Geol. Wis.	I	22	...	5
"	844	"	" "	N. Y. S. M.	16	138	9	8
"	844	"	" "	"	16	138	9	9
"	844	"	" "	"	16	138	9	10
"	844	"	" var. "	"	16	141	9	II
"	844	"	" var. "	"	16	141	10	9
"	844	"	" "	"	16	138	10	10
"	844	"	" "	"	16	138	10	10
"	844	"	" "	"	16	138	10	12
"	844	"	" "	"	16	138	II	1
"	844	"	" "	"	16	138	II	3
"	844	"	" "	"	16	138	II	4
"	846	Type.	" var. limbatus Hall.	"	16	141	9	12
"	846	"	misa.....Hall.	"	16	144	8	15
"	342	"	osceola.....Hall.	"	16	146	10	18, 19
"	846	Fig'd.	pepinensis (Owen) ..Hall.	Geol. Wis.	I	22	Ct. 3	4
"	846	"	"	N. Y. S. M.	16	142	9	I-4
"	341	Type.	spiniger.....Hall.	"	16	143	10	I, 2
"	342	Fig'd.	sp. ?Hall.	"	16	146	7	49
"	"	"	"	"	16	...	10	3
"	330	Gen. and Sp. Type.	Illænurus Hall.					
"	330		quadratus.....Hall.	"	16	176	7	52-57
"	846	Fig'd.	Lonchocephalus Owen.					
"	846		hamulus (Owen).....Hall.	"	16	166	7	43
"	846	"	" "	"	16	166	8	25, 26
"	846	"	" "	"	16	166	7	44
"	846	"	" "	"	16	166	II	5, 6
U. C.	312	Type.	Mesonacis Walcott.....					
L. C.	219	"	Microdiscus Emmons.					
"	222	Gen. and Sp. Type.	? bullatus.....Hall.	N. Y. S. M.	16	221	5a	3-5
"	222	"	lobatus.....Hall.	Pal. N. Y.	I	258	67	5a-f
"	222		Olenellus Hall.					
"	222		Thompsoni.....Hall.	N. Y. S. M.	12	59	p. 60	I
"	222		"	Pal. N. Y.	3	525	p. 526	I
"	222		"	N. Y. S. M.	15	114	...	...
"	222	"	"	"	13	116	...	I (pt.)
"	222		"	Geol. Vt.	I and 2	369	13	I "
"	222		"	N. Y. S. M.	15	114	...	...
"	222		"	A. M. N. H.	I	151	15	I
"	222	Fig'd.	" (Hall) Whitfield.	N. Y. S. M.	12	60	...	2
"	222	Type.	vermontanus.....Hall.	Pal. N. Y.	3	527	...	I
"	222		"	N. Y. S. M.	13	117	...	I
"	222		"	Geol. Vt.	I and 2	370	13	2
"	222		(Hall) Walcott.	Am. J. Sci.	III, 29	328	...	...
"	"	Fig'd.	" (Hall) Whitfield.	A. M. N. H.	I	152	15	2-4

LOCALITY.	REMARKS.
Mazomanie, Wis.	Imprint of glabella used in completing frontal limb of figure.
La Grange Mt., Minn. Madison, Wis.	Imprint of upper side of a small pygidium. Cast of a large pygidium from a loose block.
La Grange Mt., Minn. " " " " " " Stillwater, Minn. "	Imprint of upper side of right half of a thoracic segment. " inside of a small hypostoma, not perfect. " " larger " " " glabella, frontal limb and left fixed cheek. " " and fixed cheeks, nearly perfect. glabella and fixed cheeks used in making figure. left half of a thoracic segment.
La Grange Mt., Minn. Mazomanie, Wis.	" outside of a very large hypostoma, not perfect.
La Grange Mt., Minn. Mazomanie, Wis.	" under side of a right movable cheek.
La Grange Mt., Minn.	" upper side of a large pygidium.
Trempealeau, Wis. Osceola Mills, Wis.	" part of under side of glabella and right fixed cheek.
La Grange Mt., Minn.	Four int. and two ext. imprints of the parts represented in the figs. Interior imprint of a small glabella and exterior imprint right movable cheek. Slab has been split since figures were made.
Trempealeau, Wis. Osceola Mills, Wis. Three mi. above Reed's Landing, Minn.	The figures were made from internal imprints of the parts represented. Eight specimens. Fig. 14, pl. 10 is a restoration based on figs. 1 and 3, pl. 9. See also <i>D. crassimarginatus</i> . Interior imprint of a glabella and a pygidium on same block. Imprint of upper side of pygidium. Possibly = <i>D. osceola</i> .
Osceola Mills, Wis.	Imprint of under side of right movable cheek and spine.
Miniska, Minn. Trempealeau, Wis. " "	Imprint of the under sides of parts represented. Six specimens.
Trempealeau, Wis.	As <i>Conocephalites</i> . Interior imprint of glabella and fixed cheeks. " " Imprint of spine, belonging to this species? Impr. of 2 spines. Of this species? Distal extremity in fig. 6 restored. See <i>Olenellus</i> .
Troy, N. Y.	As generic type of <i>Pemphigaspis</i> . A detached cast of interior. An unfigured type is in the series.
Georgia, Vt.	As <i>Agnostus</i> . The specimen indicated by Prof. Hall as being the type. Hudson River group in description,
Georgia, Vt. " "	As <i>Olenus</i> and referred to Hudson River group.
Georgia, Vt.	Made gen. type of <i>Olenellus</i> . Impr. of large indiv. Impr. of pygidial and left cheek spines can be disting. but were not repr. in the fig.
Georgia, Vt.	As generic type of <i>Barrandia</i> and referred to Hudson River group.
Georgia, Vt.	Made gen. type of <i>Olenellus</i> . Impr. of pygid. thor. and pt. mov. ch'ks. A large, almost perfect individual, in slate.
Georgia, Vt.	As <i>Olenus</i> and referred to Hudson River group.
Georgia, Vt.	As <i>Barrandia</i> .
Georgia, Vt.	" " and referred to Quebec group.
Georgia, Vt.	Made generic type of <i>Mesonacis</i> Walcott. Head and six thoracic segments imbedded in slate.
Georgia, Vt.	Two individuals and the imprint of a cephalic shield.

Order TRILOBITA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	Work.	REFERENCE.			
					Vol.	P.	Pl.	Figs.
			<i>Olenus</i> Dalman.					
			<i>Thompsoni</i>					
			<i>undulostriatus</i>					
			<i>vermontanus</i>					
			<i>Peltura</i> Milne-Edw.					
			<i>holopyga</i>					
			<i>Pemphigaspis</i> Hall.					
			<i>bullata</i>					
L. C.	232	Gen. and Sp. Type.	<i>Prototypus</i> Walcott.					
			<i>Hitchcocki</i> <i>Whitfield</i> .	A. M. N. H.	I	148	14	13, enl. x 2
			<i>Walcott</i> .	U. S. G. S.	Bul. 30	211	.....	.....
U. C.	331	Fig'd Sp. and G. T.	<i>Ptychaspis</i> Hall.					
			<i>granulosa</i>	N. Y. S. M.	16	171	6	41-46
			<i>miniscensis</i> (<i>Owen</i>) <i>Hall</i> .					
"	332	Type.	<i>striata</i> <i>Whitfield</i> .	Geol. Wis.	4	186		
"	332	"	<i>Hall</i> .	N. Y. S. M.	16	173	6	33-39
"	333	"	" (<i>Whitfield</i>) "	" "	16	173	6	40
"	334	Fig'd.	" " "	" "	16	173	8	13
"			sp.?..... <i>Hall</i> .	" "	16	174	6	48, enl. x 3
"	329	Type.	<i>Ptychoparia</i> Corda.					
			<i>anatina</i> <i>Hall</i> .	" "	16	158	7	34, 35
"	329	"	" " "	" "	16	158	8	29
"	323	"	<i>binodosa</i> <i>Hall</i> .	" "	16	160	7	47, 48
"	314	"	<i>diademata</i> <i>Hall</i> .	" "	16	167	7	36, 38a
"	314	"	" " "	" "	16	167	7	37, 38
"	327	"	" " "	" "	16	167	8	18, 21
"	327	"	<i>eryon</i> <i>Hall</i> .	" "	16	157	7	10-12, 16
"	327	"	" " "	" "	16	157	8	16
"	320	Fig'd.	" " "	" "	16	157	7	13-15
"	279	"	<i>minor</i> (<i>Shumard</i>) .. <i>Hall</i> .	" "	16	149	8	1-4
"	317	Type.	<i>minuta</i> (<i>Bradley</i>) .. <i>Hall</i> .	" "	16	150	8	5, 6
"	313	"	<i>nacta</i> <i>Hall</i> .	" "	16	200	7	58
"	318	"	<i>nasuta</i> <i>Hall</i> .	" "	16	155	7	3-9
"	318	"	<i>Oweni</i> <i>Hall</i> .	" "	16	155	8	17, 20
"	328	"	<i>Patersoni</i> <i>Hall</i> .	" "	16	159	7	45, 46
"	319	"	<i>perseus</i> <i>Hall</i> .	" "	16	153	7	17
"	319	"	" " "	" "	16	153	8	33
"	326	"	" " "	" "	16	153	7	18-20
"	326	"	" " "	" "	16	153	7	21-23
L. C.	235	"	<i>Shumardi</i> <i>Hall</i> .	" "	16	154	7	1, 2
			" " "	" "	16	154	8	32
"	326	"	" " "	" "	16	154	8	19
L. C.	235	"	<i>trilineata</i> <i>Emmons</i> .	Agric. N. Y.	I	64	Fig. 8	No. I
			<i>Hall</i> .	Pal. N. Y.	I	252	67	4a
			<i>Walcott</i> .	U. S. G. S.	Bul. 30	203	27	I
U. C.	280	"	<i>verrucosa</i> <i>Whitfield</i> .	A. M. N. H.	I	146	14	9-12

LOCALITY.	REMARKS.
.....	See <i>Olenellus</i> . " <i>Bathyurus</i> . " <i>Olenellus</i> .
.....	" <i>Bathynotus</i> . Probably = <i>Microdiscus</i> . See <i>Microdiscus</i> .
..... Georgia, Vt.	As <i>Angelina</i> . Very perfect individual, compressed, imbedded. Made generic type of <i>Prototypus</i> .
..... Trempealeau, Wis.	See <i>P. striata</i> . Imprint of the parts represented. Figs. 41 and 46 are partly restorations. Five specimens. See also <i>Chariocephalus Whitfieldi</i> .
" " In Minn. opp. mouth Chippewa Riv., Wis.	As <i>P. granulosa</i> Owen. Impr. of the parts represented. Five spec. As <i>P. granulosa</i> Owen. Imprint of under side of left half of a large pygidium.
..... Trempealeau, Wis.	As <i>P. granulosa</i> Owen. Imprint of upper side of pygidium. " " " " head.
3 miles above Reed's Landing, Minn. Trempealeau, Wis. Osceola Mills, Wis. Marine Mills, Wis. Mth. Root Riv., Minn. Marine Mills, Wis.	As <i>Conocephalites</i> . Imprint under side of somewhat imperfect glabella and of a right movable cheek. As <i>Conocephalites</i> . Imprint under side of glabella, nearly perfect. " " ? Imprint of a pygidium and a right mov. cheek. " " Impr. of glabella and cast of doublure of glab. " " " " and of right movable cheek. " " Int. impr. of a glab. and a pyg. ref. to this species. " " Interior imprints of the parts represented.
Trempealeau, Wis. 10 miles east of La Crosse, Wis.	Four specimens. As <i>Conocephalites</i> . Imprints of under side of parts of three thoracic segments and of a glabella, etc.
Trempealeau, Wis. Au Sable Chasm, N. Y. Mth. Black River, Wis. Kickapoo, Wis.	As <i>Conocephalites</i> . Impr. of 4 glab., a left mov. cheek and a pygidium. " " Glabella, imbedded. Spine restored. " " Interior imprint glabella without fixed cheeks. " " Interior imprint of the parts represented, except figs. 4 and 8, which are from exterior imprints. Seven specimens.
Marine Mills, Minn.	As <i>Conocephalites</i> . Interior imprints of a glabella and of a right movable cheek; not on same block.
3 miles above Reed's Landing, Minn.	As <i>Conocephalites</i> . The first is from an interior, the second from an exterior imprint.
Kickapoo, Wis. In Minn. opp. mouth Chippewa Riv., Wis. Mth. Root Riv., Minn.	As <i>Conocephalites</i> . Interior imprint glabella and fixed cheeks. " " " " " and of detached right movable cheek. Locality incorrect in description.
..... Kickapoo, Wis. Marine Mills, Minn.	As <i>Conocephalites</i> . Imprints of the parts represented. Three spec. " " Interior imprints of a glabella with fixed cheeks, a pygidium and a very large imperfect glabella.
No. Bald Mt., Washington Co., N. Y. Au Sable Chasm, N. Y.	As <i>Conocephalites</i> . Interior imprint left movable cheek. As generic type of <i>Atops</i> . " <i>Calymene Becki</i> Green. Exterior imprint of head and three thoracic segments. As <i>Conocephalites</i> . Two glabellas with their fixed cheeks, an imperfect left movable cheek and two pygidia.

Order TRILOBITA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
U. C.	850 1	Gen. and Sp. Type.	<i>Triarthrella</i> Hall. <i>auroralis</i> <i>Hall.</i>	N. Y. S. M.	16	177	9	13
			<i>Triarthrus</i> Green. s. g. <i>Triarthrella</i> .. Hall. <i>auroralis</i>					
U. C.	348	Fig'd.	Genus? sp.? <i>Hall.</i>	N. Y. S. M.	16	....	8	14

Order MEROSTOMATA.

U. C.	851 1	Gen. and Sp. Type.	<i>Aglaspis</i> Hall. <i>Barrandii</i> <i>Hall.</i>	Can. N. & G. N. Y. S. M.	7 16 16	445 181 181	.... II II	I 7, 10 8, 9, 11-14, 16
"	"	"	" "	" "				
"	851 2	"	" "	" "	16	181	II	15

Lower Silurian.

Kingdom PLANTÆ.

Subkingdom

Tr.	866	Gen. and Sp. Type.	<i>Buthograptus</i> Hall. <i>laxus</i> <i>Hall.</i> <i>Whitfield.</i> "	Geol. Wis. A. M. N. H. Mem. A. M.	1861 6 I	19 351 40	II II 4	I-3 I-3
H. R. Tr.	1114 626 3	Type.	<i>Buthotrephis</i> Hall. <i>subnodosa</i> <i>Hall.</i> <i>succulens</i> "	Pal. N. Y.	I " 62	262 68 22	68 3a, b 2a	
"	865	Gen. and Sp. Type.	<i>Callithamnopsis</i> Whitfield. <i>fruticosa</i> <i>Hall.</i> <i>Whitfield.</i> "	Can. O. R. A. M. N. H. Mem. A. M.	Dec. 2 6 I	50 354 42	.... II 4	4-8 4-8
"	858	"	<i>Chætocladus</i> Whitfield. <i>plumula</i> <i>Whitfield.</i> "	A. M. N. H. Mem. A. M.	6 I	356	II 4	II-13 II-13
"	4494	Type.	<i>Chætomorpha</i> Kützing. ? <i>prima</i> <i>Whitfield.</i> "	A. M. N. H. Mem. A. M.	6 I	355	II 4	9, 10 9, 10
Be. "	623 624	" Fig'd.	<i>Palæophycus</i> Hall. <i>simplex</i> <i>Hall.</i> sp. "	Pal. N. Y.	I " 21	63 22 21	22 3 3	1a-c 3
"	570 579 8	Type. Gen. and Sp. Type.	<i>Phytopsis</i> Hall. <i>cellulosa</i> <i>Hall.</i> <i>tubulosa</i> <i>Hall.</i>	" "	I " 38	39 8	9 8	I, 1a, b, d I
Tr.	635	"	<i>Premicorallina</i> Whitfield. <i>trentonensis</i> ... <i>Whitfield.</i> "	A. M. N. H. Mem. A. M.	6 I	357	II 4	14-17 14-17
H. R.	1112	Type.	<i>Sphenothallus</i> Hall. <i>latifolius</i> <i>Hall.</i>	Pal. N. Y.	I	262	68	2d

LOCALITY.	REMARKS.
La Grange Mt., Minn.	As <i>Triarthrus</i> ? subgenus <i>Triarthrella</i> . Interior imprint glabella.
.....	See <i>Triarthrella</i> .
Trempealeau, Wis.	Imprint of the under side of a pygidium.

Mazomanie, Wis. " "	About three-fourths of a large carapace, imbedded. Imprints of the parts represented. Seven specimens. Fig. 9 was made from the imprint of the upper side of a carapace.
Miniska, Minn.	Imprint of a caudal? spine.

CRYPTOGAMIA.

Class THALLOGENA.

Platteville, Wis.	Several stipes on one block.
Turin, N. Y. Glens Falls, N. Y.	Imperfect imprint of two fragments. Portion of a large individual, scarcely compressed.
.....	As <i>Oldhamia</i> ?
Platteville, Wis.	Five fragments of stipes imbedded in two blocks.
" "	A considerable fragment of frond, imbedded.
" "	Two specimens on the same block. These were a part of the types of <i>Oldhamia</i> ? <i>fruticosa</i> Hall.
Middleville, N. Y. " "	Portions of two large stems. A stem with four branches.
Watertown, N. Y. Near Amsterdam, N.Y.	Three weathered blocks showing the stems. A weathered block showing stems.
Middleville, N. Y.	Three stipes or fronds, imbedded.
Schoharie, N. Y.	A fragment of a leaf, imbedded.

Kingdom ANIMALIA.

Subkingdom PROTOZOA.

Class

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Tr.	629	Type.	Receptaculites de France. <i>cyathiformis</i> <i>Hall.</i>	Pal. N. Y.	I	72	25	6a-c
"	863	"	<i>fungosus</i> <i>Hall.</i>	Geol. Wis.	1861	15		
"	1022	"	<i>Whitfield.</i> <i>globularis</i> <i>Hall.</i>	Mem. A. M.	I	45	5	5, 6
"	631a	Fig'd.	<i>neptunei</i> (<i>de Fr.</i>) <i>Hall.</i>	Geol. Wis.	1861	16		
"	⁸⁶¹ ₄	Type.	<i>Oweni</i> <i>Hall.</i>	Mem. A. M.	I	44	5	7
"	⁸⁶¹ ₄	"	<i>Whitfield.</i>	Pal. N. Y.	I	68	24	3a-d
"	⁸⁶¹ ₆	"	"	Geol. Wis.	1861	13		
"	⁸⁶¹ ₅	"	"	" "	I	46		2
"	⁸⁶¹ ₆	"	" (<i>Hall.</i>)	Mem. A. M.	I	44	5	8
"	⁸⁶¹ ₆	"	" "	" "	I	44	5	9
"	⁸⁶¹ ₅	"	" "	" "	I	44	5	10
			Genus? <i>cyathiformis</i>	" "	I	44	5	11

Subkingdom PORIFERA.

U.	1017a	Type.	Rhombodictyon Whitfield. <i>discum</i> <i>Whitfield.</i>	A. M. N. H.	I	348	35	I
"	1015a	Gen. and Sp. Type.	<i>reniforme</i> <i>Whitfield.</i>	" "	I	347	35	2-7
"	1016a	Type.	" var. <i>rhombiforme</i> <i>W.</i>	" "	I	348	35	8, 9

Subkingdom CŒLENTERATA.

			Chætetes Fischer. <i>columnaris</i>					
B. R.	⁵⁹² ₁	Fig'd.	<i>lycoperdon</i>					
H. R.	1171	Type.	<i>rugosus</i>					
B. R.			Columnaria Goldfuss. <i>alveolata</i> (<i>Goldfuss</i>) <i>Hall.</i>	Pal. N. Y.	I	47	12	1a-c
H. R.			Diphyphyllum Lonsdale. <i>obsoletum</i>	Lake Sup.	2	213	29	2a, b
Tr.	643	"	Favosites Lamarck. <i>columnaris</i>	Pal. N. Y.	I	68	23	4, 4a
			Gorgia Linn. ? <i>perantiqua</i>					
			Porites Lamarck. ? <i>vetus</i>					
Tr.	642	Type.	Protaræa Edw. & Haime. <i>vetus</i>	Pal. N. Y.	I	71	25	5a, b
			Sarcinula Lamarck. ? <i>obsoleta</i>					
Tr.	⁶⁴⁶ ₂	Type.	Streptelasma Hall.....	Pal. N. Y.	I	69	25	1a, c, d
"	⁶⁴⁶ ₃	"	<i>corniculum</i>	" "	I	69	25	1b
"	⁶⁴⁷ ₁	"	<i>crassum</i>	<i>Hall.</i>	" "	70	25	2a, b
Tr.	646	Type.	<i>expansum</i>					
B. R.	594	Type.	<i>parvulum</i>	<i>Hall.</i>	Pal. N. Y.	I	71	25
			<i>profundum</i>	<i>Hall.</i>	" "	I	49	12
			Streptoplasma Hall					

RHIZOPODA?

Order FORAMINIFERA?

LOCALITY.	REMARKS.
Carlisle, Penn.	Probably = <i>R. iowensis</i> Owen. Upper part of an individual, not referred to a genus in the description.
Rockford, Ill.	Detached individual. Galena horizon.
Mt. Morris, Ill. Carlisle, Penn.	An almost perfect individual. Galena horizon. A fragment showing surface and longitudinal section.
Rockford, Ill. Galena, Ill. Watertown, Wis. Beloit, Wis.	Crust on the limestone. Galena horizon. Large fragment, imbedded. Galena horizon. Crust, and imprint of the surface ornamentation. Crust imbedded. Galena horizon.
.....	See <i>Receptaculites</i> .

Class PLETHOSPONGIAE.

Kenwood, N. Y.	Imbedded.
" "	Three individuals or fragments, imbedded.
" "	Two fragments on block with the preceding.

Class ACTINOZOA.

.....	See <i>Favosites</i> . " <i>Monticulipora</i> , <i>Stenopora</i> sp., and <i>Trematopora</i> sp. " <i>Monticulipora</i> .
Watertown, N. Y.	Two fragments, one showing a longit. and the other a cross section.
Green Bay, L. Mich.	As <i>Sarcinula</i> ? A fragment and a water-worn pebble.
Sugar River, Lewis County, N. Y.	As <i>Chonetes</i> ? Large, irregular mass, part of which was figured.
.....	See <i>Enallopora</i> .
.....	See <i>Protarea</i> .
Watertown, N. Y.	As <i>Porites</i> ? Weathered colony, imbedded.
.....	See <i>Diphyphyllum</i> .
Watertown, N. Y. Middleville, N. Y.	All as <i>Streptoplasma</i> in Pal. N. Y., vol. 1. Two small individuals, one of which shows internal structure. An individual imbedded at the cup. The specimen represented by the figure.
.....	See <i>Crinoid plates</i> .
Middleville, N. Y. Watertown, N. Y.	A nearly entire individual and an imbedded group of four. Two somewhat imperfect individuals.
.....	See <i>Streptelasma</i> .

Class ? Order MONTICULIPOROIDEA.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Tr.	672	Type.	Constellaria Dana. <i>antheloidea</i> <i>Hall.</i>	Pal. N. Y.	I	79	26	10a, b
"	⁶³⁷ ₂	Fig'd.	Monticulipora d'Orbigny. ? <i>lycoperdon</i> (<i>Say</i>) <i>Hall.</i>	" "	I	64	23	1b, c
"	⁶³⁷ ₃	"	" " " "	" "	I	64	23	1e
"	"	"	" " " "	" "	I	64	23	1f
"	"	"	" " " "	" "	I	64	23	1g
"	⁶³⁷ ₂	"	" " " "	" "	I	64	23	1h, i
"	⁶³⁷ ₂	"	" " " "	" "	I	64	24	1a, b
"	⁶³⁷ ₂	"	" " " "	" "	I	64	24	1c, n. s.
"	⁶³⁷ ₂	"	" " " "	" "	I	64	24	1d, n. s.
H. R.	⁶³⁷ ₂	"	" " " "	" "	I	276	75	2c
"	⁶³⁷ ₂	"	" " " "	" "	I	276	75	2d
"	⁶³⁷ ₂	"	<i>Ortoni</i> (<i>Nich.</i>)? <i>Hall.</i>	" "	I	277	75	4
Tr.	636	Type.	? <i>rugosa</i> <i>Hall.</i>	" "	I	67	24	2a, b
			<i>Stellipora</i> <i>Hall.</i> <i>antheloidea</i> .....	.....	.....	.....	.....	.....
Tr.	639	Fig'd.	Stenopora Lonsdale. sp. <i>Hall.</i>	Pal. N. Y.	I	64	24	1g-i
"	671	"	Trematopora <i>Hall.</i>	.....	.....	.....	.....	.....
"	670	"	sp. <i>Hall.</i>	" "	I	64	24	1m, n ⁺
		

Class HYDROZOA.

