

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

*Part IV, Lower Carboniferous to Pleistocene, inclusive.*

Lower Carboniferous. Kingdom PLANTÆ.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Wav.	4980 1	Type.	<b>Lepidodendron</b> Sternberg. corrugatum, . . . . . Dawson.	Q. J. G. S.	18	313	12	10a, b
"	4981 1	"	<b>Syringodendron</b> Sternberg. gracile. . . . . Dawson.	" "	18	308	13	14a, b

Kingdom ANIMALIA. \* Subkingdom

St. L.	5244 1	Type.	<b>Endothyra</b> Phillips. Baileyi . . . . . Hall.	T. A. I.	4	34		
				Whitf. A. M. N. H.	1	42	9	34, 35
				Hall. Geol. Ind.	12	321	32	34, 35
"	5244 2	"	" (Hall) . . . . . Whitf.	A. M. N. H.	1	42	9	36
				Hall. Geol. Ind.	12	321	32	36
"	5244 3	"	" . . . . . "	T. A. I.	4	34		
			<b>Rotalia</b> Lamarck. Baileyi . . . . .					

Subkingdom PORIFERA.

Wav.	4982 1	Type.	<b>Calathospongia</b> H. & C. carceralis . . . . . H. & C.	Pal. Sp.		157	51	4				
				Hall. N. Y. S. M.	16	87	4	3				
				H. & C. " "	50	349	51	4				
				" " St. G. N. Y.	16	349	51	4				
				" " N. Y. S. M.	16	88	5	1				
				" " " "			5a	1				
				" " N. F. D.			17	9				
				" " N. Y. S. M.	35	474	18	9				
				" " H. & C. Pal. Sp.		155	49	2-4				
				" " " N. Y. S. M.	50	347	49	2-4				
				" " " St. G. N. Y.	16	347	49	2-4				
				" " " Pal. Sp.		155	49	1				
				" " " N. Y. S. M.	50	347	49	1				
				" " " St. G. N. Y.	16	347	49	1				
" "	4983 1	Type.	? sacculus . . . . . Hall.	N. Y. S. M.	35	473						
				" "	16	88	4	6				
				" " H. & C. Pal. Sp.		160	50	7				
				" " N. Y. S. M.	50	352	50	7				
				" " " St. G. N. Y.	16	352	50	7				
				" " Dictyophyton Hall . . . . .								
				" " catilliforme . . . . .								
				" " cylindricum . . . . .								
				" " Newberryi . . . . .								
				" " Redfieldi . . . . .								
				" " sacculum . . . . .								
				Keok.	4985 1	Gen. and Sp. Type.	<b>Dictyospongia</b> H. & C. cylindrica . . . . . Whitf.	A. M. N. H.	1	19	4	3
								Hall. N. Y. S. M.	35	475		
								H. & C. Pal. Sp.		166	55	3
" " N. Y. S. M.	50	358	55					3				
" " St. G. N. Y.	16	358	55					3				

NOTE.—General remarks and the explanation of abbreviations used in this part of the Catalogue, but not in the preceding parts, will be found on the pages immediately following the tabulated matter.

## Subkingdom CRYPTOGRAMIA.

LOCALITY.	REMARKS.
Akron, Ohio.	A small fragment, imbedded.
“ “	External imprint retaining a little carbonaceous substance.

## PROTOZOA.

## Class RHIZOPODA.

.....	As <i>Rotalia Baileyi</i> .
Bloomington, Ind.	A symmetrical individual. Twenty-nine other individuals from this locality are in the original type series.
Spergen Hill, Ind.	An unsymmetrical individual. Twenty-nine other individuals from this locality are in the original type series.
Alton, Ill.	As <i>Rotalia Baileyi</i> . Thirty individuals which formed a part of the original type series.
.....	See <i>Endothyra Baileyi</i> .