U.	1045	Type.	Amphigrapta Lapworth. <i>divergens</i> <i>Hall.</i>	Pal. N. Y.	3	509	...	9, n. s.
"			" " " "	N. Y. S. M.	12	57	...	9, n. s.
"			" " " "	Can. O. R.	Dec. 2	13	...	II, n. s.
"			" " " "	N. Y. S. M.	20	179	...	12, n. s.
"	1941	Gen. and Sp. Type.	Climacograptus <i>Hall.</i> <i>bicornis</i> <i>Hall.</i>	Pal. N. Y.	I	268	73	2a, b
"	1941	"	" " " "	" "	I	268	73	2c, d
"	1		" " " "	Can. O. R.	Dec. 2	...	A	16
"	"	"	" " " "	N. Y. S. M.	20	...	2	16
"	"	"	" " " "	Pal. N. Y.	I	268	73	2f, h, l, m
"	1041	"	" " " "	" " "	I	268	73	2i, k, m'', n
"	1041	Fig'd.	" " " "	" " "	I	271	73	4a-d
"	"	Gen. and Sp. Type	" " " "	Can. O. R.	Dec. 2	...	A	13-15, 17
"	1042	Fig'd.	<i>parvus</i> <i>Hall.</i>	N. Y. S. M.	20	...	2	13-15, 17
"	"		" " " "	Pal. N. Y.	I	268	73	2p, s
"	?	1090	Type.	" " " "	I	271	73	4g
"	?	1090	<i>typicalis</i> <i>Hall.</i>	Can. O. R.	Dec. 2	...	A	2-8
"	1043	Gen. and Sp. Type.	Cœnograptus <i>Hall.</i> <i>gracilis</i> <i>Hall.</i>	N. Y. S. M.	20	...	2	2-8
"	1	"	" " " "	Pal. N. Y.	I	274	74	6a, c, d
"	"	"	" " " "	N. Y. S. M.	12	58	...	10
"	"	"	" " " "	Pal. N. Y.	3	511	...	1, 3-6
"	"	"	" " " "	N. Y. S. M.	13	56	...	1, 3-6
"	"	"	" " " "	Can. O. R.	Dec. 2	13	...	12, 14-17
"	"	"	" " " "	N. Y. S. M.	20	179	...	13, 15-18

LOCALITY.	REMARKS.
Lowville, N. Y.	As generic type of <i>Stelliporta</i> . On the same block with type of <i>Reteporta? foliacea</i> = <i>Bucania punctifrons</i> .
Watertown, N. Y.	As <i>Chætetes</i> . Small, hemispherical mass.
Middleville, N. Y.	" " Irregular mass showing coalescence of individuals.
" "	A somewhat slicksided individual.
Watertown, N. Y.	" " Irregular mass supposed to show origin of branches.
Lowville, N. Y.	" " Large mass of which only a small part was figured.
L. Champlain, N. Y.	Enlargement perfected from another fragment. 11 on plate.
Middleville, N. Y.	As <i>Chætetes</i> . Small crescentic mass, imbedded.
W. Turin, N. Y.	" " Base of hemispherical form on d. v. of <i>Orthis testudinaria</i> .
Turin, N. Y.	As <i>Chætetes</i> . Small base of attachment.
" "	" Branching form, very large for this group.
Middleville, N. Y.	" " Imbedded pyriform colony attached to crinoid stem.
.....	As "undetermined". A bryozoan? The impression of a large colony on an orthoceras.
.....	As <i>Chætetes</i> . Individual showing base of three branches.
.....	= <i>Constellaria</i> .
.....	See "
Lowville, N. Y.	As <i>Chætetes lycoperdon</i> . Branched form.
Middleville, N. Y.	" " " Imbedded.
Lowville, N. Y.	" " " Slab showing several detached branches.
.....	Described by Hall as <i>Graptolithus</i> , but referred by Lapworth to the present genus and cited by Zittel, Paléontologie, Fr. ed., 1883, vol. I, p. 303, as the type of it. An unfigured specimen is in the type series.
Kenwood, ¹ N. Y.	Ballston, N. Y.
.....	As <i>Graptolithus</i> .
.....	" "
Kenwood, N. Y.	Fragment preserving the base.
" "	As <i>Graptolithus</i> . Two blocks, the first of which bears also three types of <i>Dicranograptus ramosus</i> H.
Ballston, N. Y.	As <i>Graptolithus</i> . This block was indicated by Prof. Hall as bearing the originals of these figures. Not clearly recognized.
Kenwood, N. Y.	As <i>Graptolithus scalaris</i> Linn. Two individuals imbedded on edge.
" "	Three specimens showing the base and one long fragment. One shows the film and is the counterpart of the type.
" "	As <i>Graptolithus bicornis</i> H. A small fragment.
" "	" <i>scalaris</i> Linn. "
Cincinnati, O.	Fragments imbedded in same block, except fig. 4. Two unfigured specimens are in the type series.
Kenwood, N. Y.	As <i>Graptolithus</i> . Two fragments.
.....	" "
.....	" "
.....	" "
Kenwood, N. Y.	" " (<i>Cænograptus</i>). Six specimens are referred to these figures. Of the two, however, which are said to be the orig. of fig. 5, p. 511, vol. 3, Pal. N. Y., neither agrees exactly with the figure.

¹ The locality called Norman's Kill in Pal. N. Y., vol. I, and other early reports is now a part of Kenwood, a suburban portion of the city of Albany, N. Y.

Class HYDROZOA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
U.	1029a	Type.	Dicranograptus Hall. arundinaceus.....Hall.	Pal. N. Y.	I	....	74	8, a
"	1031a	"	divaricatus.....Hall.	" "	3	513 p. 514	....	I, 2
"	"	Fig'd.	" "	N. Y. S. M.	20	180	....	20
"	1028a	Type.	furcatus.....Hall.	Pal. N. Y.	I	273	74	3c, n.s.
"	"	"	" "	" "	I	273	74	4a, b
"	1030a	Gen. and Sp. Type.	ramosus ... Hall.	" "	I	273	74	4g, h
"	"	"	" "	" "	I	270	73	3a-c, e
"	"	"	" "	" "	I	270	73	3f, g, h
"	"	"	" "	Can. O. R.	Dec. 2	....	A	18-20
"	1027	Type.	sextans... Hall.	N. Y. S. M.	20	...	2	18-20
Tr.	867	"	Dictyonema Hall. neenah Hall.	Pal. N. Y.	I	273	74	3a, b, d, e
			Whitfield.	Geol. Wis. Mem. A. M.	1861	17	5	13
U.	1024a	"	Didymograptus McCoy. serratus.....Hall.	Pal. N. Y.	I	274	74	5a, b
"	1076	"	subtenuis.....Hall.	Am. P. F.	....	244	....	....
				Pal. N. Y.	I	272	74	2c, d
Tr.	684	"	Diplograptus McCoy. amplexicaulis Hall.	" "	I	79	26	11a, b
U.?	1040	Fig'd.	"	" "	I	265	72	1a-c
"?	1040	"	"	" "	I	265	72	1f, g
"?	1040	"	"	" "	I	265	72	1h, i
"?	1040	"	"	" "	I	265	72	1k, l
Tr.	684	Type.	"	" "	N. Y. S. M.	20	....	3
U.	1033	"	angustifolius.....Hall.	Pal. N. Y.	3	515	....	I, 2
"	1038	Fig'd.	ciliatus (Emmons) .. Hall.	N. Y. S. M.	13	59	....	I, 2
"	"	"	" " ? "	Can. O. R.	Dec. 2	....	B	14, 15
"	1032	"	marcidus Hall.	N. Y. S. M.	20	....	I	14, 15
"	"		"	Can. O. R.	Dec. 2	....	B	16, enl. x 6
"	"		"	N. Y. S. M.	20	....	I	16, "
"	"		"	Pal. N. Y.	3	508	....	6, enl. x 3
"	"		"	Can. O. R.	Dec. 2	....	B	18, " x 6
"	"		"	N. Y. S. M.	20	....	I	18, "
"	"		"	Pal. N. Y.	I	268	73	1a-d
H. R. (U.?)	1092	Type.	mucronatus....."	Geol. Wis.	1861	17	....	....
			peosta....."	Mem. A. M.	I	47	5	12, enl. x 6
"	1036	Fig'd.	Whitfield.	Pal. N. Y.	I	265	72	1d, e
"	1036	"	pristis (Hisinger)? .. Hall.	" "	I	265	72	1m, n
"	1036	"	" .. "	" "	I	265	72	1o, p
"	1036	"	" .. "	" "	I	267	72	2b, b, b
"	1041	"	" .. "	" "	I	268	73	2e, n.s.
H. R. (U.?)	1098	Type.	putillus..... Hall.	Can. O. R.	Dec. 2	....	A	10-12a
			"	N. Y. S. M.	20	....	2	10-12a
Hoosic States.	424	Fig'd.	secalinus (Eaton) .. Hall.	Pal. N. Y.	I	267	72	2a, n.s.
U.	1039	Type.	spinulosus..... Hall.	" "	3	517	....	I, enl. x 2
"	1087	"	Whitfieldi .. Hall.	N. Y. S. M.	13	60	p. 61	I, "
"	"	"	"	Pal. N. Y.	3	516	....	I, "
"	"	"	"	N. Y. S. M.	13	60	....	I, "
"	"	"	"	Can. O. R.	Dec. 2	36	....	31, "
"	"	"	"	N. Y. S. M.	20	205	....	33, "
"	"	"	"	Pal. N. Y.	3	507	....	I-3
"	"	"	"	Can. O. R.	Dec. 2	....	B	6-II
"	"	"	"	N. Y. S. M.	20	....	I	6-II

LOCALITY.	REMARKS.
Turin, N. Y.	As <i>Graptolithus</i> . Not described. Its characters are not distinctive enough for description.
Nearwood, N. Y.	As <i>Graptolithus</i> .
" "	" Two other unfigured individuals are in type series.
" "	As type of <i>Graptolithus sextans</i> H. Small fragment.
" "	As <i>Graptolithus</i> . On slab with a type of <i>D. sextans</i> .
" "	" Individual shows the two branches crossed.
" "	" Five specimens on three slabs, one of which bears a type of <i>Climacogr. bicornis</i> .
" "	As <i>Graptolithus</i> . Fig. is incorr. Spec. is composed of two indiv.
" "	As <i>Climacogr.</i> (s. g. <i>Dicranogr.</i>) Two individuals.
" "	" <i>Graptolithus</i> . Two branching fragments on a block and another on block with a type of <i>D. furcatus</i> H.
Appleton, Wis.	A large frond, imbedded.
Kenwood, N. Y.	As <i>Graptolithus</i> . Fragment on block with next specimen.
Nearwood, N. Y.	Name proposed by Prof. Hall.
Middleville, N. Y.	As <i>G. tenuis</i> Portl. A fragment on block with preceding.
Turin, N. Y.	As <i>Graptolithus</i> . Several stipes on limestone.
Lorraine, N. Y.	" " <i>pristis</i> His. Two fragments on one block.
Near Collinsville, N. Y.	" " " "
Oxtungo Creek, N. Y.	" " " "
Middleville, N. Y.	" " A single stipe, imbedded.
Kenwood, N. Y.	" " Associated with several fragments of same species.
" "	An unfigured specimen is in the type series.
" "	As <i>Graptolithus</i> . Two germs, one with long midrib and radicles.
" "	A discoid germ not referred to a species by Prof. Hall.
" "	A germ not referred to a species by Prof. Hall.
Maquoketa Creek, Ia.	As <i>Graptolithus</i> . Three fragments, imbedded.
Oxtungo Creek, N. Y.	" " (<i>Diplograptus</i>).
Kenwood (?), N. Y.	A distended fragment, imbedded.
Nr. Albany, N.Y. (Hall)	As <i>Graptolithus</i> . Distinct from Kenwood form?
Oxtungo Creek, N. Y.	" " Orig. surv. label on spec. reads "N. W. cor. Columbia Co."
" "	" type of <i>Grapt. secalinus</i> . Specimen indicated by Prof. Hall as the one from which the figures were made.
Near Dubuque, Iowa.	As a type of <i>Grapt. bicornis</i> .
Hoosic Falls, N. Y.	As <i>Graptolithus</i> (<i>Diplograptus</i>).
Kenwood, N. Y.	A distended, imbedded fragment, part of which was figured.
" "	As <i>Graptolithus</i> . Is same as <i>Diplogr. simplex</i> Emmons.
" "	" "
" "	" A small fragment.
" "	" "
" "	" A very perfect, isolated individual.
Without reference to species.	
Kenwood, N. Y.	As <i>Graptolithus</i> . Fig. 7 is fr. counterpart of fig. 2 in Pal. N. Y., 3.
" "	" Four stipes showing germ sacs and one showing the macerated remains of the sacs.

Class HYDROZOA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.					
				Work.	Vol.	P.	Pl.		
			Graptolithus Linn.						
			<i>amplexicaulis</i>						
			<i>angustifolius</i>						
			<i>arundinaceus</i>						
			<i>bicornis</i>						
			“.....						
			<i>ciliatus</i>						
			<i>divaricatus</i>						
			<i>divergens</i>						
			<i>furcatus</i>						
			<i>gracilis</i>						
			? <i>levis</i>	Hall.	Pal. N. Y.	I	274	74	7, n. s.
			<i>Milesi</i>						
			<i>mucronatus</i>						
			<i>peosta</i>						
			<i>pristis</i>						
			“.....						
			<i>putillus</i>						
			<i>ramosus</i>						
			<i>scalaris</i> (Linn.).....	Hall.	Pal. N. Y.	I	271	73	4e, f
			<i>scalaris</i>						
			“.....						
			<i>secalinus</i>						
			“.....						
			<i>serratulus</i>						
			<i>sextans</i>						
			“.....						
			<i>spinulosus</i>						
			<i>subtenuis</i>						
			<i>tenuis</i>						
			<i>Whitfieldi</i>						
			<i>germs</i>						
?	433	Type.	Loganograptus Hall.						
			<i>Milesi</i>	Hall.	Geol. Vt.	I, 2	372	12	2-4
			Oldhamia Forbes.						
			? <i>fruticosa</i>						
U.	1050	Type.	Rastrites Barrande.						
			<i>Barrandii</i>	Hall.	Pal. N. Y.	3	522	....	1, 2
			“.....		N. Y. S. M.	13	64	....	1, 2
			“.....		Can. O. R.	Dec. 2	26	....	28
			“.....		N. Y. S. M.	20	184	....	25
B. R.	590	Gen. and Sp. Type.	Stromatocerium Hall.						
			<i>rugosum</i>	Hall.	Pal. N. Y.	I	48	12	2, 2a
U.	1047	Type.	Thamnograptus Hall.						
			<i>capillaris</i>	Hall.	“ “	3	520	....	3
“	1048	Gen. and Sp. Type.	<i>typus</i>	Hall.	N. Y. S. M.	13	63	....	3
“	“	“	“	“	Pal. N. Y.	3	519	....	1, n. s.
“	“	“	“	“	N. Y. S. M.	13	62	....	1,
“	“	“	“	“	Pal. N. Y.	3	519	p. 520	2, “
“	“	“	“	“	N. Y. S. M.	13	62	p. 63	2, “
“	“	“	“	“	Can. O. R.	Dec. 2	17	....	24, “
“	“	Fig'd.	Genus ? sp. ?.....	Hall.	N. Y. S. M.	20	184	....	26, “
“	“	“	“	“	Pal. N. Y.	3	508	....	4a, b
“	“	“	“	“	“	3	508	....	7, n. s.
“	“	“	“	“	Can. O. R.	Dec. 2	....	B	19
“	“	“	“	“	N. Y. S. M.	20	....	I	19

LOCALITY.	REMARKS.
	See <i>Diplograptus</i> . " " <i>Dicranograptus</i> . " " <i>Climacograptus</i> . " " <i>parvus</i> . " " <i>pristis</i> . " " <i>Diplograptus</i> . " " <i>Dicranograptus</i> . " " <i>Amphigraptus</i> . " " <i>Dicranograptus</i> . " " <i>Canograptus</i> . Turin, N. Y.
	More of the stipe has been uncovered since the figure was made. See <i>Loganograptus</i> . " " <i>Diplograptus</i> . " " " " " <i>amplexicaulis</i> . " " <i>Dicranograptus</i> . Kenwood, N. Y.
	Small fragment. Probably is <i>G. sagittarius</i> flattened on the face. See <i>Climacograptus bicornis</i> . " " <i>parvus</i> . " " <i>pristis</i> . " " <i>Didymograptus</i> . " " <i>Dicranograptus</i> . " " <i>divaricatus</i> . " " <i>Diplograptus</i> . " " <i>Didymograptus</i> . " " <i>subtenius</i> . " " <i>Diplograptus</i> . Kenwood, N. Y.
Monkton, Vt.	As <i>Graptolithus</i> . Two fronds imbedded in a boulder. See <i>Callithamnopsis</i> under Algae.
Watertown, N. Y.	A single stipe with branchlets, imbedded. Imbedded individual showing weathered longitudinal section.
Kenwood, N. Y.	A stipe with branchlets, imbedded. " " " " " " " " " " On slab with several species of graptolites.
" "	On block with <i>Dicranograptus divaricatus</i> .

Subkingdom ECHINODERMATA.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			Asterias Lamarck. <i>matutinus</i>					
Tr. H. R.	661 1195	Type. “	Palæaster Hall. <i>matutinus</i> <i>Schæfferi</i>	Hall. Hall.	Pal. N. Y. N. Y. S. M.	1 20 284	91 9	29 5a, b <i>ven. side</i>

Class CRINOIDEA.

		Actinocrinus Miller.							
		<i>tenuiradiatus</i>							
		? sp.....		Pal. N. Y.	I	18	4		10
Tr.	654	Type.	Cupulocrinus d'Orbigny.						
			heterocostalis .....Hall.		Pal. N. Y.	I	85	28	3d-f
Tr.	650	Type.	Dendrocrinus Hall.						
"	650	"	alternatus.....Hall.		Pal. N. Y.	I	83	28	1a-d
"	650	"	" "		" "	I	83	28	1e
H. R.	1180	"	" "		" "	I	83	28	1f
Tr.	649	"	caduceus .....Hall.		N. Y. S. M.	24	208	5	7, 8
			gracilis.....Hall.		Pal. N. Y.	I	84	28	2a, b
H. R.	656	Type.	Ectenocrinus S. A. Miller.						
"	656	"	simplex .....Hall.		Pal. N. Y.	I	280	76	2a, d
			" "		N. Y. S. M.	24	...	5	II, 12
			Heterocrinus Hall.						
"	1174	"	exilis .....Hall.		" "	24	213	5	16, side x 3
"	1177	"	? gracilis. ....Hall.		Pal. N. Y.	I	280	76	3a, b
"	1114	Gen. and Sp. Type.	heterodactylus.....Hall.		" "	I	279	76	1a, n. s.
"	1116	"	" "		" "	I	279	76	1e
"	1116	"	" "		" "	I	279	76	1i-o
"	1171	Type.	juvenis .....Hall.		N. Y. S. M.	24	212	5	9, 10
			(Iocrinus) polyxo.....						
			simplex						
H. R.	1182	Gen. and Sp. Type.	Glyptocrinus Hall.						
"	"	"	decadactylus.....Hall.		Pal. N. Y.	I	281	77	1a, side.
"	"	"	" "		" "	I	281	77	1b-f, B.
"	"	"	" "		" "	I	281	78	1b-e, o, p, r
"	"	"	" "		" "	I	281	78	1f-h
"	"	"	" "		" "	I	281	78	1i-k
"	1118	"	" "		" "	I	281	78	1s, n. s.
"	1118	"	" "		" "	I	281	78	1t (first)
"	"	"	" "		" "	I	281	78	1t (second)
"	1182	"	Nealli			I	281	78	1u
			Iocrinus Hall.						
"	1178	Fig'd.	subcrassus (M. & W.) Hall		N. Y. S. M.	24	212	5	1, side.
"	1178	"	" "		" "	24	212	5	2, "
			Poteriocrinus Miller.						
			alternatus						
			(Dendrocr.) caduceus						
			gracilis						

Class ASTEROIDEA.

LOCALITY.	REMARKS.
.....	See <i>Palæaster</i> .
Trenton Falls, N. Y. Cincinnati, O.	As <i>Asterias</i> . Imbedded individual. A nearly entire individual, imbedded.
.....	See <i>Palæocystites</i> . " " sp.
Middleville, N. Y.	As generic type of <i>Scyphocrinus</i> , but the name was pre-occupied. Isolated body with broken arms and no stem.
Turin, N. Y. Carlisle, Pa. Middleville, N. Y. Near Lebanon, O.	As <i>Poteriocrinus</i> . Weathered individual on limestone. " " Single pelvic plate on limestone. " " Fragment of column imbedded. " " (<i>Dendrocr.</i>). Two calices and an unfigured one form the type series.
Middleville, N. Y.	" " Imprint; body lost.
Cincinnati, O. " "	As <i>Heterocrinus</i> . A small calyx with arms nearly entire. " " " large " "
Snake Hill, Saratoga Co., N. Y. " "	A small calyx with arms nearly entire. Impression of a column in slate. Species rejected by Wachsmuth and Springer, because founded on column only.
Booneville, N. Y. Pulaski, N. Y.	Small individual imbedded. Head has been lost, column remains. Slab bears several stems of this and other species.
Lebanon, O.	Slab of slate bearing many imprints of crinoid plates, etc. [This species has been made the type of <i>Stenocrinus</i> by Wachsmuth and Springer, <i>vid. Rev. of Palæocrinoida</i> , III, p. 207.]
.....	Detached calyx with arms and short piece of column. See <i>Iocrinus subcrassus</i> .
" "	" <i>Ectenocrinus</i> .
Cincinnati, O. " "	Two young individuals imbedded in contact. Arms fragmentary. Entire calyx with arms complete to beyond where free.
" " " " " "	Six fragments of stems corresponding with the figures. Rather small stem, imbedded.
Booneville, N. Y. " " " "	Six detached column plates of various form referred here. A slab bearing several stems referred to this species.
Cincinnati, O.	Large stem, imbedded, associated with other stems, etc.
.....	A large stem, imbedded, fragment. Fragment of a large stem, imbedded. See <i>Reticocrinus</i> .
Cincinnati, O. " "	As type of <i>Heterocr.</i> (<i>Iocr.</i>) <i>polyxo</i> Hall. Rather large calyx. " " Imbedded, nearly entire.
.....	See <i>Dendrocrinus</i> . " "

Class CRINOIDEA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	
H. R.	1188	Type.	Retiocrinus Billings. Nealli.....Hall.	N. Y. S. M.	24	206	5	18, 19
Tr.	652	Gen. and Sp. Type.	Schizocrinus Hall. nodosus.....Hall.	Pal. N. Y.	I	81	27	1c, g, k, l, n
"	651	Type.	striatus.....Hall.	" "	I	316	28	4a-c
Ch.	519	Fig'd.	Syphocrinus Hall. Crinoid plates.....Hall.	Pal. N. Y.	I	17	4	6b, b
Be.	572	"	" column "	" "	I	51	12	9

Class CYSTOIDEA.

H. R.	1194	Fig'd.	Agelacrinus Vanuxem. s. g. Lepidodiscus M. & W. cincinnatensis (Räm.) H.	N. Y. S. M.	24	214	6	7, top X 2½
"	1193	Type.	pileus.....Hall.	" "	24	214	6	10, pt. X 3
"	1192	"	s. g. Streptaster Hall. vorticellatus.....Hall.	" "	24	215	6	11, 12
Tr.	887	"	Cyclocystoides B. & S. anteceptus.....Hall.	N. Y. S. M.	24	219		
"	662	"	" Lake Sup. Salteri .....Hall.	N. Y. S. M.	2	209	25	4b
					24	218	6	16, enl.
			Echino-encriinites Meyer. anatiformis					
H. R.	1191	Type.	Hemicystites Hall. stellatus.....Hall.	N. Y. S. M.	24	215	6	5, top X 6
Tr.	658	"	Homocystites Barrande. anatiformis.....Hall.	Pal. N. Y.	I	89	29	4a-c
"	"		"Hall.	" "	I	89	29	4d, d ¹
"	"	Fig'd.	" (Hall). Frech.	Leth. Geog.	?	?	?	?, enl. X 2
"	659	"	" var. Logani (Bill.) Fr.	" "	?	?	?	?, 3 enl's
H. R.	1190a	Type.	Lichenocrinus Hall. crateriformis.....Hall.	N. Y. S. M.	24	217		
"	1190	Gen. and Sp. Type.	Dyeri.....Hall.	" "	24	216	7	4
Ch.	519	Type.	Palaeocystites Billings. tenuiradiatus.....Hall.	Pal. N. Y.	I	18	4	9, n. s.
"	520	Fig'd.	? sp.....Hall.	" "	I	18	4	10

MOLLUSCOIDEA.

Tr.	888	Type.	Clathropora Hall. flabellata.....Hall.	Lake Sup.	2	207	24	2a, b
Ch.	525	"	glomerata.....Hall.	Pal. N. Y.	I	17	4	5, n. s.
Tr.	686	Gen. and Sp. Type.	Enallopora d'Orbigny. perantiqua .....Hall.	" "	I	76	26	5a, b

LOCALITY.	REMARKS.
Near Lebanon, O.	As <i>Glyptocrinus</i> . Two bodies as represented. Another, not figured, is in the type series.
Middleville, N. Y. " "	A tentaculated finger and five fragments of columns. Body and part of column. See <i>Cupulocrinus</i> . This name was pre-occupied.
Chazy, N. Y.	As types of <i>Streptelasma expansum</i> . Imbedded in block with <i>Palaeocystites tenuiradiatus</i> , fig. 9, pl. iv.
Watertown, N. Y.	Imbedded. Two annulations have been broken off since the fig. was made. Ref. in book to Black Riv. grp., but the block bears Prof. Hall's loc. num. for Birdseye, and possesses the charac. of that rock.

Cincinnati, O. " "	A vertically compressed individual, imbedded. Individual crushed so as to show three arms and the space between two.
" "	Somewhat crushed individual, imbedded.
Escañaba River, Mich. Near Saratoga, N.Y.	Without name. An incomplete individual. Imbedded.
.....	See <i>Homocystites</i> .
Cincinnati, O.	As <i>Agelocrinus (Hemicystites)</i> . Small individual on <i>Rafinesquina alternata</i> .
Turin, N. Y. " " " "	As <i>Echino-encrimites</i> . Parts of two individuals in same slab. " " " Two worn individuals in slab with others. Lower part of calyx.
Brighton, Ont.	Calyx with arms and stem. This and the preceding are fig'd in a revised edition of F. Römer's <i>Lethaea Geognostica</i> not yet published.
Cincinnati, O. " "	A small individual. In type series, but not figured. Rather large individual, probably somewhat weathered. Two unfigured individuals are in type series.
Chazy, N. Y. " "	As <i>Actinocrinus</i> . A number of plates imbedded in block with originals of figs. 6b, b, same plate. As <i>Actinocrinus</i> . Single summit-plate imbedded. Two figures.

Class POLYZOA.

Escañaba River, Mich. Granville, Vt.	A very large frond, imbedded. As <i>Stictopora</i> . A considerable surface, of which a part was fig'd.
Middleville, N. Y.	As <i>Gorgonia?</i> An imbedded frond, of which a part has been lost.

MOLLUSCOIDEA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	Work.	REFERENCE.			
					Vol.	P.	Pl.	Figs
Tr.	668 1	Type.	<i>Escharopora</i> Hall.....	Pal. N. Y.	I	73	26	1e
			recta.....Hall.					
Tr.	668 1	Type.	recta.....Hall.	Pal. N. Y.	I	73	26	1c, d 2, n. s.
			" var. <i>nodososa</i>.....Hall.					
Tr.	669 1	Type.	<i>Ptilodictya</i> Lonsdale.	Pal. N. Y.	I	73	26	1c, d 2, n. s.
			recta.....Hall.					
Ft. C.	583	Type.	<i>Retepora</i> Lamarck.	A. M. N. H.	9	177	4	5, 6
			<i>gracilis</i>					
Tr.	666 1	Type.	<i>Rhinopora</i> Hall.	A. M. N. H.	9	177	4	5, 6
			<i>prima</i> <i>Whitfield</i> .					
Tr.	667 1	Gen. and Sp. Type.	<i>Stictopora</i> Hall.	Pal. N. Y.	I	74	26	3a-c
			? <i>acuta</i>.....Hall.					
Ch.	526 2	Type.	<i>elegantula</i>.....Hall.	Pal. N. Y.	I	75	26	4a-c
			"....."					
Ch.	527 2	Type.	<i>fenestrata</i>.....Hall.	Pal. N. Y.	I	75	26	4d, e
			<i>labyrinthica</i>.....Hall.					
B. R.	596	"	<i>ramosa</i>.....Hall.	Pal. N. Y.	I	50	..	1, 3
			"....."					
Ch.	524 2	Type.	<i>Subretepora</i> d'Orbigny.	Pal. N. Y.	I	15	4	2a, b
			<i>gracilis</i>.....Hall.					
			<i>incepta</i>.....Hall.					

Class BRACHIOPODA.

Ft. C.	440	Type.	<i>Atrypa</i> Dalman.	Pal. N. Y.	I	145	33	11a-d
			<i>utilis</i>					
			<i>ambigua</i>					
			<i>bisulcata</i>					
			<i>circulus</i>					
			<i>cuspidata</i>					
			<i>dentata</i>					
			<i>exigua</i>					
			<i>extans</i>					
			<i>hemiplicata</i>					
			<i>increbescens</i>					
			? <i>modesta</i>					
			<i>nucleus</i>					
			<i>plena</i>					
			<i>plicifera</i>					
			<i>recurvirostra</i>					
			<i>sordida</i>					
			<i>subtriangularis</i>					
			sp. ?.....					
			<i>Billingsella</i> H. & C.					
			? <i>primordialis</i> <i>Whitfield</i> .	A. M. N. H.	I	301	24	7, ext. x 2

Class POLYZOA—Continued.

LOCALITY.	REMARKS.
Middleville, N. Y.	Pre-occupied by <i>Ptilodictya</i> . The upper portion of this spec. is a fragm. of a <i>Cyrtoceras</i> coated with a bryozoan, not <i>Ptilodictya</i> . Below this is a piece of crinoid stem, and then an organic fragment of undetermined nature. See <i>Ptilodictya</i> .
Middleville, N. Y. " "	As generic type of <i>Escharopora</i> . Slender individual, imbedded. As <i>Escharopora</i> . Is specifically distinct from <i>P. recta</i> .
	See <i>Subretepora</i> . " " " <i>Bucania punctifrons</i> .
Fort Cassin, Vt.	A frond, imbedded.
Middleville, N. Y. " "	Small individual with several bifurcations. " " two " " " crust nearly gone.
Watertown, N. Y. Chazy, N. Y. " " Watertown, N. Y.	Two branches, imbedded, one showing axis, the other the ext. surface. Several branching stems, imbedded. Many fragments imbedded.
Chazy, N. Y. Near Galway, N. Y.	As <i>Retepora</i> . A small fragment, imbedded. " " Fragment of frond, imbedded.
	See <i>Camarotochia</i> . " <i>Triplecia extans</i> . " <i>Cyclospira</i> . " <i>Camerella</i> . " <i>Triplecia extans</i> . " <i>Rhyncotrema</i> . " <i>Protozyga</i> . " <i>Triplecia</i> . " <i>Parastrophia</i> . " <i>Rhyncotrema increbescens</i> and <i>R. capax</i> . " <i>Zygospira</i> . " <i>Triplecia</i> . " <i>Camarotochia</i> . " " " <i>Zygospira</i> . " <i>Plectorthis</i> . " <i>Camarotochia</i> . " <i>Triplecia extans</i> .
Fort Cassin, Vt.	As <i>Streptorhynchus</i> ? Dorsal valve imbedded, right angle wanting.

Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Ch.	532	Type.	Camarotœchia H. & C. altilis..... <i>Hall.</i>	Pal. N. Y.	I	23	4 bis	9a-d
"	530	"	plena..... <i>Hall.</i>	" "	I	21	4 bis	7c, v. v.
Tr.?	533	"	? plicifera..... <i>Hall.</i>	" "	I	22	4 bis	8c, d
Tr.?	708	"	? subtrigonalis..... <i>Hall.</i>	" "	I	145	33	12a-c
Tr.	696	Type.	Camerella Billings. <i>circulus</i> <i>Hall.</i>	Pal. N. Y.	I	142	33	7a-c
H. R.	1886	Type.	Crania Retzius. <i>lælia</i> <i>Hall.</i>	N. Y. S. M.	24	220	7	16, ext. d. v.
			<i>H. & C.</i>	St. G. N. Y.	II	...	6	16, "
			"	Pal. N. Y.	8, pt. I	4H	I,	"
"	1887	"	<i>scabiosa</i> <i>Hall.</i>	N. Y. S. M.	24	220	7	15, group
			<i>H. & C.</i>	Pal. N. Y.	8, pt. I	148	4H	26, "
Tr.	908	"	<i>setigera</i> <i>Hall.</i>	N. Y. S. M.	24	220	7	13, 14
"	687	"	<i>H. & C.</i>	Pal. N. Y.	8, pt. I	150	4H	15, 16
			<i>trentonensis</i> <i>Hall.</i>	N. Y. S. M.	24	219	7	11, 12
			<i>H. & C.</i>	Pal. N. Y.	8, pt. I	150	4H	21, 22
Tr.	718	Fig'd Sp. and G. T.	Cyclospira H. & C. <i>bisulcata</i> (<i>Emmons</i>)..... <i>H.</i>	Pal. N. Y.	I	139	33	3a-e
			<i>H. & C.</i>	St. G. N. Y.	I	808	40	1-3
			"	Pal. N. Y.	8, pt. 2	146	54	38-40
H. R.	1889	Type.	Dalmanella H. & C. <i>emacerata</i> <i>Hall.</i>	N. Y. S. M.	I	121	...	.....
			<i>H. & C.</i>	"	I	...	2	I, ext. d. v.
Ft. C.	441	Fig'd.	? <i>evadne</i> (<i>Bill.</i>)..... <i>Whitf.</i>	A. M. N. H.	I	300	24	8, ext. X 2
Ca.	361	Type.	<i>Macleodi</i> <i>Whitfield.</i>	"	2	43	7	1-4
Tr.	684	"	<i>perveta</i> <i>Conrad.</i>	P. A. N. S.	I	333	...	.....
			<i>Hall.</i>	Pal. N. Y.	I	120	32	5a-d
			"	Geol. Wis.	I	42	...	7a-d
			<i>H. & C.</i>	St. G. N. Y.	2	...	34	16, d. v.
"	"	Fig'd.	" (<i>Con.</i>)..... <i>Hall.</i>	Pal. N. Y.	8, pt. I	205	5C	12, "
"	"	"	<i>H. & C.</i>	St. G. N. Y.	2	...	34	17, 18
"	"	"	" (<i>Con.</i>)..... <i>Hall.</i>	Pal. N. Y.	8, pt. I	205	5C	13, 14
"	"	"	<i>H. & C.</i>	St. G. N. Y.	2	...	34	24, int.
"	"		<i>subaequata</i> <i>Conrad.</i>	Pal. N. Y.	8, pt. I	205	5C	10, "
			<i>Hall.</i>	P. A. N. S.	I	333	...	.....
			"	Pal. N. Y.	I	118	32	2a-d
			<i>H. & C.</i>	Geol. Wis.	I	42	...	1-3
			"	St. G. N. Y.	2	...	34	19-21
Tr.	690	Fig'd.	<i>testudinaria</i> (<i>Dalman</i>) <i>H.</i>	Pal. N. Y.	8, pt. I	205	5C	6-8
H. R.	690	"	"	"	I	117	32	1a-d
Tr.	690	"	"	"	I	117	32	1g-k
H. R.	690	"	"	"	I	117	32	11, d. v.
Tr.	690	Fig'd Sp. and G. T.	"	"	I	288	79	4a-c
			<i>H. & C.</i>	St. G. N. Y.	2	...	34	1-5
			"	"	II	...	II	4, 5
"	690	"	" (<i>Dalman</i>) <i>Hall.</i>	Pal. N. Y.	8, pt. I	207	5B	27-31
"	690	"	<i>H. & C.</i>	St. G. N. Y.	2	...	34	II, ext. X 2
"	690	"	" (<i>Dalman</i>) <i>Hall.</i>	Pal. N. Y.	8, pt. I	207	5B	39, "
"	690	"	<i>H. & C.</i>	St. G. N. Y.	2	...	34	12
			" (<i>Dalman</i>) <i>Hall.</i>	Pal. N. Y.	8, pt. I	207	5B	38
			<i>H. & C.</i>	St. G. N. Y.	2	...	34	12
			" (<i>Dalman</i>) <i>Hall.</i>	Pal. N. Y.	8, pt. I	207	5B	38
			<i>biforata</i> , var. <i>lynx</i>	St. G. N. Y.	2	...	34	12
				Pal. N. Y.	8, pt. I	207	5B	38

LOCALITY.	REMARKS.
Chazy, N. Y. " " " "	As <i>Atrypa</i> . Entire individual. " " " " " Entire, somewhat compressed. " " Entire.
Middleville, N. Y.	As <i>Atrypa</i> . Somewhat exfoliated.
Oxford, O. Ohio River, opp. Westport, Ky.	Four individuals on the ventral and two on the dorsal valve of a specimen of <i>Strophomena planumbona</i> . Twelve or more individuals on dorsal valve of <i>Platystrophia lynx</i> .
Near Mineral Pt., Wis.	Dorsal valve, imbedded.
Middleville, N. Y.	" "
Adams, N. Y. " "	As <i>Atrypa</i> . Entire. Entire adult.
Cincinnati, O. Fort Cassin, Vt. Beekmantown, N. Y.	As <i>Orthis</i> . " " Two dorsal valves, one used only for card. process and musc. impr. As <i>Orthis</i> . An imbedded dorsal valve. " " A dorsal ? and two ventral valves, imbedded. " " " " " " " "
Mineral Pt., Wis.	An entire, perfect individual.
Mineral Pt., Wis.	As <i>Orthis</i> . Margin somewhat broken.
Mineral Pt., Wis.	As <i>Orthis subaequata</i> . " " " " Detached ventral valve.
Mineral Pt., Wis.	As <i>Orthis</i> . " " " " " "
Mineral Pt., Wis. Middleville, N. Y. Cincinnati, O. Middleville, N. Y. Pulaski, N. Y.	Entire, perfect, detached. See also <i>D. pervata</i> . As <i>Orthis</i> . Detached individual. " " A dorsal valve and an individual of medium size. " " Loc. incor. in expl. pl. Spec. evidently from Middleville. " " Imprints of two ventral and a dorsal valve. " " <i>testudinaria</i> , var.
Mineral Pt., Wis.	Generic type. " " Two entire individuals, a ventral and a dorsal valve.
Lowville, N. Y.	As <i>Orthis</i> . Generic type. Two imbedded dorsal valves which were used.
Middleville, N. Y.	As <i>Orthis</i> . Enl. $\times 2$ and not nat. size, as stated in expl. of pl., vol. 8.
Lowville, N. Y.	Generic type. Ventral valve, imbedded. Used for outline and hinge. As <i>Orthis</i> . Generic type. Ventral valve, imbedded. Used for muscular impr. = <i>Spirifer</i> . See <i>Platystrophia lynx</i> .

Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Tr.	878	Fig'd.	Dignomia Hall. <i>quadrata</i> (<i>Eichw.</i>).. <i>Hall.</i>	Pal. N. Y. Geol. Wis.	I I	96 46	30	4a, b I
"	892	"	Dinorthis Hall & Clarke. <i>pectinella</i> (<i>Conrad</i>).. <i>Hall.</i>	Pal. N. Y. " " "	I I	123 123	32 32	10, ext. d.v. 10a, b
"	692	"	" " "	St. G. N. Y.	2	....	34	39, 40
"	692a	Type.	<i>H. & C.</i> " <i>var. semiovalis</i> .. <i>H.</i>	Pal. N. Y. "	8, pt. I I	195 124	5 32	27, 28 II, IIIa, b
H. R.	909	"	Hebertella Hall & Clarke. <i>bellarugosa</i> .. <i>Conrad</i> " <i>Hall.</i>	P. A. N. S. Pal. N. Y. Geol. Wis. Pal. N. Y.	I I I I	333 118 42 125	.... 32	3a-e 4-6 12a-d
	1842	"	<i>insculpta</i> .. <i>Hall.</i>	" "	I	127	32A	2a, c, e-g, i, k, m
	1842	"	<i>occidentalis</i> .. <i>Hall.</i>	" "	I	127	32B	1a, c, f, g
	1842	Fig'd.	" " "	" "	I	129	32C	1a-n
	1842	Type.	" " "	St. G. N. Y. Pal. N. Y.	2 8, pt. I	.... 222	34 5A	31, 32 II, 12
	1842	"	" " "	St. G. N. Y. Pal. N. Y.	2 8, pt. I	.... 222	35	16-19
	1842	Type.	<i>H. & C.</i> " .. <i>Hall.</i>	Pal. N. Y. St. G. N. Y.	I I	128 128	32B 32C	2a, g-k 2n, o
	1842	"	" " "	" "	I	128	32B	2e, f
	1842	"	" " "	" "	I	128	32C	2m, p, s
	1842	Fig'd.	" ? .. <i>H. & C.</i>	St. G. N. Y. Pal. N. Y.	2 8, pt. I	.... 222	34 5A	33, 34 9, 10
H. R.	1842	Gen. and Sp. Type.	" .. <i>Hall.</i> <i>H. & C.</i> " .. <i>Hall.</i> <i>H. & C.</i>	St. G. N. Y. " " " Pal. N. Y. St. G. N. Y. " " " Pal. N. Y. " " " Pal. N. Y.	2 2 II 2 II 2 II 8, pt. I	.... 35 266 35 266 35 266 198	.... 35 10 3, .. 3, .. 10 I, .. 5A	20, int. d.v. 10, .. 3, .. 3, .. 10 I, .. I, ..
	1842	"	Hemipronites Pander. <i>apicalis</i> ..	St. G. N. Y. Pal. N. Y.	2 8, pt. I	.... 198	34 5A	33, 34 9, 10
H. R.	898	Fig'd.	Leptæna Dalman	.....	.....	.....	.....	.....
	898	"	<i>alternata</i> ..	.....	.....	.....	.....	.....
	898	"	<i>alternistriata</i> ..	.....	.....	.....	.....	.....
	898	"	<i>camerata</i> ..	.....	.....	.....	.....	.....
	898	"	<i>deflecta</i> ..	.....	.....	.....	.....	.....
	898	"	<i>deltoidea</i> ..	.....	.....	.....	.....	.....
	898	"	<i>filitecta</i> ..	.....	.....	.....	.....	.....
	898	"	<i>planoconvexa</i> ..	.....	.....	.....	.....	.....
	898	"	<i>planumbona</i> ..	.....	.....	.....	.....	.....
	898	"	<i>recta</i> ..	.....	.....	.....	.....	.....
Tr.	898	"	<i>sericea</i> ..	.....	.....	.....	.....	.....
	898	"	<i>subtenta</i> ..	.....	.....	.....	.....	.....
	898	"	<i>tenuistriata</i> (<i>Sow.</i>).. <i>Hall.</i>	Pal. N. Y. " " "	I I	108 108	31A 31A	4a, b, e-g 4d, ext.
	898	"	" " "	St. G. N. Y.	2	....	38	12, int.
	898	"	<i>H. & C.</i> " .. <i>(Sow.)</i> .. <i>Hall</i>	Pal. N. Y. St. G. N. Y.	8, pt. I 2	276	8 38	13-15
	898	"	<i>H. & C.</i> " .. <i>Hall</i>	" " " Pal. N. Y.	II 8, pt. I	.... 276	13 8	1, 2 13-15
	898	"	<i>sp. ?</i> .. <i>Whitfield</i> .	A. M. N. H.	I	302	24	6, ext.
	898	"	Leptobolus Hall.	N. Y. S. M.	24	227	7	17
	898	Type.	<i>insignis</i> .. <i>Hall</i> .	St. G. N. Y.	II	....	3	8
	898	"	<i>H. & C.</i> " .. <i>Hall</i>	Pal. N. Y.	8, pt. I	73	3	3

LOCALITY.	REMARKS.
Lewis Co., N. Y.	As <i>Lingula</i> . " " Individual with broken cardinal area.
" "	As <i>Orthis</i> . An entire individual from Dry Sugar River. " "
Lewis Co., N. Y. Middleville, N. Y.	Gen. type. Entire indiv. from Dry Sugar Riv. Figs. are not enl. As <i>Orthis</i> . Imbedded ventral valve and detached individual.
	" " " " " "
Mineral Pt., Wis. Cincinnati, O.	Detached, entire individual. Ventr. valve retaining ovarian markings. Beak imperf.
" "	Four individ. One is very large, with margin broken.
" "	Three individuals. Two are somewhat imperfect.
" "	As types of <i>Orthis subjugata</i> . Five individuals.
As <i>Orthis</i> .	
Savannah, Ill. Cincinnati, O.	Small, entire, probably young. As <i>Orthis</i> . Entire, perfect, adult. See also <i>Hebertella sinuata</i> .
Cincinnati, O.	" " Small, entire individ. and a large one, somewhat crushed.
" "	" " Large, distorted individ. and two large opposite valves.
Cincinnati, O.	" " <i>occidentalis</i> ? An entire individual doubtfully referred to this species.
Lebanon, O.	As <i>Orthis occidentalis</i> . Made generic type. A large dorsal valve.
Cincinnati, O.	As <i>Orthis occidentalis</i> . Made generic type. A large ventral valve.
	See <i>Polytachia</i> .
	See <i>Rafinesquina</i> . " " " " " <i>Plasiomys</i> . " <i>Rafinesquina</i> . " <i>Strophomena</i> . " " " " " <i>Plasiomys deflecta</i> . " <i>Plectambonites</i> . " <i>Strophomena</i> .
Cincinnati, O. Carlisle, Pa.	A small ventral valve and an entire individual of medium size. Ventral valve, imbedded.
Oxford, O.	As <i>Strophomena</i> . A small dorsal valve.
Lebanon, O. Fort Cassin, Vt.	As <i>Strophomena</i> . An entire adult. All the figures are from one individual. Ventral valve, imbedded.
Utica, N. Y.	Local. is incorrect in explanation of plates, and degree of enl. is X 6.

Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			Lingula Bruguière.					
Tr.	674	Type.	æqualis..... Hall.	Pal. N. Y.	I	95	30	3a, b
"	673	Fig'd.	attenuata (<i>Sow.</i>)? Hall.	" "	I	94	30	1a, b
U.	⁶⁷⁸ ₂	Type.	curta Conrad.	J. A. N. S.	8	266	15	12
				Hall.				
Tr.	⁶⁷⁶ ₁	Fig'd.	" (<i>Con.</i>) Hall.	Pal. N. Y.	I	97	30	6a
"	678	Type.	obtusa..... Hall.	" "	I	97	30	6b
			quadrata.....					
H. R.	1121	Fig'd.	rectilateralis (<i>Con.</i>) Hall.	Pal. N. Y.	I	285	79	1a, d.? v.
Tr.	680	Type.	riciniformis Hall.	" "	I	95	30	2a-c
H. R.	1096	Gen. and Sp. Type.	Lingulops Hall.					
			Whitheldi..... Hall.	N. Y. S. M.	23	245	13	1, 2
			H. & C.	St. G. N. Y.	II	234	1	18, 19
			"	Pal. N. Y.	8, pt. I	18	2	27-29
H. R.	1096	Gen. and Sp. Type	" (Hall) H. & C.	St. G. N. Y.	II	234	1	20
			"	Pal. N. Y.	8, pt. I	18	2	30
			Orbicula Cuvier.					
			? deformata.....					
			? filosa.....					
			lamellosa.....					
			? subtruncata.....					
			terminalis.....					
Tr.	684	Type.	Orbiculoidea d'Orbigny.					
			lamellosa..... Hall.	Pal. N. Y.	I	99	30	10a, b
			H. & C.	" "	8, pt. I	....	4E	^{12, ext. d.} v. X 2
H. R.	1342	Type.	Orthis Dalman.					
			<i>bellarugosa</i>	Am. P. F.	2d ed.	296	....	....
			<i>cincinnatensis</i> S.A. Miller	Am. J. Sci.	48	295	....	....
			Hall.	Pal. N. Y.	I	20	4 bis	4a, b
Ch.	528	"	<i>costalis</i> Hall.	St. G. N. Y.	2	....	34	35-38
			H. & C.	Pal. N. Y.	8, pt. I	22I	5	15-17
			<i>costata</i>					
			<i>disparilis</i>					
			<i>ella</i>					
			<i>emacerata</i>					
			<i>erratica</i>					
			<i>evadne</i>					
			<i>fissicosta</i>					
			<i>insculpta</i>					
			<i>Macleodi</i>					
			<i>occidentalis</i>					
			<i>pectinella</i>					
			" var. <i>semiovalis</i> .					
			<i>perveta</i>					
			<i>phicatella</i>					
			<i>sinuata</i>					
			<i>subequata</i>					
			<i>subjugata</i>					
			<i>subquadrate</i>					
			<i>testudinaria</i>					
Tr.	911	Fig'd.	<i>tricenaria</i> Conrad.	P. A. N. S.	I	333	....	....
			Hall.	Pal. N. Y.	I	119	32	4a-d
"	⁶⁹¹ ₁	"	" (<i>Con.</i>)..... Hall.	" "	I	12I	32	8a, c
"	⁶⁹¹ ₂	"	" " " " " H. & C.	Geol. Wis.	I	42	....	8, 9
				St. G. N. Y.	2	....	35	I-5
				" "	II	....	9	4, 5, 7
				Pal. N. Y.	8, pt. I	193	5	9-12, 14

LOCALITY.	REMARKS.
Middleville, N. Y. " " " " " " " " " "	A dorsal and a ventral valve, imbedded. First figure combined from two indiv. Second a large vent. valve.
Carlisle, Penn. Middleville, N. Y. " " " " " " " " " "	Imbedded valve. " " " " " " " " " "
Lorraine, N. Y. Middleville, N. Y. " " " " " " " " " "	Two dorsal valves, imbedded. Two unfig'd spec. are in type series. See <i>L. rectilateralis</i> and <i>Dignomia quadrata</i> . As <i>L. quadrata</i> , Eichw. Exfol. dorsal ? valve, imbedded. Three ventral valves, imbedded.
Maquoketa Creek, Ia. " " " " " " " " " "	A ventral valve and imprint of two other ventral valves in same block. Locality is 12 miles N. W. of Dubuque. Figure may have been made from an impression of this specimen, which is an internal cast of dorsal valve.
Maquoketa Creek, Ia. " " " " " " " " " "	See <i>Stenotheca dubia</i> . " <i>Schizocrania</i> . " <i>Orbiculoidea</i> . " <i>Pholidops</i> . " <i>Trematis</i> .
Middleville, N. Y. " " " " " " " " " "	As <i>Orbicula</i> . Dorsal valve, imbedded, somewhat crushed.
Cincinnati, O. " " " " " " " " " "	See <i>Hebertella</i> . As type of <i>O. costata</i> , preoccupied. Entire.
Chazy, N. Y. " " " " " " " " " "	Imprints of 4 valves, 2 dorsal and 2 ventral. Two retain some shell. See <i>O. cincinnatensis</i> . " " <i>tricenaria</i> . " <i>Plectorthis sordida</i> . " <i>Dalmanella</i> . " <i>Zygospira</i> . " <i>Dalmanella</i> . " <i>Plectorthis</i> . " <i>Hebertella</i> . " <i>Dalmanella</i> . " <i>Hebertella</i> . " <i>Dinorthis</i> . " " " " <i>Dalmanella</i> . " <i>Plectorthis</i> . " <i>Hebertella</i> . " <i>Dalmanella</i> . " <i>Hebertella</i> . " <i>Plasiomys</i> . " <i>Dalmanella</i> . As type of <i>O. disparilis</i> . " <i>O. disparilis</i> , Con., but is young of <i>O. tricenaria</i> .
Mineral Pt., Wis. Middleville, N. Y. " " " " " " " " " "	An entire individual and an imbedded ventral valve.
Mineral Pt., Wis. " " " " " " " " " "	An entire individual, a dorsal and two ventral valves.

Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Tr.	710	Type.	<i>Parastrophia</i> H. & C. <i>hemicipata</i> <i>Hall.</i>	Pal. N. Y.	I	144	33	10a-f
H. R.	1120	"	<i>Pholidops</i> Hall. <i>subtruncata</i> <i>Hall.</i>	" " N. Y. S. M.	I 24	290 221	79 7	7a, b 9, encl. x 4
				<i>H. & C.</i>	Pal. N. Y.	8, pt. I	41	19, encl. x 4
Tr.	689	"	<i>trentonensis</i> <i>Hall.</i>	N. Y. S. M.	I 24	221	7	8, d. v. x 4
				<i>H. & C.</i>	Pal. N. Y.	8, pt. I	157	41 17, "
"	921	Type.	<i>Pläsiomys</i> H. & C. <i>deflectus</i> (<i>Con.</i>) <i>Hall.</i>	Pal. N. Y.	I	113	31B	5a-c, & one notnumb'd
"	920	Fig'd.	" <i>Con.</i>	P. A. N. S.	I	332	.....
H. R.	913	Gen. and Sp. Type.	<i>subquadratus</i> <i>Hall.</i>	Pal. N. Y.	I	113	31B	6a, b
				" "	I	126	32A	1a-n
				Geol. Wis.	I	54	ct. 10	I, 2
"	923	Fig'd.	<i>Platystrophia</i> King. <i>biforata</i> <i>Schlotheim</i> ,	Pal. N. Y.	I	133	32D	1a-g
"	693	"	var. <i>lynx</i> (<i>Eichw.</i>) <i>H.</i>	" "	I	133	32D	1k-1U
Tr.	704	Fig'd.	<i>Plectambonites</i> Pander. <i>sericea</i> (<i>Sow.</i>) <i>Hall.</i>	" "	I	110	31B	2a-f
H. R.	704	"	" "	Geol. Wis.	I	42	...	17 d. v.
Tr.	704	"	" "	Pal. N. Y.	I	287	79	3a-b
				St. G. N. Y.	2	...	46	25-29
				<i>H. & C.</i>	" "	II	19	4-7
H. R.	4490	Type.	<i>Plectorthis</i> H. & C. <i>fissicosta</i> <i>Hall.</i>	Pal. N. Y.	8, pt. I	....	15	25-29
"	695	Gen. and Sp. Type.	<i>plicatella</i> <i>Hall.</i>	" "	I	121	32	7a, b
"	1354	Type.	? <i>sordida</i> <i>Hall.</i>	" "	I	122	32	9a-g
"	1080	Fig'd.	" "	Geol. Wis.	I	148	33	16, d. ? v.
Ft. C.	444	Gen. and Sp. Type.	<i>Polytoechia</i> H. & C. <i>apicalis</i> <i>Whitfield</i>	N. Y. S. M.	I 13	121	....
				" "	I 15	158	2	6-8
				St. G. N. Y.	8	44	...	
				" "	II	275	8	16-18
				<i>H. & C.</i>	Pal. N. Y.	8, pt. I	239	7A 28-30
"	505	Type.	<i>Protorthis</i> H. & C. <i>cassinensis</i> <i>Whitfield</i> .	A. M. N. H.	I	178	4	1, 2
"	506	"	<i>minima</i> <i>Whitfield</i> .	" "	I	178	4	3, 4
Tr.	714	Type.	<i>Protozyga</i> H. & C. <i>exigua</i> <i>Hall.</i>	Pal. N. Y.	I	141	33	6a-d
				<i>H. & C.</i>	St. G. N. Y.	I 13	810	40 4, 5
				" "	Pal. N. Y.	8, pt. 2	149	54 47, 48
"	697	Fig'd.	<i>Rafinesquina</i> H. & C. <i>alternata</i> (<i>Con.</i>) <i>Hall.</i>	Pal. N. Y.	I	102	31	1a, e
"	697	"	" "	" "	I	102	31	1c-d, h
H. R.	697	"	" "	" "	I	102	31	g, ext. v.
"	"	"	" "	Geol. Wis.	I	54	ct. 10	6, "
"	"	"	" "	Pal. N. Y.	I	102	31	1i-m*
Tr.	697	"	" "	" "	I	102	31A	1a-c
"	697	"	" "	" "	I	102	31A	1e-d, v.
H. R.	697	"	" "	" "	I	286	79	2a, c, f*
"	"	"	" "	" "	I	286	79	2g-i

LOCALITY.	REMARKS.
Middleville, N. Y.	As <i>Atrypa</i> . Three entire individuals.
.....	As <i>Orbicula</i> ?
Lorraine, N. Y.	A group of individuals, imbedded. Probably not a true <i>Pholidops</i> .
Middleville, N. Y.	Dorsal valve, imbedded.
Mineral Pt., Wis.	As <i>Leptæna</i> . Probably Conrad's type specimen with figs. enlarged.
.....	As type of <i>Strophomena recta</i> .
Mineral Pt., Wis.	As <i>Leptæna recta</i> Con., but really is a young <i>P. deflectus</i> . Entire.
.....	As <i>Orthis</i> . " "
Cincinnati, O.	Generic name proposed. Four individuals and a large ventral valve.
Middleville, N. Y.	As <i>Delthyris</i> . Four small, entire individuals.
Cincinnati, O.	" " Fourteen small to very large individuals.
.....	As <i>Leptæna</i> . " " Two individuals and two dorsal valves. " " Two interior imprints dorsal valves. " "
Mineral Pt., Wis.	An entire individual and two opposite detached valves.
Cincinnati, O.	As <i>Orthis</i> . Entire, somewhat crushed.
" "	" " Four individuals ranging from very small to large.
" "	" <i>Atrypa</i> . Entire, small. " type of <i>Orthis ella</i> . " " ? " Two entire individuals.
.....	As <i>Hemipronites</i> . Made type of genus <i>Waagenia</i> , but name was preoccupied. " " <i>Polytachia</i> .
Fort Cassin, Vt.	Two ventral valves imbedded separately.
.....	Two individuals ? imbedded. " " "
Lewis Co., N. Y.	As <i>Atrypa</i> . Three entire individuals.
Watertown, N. Y.	A large entire individual.
.....	As <i>Leptæna</i> . Two ventral valves imbedded. " " A dorsal and two ventral valves, imbedded. " "
Cincinnati, O.	" <i>Strophomena</i> . Very large individual, imbedded. " <i>Leptæna</i> . Two imperfect individuals and a large ventral valve. " " Two entire individuals of medium size. " " Dorsal valve, imbedded. " " Three ventral valves, imbedded. " " Three interior casts of ventral valves, one imbedded. " " An imperfect imbedded valve and two internal casts of ventral valves retaining some shell.
Watertown, N. Y.	
Middleville, N. Y.	
Near Pulaski, N. Y.	

Class BRACHIOPODA—*Continued.*

LOCALITY.	REMARKS.
.....	As <i>Strophomena</i> .
Cincinnati, O.	Made generic type of <i>Rafinesquina</i> . A large individual and two large opposite valves.
" "	As <i>Leptana</i> . Imbedded ventral valve and two large free individuals. Figs. 1a and 1b were not made from the same specimen.
Trenton Falls, N. Y.	As <i>Leptana</i> . Ventral valve, imbedded. See also <i>R. deltoidea</i> . Catalogue name.
.....	" <i>Strophomena</i> .
.....	" "
.....	" "
.....	" <i>Leptana</i> .
Middleville, N. Y.	Exterior imprint ventral valve on slab with fig. 3d, pl. 31A.
Trenton Falls, N. Y.	As <i>Leptana</i> . Prob. is <i>R. camerata</i> , but d.v. and card. area do not show.
Watertown, N. Y.	" " " <i>incrassata</i> Safford.
Middleville, N. Y.	" " Ventral valve on slab with fig. 4, pl. 9A.
Mineral Pt., Wis.	" <i>Strophomena</i> . Entire, margin broken since figure was made.
.....	" "
Platteville, Wis.	Entire individual.
.....	As <i>Strophomena</i> .
Mineral Pt., Wis.	Dorsal valve, imbedded.
.....	As <i>Strophomena</i> .
Near Nashville, Tenn.	A dorsal valve. The figure is of cardinal process X 3.
.....	As <i>Strophomena</i> .
Near Nashville, Tenn.	An entire individual. Figure shows cardinal area X 3.
.....	As <i>Strophomena</i> .
Dodgeville, Wis.	Internal cast of ventral valve.
.....	
Oxford, O.	As type of <i>Atrypa increbescens</i> . Five entire individuals.
.....	" <i>Atrypa increbescens</i> . A very gibbous individual and a ventral valve of medium size.
Iron Ridge, Wis.	As <i>Atrypa</i> . Entire, rather small.
Cincinnati, O.	" "
Middleville, N. Y.	Four entire individuals.
" "	As <i>Orbicula?</i> Two imbedded dorsal valves and two imbedded individuals retaining shell.
Cincinnati, O.	Internal cast dorsal valve on a <i>Rafinesquina alternata</i> .
.....	As <i>Trematis</i> .
Clifton, Tenn.	Internal cast retaining some shell. From the hydraulic beds.
.....	See <i>Strophomena nutans</i> and <i>S. Winchelli</i> .
.....	" "
.....	" "
.....	" "
.....	" <i>Billingsella</i> .
.....	" <i>Rafinesquina</i> .
.....	" "
.....	As <i>Leptana</i> .
.....	" <i>Streptorhynchus</i> .
Middleville, N. Y.	Two entire individuals, one used for the enlargement only.
.....	As <i>Leptana</i> .
Middleville, N. Y.	Ventral valve, imbedded.
.....	As <i>Streptorhynchus</i> .
Mineral Pt., Wis.	Two ventral valves, one imbedded.

Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.
				Work. Vol. P. Pl. Figs.
			Strophomena Raf.(Bl.)— <i>Cont.</i>	
Tr.	702 4	Type.	<i>filitexta</i> <i>Hall.</i>	St. G. N. Y. 2 ... 39 3, int.
			.....<i>H. & C.</i>	Pal. N. Y. 8, pt. I 251 9 3, "
H. R.	702 12	"	"	St. G. N. Y. 2 ... 42 12, 13
			.....<i>H. & C.</i>	Pal. N. Y. 8, pt. I 251 9A 12, 13
"	442 3	Fig'd.	<i>nutans</i> (<i>James</i>)	St. G. N. Y. 2 ... 39 II, card.
			.....<i>Hall.</i>	Pal. N. Y. 8, pt. I 251 9 II, "
"	"	"	.....<i>H. & C.</i>	St. G. N. Y. 2 ... 42 5, d. v.
"	442 2	"	.....<i>(James)</i>	Pal. N. Y. 8, pt. I 251 9A 5, "
			.....<i>H. & C.</i>	St. G. N. Y. 2 ... 42 6, int.
"	912 12	Type.	<i>planoconvexa</i>	Pal. N. Y. 8, pt. I 251 9A 6, "
	"	"	.....<i>Hall.</i>	..... " 1 114 31B 7a, c, d
			.....<i>H. & C.</i>	St. G. N. Y. 2 ... 39 19, 20
"	918 3	"	<i>planumbona</i>	Pal. N. Y. 8, pt. I 251 9 19, 20
			.....<i>Hall.</i>	..... " 1 112 31B 4a-c, e
"	918 4	"	..... " .....	..... " 1 112 31B 4d, int.
			.....<i>H. & C.</i>	Geol. Wis. 1 54 ct. 10 7, "
"	918 4	"	..... " .....	St. G. N. Y. 2 ... 42 8
			.....<i>H. & C.</i>	..... " 11 16 4
"	"	"	.....<i>Hall.</i>	Pal. N. Y. 8, pt. I 251 9A 8
			.....<i>H. & C.</i>	St. G. N. Y. 2 ... 39 16, 17
"	922 2	Fig'd.	..... " .....	..... " 11 16 2, 3
			.....<i>Hall.</i>	Pal. N. Y. 8, pt. I 251 9 16, 17
			<i>subtenta</i> (<i>Conrad</i>) .....	..... " 1 115 31B 9a, b
Tr.	701a 1	Type.	<i>tenuistriata</i>	
			<i>Winchelli</i>	<i>H. & C.</i>
			.....<i>Hall.</i>	Pal. N. Y. 8, pt. I 344 9 IO, 14
"	701a 2	"	..... " (<i>H. & C.</i>)	St. G. N. Y. 2 ... 39 IO, 14
			.....<i>Hall.</i>	St. G. N. Y. 2 ... 39 12, int.
"	701a 3	"	..... " (<i>H. & C.</i>)	Pal. N. Y. 8, pt. I 344 9 12, "
			.....<i>H. & C.</i>	20 26
Ft. C.	442	Gen. and Sp. Type.	Syntropbia Hall.	St. G. N. Y. 2 ... 39 13, int.
			<i>lateralis</i>	Pal. N. Y. 8, pt. I 344 9 13, "
			<i>Whitfield</i> .	
			.....<i>H. & C.</i>	A. M. N. H. 1 303 24 9-II
			..... "	St. G. N. Y. 13 836 45 7-9
				Pal. N. Y. 8, pt. 2 216 62 1, 2, 6
H. R.	1886 2	Type.	Trematis Sharpe.	
			<i>millepunctata</i>	<i>Hall.</i>
			.....<i>H. & C.</i>	N. Y. S. M. 24 221 7 22-24
"	"	"	..... "	St. G. N. Y. 11 ... 6 2-4
"	"	"	..... "	Pal. N. Y. 8, pt. I 142 4G 6-8
			..... "	..... 8, pt. I 142 4G 4, int. x 2
			..... "	St. G. N. Y. 11 ... 6 5, int. x 1, 5
			..... "	Pal. N. Y. 8, pt. I 142 4G 9, "
Tr.	1335	"	<i>punctostriata</i>	N. Y. S. M. 23 243 13 17, v. x 2
			.....<i>H. & W.</i>	Pal. N. Y. 8, pt. I 142 4G II,
H. R.	1334	"	? <i>pustulosa</i>	N. Y. S. M. 24 222 ...
			<i>Hall.</i>	
Tr.	885 885 1	Fig'd.	<i>rudis</i>	Pal. N. Y. 1 100 30 IIa, b.
			.....<i>Hall.</i>	..... " 1 100 30 IIc, side
			<i>terminalis</i> (<i>Con.</i>)	
"	"	"	..... " .....	Pal. N. Y. 1 143 33 8a-c
			.....<i>Hall.</i>	..... " 1 143 33 9
"	712	Type.	Triplecia Hall.	
			<i>ambigua</i> "
"	"	"	..... " .....	..... " 1 143 33 1a, ext. v. v.
"	711 and G.T.	Fig'd Sp. and G.T.	<i>extans</i> (<i>Conrad</i>) "
			.....<i>H. & C.</i>	St. G. N. Y. 11 ... 18 4, card.
"	"	"	..... "	Pal. N. Y. 8, pt. I 269 IIc 5, "
			.....<i>Hall.</i>	..... " I 145 33 IIa-d
			<i>(Conrad)</i>	

LOCALITY.	REMARKS.
Platteville, Wis.	As <i>Streptorhynchus</i> . A dorsal valve, imbedded.
Cincinnati, O.	As <i>Streptorhynchus</i> . Entire individual.
Lebanon, O.	As <i>Streptorhynchus</i> (<i>Strophonella</i> ?) <i>deltoides</i> Con. Entire individual.
Lebanon, O.	As <i>Streptorhynchus</i> (<i>Strophonella</i>) <i>deltoides</i> Con. Entire individual.
Oxford, O.	As <i>Streptorhynchus</i> (<i>Strophonella</i>) <i>deltoides</i> Con. Ventral valve.
Cincinnati, O.	As <i>Leptena</i> . Entire. " <i>Streptorhynchus</i> .
Cincinnati, O.	Entire individual of medium size. As <i>Leptena</i> . Two individuals of medium size. " "
Cincinnati, O.	A ventral valve of medium size. As <i>Streptorhynchus</i> .
Lebanon, O.	A dorsal valve of medium size. Figure represents hinge \times 2. As <i>Streptorhynchus</i> .
Lebanon, O.	A dorsal valve and a rather large ventral valve. The latter is ticketed "Cincinnati, O." As <i>Leptena</i> . A dorsal valve. See <i>Leptena</i> . Locality incorrect in explanation of plate.
Mineral Pt., Wis.	As <i>Streptorhynchus</i> (<i>Strophonella</i> ?) <i>deltoides</i> Con. Imbedded. " " " " " "
Janesville, Wis.	A dorsal valve imbedded. Last figure is an enlargement \times 3. As <i>Streptorhynchus</i> (<i>Strophonella</i> ?) <i>deltoides</i> Con.
Clifton, Wis.	A ventral valve imbedded.
Fort Cassin, Vt.	As <i>Triplecia</i> . Made generic type. Internal imprint of dorsal valve and of ventral valve with some shell.
Cincinnati, O.	Internal cast retaining some shell. All figures enlargements \times 2. " "
" ? "	A dorsal valve imbedded so as to show the interior. Rather large dorsal valve imbedded.
Clifton, Tenn.	Dorsal valve preserving much shell. From the hydraulic beds.
Near Horicon, Wis.	Internal cast retaining fragments of the shell. See <i>Schizocrania</i> .
Lowville, N. Y.	As <i>Orbicula</i> . A detached and an imb. indiv., each with some shell. Middleville, N. Y.
" "	" " Detached individual.
" "	As <i>Atrypa</i> . Entire. " " Four individuals imbedded in one block.
" "	" " Ventral valve imbedded.
Middleville, N. Y.	" " Generic type of <i>Triplecia</i> . Dorsal valve showing cardinal process. As <i>Atrypa</i> sp. ? Entire, young.

Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Tr.	711 8	Fig'd Sp. and G. T.	<i>Triplecia</i> Hall—Continued. <i>extans</i> (<i>Conrad</i>)..... <i>Hall.</i> Pal. N. Y. I 138 33* 1a-d <i>H.</i> & <i>C.</i> St. G. N. Y. II ... 18 1, 2 " " " Pal. N. Y. 8, pt. I 269 11C I-3 " (Conrad)..... <i>Hall.</i> " " I 138 33* 1e-h <i>lateralis</i> <i>nucleus</i> <i>Hall.</i> Pal. N. Y. I 138 33 2a-c <i>radiata</i> <i>Whitfield.</i> A. M. N. H. 2 43 7 5, 6 " " " " " 2 43 7 7, <i>enl.</i> x 3 " " " " " 2 43 7 8, <i>enl.</i> x 2 <i>Triplezia</i> Hall.....					
Ca.	715	Type.	<i>Zygospira</i> Hall. <i>modesta</i> (<i>Say</i>)..... <i>Hall.</i> Pal. N. Y. I 141 33 15 " " " " " N. Y. S. M. I 154 ... " " " " " I 155 ... 1, 2					
Tr.	705 3	Type.	<i>recurvirostra</i> <i>Hall.</i> Pal. N. Y. I 140 33 5a-c (<i>s. g. Orthonomæa</i> H.)					
H. R.	708 2	Sp. and S.-gen. T.	<i>erratica</i> <i>Hall.</i> Pal. N. Y. I 288 79 5a-f " " " " " N. Y. S. M. I 2 ... " " " " " I 3 814 40 36 <i>H.</i> & <i>C.</i> St. G. N. Y. 8, pt. 2 159 54 19, 20 <i>Hall.</i> Pal. N. Y. 8, pt. 2 159 54 19, 20					

Subkingdom MOLLUSCA.