## Class PLETHOSPONGIÆ.

.....	As <i>Dictyophyton Newberryi</i> Hall ?
Richfield, Ohio.	Cast.
.....	As <i>Dictyophyton Redfieldi</i> .
.....	“ “
.....	“ <i>Phragmodictya ? Redfieldi</i> . Reduced figure.
.....	“ <i>Dictyophyton ? Redfieldi</i> .
.....	Made the type of the new genus <i>Calathospongia</i> .
Harrisville, Ohio.	Cast, practically entire.
Richfield, Ohio.	Part of a cast.
.....	As <i>Dictyophyton sacculus</i> .
.....	“ “ <i>Redfieldi ?</i>
Richfield, Ohio.	Cast.
.....	This name has been abandoned, because the organisms to which it was applied are animals, not plants.
.....	See <i>Phragmodictya catilliformis</i> .
.....	“ <i>Dictyospongia cylindrica</i> .
.....	“ <i>Thamnodictya Newberryi</i> and <i>Calathospongia carceralis</i> .
.....	“ <i>Calathospongia Redfieldi</i> and <i>Calathospongia sacculus</i> .
.....	“ “ <i>sacculus</i> .
.....	As <i>Dictyophyton cylindricum</i> .
.....	“ “
.....	Made type of new genus <i>Calathospongia</i> .
Crawfordsville, Ind.	Imbedded, pyritized fragment showing the spicules.

Class PLETHOSPONGIÆ—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Ectenodictya</b> Hall.					
			<i>burlingtonensis</i> .....					
			<b>Lyrodictya</b> Hall.					
Kind.	4986 1	Type.	? <i>burlingtonensis</i> ..... Hall.	N. Y. S. M.	35	476		
			" <i>H. &amp; C.</i>	Pal. Sp.		165	53	6
			"	N. Y. S. M.	50	357	53	6
			"	St. G. N. Y.	16	357	53	6
			<b>Phragmodictya</b> Hall.					
Keok.	4987 1	Gen. and Sp. Type.	<i>catilliformis</i> ..... Whitf.	A. M. N. H.	1	18	3	
			" <i>Hall.</i>	N. Y. S. M.	35	477	18	14
			" <i>H. &amp; C.</i>	Pal. Sp.		173	64	5
			"	N. Y. S. M.	50	365	64	5
			"	St. G. N. Y.	16	365	64	5
			<i>Newberryi</i> .....					
			<i>Redfieldi</i> .....					
			<b>Physospongia</b> Hall.					
Keok.	4988 1	Gen. and Sp. Type.	<i>Dawsoni</i> .....	Am. J. Sci.	III, 22	132		
			"	A. M. N. H.	I	16	4	1
			"					
			<i>multibursaria</i> ... H. & C.	Pal. Sp.		196		45
			"				61	7
			"	N. Y. S. M.	50	388		45
			"				61	7
			"	St. G. N. Y.	16	388		45
			"				61	7
			<b>Thamnodictya</b> Hall.					
Wav.	4990 1	Gen. and Sp. Type.	<i>Newberryi</i> ..... Hall.	N. Y. S. M.	16	87	4	1, 4
			"	N. F. D.			17	10
			"	N. Y. S. M.	35	477	18	10
			" <i>H. &amp; C.</i>	Pal. Sp.		161	50	1, 6
			"	N. Y. S. M.	50	353	50	1, 6
			"	St. G. N. Y.	16	353	50	1, 6
			"	N. Y. S. M.	16	87	4	2
			"	N. F. D.			17	11
			"	N. Y. S. M.	35	477	18	11
			" <i>H. &amp; C.</i>	Pal. Sp.		160	50	5
			"	N. Y. S. M.	50	353	50	5
			"	St. G. N. Y.	16	353	50	5
			<b>Uphantænia</b> Vanuxem.					
			<i>Dawsoni</i> .....					

Subkingdom CŒLENTERATA.

Kind.	4991 1	Type.	<b>Favosites</b> Lamarck.					
			<i>divergens</i> (W. & W.)					
			" <i>A. Winchell.</i>	P. A. N. S.	17	112		
			" <i>W. &amp; W.</i>	B. S. N. H.	8	306		
			" <i>White.</i>	Wheeler Survey	Prelim. Rept.	15		
			"	"	"			
			"	"	"			
			"			4	79	5
			"					4