Tr.	745	Type.	<i>Ambonychia</i> Hall. <i>amygdalina</i> <i>Hall.</i> Pal. N. Y. I 165 36 6a-c					
"	930	"	<i>attenuata</i> <i>Hall.</i> Geol. Wis. 1861 33 <i>Whitfield.</i> Mem. A. M. I 59 7 8-II					
"	717 2	Gen. and Sp. Type.	<i>bellistriata</i> <i>Hall.</i> Pal. N. Y. I 163 36 4a, <i>int.</i> <i>cancellosa</i> <i>carinata</i> (<i>Goldf.</i>)..... <i>Hall.</i> Pal. N. Y. I 292 80 4a " " " " " I 292 80 4b " " " " " I 292 80 4c " " " " " I 292 80 4d, e " " " " " I 292 80 4f " " " " " I 292 80 4h, i, k " " " " " I 292 80 4j, g " " " " " I 292 80 4l " " " " " I 294 80 5a, b " " " " " N. Y. S. M. I 2 8 ... 1 " " " " " Pal. N. Y. 3 269 ... 1 " " " " " N. Y. S. M. I 2 110 ... 1, 2 " " " " " Pal. N. Y. 3 523 ... 1, 2 " " " " " Geol. Wis. I 54 ct. II 1, 2					
H. R.	928 928 928 928 928 1124 " 4	Fig'd.	<i>erecta</i> <i>Hall.</i> Mem. A. M. I 59 7 1, 2 <i>Whitfield.</i> Geol. Wis. I 437 ... <i>lamellosa</i> <i>Hall.</i> 1861 31 ... " " " " " Whitfield. Mem. A. M. I 57 7 5 " " " " " Whitfield. Geol. Wis. I 437 ... " " " " " Whitfield. Mem. A. M. I 57 7 6 " " " " " Whitfield. Geol. Wis. I 437 ... " " " " " Whitfield. Mem. A. M. I 57 7 7, <i>prof.</i>					
Tr.	931	Type.						

LOCALITY.	REMARKS.
Lowville, N. Y.	As type of <i>Atrypa cuspidata</i> . Generic type <i>Triplecia</i> . Entire, adult.
Middleville, N. Y.	As type of <i>Atrypa cuspidata</i> . Two entire individuals. See <i>Syntrophia</i> .
Beekmantown, N. Y.	As <i>Atrypa</i> . Entire, perfect. Two dorsal valves, imbedded. Two imbedded ventral valves used for figure. Ventral valve, = <i>Triplecia</i> .
Cincinnati, O.	As <i>Atrypa</i> . Made generic type. A very small and a large individual. Six specimens showing loops and spires from which the greatly enlarged figures were made.
Oxford, O.	
Martinsburg, N. Y.	As <i>Atrypa</i> . Entire.
Loose in Wayne or Monroe Co., N. Y.	As <i>Orthis</i> . Interior casts of three individuals, small to large. Proposed as type of subgen. <i>Orthonomea</i> in a supplementary note to 12th Rep't N. Y. S. M., not in the American Museum copies.
" "	Internal casts of two individuals of medium and large size.

Class LAMELLIBRANCHIATA.

Adams, N. Y.	Species probably belongs here, though referred to <i>Palearca?</i> by Hall in 12th Rep't N. Y. S. M., p. 65.
Beloit, Wis.	Two int. casts, 1 of which prob. came from Niagara gr. at Racine, Wis.
Trenton Falls, N. Y.	Left valve, imbedded. See <i>A. lamellosa</i> .
Pulaski, N. Y.	As type of <i>A. radiata</i> . External cast left valve, imbedded.
Oswego, Co., N. Y.	" " " " right " "
Pulaski, N. Y.	Exterior-int. imp. small right valve.
Turin, N. Y.	" " " " "
Pulaski, N. Y.	Interior imprint right valve.
Cincinnati, O.	Compressed ext. cast both valves.
" "	Worn exterior cast large right valve.
L. Ontario, N. Y.	Fragmentary exterior imprint of very large left ? valve.
Near Pulaski, N. Y.	External cast of both valves, found loose on south side of lake.
Lindsay's Hill, Tenn.	As <i>A. radiata</i> . Type. Very perfect internal cast right valve. Type. " " " Right valve of medium size.
Beloit, Wis.	Parts of internal casts of two right valves. Name given in catalogue.
Beloit, Wis.	As <i>A. cancellosa</i> , by mistake. Internal cast left valve, imb. Two unfigured casts are in the series.
Mineral Pt., Wis.	Name given in catalogue.
Pte. aux Baies, Wis.	Internal cast left valve. One entire internal cast, unfigured. Name given in catalogue. Internal cast, nearly entire.

Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			Ambonychia Hall—Cont.					
Ch.	536	Type.	mytiloides..... Hall.	Pal. N. Y.	I	315	33*	2a, b
Tr.	734	"	obtusa..... Hall.	" "	I	167	36	8a, b
"	716	"	orbicularis..... Hall.	" "	I	164	36	5b-d
"	922	"	planistriata..... Hall.	Geol. Wis.	1861	32		
			Whitfield.	Mem. A. M.	I	58	7	3, 4
			radiata.....					
			Avicula Klein.					
			demissa.....					
			desquamata.....					
			trentonensis.....					
			Cleidophorus Hall.					
H. R.	1362	Type.	neglectus..... Hall.	Geol. Wis.	I	55	ct 13	2, ext. l.v.
"	11	"	"....."	" "	I	55	ct 13	3, int. l.v.
"	1362	Fig'd.	"....."	Pal. N. Y.	I	150	34	lg, h
"	1126	Fig'd Sp.	planulatus (Con.).... Hall.	" "	I	300	82	9b-d
"	1126	and G.T.	"....."	" "	I	300	82	9e
			Cypricardites Conrad.					
Tr.?	730	Type.	islandicus (Hall.).... Miller	Am. P. F.	....	189	....	....
			Hall.	N. Y. S. M.	12	10	....	1-3
			"....."	Pal. N. Y.	3	271	....	1-3
Tr.	735	"	lata..... Hall.	" "	I	160	35	10a, l.v.
"	940	"	niota..... Hall.	Geol. Wis.	1861	29		
			"....."	" "	I	38	ct. 4	8, int. l.v.
"	942	"	rectirostris..... Hall.	Mem. A. M.	I	54	6	17-20
"	942	"	Whitfield.	Geol. Wis.	1861	29		
"	942	"	Whitfield.	Mem. A. M.	I	55	6	21, 22
"	942	"	(Hall.) Whitf.	" "	I	55	6	23-25
			rotundatus..... Hall.	Geol. Wis.	1861	29		
			Whitfield.	Mem. A. M.	I	38	....	7, int. r.v.
			"....."	I	53	6	13-15	
Tr. or H. R.	938	"	(Hall.) Whitf.	" "	I	53	6	16
			Saffordi..... Hall.	N. Y. S. M.	12	11	....	4, 5
Tr.	732	"	"....."	Pal. N. Y.	3	271	....	4, 5
"	731	"	subspatulatus..... Hall.	" "	I	159	35	9a, b
"	730	"	subtruncatus..... Hall.	" "	I	156	35	3a-c
			ventricosus..... Hall.	" "	I	155	35	1d-f
			Edmondia de Koninck.					
			subtruncata.....					
			ventricosa.....					
Tr.	741	Type.	Goniophora Phillips, ? carinata..... Hall.	Pal. N. Y.	I	160	35	11a, ext. r.v.
			"....."	" "	I	160	35	11b, c
			Lyrodesma Conrad.					
H. R.	747	"	poststriatum.... Emmons.	Geol. N. Y.	2d D.	399	....	4, int. l.v.
			Hall.	Pal. N. Y.	I	301	82	10b, "
Tr.	747	Fig'd.	" (Emmons) H.	" "	I	151	34	2a, b
			pulchellum.....					
			Modiolopsis Hall.					
			anodontoides..... Hall.					
Tr.	737	Type.	arcuata..... Hall.	Pal. N. Y.	I	159	35	8
"	738	"	aviculoides..... Hall.	" "	I	161	36	1a, b
			carinata.....					

LOCALITY.	REMARKS.
Chazy, N. Y. Watertown, N. Y. " "	Imprint of interior of left valve. Internal cast of individual. " " left valve. Figs. 5b and c are evid. of the same indiv. but the striae rep. in 5d are not on orig. of 5b, as stated in expl. of pl.
Mineral Pt., Wis.	Casts of two opposite valves. See <i>A. carinata</i> .
.....	See <i>Pterinea</i> . " <i>Obolella crassa</i> . " <i>Pterinea</i> .
Sinsinawa Mnd., Wis. Near Dubuque, Ia. Mineral Pt.?, Wis.	Entire, medium size. Many others are in the series. Internal cast of individual retaining some shell. As type of <i>Vucula levata</i> . Internal cast, entire, rather large.
Turin, N. Y. Waterford, N. Y.	Imprints of left valves in shale, three specimens. Interior imprint of both valves expanded. Metamorphosed shales. Name proposed instead of <i>C. ventricosus</i> , pre-occupied.
St. Joseph's Island, L. Superior. Carlisle, Pa.	As <i>Palaearca ventricosa</i> , gen. and sp. type. Ditto. Two opposite valves and an entire individual. As <i>Modiolopsis</i> . Internal cast of individual.
Beloit, Wis. Rockford, Ill. Janesville, Wis.	Very perf. int. cast, entire, imb., and the int. cast of a left valve, imb. A very perfect internal cast in chert. Two casts in limestone, the larger very perfect; pt. of orig. type ser.
Beloit, Wis. Janesville, Wis.	Entire inter. cast of indiv., and inter. cast of right valve, imbedded. Another internal cast of right valve is in the type series. Internal cast both valves imbedded. Two others are in type series.
Nashville, Tenn. Watertown, N. Y. " "	As <i>Palaearca</i> . " " Two large opp. valves. Eight others are in the type ser. " <i>Modiolopsis</i> . Internal cast. " <i>Edmondia</i> . Internal casts of a left and of a right valve and the external cast of a left valve.
Middleville, N. Y.	As <i>Edmondia</i> . A nearly ent. indiv. and one ent., but vertic. compr. See <i>Cypricardites</i> . " "
Middleville, N. Y. " "	As <i>Modiolopsis</i> . Entire, imbedded. " " Two right valves, imbedded.
Pulaski, N. Y. Carlisle, Pa.	As <i>Nuculites</i> . " <i>Nucula</i> ? Internal cast of left valve, large. " " External cast of individual. See <i>Tellinomya</i> .
Herkimer Co., N. Y. Middleville, N. Y.	See <i>M. sinuata</i> . Cast of interior of right valve. Generic relations uncertain. " " " shell. = <i>Cypricardites</i> ? See <i>Goniophora</i> .

Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.
				Work. Vol. P. Pl. Figs.
			Modiolopsis Hall—Cont.	
H. R.	947	Type.	<i>curta</i> <i>Hall.</i>	Pal. N. Y. I 297 81 4
"	947		" "	" 297 82 2a
Tr.	947		" "	I 297 82 2b, d
"	796	Fig'd.	<i>faba (Con.)</i> <i>Hall.</i>	I 158 35 6b, ext.
"	796		" "	I 158 35 6c
"	796		" "	I 158 35 6d
H. R.	796		" "	I 298 82 4a
"	1130	Fig'd Sp. and G. T.	<i>lata</i>	
"	1130		<i>modiolaris (Con.)</i> <i>Hall.</i>	Pal. N. Y. I 294 81 1c
"	1130		" "	" 294 81 1d
"	1130		" "	I 294 81 1e
"	1130		" "	I 294 81 1f
Tr.	739	Fig'd.	<i>nasuta (Con.)</i> <i>Hall.</i>	" " I 159 35 7, ext.
U.	1063	Type.	? <i>nuculiformis</i> <i>Hall.</i>	" " I 298 82 5a
H. R.	1365	"	<i>pholadiformis</i> <i>Hall.</i>	Lake Sup. 2 213 30 1b
"	"		" "	2 213 30 1c, r. v.
Tr.	950	"	<i>plana</i> <i>Hall.</i>	Geol. Wis. 1861 30 31
"	950		" "	" 38
			<i>Whitfield.</i>	Mem. A. M. I 56 7 12, 13
H. R.	1132	Fig'd.	" (<i>Hall.</i>) <i>Whitfield.</i>	" " I 56 7 14, 15
			<i>sinuata (Emmons)</i> <i>Hall.</i>	Pal. N. Y. I 298 82 3c
Tr.	951	Type.	<i>subspatulata</i>	
			? <i>superba</i> <i>Hall.</i>	Geol. Wis. 1861 31
			<i>Whitfield.</i>	Mem. A. M. I 56 7 16-18
H. R.	1369	"	<i>terminalis</i> <i>Hall.</i>	Pal. N. Y. I 318 33* 5a, b
"	"		" "	" 297 81 5a, b
"	1370	"	<i>truncata</i> <i>Hall.</i>	" " I 318
			<i>H. & W.</i>	Pal. Ohio. 2 86 2 13, r. v.
			sp. ?	Pal. N. Y. I 297 81 5a, b
			Nucula Lamarck.	
			? <i>donaciiformis</i>	
			<i>fabula</i>	
			<i>fecunda</i>	
			<i>levata</i>	
			<i>obliqua</i>	
			<i>poststriata</i>	
			Nuculites Conrad.	
			<i>poststriatus</i>	
			Orthodesma H & W.	
H. R.	1378	Type.	<i>contracta</i> <i>Hall.</i>	Pal. N. Y. I 300 82 8a, l. v.
"	"		<i>H. & W.</i>	Pal. Ohio. 2 96 2 4, "
"	1184	"	" <i>Hall.</i>	Pal. N. Y. I 300 82 8b, card.
"	1184	"	<i>parallela</i> <i>Hall.</i>	" 299 82 7a, d
"	"		" "	" 299 82 7b, card.
			" "	I 299 82 7c
			Orthonota Conrad.	
			<i>contracta</i>	
			<i>parallela</i>	
			Palaearca Hall.	
			<i>Saffordi</i>	
			<i>ventricosa</i>	

LOCALITY.	REMARKS.
Grimsby, Ont.	Exterior-interior cast of left valve, imbedded.
Lorraine, N. Y.	" " " " "
Mineral Pt., Wis.	Entire. Lettering incorrect in explanation of plate.
Watertown, N. Y.	Right valve, imbedded.
" "	Cast of interior of left valve retaining small pieces of shell.
" "	" right " " piece "
Pulaski, N. Y.	" " " small, imbedded.
Near Pulaski, N. Y.	See <i>Cypricardites</i> . Exterior-interior imprint of a right valve.
" "	" imprint of right valve.
" "	" -interior imprint of a left valve.
Madison, Ind. Ohio.	" " " both valves expanded and somewhat crushed.
Carlisle, Pa.	Cast of interior of a young individual.
Turin, N. Y.	Imbedded right valve of very young indiv. Probably = <i>Orthodesma</i> . Cast both valves expanded, imb. In 12th Rep. N.Y.S. M. is ref. to <i>Nucula</i> or <i>Tellinomya</i> , but the spec. shows no card. teeth.
Little Bay des Noquets, Mich.	An exterior-interior imprint of a large right valve.
" "	Imperfect exterior-interior cast of a large individual.
Beloit, Wis.	Internal cast and exterior imprint of same right valve.
Mineral Pt., Wis.	Internal cast, entire. Two other casts are in the type series.
Rodman, N. Y.	As <i>M. anodontoides</i> Con. Exterior imprint both valves, expanded. See <i>Cypricardites</i> .
Beloit ?, Wis.	Two exterior-interior casts both valves, nearly perfect. = <i>Orthodesma</i> ?
Cincinnati, O.	Internal cast, entire, somewhat worn.
Cincinnati, O.	As <i>M. sp.?</i> Referred here to this species. Imperfect internal cast.
" "	Internal cast, entire, somewhat compressed. See <i>M. terminalis</i> , Hall.
	See <i>Tellinomya</i> . " " " " " <i>levata</i> , <i>T. fecunda</i> and <i>Cleidophorus neglectus</i> . " <i>Tellinomya</i> . " <i>Lyrodesma</i> .
	" "
Cincinnati, O.	As <i>Orthonota</i> . Exterior-interior cast of individual.
" "	" " " " " "
Pulaski, N. Y.	" " Worn internal cast of small individual. " " Imperfect internal cast, imbedded. " " Imbedded external cast left valve.
	See <i>Orthodesma</i> . " "
	= <i>Cypricardites</i> . See " " " " <i>islandicus</i> .

Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
H. R.	I 123	Fig'd.	Pterinea Goldfuss. demissa (<i>Con.</i>) <i>Hall.</i> <i>trentonensis</i> (<i>Con.</i>) <i>Hall.</i>	Pal. N. Y.	I	292	80	2b, ext.
Tr.	719	"		" "	I	161	36	2b-d
"	728	Type.	Tellinomya Hall. <i>alta</i> <i>Hall.</i> <i>Whitfield</i> " (<i>Hall.</i>) <i>Whitfield</i>	Geol. Wis.	1861	27		
"	728	"		Mem. A. M.	I	50	6	5, I. v.
				" "	I	50	6	6-8
Tr.	721	Type.	<i>anatiniformis</i> <i>cuneata</i>					
"	726	"	<i>donaciformis</i> <i>Hall.</i> <i>dubia</i> <i>Hall.</i>	Pal. N. Y.	I	316	33*	3a, b
H. R.	I 361	"	? <i>fabula</i> <i>Hall.</i> <i>fecunda</i> <i>Hall.</i>	" "	I	153	34	6a-d
"	1860	"	" "	Am. J. Sci.	48	295		
"	1860	Fig'd.		Geol. Wis.	I	55	ct-13	I, r. v.
Tr.	725	Type.	<i>gibbosa</i> <i>Hall.</i>	Pal. N. Y.	I	150	34	II, I. v.
"	"	Fig'd.	" "	" "	I	153	34	5a, b
"	937	Type.	<i>inflata</i> <i>Hall.</i>	Geol. Wis.	1861	26		
				" "	I	38		4, 5
"	724	"	<i>Whitfield</i>	Mem. A. M.	I	49	6	10-12
"	724	Gen. and Sp. Type.	<i>levata</i> <i>Hall.</i>	Pal. N. Y.	I	150	34	1c-e, k
			<i>nasuta</i> <i>Hall.</i>	" "	I	152	34	3a, ext.
"	"	"	" "	Geol. Wis.	I	38		I, "
H. R.	1968	Type.	? <i>nuculiformis</i> <i>Hall.</i>	Pal. N. Y.	I	152	34	3b, c
"	I 362	"	? <i>obliqua</i> <i>Hall.</i>	" "	I	298	82	5b
Tr.	936	"	<i>ovata</i> <i>Hall.</i>	Am. J. Sci.	48	294		
				Geol. Wis.	1861	28		
U.	1064	"	<i>pulchella</i> <i>Hall.</i>	Mem. A. M.	I	52	6	9
H. R.	II 27	"	" "	Pal. N. Y.	I	302	82	12a, b
Tr.	722	"	<i>sanguinolarioidea</i> <i>Hall.</i>	" "	I	302	82	12c, d
"	935	"	<i>ventricosa</i> <i>Hall.</i>	" "	I	152	34	4a, b
				Geol. Wis.	1861	27		
				" "	I	38		3, int. r. v.
				Mem. A. M.	I	51	6	I-4

Class GASTROPODA.

Tr.	781	Fig'd.	Bellerophon Montfort. <i>bilobatus</i> (<i>Sow.</i>) <i>Hall.</i>	Pal. N. Y.	I	184	40	3a, b
H. R.	781	"	" " "	Geol. Wis.	I	39		7
Tr.	783	Type.	" var. <i>acutus</i> <i>Hall.</i>	Pal. N. Y.	I	307	83	9a, c, d
"	782	"	" " " <i>corrugatus</i> "	" "	I	185	40	4a, b
"	"	"?	" " "	" "	I	185	40	5a, b
Ft. C.	471	"	<i>cassinensis</i> <i>Whitfield</i> ,	A. M. N. H.	I	318	26	8, 9
Tr.	787	"	Bucania Hall. <i>bidorsata</i> <i>Hall.</i>	Pal. N. Y.	I	186	40	8a, b
"	787	"	" "	Geol. Wis.	I	39		6
Ch.	569	"	<i>champlainensis</i> <i>Whitf.</i>	Pal. N. Y.	I	186	40	8c-g
Tr.	786	"	<i>expansa</i> <i>Hall.</i>	A. M. N. H.	9	181	4	14-16
				Pal. N. Y.	I	186	40	7a-c
				Geol. Wis.	I	40		1

LOCALITY.	REMARKS.
Near Rome, N. Y. Middleville, N. Y.	As <i>Avicula</i> . Exterior imprint of a left valve. " " A right and two left valves, imbedded. The spec. desig. by Prof. Hall as the orig. of the last fig. is not exactly like it.
Dodgeville, Wis. Mineral Pt., Wis. Middleville, N. Y. " " Cincinnati, O. Scales' Mound, Ill. Mineral Pt., Wis. Middleville, N. Y. " "	Internal cast of both valves, entire. Entire internal cast. Figs. 6 and 7 are enlargements. Several other internal casts from these localities and Beloit are in the type series. See <i>Pterotheca anatiformis</i> . " <i>T. nasuta</i> . As <i>Nucula</i> ? Slickensided internal cast both valves. Two entire individuals and a left valve. See <i>T. gibbosa</i> , also. As <i>Nucula</i> . Several minute internal casts form the series. " " (<i>Tellinomya</i>). Exterior-interior cast, entire. " type of <i>Nucula levata</i> . Internal cast, entire. Internal cast of both valves. As type of <i>T. dubia</i> . Right valve, imbedded.
Mineral Pt., Wis. Middleville, N. Y. " " " " Waterford, N. Y. Cincinnati, O.	Individual, nearly perfect. As <i>Nucula</i> . Internal casts of three individuals. " <i>T. cuneata</i> by mistake. Right valve, imbedded. Internal cast of individual. As <i>Modiolopsis</i> ? External cast small right valve. " <i>Nucula</i> . Several minute casts are in the series.
Beloit, Wis. Near Watertown, N. Y. Waterford, N. Y. Middleville, N. Y. Beloit, Wis.	Internal cast right valve, imbedded. As <i>Lyrodesma</i> . Exterior-interior cast, imbedded. " " Internal cast from the metamorphic shale. Internal cast of individual. Internal casts of two opposite valves, of a small individual and of a large one. Five other internal casts from this locality and one from near Dubuque, Ia., are in the series.
Middleville, N. Y. Pulaski, N. Y. Middleville, N. Y. " " " " " " Fort Cassin, Vt. Middleville, N. Y. Watertown, N. Y. Valcour Island, Vt. Watertown, N. Y.	Internal cast. Two internal casts. The figures should have been lettered 9a, b, c. Imbedded individual. Free. A plaster cast of a very perfect individual. Imbedded. Uncertain whether this or a specimen in the N. Y. State Museum, in Albany, is the one illustrated. Nearly entire internal cast retaining some shell. Entire. Two internal casts, one of which retains some shell. Three individuals imbedded. From bed "C" of Brainerd & Seely. Two individuals used in making the figures.

Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	Work.	REFERENCE.			
					Vol.	P.	Pl.	Figs.
			Bucania Hall—Continued.					
Tr.	786	Type.	punctifrons Hall.	Pal. N. Y.	I	187	40A	1a-e
"	"	Fig'd.	" " Hall.	" "	I	78	26	9a, b
Ch.	550	Type.	rotundata Hall.	" "	I	33	6	IIa, b
"	"	"	" " "	" "	I	33	6	IIIc, vert. sect.
Ca.?	386	"	tripla Whitfield.	A. M. N. H.	2	55	9	12, 13
Ch.	470	Gen. and Sp. Type	Calaurops Whitfield.					
			lituiformis Whitfield.	" "	I	315	26	I-4
			Capulus Montfort.					
			auriformis					
			Carinaropsis Hall.					
Tr.	779	"	carinata Hall.	Pal. N. Y.	I	183	40	1a-c
			cymbula " Hall.					
H. R.	1138	Type.	orbiculata Hall.	Pal. N. Y.	I	306	83	8a-c
Tr.	780	"	patelliformis Hall.	" "	I	183	40	2a, b
H. R.	780	"	" " "	" "	I	306	83	7a, b
			Clisospira Billings.					
Ft. C.	450	"	lirata Whitfield.	A. M. N. H.	I	308	24	16, 17
			Cyclonema Hall.					
H. R.	1879	Fig'd Sp. and G. T.	bilix (Conrad). Hall.	Pal. N. Y.	I	305	83	4a-e
Tr.	752	Type.	percarinatum Hall.	" "	I	177	38	4, back
H. R.	1880	"	varicosum Hall.	N. Y. S. M.	I4	91	.....
			ventricosum		I4	24	8	2, frt.
			Cyclora Hall.					
"	1387	Gen. and Sp. Type	minuta Hall.	Am. J. Sci.	48	294	.....
"	1386	Type.	parvula Hall.	" "	48	294	.....
			Cyrtolites Conrad.					
Tr.	777	Fig'd.	compressus (Con.). Hall.	Pal. N. Y.	I	188	40A	2a, b
			" " Geol. Wis.	" Geol. Wis.	I	40	..	4
H. R.	1139	Fig'd.	filosum " Hall.	Pal. N. Y.	I	308	84	1a, b
"	"	"	ornatus (Con.). Hall.	" "	I	308	84	1d
"	"	"	" " " "	" "	I	308	84	1e, f (?)
"	"	"	" " " "	" "	I	308	84	1g
			trentonensis					
			Ecculiomphalus Portlock.					
Ca.	584	Type.	compressus Whitfield.	A. M. N. H.	9	180	4	13
"	369	"	priscus Whitfield.	" "	2	46	8	19, 20
Tr.	776	Fig'd.	trentonensis (Con.). Hall.	Pal. N. Y.	I	189	40A	3a, b, d
"	776	"	" " " "	" "	I	189	41	1a-c
Ft. C.	459	Type.	triangulus Whitfield.	A. M. N. H.	3	29	I	5-9
Tr.	969	"	undulatus Hall.	Geol. Wis.	I86I	37	.....
			Whitfield.	Mem. A. M.	I	63	8	I-3
Ft. C.	458	"	volutatus Whitfield.	A. M. N. H.	I	314	25	8
"	"	"	" " "	" "	I	314	25	9-II

LOCALITY.	REMARKS.
Middleville, N. Y. Lowville, N. Y. Chazy, N. Y. " " Providence Island, Vt.	Three individuals, one of which is imbedded. As type of <i>Retepora foliacea</i> . A crushed individual. Internal cast retaining some shell. Imbedded individual showing nearly central vertical section. Small individual.
Fort Cassin, Vt.	Three internal casts with some shell and a fragment showing surface. See <i>Platystoma</i> .
Middleville, N. Y. Waterford, N. Y. Middleville, N. Y. Pulaski, N. Y.	Two imbedded individuals. See <i>Phragmostoma</i> . Exterior-interior casts of two individuals, imbedded. Imbedded. Exterior-interior cast of large individual, imbedded.
Fort Cassin, Vt.	Well preserved, but lacking summit whorl, imbedded.
Cincinnati, O. Middleville, N. Y. Tennessee	As <i>Pleurotomaria</i> ? Three entire individuals, one imbedded. " " Attached through aperture. As <i>C. ventricosum</i> by mistake. Very large, nearly entire. See <i>C. varicosum</i> .
Cincinnati, O. " "	Many minute shells and casts form the series. As <i>Turbo</i> (?). Many minute individuals.
Middleville, N. Y. Pulaski, N. Y. " " " " " "	Individual with most of shell preserved. See <i>Cyrtoceras</i> . Interior cast of rather large individual. " " individual of medium size, some shell. Imperfect internal cast retaining some shell. Small internal cast. See <i>Ecculiomphalus</i> .
Colchester, Vt. Beekmantown, N. Y. Middleville, N. Y. Carlisle, Pa. Providence Island, Vt.	Imbedded individual retaining part of shell. Internal cast. Matrix shows the thickness of the shell. As <i>Cyrtolites</i> . Two imbedded individuals. " " Free. Two internal casts. Figs. 5 and 6 are partial restorations.
Beloit, Wis. Fort Cassin, Vt. " "	Internal cast of outer whorl. Two internal casts which were used for the figure. Large internal cast, partly restored in figure.

Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			Euomphalus Sowerby.					
Ca.	370	Type.	calciferus Whitfield.	A. M. N. H.	2	47	8	12, 13
Ft. C.	460	"	circumliratus . . . Whitfield.	" "	I	308	24	18-21
"	461	"	Perkinsi Whitfield.	" "	3	30	I	10-II, 14
"	"	"	" Whitfield.	" "	3	30	I	12, 13
Tr.	964	"	triliratus Conrad.	P. A. N. S.	I	333	...	...
			Fusispira Hall.					
"	968	"	elongata Hall.	N. Y. S. M.	24	229	8	5, frt.
			obeliscus					
Tr.	774	Type.	subfusiformis Hall.	Pal. N. Y.	I	180	39	2a, b
"	774	"	" Hall.	" "	I	180	39	2c, frt.
H. R.	967	"	terebriformis Hall.	N. Y. S. M.	24	230	8	4, "
Tr.	966	"	ventricosa Hall.	" "	24	229	8	6, "
"	773	"	vittata Hall.	Pal. N. Y.	I	181	39	3a, b
			Helicotoma Salter.					
"	775	Fig'd.	planulata (Salt.) . . . Hall.	Geol. Wis.	I	39	...	3, top
Ca.?	454	Type.	similis Whitfield.	A. M. N. H.	3	31	I	I, 2
			Holopea Hall.					
Ft. C.	462	Fig'd.	arenaria (Bill.) Whitfield.	A. M. N. H.	I	310	25	5, back
"	463	Type.	cassina Whitfield.	" "	I	310	25	6, 7
Ca.	376	"	diluculum Hall.	Pal. N. Y.	I	12	3	7
Tr.	749	"	obliqua Hall.	" "	I	170	37	2a-c
"	751	Gen. and Sp. Type.	symmetrica Hall.	" "	I	170	37	I, back
Ca.	375	Fig'd.	turgida (Hall) Whitfield.	A. M. N. H.	2	50	9	3-7
Tr.	750	Type.	ventricosa Hall.	Pál. N. Y.	I	171	37	4a, b
Be.	577	Fig'd.	sp. . . . Hall.	" "	I	42	10	5
			Lophospira Whitfield.					
Ca.	377	Type.	calcifera Whitfield.	A. M. N. H.	2	55	9	8-II
Ft. C.	464	"	cassina Whitfield.	" "	I	312	25	I-4
Tr.	768	Gen. and Sp. Type.	Milleri Hall.	Am. P. F.	....	244	...	...
"	768	"	" Hall.	Pal. N. Y.	I	177	38	5a, b, d-f
				" "	I	177	38	5g, h
Be.	578	Type.	perangulata Hall.	" "	I	41	10	4, side.
Tr.	767a	"	" Hall.	" "	I	179	38	7a, b
"	767	"	tricarinata Hall.	" "	I	178	38	6a-c
"	766	"	uniangulata Hall.	" "	I	179	38	8, rear
H. R.	1396	"	" var. abbreviata "	" "	I	304	83	2a, side
"	"	"	" " " " "	" "	I	304	83	2d, "
			Maclurea Le Sueur.					
Ft. C.	457	Fig'd.	acuminata (Bill.) Whitf.	A. M. N. H.	3	32	2	I, 2
"	458	"	affinis (Bill.) . . . Whitfield.	" "	9	180	4	8, 9
Tr.	982	Type.	Bigsbyi Hall.	Geol. Wis.	1861	37		
"	985	"	" Whitfield.	Mem. A. M.	I	62	8	12, 13, 15
Ch.	547	Fig'd.	" (Hall) Whitfield.	" "	I	62	8	14, top
"	548	"	magna (Le Sueur) . . . Hall.	Pal. N. Y.	I	26	5	IC, "
"	"	"	" " " " "	" "	I	26	5	re, sect.
Ca.	883	Type.	matutina Hall.	" "	I	10	3	3, "
"	382	Fig'd.	sordida (Hall) Whitfield.	A. M. N. H.	2	49	8	I, 2
"	363	Type.	alta Whitfield.	" "	2	44	7	3, 4
			Metoptoma Phillips.					

LOCALITY.	REMARKS.
Beekmantown, N. Y.	Two individuals.
Fort Cassin, Vt.	Internal cast retaining small portion of shell.
" "	" some of shell.
" "	" Free.
Mineral Pt., Wis.	Small individual retaining shell.
Elkader, Ia.	External cast of lowest four whorls. From Galena horizon. See <i>Murchisonia</i> .
Middleville, N. Y.	As <i>Murchisonia</i> . Internal cast.
Adams, N. Y.	" " Imperfect cast of large individual.
Cincinnati, O.	A somewhat imperfect internal cast, adult.
Depere, Wis.	External cast, adult. From Galena horizon.
Turin, N. Y.	As <i>Murchisonia</i> . Internal cast.
Beloit, Wis.	Internal cast imbedded.
Shoreham, Vt.	" From above Ft. Cassin beds.
Fort Cassin, Vt.	Internal cast of a large individual.
" "	Large internal cast retaining small portion of shell.
Middleville, N. Y.	As <i>Turbo</i> . Internal cast imbedded.
" "	" Two specimens.
Beekmantown, N. Y.	Well preserved, imbedded.
Middleville, N. Y.	Three individuals.
Watertown, N. Y.	External cast.
	As <i>Natica</i> ? sp. Small internal cast, imbedded.
Beekmantown, N. Y.	Two individuals.
Fort Cassin, Vt.	Three more or less perfect internal casts.
Middleville, N. Y.	Specific name proposed instead of <i>Murchisonia bicincta</i> , prec.
Watertown, N. Y.	As <i>Murchisonia bicincta</i> H. Two individuals and an internal cast.
" "	" " Ind. imb. These specs. were made the generic type of <i>Lophospira</i> , Bul. A. M. N. H., vol. 1, p. 311.
Middleville, N. Y.	As <i>Murchisonia</i> . Cast of individual, imbedded.
Mineral Pt., Wis.	" " <i>perangulata</i> , var. <i>A</i> . Individual imbedded.
Middleville, N. Y.	" " A somewhat compressed indiv. and a fragment.
Pulaski, N. Y.	" " An individual.
	" Internal cast imbedded with type of <i>Murchisonia gracilis</i> , fig. 1a, same plate.
Mohawk Valley, N. Y.	As <i>Murchisonia</i> . Internal cast, imbedded.
Fort Cassin, Vt.	Internal cast retaining small portion of shell.
Otter Creek, Vt.	Two considerable fragments preserving shell.
Mineral Pt., Wis.	A small internal cast and a large one preserving external features.
Janesville, Wis.	Internal cast of medium size. Three other casts are in the series.
Chazy, N. Y.	Large individual, somewhat imperfect and weathered.
" "	Weathered horizontal section of individual, medium size.
	Imbedded individual giving vertical section near the middle.
Mohawk Valley, N. Y.	Large weathered individual, imbedded.
Beekmantown, N. Y.	Two adults preserving more or less shell, imbedded.
" "	Internal cast retaining small portion of shell.
" "	An individual.

Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
H. R.	1395	Gen. and Sp. Type.	Microceras Hall..... <i>inornatum</i> <i>Hall</i> .	Am. J. Sci.	48	294	.....	.....
Tr.	768	Type.	Murchisonia d'A. & V. <i>bellicincta</i> <i>Hall</i>	Pal. N. Y.	I	179	39	1a, b, d, e
"	768		<i>"</i> <i>Hall</i>	"	I	179	39	1c, frt.
Ft. C.	507	Type.	<i>bicincta</i> <i>cassina</i> <i>Whitfield</i> . ? <i>confusa</i> <i>Whitfield</i> .	A. M. N. H.	9	179	4	7
Ca.?	379	"	"..... <i>Whitfield</i> .	"	2	54	8	16, 17
"	380	"	<i>gracilens</i> <i>Whitfield</i> .	"	2	54	8	18
Ca.	"	"	"..... <i>Whitfield</i> .	"	2	53	8	14
Tr.	766	"	<i>gracilis</i> <i>Hall</i> .	Pal. N. Y.	I	181	39	4a, c
H. R.	1386	"	"..... <i>Hall</i> .	"	I	303	83	1a
"	766	"	"..... <i>Hall</i> .	"	I	303	83	1
Tr.	1000	"	<i>major</i> <i>Hall</i> .	Lake Sup.	2	209	26	1a
Ft. C.	465	Type.	<i>Milleri</i> <i>obeliscus</i> <i>Whitfield</i> . ? <i>prava</i> <i>Whitfield</i> .	A. M. N. H.	I	317	26	5, 6
"	466	"	<i>subfusiformis</i> <i>vittata</i>	"	I	316	24	22, rear
			Natica Adanson. ? sp.	Pal. N. Y.	I	42	10	5
Ca.	872	Fig'd.	Ophileta Vanuxem. <i>complanata</i> (<i>Vanux.</i>) <i>W.</i>	A. M. N. H.	2	48	7	18-25
H. R.?	977	Type.	Phragmostoma Hall. <i>cymbula</i> <i>Hall</i> .	N. Y. S. M.	I4	94	.....	.....
Ch.	563	"	Platystoma Conrad. <i>auriformis</i> <i>Hall</i> .	Pal. N. Y.	I	31	6	9a, b
Ca.	381	"	Pleurotomaria Defrance. <i>beekmanensis</i> <i>Whitfield</i> . ? <i>bilix</i> <i>Whitfield</i> .	A. M. N. H.	2	53	8	8-II
Ft. C.	468	Type.	? <i>difficilis</i> <i>Whitfield</i> . ? <i>etna</i> (<i>Bill.</i>) ? <i>Whitfield</i> .	A. M. N. H.	3	33	1	17, 18
"	467	Fig'd.	<i>micula</i> <i>Nasoni</i> <i>niota</i> <i>Hall</i> .	"	I	316	24	12, 13
Tr.	757a	Type.	<i>Whitfield</i> .	Geol. Wis.	1861	33	.....	.....
Be.	576	"	? <i>nucleolata</i> <i>Hall</i> . <i>percarinata</i> <i>rotuloides</i>	Mem. A. M.	I	60	8	II
H. R.?	1028	Type.	<i>semele</i> <i>Hall</i> . <i>Whitfield</i> .	Pal. N. Y.	I	42	10	6a, b
Tr.	757	"	<i>subconica</i> <i>Hall</i> .	Geol. Wis.	1861	36	.....	.....
"	"		"..... <i>Hall</i> .	Mem. A. M.	I	61	8	8-10
H. R.	757	"	"..... <i>Hall</i> .	Pal. N. Y.	I	174	37	8a-c
"	"		"..... <i>Hall</i> .	"	I	174	37	8d, e
H. R.	757	"	"..... <i>Hall</i> .	Geol. Wis.	I	39	.....	1, back
"	"		<i>subtilistriata</i> <i>umbilicata</i>	Pal. N. Y.	I	304	83	3c, d
H. R.	1137	Fig'd.	sp. ?..... <i>Hall</i> . sp. ?..... <i>Hall</i> .	Pal. N. Y.	I	305	83	5b, base
"			"..... <i>Hall</i> .	"	I	31	6	8
Ft. C.	452	Type.	Raphistoma Hall. <i>compressum</i> <i>Whitfield</i> .	A. M. N. H.	I	309	24	14, 15
"	451	Fig'd.	<i>hortensia</i> (<i>Bill.</i>) ? <i>Whitf.</i>	"	3	32	1	15, 16
H. R.	1388	Type.	<i>micula</i> <i>Hall</i> .	Geol. Wis.	I	55	ct 13	4, top

LOCALITY.	REMARKS.
Cincinnati, O.	Prob. = <i>Cyrtolites</i> . Many minute individuals form the series.
Middleville, N. Y. Watertown, N. Y.	Two individuals and a large internal cast. Cast showing form of aperture.
Fort Cassin, Vt. Shoreham, Vt.	See <i>Lophospira Milleri</i> . Incomplete shell, imbedded.
Providence Island, Vt. Beekmantown, N. Y. Watertown, N. Y. Pulaski, N. Y. Lorraine, N. Y. 3 miles above Green Bay, L. Mich.	Two casts retaining some shell; imbedded separately. Weathered slab, part of which was figured. Individual imbedded with type of <i>Isochilina Seelyi</i> , fig. 6, pl. 13. Internal cast of six volutions, imbedded. Two internal casts, one of which retains some shell. Int. cast imb. with type of <i>Lophospira abbreviata</i> , fig. 2a, same pl. Int. cast, imb. Two unfigured specimens are in the type series. Internal cast five whorls, imbedded. From the Galena horizon.
Fort Cassin, Vt. “ “	See <i>Lophospira</i> . Large int. cast retaining small portion of shell. Prob. = <i>Fusispira</i> . Internal cast retaining but little shell. See <i>Fusispira</i> . “ “
Beekmantown, N. Y.	See <i>Holopea</i> .
Allen's Bluff, Tenn.	Four individuals and a block containing many.
Galway, N. Y.	As <i>Carinaropsis (Phragmostoma)</i> . Marg. somew. broken. Trenton ?
Beekmantown, N. Y. Fort Cassin, Vt.	As <i>Capulus</i> . Cast, somewhat worn. A nearly entire individual retaining some shell, and an internal cast. See <i>Cyclonema</i> . Internal cast retaining some shell. “ “
Beloit, Wis. Watertown, N. Y.	See <i>Rhaphistoma</i> . Internal cast of a large individual, nearly entire. Cast of small individual, imbedded. See <i>Cyclonema</i> . “ “
Maquoketa Creek, Ia. Watertown, N. Y.	Int. cast retaining some shell. From shales above Galena limest. Imbedded.
“ “ Pulaski, N. Y.	Cast of exterior. Two imperfect casts imbedded together in hard shale. See <i>Rhaphistoma</i> . “ <i>Trochonema</i> .
Turin, N. Y.	Small cast, imbedded. See <i>Rhaphistoma stamineum</i> .
Fort Cassin, Vt. “ “	Internal cast retaining much of shell. Large internal cast retaining some shell. As <i>Pleurotomaria</i> . Rather large internal cast.
Sinsinawa M'nd., Wis.	

Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Tr.	960	Type.	Raphistoma Hall—Cont. <i>Nasoni</i> <i>Hall</i> .	Geol. Wis.	1861	34	.....	.....
				"	I	39	.....	2, top
				<i>Whitfield</i> .	I	61	8	4-7
Ch.	543	"	<i>planistria</i> <i>Hall</i> .	Pal. N. Y.	I	30	6	3a, top
Ca.	366	"	<i>prævium</i> <i>Whitfield</i> .	A. M. N. H.	2	52	8	5-7
Tr.	761	"	<i>rotuloides</i> <i>Hall</i> .	Pal. N. Y.	I	173	37	7a-c
Ch.	545	"	<i>stamineum</i> <i>Hall</i> .	" "	I	29	6	4, side
"	"	Fig'd.	"	" "	I	31	6	8, "
Tr.	760	Type.	<i>subtilistriatum</i> <i>Hall</i> .	" "	I	172	37	5a-d
Straparollina Billings.								
Ca.	585	"	<i>minima</i> <i>Whitfield</i> .	A. M. N. H.	9	179	4	10-12
Subulites Conrad.								
Tr.	772	"	<i>abbreviatus</i> <i>Hall</i> .	N. Y. S. M.	3	172	3	2a, b
"	771	Fig'd.	<i>elongatus</i> (<i>Con.</i>)..... <i>Hall</i> .	Pal. N. Y.	I	182	39	5b, frt.
Ft. C.	469	Type.	<i>obesus</i> <i>Whitfield</i> .	A. M. N. H.	I	182	39	5c, side
Trochonema Salter.								
Ca.	378	"	<i>exile</i> <i>Whitfield</i> .	" "	2	51	9	1, 2
Be or B. R.	579	"	<i>umbilicatum</i> <i>Hall</i> .	Pal. N. Y.	I	43	10	9a, b, d, e
Tr.	758	"	"	" "	I	175	38	1a, back
"	"	"	"	" "	I	175	38	1b, c
"	"	"	"	" "	I	175	38	1d-f
"	758	"	"	" "	I	175	38	1g, side
Tryblidium Lindström.								
Ca.	364	"	? <i>acutum</i> <i>Whitfield</i> .	A. M. N. H.	2	45	7	9-II
Ft. C.	447	"	<i>conicum</i> <i>Whitfield</i> .	" "	I	306	24	26, 27
"	"	"	"	" "	I	306	24	32, 33
"	"	"	"	" "	3	29	I	3, side
"	"	"	"	" "	3	29	I	4, "
"	445	"	<i>ovale</i> <i>Whitfield</i> .	" "	I	305	24	28, 29
"	446	"	<i>ovatum</i> <i>Whitfield</i> .	" "	I	305	24	23, 24
"	"	"	"	" "	I	305	24	25
Ca.	365	"	<i>pileolum</i> <i>Whitfield</i> .	" "	2	46	7	15, 16
"	"	"	"	" "	2	46	7	17, top
Ft. C.	448	Fig'd.	<i>simplex</i> (<i>Bill.</i>) <i>Whitfield</i> .	" "	I	306	24	30, 31
Turbo Klein.								
<i> diluculum</i>								
<i> parvulus</i>								

Class PTEROPODA.

			Chiderma Hall.					
			<i>canaliculatum</i>					
			<i>Saffordi</i>					
			Conularia Miller.					
Tr.	789	Type.	<i>gracilis</i> <i>Hall</i> .	Pal. N. Y.	I	224	59	7a, b
"	791	"	<i>granulata</i> <i>Hall</i> .	" "	I	223	59	5a, b
"	790	"	<i>papillata</i> <i>Hall</i> .	" "	I	223	59	6a, b
"	788	"	<i>trentonensis</i> <i>Hall</i> .	" "	I	222	59	4b, ext.
"	"	"	"	" "	I	222	59	4d, e, f

LOCALITY.	REMARKS.
.....	As <i>Pleurotomaria</i> . " <i>Raphistoma</i> (<i>Pleurotomaria</i>). " <i>Pleurotomaria</i> (<i>Raphistoma</i>). Two very perfect internal casts. Four others are in the type series.
Beloit, Wis. Chazy, N. Y. Beekmantown, N. Y.	Imbedded individual. Large individual. As <i>Pleurotomaria</i> . Individual.
Middleville, N. Y. Chazy, N. Y. " "	A somewhat worn individual. As <i>Pleurotomaria</i> sp. ? Small, imbedded. " " Two individuals preserving some shell.
Watertown, N. Y. Colchester, Vt.	Watertown, N. Y. Two weathered individuals.
Watertown, N. Y. Middleville, N. Y. Mineral Pt., Wis. Fort Cassin, Vt.	Fragment. Internal cast preserving some shell. Four whorls retaining some shell. Rather large internal cast with some shell.
Beekmantown, N. Y. Watertown, N. Y. Middleville, N. Y. " " " " Mineral Pt., Wis.	Internal cast. As <i>Pleurotomaria</i> . Three internal casts, two with some shell. " " Retains some shell. " " Small individual. " " Large internal cast. " " Medium size, imbedded.
Beekmantown, N. Y. Fort Cassin, Vt. " " " " " " " " " "	Exfoliated individual, imbedded. Internal cast of small individual imbedded. " " very " Individual of medium size. Internal cast of large individual. " " " imbedded. " " retaining part of the shell.
Beekmantown, N. Y. " " Fort Cassin, Vt.	Large ovate individual retaining much of shell. " round Internal cast very large individual with small part of shell.
.....	See <i>Holopea</i> . " <i>Cyclora</i> .

.....	= <i>Pterotheca</i> . See " " " "
Middleville, N. Y. " " " " " "	Imbedded. " compressed. Individual, free. Frag. showing septum. This is the orig. of the upper figure 4f. Another individual, imbedded, is in the type series.

Class PTEROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Tr.	796	Type.	Pterotheca Salter. <i>anatiformis</i> <i>Hall.</i>	Pal. N. Y.	I	154	34	7, ext.
"	793	"	<i>canaliculata</i> <i>Hall.</i>	N. Y. S. M.	I4	97	.....	.....
"	976	"	<i>Saffordi</i> <i>Hall.</i>	" "	I4	96	.....	.....
Ch.	539	"	Stenotheca Hicks. <i>dubia</i> <i>Hall.</i>	" "	I5	166	6	15-17
"	"	Fig'd.	" "	Pal. N. Y.	I	23	4 bis	11a, b
			Tentaculites Schlotheim. ? <i>flexuosus</i>	" "	I	23	4 bis	10a, b

Class CEPHALOPODA.