LOCALITY.	REMARKS.
.....	See <i>Lyrodiclyta burlingtonensis</i> .
.....	As <i>Ectenodictya burlingtonensis</i> .
Burlington, Ia.	Imperfect imprint in the dark yellow, mottled sandstone.
.....	As <i>Dictyophyton catilliforme</i> .
.....	Given as the type of the genus <i>Phragmodictya</i> .
Crawfordsville, Ind.	A very large, compressed example, imbedded.
.....	See <i>Thamnodictya Newberryi</i> .
.....	" <i>Calathospongia Redfieldi</i> .
.....	As <i>Uphantania Dawsoni</i> .
Crawfordsville, Ind.	" " " " The specimen described and its counterpart. The generic name <i>Physospongia</i> was first used by Hall in N. F. D., expl. pl. 19, and was first described in the 35th Rept. N. Y. S. M., pp. 467 and 469, with this species as the type, but this specimen was not figured by Hall.
" "	Large fragment, imbedded.
.....	As <i>Dictyophyton Newberryi</i> .
.....	" <i>Phragmodictya Newberryi</i> .
.....	New genus <i>Thamnodictya</i> described on p. 466 of same report.
Richfield, Ohio.	A well preserved internal cast and its external imprint.
.....	As <i>Dictyophyton Newberryi</i> .
.....	" <i>Phragmodictya Newberryi</i> .
Cuyahoga Falls, Ohio.	Internal cast. The counterpart (external imprint) of the specimen illustrated by fig. 2, pl. 50, Pal. Sp., is present.
.....	See <i>Physospongia Dawsoni</i> .
Class ACTINOZOA.	
.....	As <i>Favosites</i> —.
Burlington, Ia.	As type of <i>Favosites Whitfieldi</i> White. This reference to White's "Preliminary report upon the invertebrate fossils collected by the expeditions of 1871, 1872 and 1873, with descriptions from species," has been taken from vol. 4 of final report as next cited here. A small, weatherworn mass.

Class ACTINOZOA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Favosites</b> Lamarck.— <i>Cont.</i>					
			<i>Whitfieldi</i> .....	B. S. N. H.	8	306		
			<i>sp.</i> .....					
St. L.	4992 1	Type.	<b>Lithostrotion</b> Llhwyd. <i>proliferum</i> ..... <i>Hall.</i>	Geol. Ia.	I, pt. 2	668	24	6a, b
"	"	"	" .....	" "	I, pt. 2	668	24	6c
Kind.	4993 1	"	<b>Lophophyllum</b> E. & H. <i>calceola</i> .....	<i>W. &amp; W.</i>	B. S. N. H.	8	305	
"	4994 1	"	<b>Zaphrentis</b> Rafinesque. <i>acuta</i> ..... <i>W. &amp; W.</i>	" "		8	306	

Class CRINOIDEA.

			<b>Actinocrinus</b> Miller.					
			<i>agilops</i> .....					
			<i>clarus</i> .....					
			<i>clypeatus</i> .....					
			<i>discoideus</i> .....					
			<i>divergens</i> .....					
			<i>equibrachiatus</i> , var. <i>alatus</i>					
			<i>glans</i> .....					
			<i>inflatus</i> .....					
			<i>inornatus</i> .....					
			<i>Laura</i> .....					
			<i>lepidus</i> .....					
			<i>limabrachiatus</i> .....					
			<i>matuta</i> , var. <i>attenuatus</i> .					
			<i>oblatus</i> .....					
			<i>olliculus</i> .....					
			<i>opusculus</i> .....					
			<i>papillatus</i> .....					
			<i>pendens</i> .....					
			<i>pentagonus</i> .....					
			<i>proboscidiialis</i> .....					
			<i>pyramidatus</i> .....					
			<i>quaternarius</i> .....					
			<i>rusticus</i> .....					
Burl.	4995 1	Fig'd.	<i>scitulus</i> ( <i>M. &amp; W.</i> ) <i>Hall.</i>	Ia. Crin.		2		
			" .....	D. N. S. C.		267		
			<i>Whitf.</i>	Mem. A. M.	I	10	I	13
Keok.	4996 1	Type.	<i>semimultiramus</i> . <i>Whitf.</i>	A. M. N. H.	I3	23	3	
			<i>thetis</i> .....					
			<i>tricornis</i> .....					
			<i>turbinatus</i> .....					
			" var. <i>elegans</i> ..					
			<i>unicornis</i> .....					
			<i>Whitei</i> .....					
			<b>Agaricocrinus</b> Troost.					
Burl.	4997 1	Type.	<i>bellatrema</i> .....	Ia. Crin.		3		
			<i>excavatus</i> ..... <i>Hall.</i>	"		282		
			<i>Whitf.</i>	Mem. A. M.	I	26	2	14-16