Tr.	800	Type.	Actinoceras Bronn. <i>distans</i> <i>Hall.</i>	Pal. N. Y.	I	220	58	1a, b
"	812	"	Cameroceras Conrad. <i>approximatum</i> <i>Hall.</i>	" "	I	219	54	2a, side
"	815	Fig'd.	<i>trentonense</i> (Con.) <i>Hall.</i>	" "	I	221	56	4a-c
Ft. C.	483	Type.	Cyrtoceras Goldfuss. <i>acinacellum</i> <i>Whitfield.</i>	A. M. N. H.	I	327	27	10-13
			<i>annulatum</i> .....					.....
			<i>arcuatum</i> .....					.....
Ca.	389	"	<i>beekmanense</i> <i>Whitfield.</i>	A. M. N. H.	2	57	10	2, 3
Ft. C.	481	"	<i>Boyceii</i> <i>Whitfield.</i>	" "	I	326	29	4
Tr.	816	"	<i>camurum</i> <i>Hall.</i>	Pal. N. Y.	I	196	42	6
Ft. C.	482	"	<i>confertissimum</i> <i>Whitf.</i>	A. M. N. H.	I	327	27	7-9
Tr.	818	"	<i>constrictostriatum</i> <i>Hall.</i>	Pal. N. Y.	I	195	42	2a, b
"	"		" <i>corniculum</i>	" "	I	195	42	3c, d
Tr.	821	Type.	<i>eugium</i> <i>Hall.</i>	Geol. Wis.	I861	40	.....	.....
"	817	"	<i>Whitfield.</i>	Mem. A. M.	I	66	9	3, 4
"	823	"	<i>filosum</i> (Con.) <i>Emmons.</i>	Geol. N. Y.	2d D.	392	.....	4
			<i>Hall.</i>	Pal. N. Y.	I	190	41	3a, b
			<i>Hallanum</i> <i>d'Orbigny.</i>	Pr. d. Pal.	I	.....	.....	.....
			<i>Hall.</i>	Pal. N. Y.	I	193	41	2a-c
Ca.	391	"	<i>Kirbyi</i> <i>Whitfield.</i>	A. M. N. H.	2	57	10	4-7
			<i>lamellosum</i> .....					.....
Tr.	828	"	<i>loculosum</i> <i>Hall.</i>	Geol. Wis.	I861	42	.....	.....
"	829	"	<i>Whitfield.</i>	Mem. A. M.	I	67	9	6-9
"	822	"	<i>macrostomum</i> <i>Hall.</i>	Pal. N. Y.	I	194	42	1b, c
			<i>Conrad.</i>	P. A. N. S.	I	334	.....	.....
"	822	"	" "	Pal. N. Y.	I	194	42	1a
"	822	"	" "	" "	I	194	42	3a, b
Tr.	820	Type.	<i>marginale</i> .....					.....
"	822	"	<i>multicameratum</i> <i>Hall.</i>	Pal. N. Y.	I	195	42	4, side
			<i>neleus</i> <i>Hall.</i>	Geol. Wis.	I861	40	.....	.....
"	822	"	" <i>Whitfield.</i>	Mem. A. M.	I	65	9	10, II
Ca.	390	"	" (Hall)	" "	I	.....	9	12
Tr.	821	"	<i>Raei</i> <i>Whitfield.</i>	A. M. N. H.	2	58	10	8, 9
			<i>subannulatum</i> <i>d'Orb.</i>	Pr. d. Pal.	I	.....	.....	.....
			<i>Hall.</i>	Pal. N. Y.	I	194	41	4a
"	821	"	" "	" "	I	194	41	4b, d
"	"	"	" "	" "	I	194	41	5

LOCALITY.	REMARKS.
Watertown, N. Y.	As <i>Tellinomya anatiniformis</i> . Changed to <i>Clioderma anatiniformis</i> , at p. 98 of 14th Rep. N. Y. S. M. Internal cast.
Middleville, N. Y.	As <i>Clioderma</i> . Four fragmentary internal casts form the series.
Lebanon, Tenn.	As generic type of <i>Clioderma</i> . A nearly entire individual.
Chazy, N. Y. " "	As <i>Metoptoma</i> ? Imbedded. An unfigured indiv. is in the type ser. As type of <i>Orcibula? deformata</i> , cast imbedded.
.....	See <i>Conchicolites</i> .
.....
Turin, N. Y.	As <i>Endoceras</i> . Large weathered cast of ten chambers. The specimen shows the siphonal rays in the beaded siphon.
Middleville, N. Y. " "	As <i>Endoceras</i> . Fragment of a few chambers. Small fragment and an imbedded cast, with siphon largely denuded.
Fort Cassin, Vt.	A cast of interior retaining some of shell.. See <i>C. subannulatum</i> .
Beekmantown, N. Y. Isle la Motte, Vt.	" " <i>subarcuatum</i> . Cast of twenty chambers besides most of that of habitation.
Middleville, N. Y.	Imbedded individual of medium size, showing section.
Fort Cassin, Vt.	Cast of about twelve chambers besides that of habitation, imbedded.
Middleville, N. Y. " "	" " twenty-five chambers, imbedded. " eight chambers besides that of habitation. " about four chambers retaining most of shell. See <i>C. tenuistriatum</i> .
Beloit, Wis.	Fragm. cast of nine chambers. Another fragm. is in the series.
Watertown, N. Y.	As <i>Cyrtolites</i> . Imbedded indiv. Shows more than fig. indicates. Name proposed for <i>C. lamellosum</i> , which was preoccupied.
Middleville, N. Y. Beekmantown, N. Y.	As type of <i>C. lamellosum</i> . Imbedded. Cast of about 23 chambers besides that of habitation. See <i>C. Hallanum</i> .
Near Madison, Wis.	Two internal casts, one showing 36 chambers.
Mineral Pt., Wis.	As type of <i>S. marginale</i> ; name preoccupied. Cast of 24 chambers besides that of habitation.
Carlisle, Pa. Middleville, N. Y.	Cast of 13 chambers retaining some of shell. Imbedded. " 9 " " " "
Middleville, N. Y.	See <i>C. macrostomum</i> . Cast, imbedded.
Platteville, Wis. Beloit, Wis.	Cast of 21 chambers besides part of that of habitation. As <i>C. tenuistriatum</i> , by error. Internal cast.
Beekmantown, N. Y.	Cast of about 12 chambers and part of that of habitation. Name proposed for <i>C. annulatum</i> , which was preoccupied.
Watertown, N. Y. Middleville, N. Y. " "	As type of <i>C. annulatum</i> . Cast, imbedded. Do. Eleven chambers retaining shell, imbedded. Do. Ten " " some of shell.

Class CEPHALOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			Cyrtoceras Goldfuss—Cont.					
Tr.	819	Type.	subarcuatum...d'Orbigny. <i>Hall.</i>	Pr. d. Pal. Pal. N. Y.	I I	2 196	...	5a-c
"	885 1	"	tenuistriatum..... <i>Hall.</i>	Am. P. F. Geol. Wis.	..... I	243 41	..... I, 2	
H. R.	1400	"	Whitneyi..... <i>Hall.</i> <i>Whitfield.</i>	Mem. A. M.	1861 I	39 65	9	5
			Endoceras Hall.					
Tr.	814	"	angusticameratum... <i>Hall.</i>	Pal. N. Y.	I	218	51	3
"	811	"	annulatum..... <i>Hall.</i>	" "	I	207	44	1a, b
Tr.	813	Type.	approximatum..... <i>Hall.</i>	.....	.....	.....	.....	.....
B. R.	608	Type.	arctiventrum..... <i>Hall.</i>	Pal. N. Y.	I	217	51	2a, b
T. R.	810	"	distans .....	.....	.....	.....	.....	.....
"	"	"	gemelliparum..... <i>Hall.</i>	Pal. N. Y.	I	60	19	1a c
"	"	"	maginiventrum..... <i>Hall.</i>	" "	I	218	53	1a-c
"	808 1	"	" var. <i>Hall.</i>	" "	I	218	54	2b
"	"	"	proteiforme <i>Hall.</i>	" "	I	208	48	2a-c
"	"	"	"	" "	I	208	48	3
"	"	"	"	" "	I	208	48	4a-c
"	"	"	"	" "	I	208	49	1a
"	"	"	"	" "	I	208	49	1b, c
"	"	"	"	" "	I	208	49	1e
"	"	"	"	" "	I	208	50	1a, b, 2a, b
"	"	"	"	" "	I	208	50	2d
"	"	"	"	" "	I	208	50	3
"	"	"	"	" "	I	208	53	2
"	"	"	"	" "	I	216	57	1a, b
"	809 1	"	" var. lineolatum	" "	I	211	45	4a, b
"	"	"	"	" "	I	211	45	4e
"	"	"	"	" "	I	211	46	1a-c
"	"	"	"	" "	I	211	46	2a, b
"	"	"	"	" "	I	211	47	4a, d
"	"	"	"	" "	I	211	47	4e
"	"	"	"	" "	I	211	59	3
"	809.b 1	"	" "strangulatum	" "	I	212	46	4a, b
"	"	"	"	" "	I	212	46	4d
"	"	"	"	" "	I	212	46	4e
"	809.d 1	"	" "tenuistriatum	" "	I	209	45	1a, b
"	"	"	"	" "	I	209	47	1a, b
"	"	"	"	" "	I	209	47	2a-e
"	809.c 1	"	" "tenuitextum	" "	I	210	45	2a, b
"	"	"	"	" "	I	210	45	3a, b
"	"	"	"	" "	I	210	45	5a-c
B. R.	603	Gen. and Sp. Type	subcentrale..... <i>Hall.</i>	" "	I	59	17	4
Ft. C.	480	Type.	Gomphoceras Sowerby.					
"	479	"	cassinense..... <i>Whitfield.</i>	A. M. N. H.	I	322	29	1-3
			minimum..... <i>Whitfield.</i>	" "	I	321	27	3-5
			Gonioceras Hall.					
B. R.	607 1	Gen. and Sp. Type.	anceps..... <i>Hall.</i>	Pal. N. Y.	I	54	14	1a
"	"	"	"	" "	I	54	14	1b
Tr.	990 2	Type.	occidentale..... <i>Hall.</i>	Geol. Wis.	1861	47	.....	.....
"	990 4	Fig'd.	" (<i>H.</i>)	<i>Whitfield.</i> Mem. A. M.	I	72	12	2
"	"				I	72	12	1

LOCALITY.	REMARKS.
Middleville, N. Y.	Name proposed for <i>C. arcuatum</i> , which was pre-occupied. As type of <i>C. arcuatum</i> . Spec. is of 7 or 8 chamb. and that of habit- ation, into wh. a smaller indiv., prob. of the same sp. has been thrust.
Mineral Pt., Wis.	Name proposed. As type of <i>C. corniculum</i> ; preoccupied. External cast. See also entry under <i>C. neleus</i> .
Maquoketa Creek, Ia.	Fragment showing cast of 8 chambers besides part of outer one. Another fragm. is in series. Local. is 12 miles N. W. of Dubuque.
Middleville, N. Y.	Cast, worn. Prob. = <i>Orthoceras</i> . Shows "embryo tube" of Hall filling the siphon. See <i>Cameroceras</i> .
Middleville, N. Y.	Int. cast worn down so as to show siphon. Prob. = <i>Cameroceras</i> . See <i>Actinoceras</i> .
Henderson Bay, N. Y.	Worn fragment of cast of eight chambers of large individual.
Middleville, N. Y.	Worn cast of several chambers, with polished longitudinal section.
"	Siphon with fragments of chambers, a cast.
"	" Embryo tube" containing a section of shell reversed.
"	" " " a shell with siphon.
"	Shows two replacements of siphon. " Embryo tubes" of Hall.
"	" " embryo tube" in the siphon.
"	" " " become a siphon.
Middleville, N. Y., or Trenton Falls, N. Y.	Distorted " embryo tube" bearing part of cast of ten chambers.
Middleville, N. Y.	Four " embryo tubes."
"	An " embryo tube" within a siphon.
"	" " " become a siphon.
Middleville, N. Y., or Trenton Falls, N. Y.	Large part of large indiv. with siph. partly denuded. N.B.-All these spec. of <i>E. proteiforme</i> are int. casts. See also <i>Orthoceras</i> sp.
Middleville, N. Y.	Imbedded individual retaining shell, nearly entire.
"	Considerable fragment retaining shell.
"	Fragmentary internal cast with the variety in the siphon.
"	Nearly entire, imbedded, retaining shell.
"	Two apical fragm. "
"	Fragment retaining shell.
"	" imbedded in siphon of a large individual.
"	Cast of body chamber retaining part of shell.
"	" " " and several others with some shell.
"	Considerable fragment retaining shell, imbedded.
"	Nearly entire, retaining part of shell, "
"	Cast of several chambers besides part of body chamb.; some shell.
"	Considerable part of individual; retains shell very perfectly.
"	Cast of part of body chamber and others retaining much shell.
"	Individual inclosed in an " embryo tube" of Hall.
Watertown, N. Y.	Imbedded fragment of large siphon; only partly figured.
Fort Cassin, Vt.	Two casts, one of 10 and one of 4 chambers besides the outer one. An imbedded individual broken across longitudinally.
Watertown, N. Y.	Part of cast of large individual showing weathered longit. section.
"	Fragment of large cast of interior cross section.
Platteville, Wis.	Int. cast show'g posit. of siph. Another frag. from Beloit is in the ser.
La Salle Co., Ill.	Int. cast of large pt. of an individ. from Homer, Troy Grove Tp.

Class CEPHALOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<i>Inachus</i> Hisinger. <i>undatus</i>					
			<i>Lituites</i> Breynius.					
Ft. C.	486	Type.	<i>Eatoni</i> <i>Whitfield</i> .	A. M. N. H.	I	331	28	7
"	"	"	" "	"	I	331	32	1
"	487	"	" var. <i>cassinensis</i> "	"	I	332	32	2
"	488	"	<i>internistriatus</i> . <i>Whitfield</i> .	"	I	332	29	5, 8
"	"	"	" "	"	I	332	29	6, 7
Tr.	1008	"	<i>Robertsoni</i> <i>Hall</i> .	Geol. Wis.	1861	38		
			<i>Whitfield</i> .	Mem. A. M.	I	64	10	4-6
Ft. C.	485	"	<i>Seelyi</i> <i>Whitfield</i> .	A. M. N. H.	I	330	31	2, sect.
"	"	"	" "	"	I	330	32	3
B. R.	829	"	<i>undatus</i> (<i>Con.</i>). <i>Emmons</i> .	Geol. N. Y.	2d D.	394	ct. ro. 4	1 and 2
			<i>Hall</i> .	Pal. N. Y.	I	52	13	1
"	609	Fig'd.	" (<i>Con.</i>) <i>Hall</i> .	"	I	52	13	3, sect.
"	"	"	" "	"	I	52	13bis	1
Tr.	1002	Type.	" var. <i>occidentalis</i> . <i>Hall</i> .	Geol. Wis.	1861	38		
			<i>Whitfield</i> .	Mem. A. M.	I	63	10	7
"	1002	Fig'd.	" " (" <i>H.</i>) " "	"	I	63	11	1
						12		3
			<i>Nautillus</i> Breynius.					
Ft. C.	489	Type.	? <i>champlainensis</i> . . . <i>Whitf</i> .	A. M. N. H.	I	320	31	1
"	"	"	" "	"	I	329	31	3
"	490	"	<i>Kelloggi</i> <i>Whitfield</i> .	"	I	328	30	1.
"	"	"	" "	"	I	328	31	4
"	"	"	" "	"	I	328	31	5
"	508	"	<i>Perkinsi</i> <i>Whitfield</i> .	"	9	182	5	1, 2
			<i>Oncoceras</i> Hall.					
Tr.	997	"	<i>abruptum</i> <i>Hall</i> .	Geol. Wis.	1861	44		
			<i>Whitfield</i> .	Mem. A. M.	I	68	10	1-3
"	1000	"	<i>alceus</i> <i>Hall</i> .	Geol. Wis.	1861	46		
"	994	Gen. and Sp. Type.	<i>constrictum</i> <i>Hall</i> .	Mem. A. M.	I	70	9	23-26
"	994	"	" "	Pal. N. Y.	I	197	41	6a-c
"	"	"	" "	"	I	197	41	6d
"	"	"	" "	"	I	197	41	6e
"	"	"	" "	"	I	197	41	7a-c
"	"	"	" "	"	I	197	41	7d
"	"	"	" "	N. Y. S. M.	3	172	3	3a, b
"	"	Fig'd.	" "	Pal. N. Y.	I	197	41	6f
"	999	Type.	<i>lycus</i> <i>Hall</i> .	Geol. Wis.	1861	45		
"	"		<i>Whitfield</i> .	Mem. A. M.	I	69	9	13, 14
"	998	"	<i>pandion</i> <i>Hall</i> .	Geol. Wis.	1861	45		
"	"		<i>Whitfield</i> .	Mem. A. M.	I	69	9	20
"	998	"	" <i>Hall</i> .	Geol. Wis.	I	41		3
"	"		<i>Whitfield</i> .	Mem. A. M.	I	69	9	21, 22
"	996	"	<i>plebeium</i> <i>Hall</i> .	Geol. Wis.	1861	44		
			<i>Whitfield</i> .	Mem. A. M.	I	68	9	15-19
			<i>Ormoceras</i> Stokes.					
H. R.	1141	"	<i>crebreseptum</i> <i>Hall</i> .	Pal. N. Y.	I	313	86	2a
"	"	"	" "	"	I	313	87	2a-c, e
"	1141	"	" "	"	I	313	87	2d
B. R.	815	"	<i>tenuifilum</i> <i>Hall</i> .	"	"	55	15	1c
"	"	"	" "	"	I	55	16	1b, c, e
"	805	"	" "	"	I	55	17	1, 1a
"	805	"	" "	"	I	55	17	1b
B. R. or Tr.	806	Fig'd.	" ? "	"	I	222	58	2a
"	"	"	" ? "	"	I	222	58	2b, c
B. R.	805	"	" ?, var. <i>distans</i> . <i>Hall</i> .	"	I	55	17	2

LOCALITY.	REMARKS.
	See <i>Lituites</i> .
Fort Cassin, Vt.	A large individual, with artificial section.
" "	Int. cast retaining some of shell. Used also for figs. 5, 6, pl. 28.
" "	Large individual with the shell almost entire.
" "	Internal cast, retaining much of shell.
" "	Imperfect cast with artificial section.
Rockford, Ill.	Two nearly entire internal casts. A fragm. from Beloit is in series.
Fort Cassin, Vt.	Cast of medium size showing artificial section.
" "	Large individual retaining much shell.
Watertown, N. Y.	As <i>Inachus</i> .
" "	A large individual, nearly entire.
" "	Imbedded; shows water-worn section.
" "	Very large cast retaining much of shell.
Beloit, Wis.	Large cast. Incor. ref. to Niag. grp. in Geol. Wis., vol. 1, p. 441.
La Salle Co., Ill.	Very perfect large cast. From Homer, Troy Grove Tp.
Fort Cassin, Vt.	Large cast retaining small portion of shell.
" "	Most of chamber of habitation of a very large individual.
" "	Internal cast of very large individual. Partly restored in figure.
" "	" young " retaining some shell.
" "	Fragment cut so as to show siphon and septa.
" "	Two individuals, one retaining some shell.
Platteville, Wis.	Int. cast of 10 cham. and part of the outer one, and a small fragm.
Beloit, Wis.	Two casts of 7 and 15 chambers, with parts of those of habitation.
Watertown, N. Y.	Cast.
Middleville, N. Y.	" of 10 chambers and that of habitation, which is nearly entire.
" "	" 8 " "
" "	Rather small fragment, imbedded.
" "	Cast of single chamber, imbedded.
" "	An almost perfect individual retaining shell.
" "	An indeterminable fossil, certainly not an <i>Oncoceras</i> .
Beloit, Wis.	Cast of 10 chambers besides that of habitation.
Mineral Pt., Wis.	Cast of 3 chambers besides outer one.
Beloit, Wis.	Restored in part in figure.
" "	Cast of 9 chambers besides outer one.
Near Pulaski, N. Y.	Three internal casts as represented. Four others are in the series.
" "	Cast of 24 chambers besides outer one.
Turin, N. Y.	Four int. casts; two retain'g some shell and 1 show. weath. longit. sect.
Watertown, N. Y.	Block containing many small individuals, part of which was figured.
" "	Very large indiv., imbedded. Shows weathered longitudinal section.
Tennessee.	Three large, imbedded fragments, showing " "
Watertown, N. Y.	Small fragment of large individual; siphon in contact with shell.
Mohawk Valley?, N.Y.	Part of large, imbedded indiv.; shows weathered longit. section.
" "	" siphon with small portion of shell adhering.
" "	" individual. Shows weathered longitudinal section.
Watertown, N. Y.	" imbedded indiv. Shows "

Class CEPHALOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Orthoceras Breynius.								
Tr.	798	Type.	amplicameratum . . . Hall.	Pal. N. Y.	I	205	51	1a, c-g
"	806	"	anellus . . . Conrad.	P. A. N. S.	I	334		
	8		Hall.	Pal. N. Y.	I	202	43	6a-c
"	806	Fig'd.	" (Con.) . . . "	"	I	202	43	6d-f
"	807	Type.	arcuoliratum . . . Hall.	"	I	198	42	7a, side
"	"	"	" . . . "	"	I	198	42	7b, c
"	808	"	bilineatum . . . Hall.	"	I	199	43	2b, d
Ft. C.	474	Fig'd.	" (H.) Whitfield.	A. M. N. H.	3	35	2	5
Tr.	808	Type.	var. α . . . Hall.	Pal. N. Y.	I	200	43	3a-c
Ft. C.	472	"	Brainerdi . . . Whitfield.	A. M. N. H.	I	319	27	14-16
Tr.	806	"	clathratum . . . Hall.	Pal. N. Y.	I	201	43	4a-c
Ch.	551	"	clintoni . . . Hall.	Am. P. F.	.....	244	.....
			"	Pal. N. Y.	I	34	7	3
<i>coralliferum</i> . . .								
Ft. C.	473	Type.	cornu-oryx . . . Whitfield.	A. M. N. H.	I	320	27	I, 2, 6
"	475	Fig'd.	explorator (Bill.) . . . Whitf.	"	3	33	2	3
Tr.	797	Type.	gregarium . . .	Pal. N. Y.	I	204	47	3a-f
H. R.	1142	"	junceum . . . Hall.	"	I	312	86	2d, e
Tr.	802	"	lamellosum . . . Hall.	"	I	206	56	2b, c
"	"	"	laqueatum . . . Hall.	"	I	206	56	3
"	799	"	" ? var. α . . . Hall.	"	I	204	54	1a, b
Ch.	552	"	latiannulatum . . . Hall.	"	"	35	7	5
Be.	581	Fig'd.	moniliforme . . . Hall.	"	I	45	II	1-1b
Tr.	802	Type.	multicameratum (Con.) . . . H.	Geol. Wis.	1861	47		
			planoconvexum . . . Hall.	Mem. A. M.	I	72	8	24, 25
			Whitfield.					
Ca.	807	Fig'd.	primigenium (Vanux.) . . . H.	Pal. N. Y.	I	13	3	II
"	807	"	" (Vanux.) . . . Whitf.	A. M. N. H.	2	56	10	I
H. R.	1396	Type.	sociale . . . Hall.	Am. P. F.	.....	245	.....
			"	Geol. Wis.	1861	46		
Ft. C.	476	Fig'd.	Whitfield.	Mem. A. M.	I	71	8	16-23
Tr.	801	Type.	sordidum (Bill.) . . . Whitf.	A. M. N. H.	3	34	2	4
			strigatum . . . Hall.	Pal. N. Y.	I	205	56	1a-d
Tr.	804	Type.	subarcuatum . . .	Pal. N. Y.	I	202	43	7a-k
"	803	"	undulostriatum . . . Hall.	"	I	201	43	5a-c
U.	808	Fig'd.	vertebrale . . . Hall.	"	I	311	85	1a
	"	"	sp . . . Hall	"	"	311	85	1b
	"	"	sp . . . Hall	"	"	311	85	1d, f
	"	"	sp . . . Hall	"	"	311	85	2
	"	"	sp . . . Hall	"	"	312	85	3
H. R.	1065	"	sp . . . Hall	"	"	312	86	1d
	1065	"	sp . . . Hall	"	"			
Piloceras Salter.								
Ft. C.	484	Type.	explanator . . . Whitfield.	A. M. N. H.	I	323	28	1-4
"	"	"	" . . .	"	I	325	....	I
Trocholites Conrad.								
Tr.	830	Fig'd.	ammonius (Con.) . . . Hall.	Pal. N. Y.	I	192	40A	4a, d, f-k
H. R.	1144	"	planorbiformis (Con.) . . . Hall.	"	I	310	84	3c-d
	2		"	"	I	310	84	3e, f

Subkingdom VERMES.

Tr.	831	Type.	Conchicolites Nicholson.	Pal. N. Y.	I	92	29	6a, a*, b
			flexuosus . . . Hall.					

LOCALITY.	REMARKS.
Middleville, N. Y.	Internal casts of parts of three individuals.
Mineral Pt., Wis. " "	Fragment consisting of 15 chambers retaining shell. About 10 chambers of small indiv., imbedded, retaining shell.
Middleville, N. Y.	Weathered fragment from near apex of individual.
Watertown, N. Y.	Fragment consisting of about 17 chambers, imbedded.
Middleville, N. Y.	Short fragment retaining shell.
Fort Cassin, Vt.	Cast of about 21 chambers.
Middleville, N. Y.	" " 9 " retaining some shell.
Fort Cassin, Vt.	" " 39 " of a large individual.
Middleville, N. Y.	About 9 chambers, imbedded; shows external surface well.
..... Chazy, N. Y.	Name proposed.
..... Fort Cassin, Vt.	As type of <i>O. subarcuatum</i> , preoccupied. About 34 chambers, imbedded. Shows weathered longitudinal section.
.....	See <i>Orthoceras</i> sp.
..... Watertown, N. Y.	Two considerable fragments; one of them partly denuded of shell.
Near Pulaski, N. Y.	Cast of about 17 chambers retaining some shell.
Middleville, N. Y. " "	See <i>O. sociale</i> . Five fragments retaining more or less shell.
" "	Cast of about 18 chambers retaining some shell.
" "	Imbedded fragment showing external surface.
Watertown, N. Y.	Two fragmentary internal casts of large individuals.
.....	Considerable fragment, imbedded; weathered longitudinal section.
.....	Three weathered casts. The orig. of larger part of fig. 1a is here.
Beloit, Wis.	Two casts. Another frag. cast from Mineral Point is in type series.
Mohawk Valley, N. Y.	Imbedded fragment showing weathered vertical section.
Beekmantown, N. Y.	Fragment showing weathered vertical section.
.....	Name proposed.
Maquoketa Creek, Ia.	As type of <i>O. gregarium</i> , preoccupied.
..... Fort Cassin, Vt.	A block and six parts of individuals. 12 miles N. W. of Dubuque.
..... Middleville, N. Y.	Fragmentary cast of 39 chambers, showing siphon.
..... Middleville, N. Y. " "	A nearly entire individ. and 2 fragm. preserving more or less shell.
..... W. Turin, N. Y.	See <i>O. clintoni</i> .
..... Turin, N. Y. " "	Four fragments.
.....	Annulated outer chamber.
.....	As <i>Endoceras proteiforme</i> (?), but has no "embryo tube". Imbed., compressed fragm., showing 29 chambers besides the outer one.
.....	As <i>E. proteiforme</i> (?). About 35 chambers, imbedded.
.....	" " Three small fragmentary casts.
.....	Imbedded, compressed. Probably same species as following.
.....	As type of <i>O. coralliferum</i> . Much compressed cast, 16 chambers.
.....	" " Compressed cast of about 9 "
.....	The specific name of the last two depends upon the presence of an encrusting bryozoan, a purely adventitious circumstance.
Fort Cassin, Vt. " "	Three internal casts as described in the explanation of the plate.
.....	Internal cast showing about 21 chambers besides outer one.
Middleville, N. Y. Grimsby, Ont. Pulaski ?, N. Y.	A nearly entire individual and three internal casts. Individual showing parts of five volutions. Somewhat crushed cast of 9 chambers, and part of body chamber.
Class ANNELIDA.	
Lowville, N. Y.	As <i>Tentaculites</i> ? A single individual and a group.

Subkingdom ARTHROPODA.

Class

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.			
				Work.	Vol.	P.	Pl.
			Isochilina Jones.				
Ca.	395	Type.	cristata Whitfield.	A. M. N. H.	2	59	13
"		Fig'd.	" (<i>Whitf.</i>) ... Jones.	Q. J. G. S.	46	23	1
"	394	Type.	gregaria Whitfield.	A. M. N. H.	2	58	13
"			" (" (<i>Whitf.</i>) ... Jones.	"	2	58	13
"		Fig'd.	Seelyi Whitfield.	Q. J. G. S.	46	22	1
"?	393	Type.	" (<i>Whitf.</i>) ... Jones.	A. M. N. H.	2	60	13
"?	"	Fig'd.	" (<i>Whitf.</i>) ... Jones.	Q. J. G. S.	46	22	1
			Primitia Jones.				
			? cristata.....				
			gregaria.....				
			Seelyi.....				

Order PHYLLOCARIDA.

Ft. C.	491	Type.	Ribeiria Sharp.	A. M. N. H.	I	344	33	3, 4, 5
"	492	"	compressa Whitfield.	"	I	344	33	I, 2

Order TRILOBITA.

Tr.	858 2	Type.	Acidaspis Murchison.					
			spiniger.....					
			trentonensis Hall.	Pal. N. Y.	I	240	64	4a-g
Ch.	556	Fig'd.	Asaphus Brongniart.					
Ft. C.	493	"	Barrandii.....					
			canalis (Con.) Hall.	Pal. N. Y.	I	25	4 bis	18
			" " .. Whitf.	A. M. N. H.	I	336	34	I, 3
"	"	"	" "		I	336	34	2
"	"	"	" "		I	336	34	4
"	"	"	" "		I	336	34	5
"	"	"	" "		I	336	34	6
"	"	"	" "		I	336	34	7, 8
"	"	"	" "		2	64	11	I
							12	I
Tr.	848 2	Type.	? extans.....					
			gigas (DeKay) Hall.	Pal. N. Y.	I	231	61	4a-c
			Green.	M. Am. Tr.		69	I	7
Ch.	557	"	" "	Hall.	Pal. N. Y.	I	25	4 bis
Tr.	848 1	"	" "	"	"	231	60	7g
"	"	"	" "	"	I	231	60	7i
"	"	"	" "	"	I	231	61	3b
H. R.	848 17	"	" "	"	I	231	61	3d, e
				Geol. Wis.	I	41	...	5
Tr.	848 1	"	" "	Pal. N. Y.	I	231	61	3g
"	"	"	" "	"	I	231	61	3k, m
"	"	"	" "	"	I	231	62	1b
U.	848 20	"	" "	"	I	254	66	5
"	1070	Type.	? latimarginatus Hall.	"	I	253	66	4a, b
			nodosriatus.....					
			vetustus..... Hall.	Pal. N. Y.	I	227	60	I
Be.	613	Type.	Bathyurellus Billings.					
			glandicephalus					

CRUSTACEA.

Order OSTRACODA.

LOCALITY.	REMARKS.
Cove Is., Ball's Bay, Vt.	As <i>Primitia</i> ? Two opposite valves imbedded together.
" "	A right valve imbedded with many others.
" "	As <i>Primitia</i> . A detached left valve.
" "	" " Right valve and int. cast of right valve imbd. together.
Providence Island, L. Champlain, N. Y.	Two right valves imbedded together.
" "	As <i>Primitia</i> . Right valve imbedded with many others, and with type of <i>Murchisonia gracilens</i> , fig. 14 of plate 8.
	Left valve imbedded with many others.
.....	See <i>Isochilina</i> .
.....	" "
.....	" "

Fort Cassin, Vt.	Cast of interior.
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.....	See <i>Bathyurus</i> .
Bay of Quinta, Ont.	Folded individual.
.....	See <i>Ogygia</i> .
Chazy, N. Y.	As <i>Isotelus</i> . Part of a large hypostoma, imbedded.
Fort Cassin, Vt.	Imperfect interior imprints, each retaining some crust.
" "	Small, imperfect glabella, imbedded.
" "	Small, imperfect, left movable cheek, imbedded.
" "	Imperfect cast, large left movable cheek on block with orig. of fig. 8.
" "	" imprint, convex side large hypostoma ; some crust.
" "	" " under side of two pygidia.
" "	" " " " a large individual partly folded and and distorted. Retains much of the crust.
.....	See <i>Bathyurus</i> .
.....	As <i>Isotelus</i> .
Watertown?, N. Y.	As type of <i>Isotelus cyclops</i> . Original of Green's cast No. 24. Almost entirely denuded of crust.
Chazy, N. Y.	As <i>Isotelus</i> . A very small pygid. Species queried in expl. of plate.
Middleville, N. Y.	" " Hypostoma, imbedded.
" "	" " Interior imprint of cranium retaining some crust.
" "	" " " " pygidium.
.....	An almost perfect individual retaining test.
Kentucky.	As <i>Isotelus</i> . Internal cast of pygidium, imbedded.
Middleville, N. Y.	" " Hypostoma.
" "	" " Small pygidium, imbedded.
Near Fort Plain, N. Y.	" " Very large hypostoma, imbedded.
Watertown?, N. Y.	An imb. pygid. and pt. of another ; loc. more prob. Collingw'd, Can.
.....	See <i>Bathyurus extans</i> .
Mohawk Valley?, N.Y.	As <i>Ogygia</i> ? Imprint under side pygidium retaining some test.
.....	See <i>Bathyurus</i> .

Order TRILOBITA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			Bathyurus Billings.					
Ca.	397	Fig'd.	conicus (<i>Bill.</i>) ... <i>Whitf.</i>	A. M. N. H.	2	61	13	15, 16
"	"	"	" " "	" "	2	61	13	17-19
?	408	"	" " "	" "	2	61	13	20, 21
Be.	⁶ / ₂	Type.	caudatus (<i>Bill.</i>) ... <i>Whitf.</i>		3	39	2	14
			extans <i>Hall.</i>	Pal. N. Y.	1	228	60	2c?
Tr.	842	Fig'd.	" "	" "	1	248	61	1a, b
?	500	Type.	glandicephalus <i>Whitfield.</i>	A. M. N. H.	3	38	2	9-13
Ft. C.	499a	"	Perkinsi "	" "	9	183	5	7, 8
Ca.	306	"	Seelyi <i>Whitfield.</i>	" "	2	62	13	8, 9, 11-14
"	"	"	" "	" "	2	62	13	10, ext.
Tr.	854	"	spiniger <i>Hall.</i>	Pal. N. Y.	1	241	64	5, "
?	⁸ / ₃	Fig'd.	? sp. <i>Hall.</i>	" "	1	258	67	3a, b
Ft. C.	494	Gen. and Sp. Type.	Bolbocephalus Whitfield.					
			Seelyi <i>Whitfield.</i>	A. M. N. H.	1	339	33	12-18
"	"	"	" "	" "	3	36	3	3-8
"	495	Type.	? truncatus <i>Whitfield.</i>	" "	3	36	3	1, 2
			Calymene Brongniart.					
Tr.	⁸⁴³	Fig'd.	<i>Becki</i>					
			callicephala (<i>Grn.</i>) . <i>Hall.</i>	Pal. N. Y.	1	238	64	3a-c, n?
H. R.	⁸⁴⁹ ₁₄₀₉	"	" " "	" "	1	238	64	3e-g
"	1408	Type.	Chrystyi <i>Hall.</i>	N. Y. S. M.	13	119		
			mammillata <i>Hall.</i>	Geol. Wis.	15	174	10	2-5
			" "	" "	1861	50		
			<i>senaria</i>	" "	1	432		1, 2
U.	1060	Fig'd.	sp <i>Hall.</i>	Pal. N. Y.	1	253	66	3a
			Ceraurus Green.					
Tr.	⁸⁵⁰ ₁₁	"	pleurexanthemus (<i>Grn.</i>) <i>H.</i>	" "	1	242	65	1b-n
"	"	"	" " "	" "	1	242	66	1a-g
"	"	"	" " "	" "	1	242	66	1h
			<i>postulosus</i>					
			<i>vigilans</i>					
			Dalmania Emmrich					
			<i>breviceps</i>					
			Dalmanites Barrande.					
H. R.	1410	Type.	<i>breviceps</i> <i>Hall.</i>	N. Y. S. M.	24	223	8	15, 16
Tr.	849	Fig'd.	<i>callicephala</i> <i>Hall.</i>	Pal. N. Y.	1	247	65	3a-i
"			" "	" "	1	245	65	ze
			Enocrinurus Emmrich.					
"	851	Type.	<i>vigilans</i> <i>Hall.</i>	" "	1	245	65	2a-d, f-h
			Harpes Goldfuss.					
Ft. C.	503	"	cassinensis ... <i>Whitfield.</i>	A. M. N. H.	9	182	5	3, 4
Tr.	841	"	pustulosus <i>Hall.</i>	Pal. N. Y.	1	246	61	2a, b
			Illaeus Dalman.					
"	⁸⁴⁵	Fig'd.	crassicauda (<i>Wahl.</i>) . <i>Hall.</i>	" "	1	229	60	4a, b
"	⁸⁴⁵	"	" " "	" "	1	229	60	4c, d
"	846	Type.	latidorsatus <i>Hall.</i>	" "	1	230	60	6a, b
"	¹⁰ / ₃	"	ovatus <i>Conrad.</i>	P. A. N. S.	1	332	..	
"	"	Fig'd.	" (<i>Conrad.</i>)	Pal. N. Y.	1	259	67	6a, b
			" " "	" "	1	259	67	6a(lower)

LOCALITY.	REMARKS.
Beekmantown, N. Y.	Internal cast of cranidium retaining some test.
" "	Three imperfect internal casts of cranidia retaining some test.
" "	Pygidium, imbedded.
Bridport, Vt.	Internal cast pygidium. From above the Fort Cassin beds.
Lowville, N. Y.	As <i>Asaphus</i> ? Int. impr. pygid. and pt. of thorax ret'g some test. Ref. to this figure by Prof. Hall, but does not agree closely with it.
Watertown, N. Y.	As type of <i>Asaphus? nodostriatus</i> . Glabella, imbedded.
Shoreham, Vt.	As <i>Bathyurellus</i> ? Internal imprint of cranidium and of pygidium, each with some test. From above Fort Cassin beds.
Fort Cassin, Vt.	Two glabellas. Genal angles completed from the larger specimen.
Beekmantown, N. Y.	Imperfect interior imprints, three specimens.
" "	Left movable cheek, imbedded. See also <i>Bolbocephalus</i> .
Mohawk Valley, N. Y.	As <i>Acidaspis</i> . Glabella, imbedded.
Snake Hill, Saratoga Co., N. Y.	As type of <i>Olenus undulostriatus</i> . Exterior imprint, cephalic shield and first six thoracic segments.
.....	As <i>Bathyurus</i> ?
Fort Cassin, Vt.	Generic type. Casts of two cranidia, an imperfect right movable cheek and three pygidia. Some crust.
" "	Cast of small cranidium retaining small pieces of test.
	" pygidium retaining some test.
.....	See <i>Triarthrus</i> .
Middleville, N. Y.	As <i>C. senaria</i> Con. An exfoliated individual, a small, nearly per- fect one, and an exterior imprint of a glabella.
Cincinnati, O.	As <i>C. senaria</i> Con. Small, folded individual.
4 m. west of Oxford, O.	Two folded individuals, one of which is very perfect.
Maquoketa Cr., 12 m. N. W. of Dubuque, Ia.	A large, partly exfoliated cranidium and a pygidium, imbedded separately. Four unfigured types in the series.
.....	See <i>C. calicephala</i> .
Canajoharie, N. Y.	Internal cast of about nine thoracic segments retaining some test.
.....	Ten specimens showing the parts represented.
Middleville, N. Y.	Head and seven thoracic segments of very large individual.
" "	Right movable cheek, imbedded. Figure not lettered on plate.
.....	See <i>Harpes</i> .
	" <i>Dalmanites calicephala</i> and <i>Encrinurus vigilans</i> .
.....	= <i>Dalmanites</i> .
	See " "
.....	As <i>Dalmaia</i> . Internal cast retaining some test.
Lebanon, O.	" <i>Phacops</i> . The parts as represented. Five specimens.
Middleville, N. Y.	" <i>Ceraurus vigilans</i> . A pygidium, imbedded.
" "	As <i>Ceraurus</i> . Three individuals, imbedded separately. There are eleven unfigured types in the series.
Fort Cassin, Vt.	Two cephalia, imbedded.
Watertown, N. Y.	As <i>Ceraurus</i> ? Int. cast of left mov. cheek and spine, imbedded.
.....	Two cranidia, imbedded separately.
Middleville, N. Y.	A small individual considerably exfoliated.
Watertown, N. Y.	Head and part of thorax, imbedded, partly crushed.
.....	As <i>Thaleops</i> .
Mineral Pt., Wis.	" " (" <i>Illanous</i>). Individual preserving most of test. Internal imprint with some of test.

Order TRILOBITA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Tr.	1012 1	Type.	<i>Illænus</i> Dalman— <i>Cont.</i> <i>taurus</i> <i>Hall.</i> <i>Whitfield.</i>	Geol. Wis.	1861	49		
"	1012 2	"	"..... <i>Hall.</i> <i>Whitfield.</i>	Mem. A. M.	I	73	12	4-7
"	1012 3	Fig'd.	"..... <i>(Hall.) Whitfield.</i>	Geol. Wis.	1861	49		
"	842 2	"	<i>trentonensis</i> (<i>Emmons</i>) <i>H.</i>	Mem. A. M.	I	73	12	8
				" "	I	73	12	9
				Pal. N. Y.	I	230	60	5
			<i>Isotelus</i> DeKay.					
			<i>canalis</i>					
			<i>cyclops</i>					
			<i>gigas</i>					
			<i>Lichas</i> Dalman.					
Ft. C.	567	Type.	<i>champlainensis</i> <i>Whitfield</i>	A. M. N. H.	I	342	33	6-8
Tr.	852 1	Fig'd.	<i>trentonensis</i> (<i>Conr.</i>) <i>Hall.</i>	Pal. N. Y.	I	235	64	1a, b
"	852 1	"	"....."	" "	I	235	64	1c, d
Ft. C.	509	Type.	<i>Nileus</i> Dalman. <i>striatus</i> <i>Whitfield.</i>	A. M. N. H.	9	184	5	5, 6
Tr.	1015 3	"	<i>Ogygia</i> Brongniart.					
"	1015 4	"	<i>Barrandii</i> <i>Hall.</i>	Lake Sup.	2	210	27	1a
"	1015 5	"	"....."	" "	2	210	27	1b, c
"	1015 6	"	"....."	" "	2	210	27	1d
"	1015 7	"	"....."	Geol. Wis.	I	41	...	4
			? <i>vetusta</i>	Lake Sup.	2	210	28	1
			<i>Olenus</i> Dalman.					
			<i>Thompsoni</i>					
			<i>undulostriatus</i>					
			<i>vermontanus</i>					
			<i>Phacops</i> Emmrich.					
			<i>callicephala</i>					
			<i>Platynotus</i> Conrad.....					
			<i>trentonensis</i>					
H. R.	4493	Type.	<i>Proetus</i> Steininger. <i>parviusculus</i> <i>Hall.</i>	N. Y. S. M.	I3	120		
				" "	24	223	8	14
Be.	568	Type.	<i>Sao</i> Barrande. ? <i>lamontensis</i> <i>Whitfield.</i>	A. M. N. H.	I	334	33	9, 10
"	"		"....."	" "	I	334	33	11
			<i>Thaleops</i> Conrad.....					
			<i>ovata</i>					
Tr.	839	Fig'd.	<i>Triarthrus</i> Green.					
U.	839 6	"	<i>Becki</i> (<i>Green</i>)..... <i>Hall.</i>	Pal. N. Y.	I	237	64	2a-e
"	839 8	"	"....."	" "	I	250	66	2b
Tr.?	839	"	"....."	" "	I	250	66	2c,d
U.	839 5	"	"....."	" "	I	250	66	2g
"	839 5	"	"....."	" "	I	250	66	2h
"	839 6	"	"....."	" "	I	250	66	2i
"	839 6	"	"....."	" "	I	250	66	2j,k
					I	250	66	3b
Tr.	844 2	Fig'd.	<i>Trinucleus</i> Llwydd.					
"	844 2	"	<i>concentricus</i> (<i>Eaton</i>) <i>Hall.</i>	" "	I	249	65	4a
H. R.	844 5	"	"....."	" "	I	249	65	4c
"	844 5	"	"....."	" "	I	255	67	1a-c
"	844 6	"	"....."	" "	I	255	67	1g
					I	255	67	1h

LOCALITY.	REMARKS.
Mineral Pt., Wis.	Entire, folded, retains most of test.
Rockford, Ill. Near Wilmington, Ill. Hogansburgh, N. Y.	Internal cast cranidium, imbedded. From the Galena horizon. " " pygidium retaining part of test. The orig. came from a boulder and was lost prior to 1847. It is represented in the Museum by a plaster cast of Emmons's type spec. = <i>Asaphus</i> . See "
	" " <i>gigas</i> .
	" " Part of cephalic shield, imbedded.
Isle La Motte, Vt. Carlisle, Penn. Middleville, N. Y.	Int. imprint of pygidium retaining some test; margin imperfect. As <i>Platynotus</i> . Imperf. cranidium and pygidium, imb. separately. " " Part of cephalic shield, imbedded.
Fort Cassin, Vt.	Cranidium, imbedded. Figures are enlargements $\times 3$.
St. Joseph's Is., Ont. Platteville, Wis.	As <i>Asaphus</i> . A considerably exfoliated glabella, imbedded. " " Exfol. cranid. and a left mov. cheek, imb. separately.
Platteville, Wis. " "	" " Imperfect pygidium, imbedded. " " Interior imprint with hypostoma in place. See <i>Asaphus</i> .
	See <i>Olenellus</i> . " <i>Bathyurus</i> sp. " <i>Olenellus</i> .
	See <i>Dalmanites</i> . = <i>Lichas</i> . See "
Cincinnati, O.	Somewhat distorted individual, restored in figure.
Isle La Motte, Vt. " "	Interior imprint of cranidium, retaining some of test. Figure combined from two thoraces imbedded in same block. = <i>Illeenus</i> . See "
Middleville, N. Y. Canajoharie, N. Y. Turin, N. Y. Middleville?, N. Y. Lewis Co., N. Y. Near Johnstown, N. Y. Turin, N. Y. Canajoharie, N. Y.	As <i>Calymene</i> . Three specimens, imbedded. " " Cephalic shield and thorax, imb., mostly exfoliated " " Two specimens, imbedded separately. " " Cephalic shield, imbedded. " " Thorax and pygid. of a small individual imbedded. " " The hypostoma (?) represented in the figure. " " Four specimens were used in making these figures. " " sp. Pygidium and about six thoracic segments.
Middleville, N. Y. Glens Falls, N. Y. Lorraine, N. Y. Turin, N. Y. Waterford, N. Y.	Cephalic shield preserving one cheek spine, imbedded. " " " the occipital cheek spine, imbedded. A large individ. imbedded, and int. impr. of a rather small individ. Head with genal angles wanting, imbedded. Pygidium and about five thoracic segments, imbedded.

ADDENDUM to pp. 14 and 56.

Sphenothallus angustifolius *Hall*, Pal. N. Y., Vol. I, p. 261, pl. 68, fig. 1.
Canajoharie, N. Y. Hudson River Group. Cat. No. ¹⁴⁵1. Gen. and Sp. Type.

This species has been shown by R. Ruedemann, American Geologist, Vol. 17, pp. 163 and 165, 1896, to have the characteristics of a *Conularia*, instead of those of a marine plant, as originally indicated by Prof. Hall. The specimen in question, when examined under a strong glass, shows the fine transverse lines of a *Conularia*. This specimen was deposited in the Museum under certain conditions in June, 1898, by Prof. James Hall.

CORRIGENDA.

Pages 8 and 9, For **Barrandia** *Hall* See *Olenellus*, read *Barrandia* *Hall* = *Olenellus*.

Page 16, For de France read Defrance.