LOCALITY.	REMARKS.
.....	See <i>Favosites divergens</i> .
.....	" " " "
Johnson's Landing, Ill.	A small, branching colony, imbedded; and one which has been cut longitudinally.
" "	A fragment which shows a solid axis, contrary to the representation of the figure.
Burlington, Ia.	The two small calyces which were indicated as the types.
" "	A small, nearly perfect calyx.
.....	See <i>Telocrinus agilops</i> .
.....	" <i>Cactocrinus clarus</i> .
.....	" <i>Batocrinus clypeatus</i> .
.....	" " <i>discoideus</i> .
.....	" <i>Amphoracrinus divergens</i> .
.....	" <i>Batocrinus æquibrachiatus</i> , var. <i>alatus</i> .
.....	" <i>Cactocrinus glans</i> .
.....	" <i>Amphoracrinus inflatus</i> .
.....	" <i>Batocrinus inornatus</i> .
.....	" " <i>Laura</i> .
.....	" " <i>lepidus</i> .
.....	" <i>Cactocrinus limibrachiatus</i> .
.....	" <i>Eretmocrinus attenuatus</i> .
.....	" <i>Batocrinus oblatum</i> .
.....	" <i>Periechocrinus Whitei</i> .
.....	" <i>Cactocrinus opusculus</i> .
.....	" <i>Batocrinus papillatus</i> .
.....	" <i>Dorycrinus pendens</i> .
.....	" <i>Steganocrinus pentagonus</i> .
.....	" <i>Cactocrinus proboscidiatis</i> .
.....	" <i>Agaricocrinus pyramidatus</i> .
.....	" <i>Cactocrinus proboscidiatis</i> .
.....	" <i>Actinocrinus scitulus</i> .
.....	As type of <i>Actinocrinus rusticus</i> Hall.
Burlington, Ia.	" " " " " " Three calyces are marked
Near Salem, Ind.	as being Hall's types.
.....	Two weathered individuals imbedded in the same block.
.....	See <i>Cactocrinus thetis</i> .
.....	" <i>Dorycrinus tricornis</i> .
.....	" <i>Batocrinus turbinatus</i> .
.....	" " " var. <i>elegans</i> .
.....	" <i>Dorycrinus unicornis</i> .
.....	" <i>Periechocrinus Whitei</i> .
.....	See <i>Agaricocrinus ornotrema</i> .
.....	As " ( <i>Amphoracrinus</i> ) <i>excavatus</i> .
Burlington, Ia.	A calyx.

## Class CRINOIDEA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Burl.	4999 1	Type.	<b>Agaricocrinus</b> Troost- <i>Con.</i>					
			ornotrema ..... <i>Hall.</i>	Ia. Crin.		3		
			"	D. N. S. C.		281		
			<i>Whitf.</i>	Mem. A. M.	1	24	2	19-22
"	4999 1	"	pentagonus ..... <i>Hall.</i>	Ia. Sup.		57		
			<i>Whitf.</i>	Mem. A. M.	1	25	2	17, 18
"	5000 1	"	pyramidatus ..... <i>Hall.</i>	Geol. Ia.	1, pt. 2	565		
			<i>Whitf.</i>	Mem. A. M.	1	23	2	23-25
"	5001 1	"	<b>Amphocrinus</b> Austin.					
			divergens ..... <i>Hall.</i>	Ia. Sup.		36		
			<i>Whitf.</i>	Mem. A. M.	1	21	2	12, 13
"	5002 1	"	inflatus ..... <i>Hall.</i>	Ia. Sup.		20		
			<i>Whitf.</i>	Mem. A. M.	1	22	2	10, 11
"	5003 1	"	<b>Batocrinus</b> Casseday.					
			æquibrachiatus <i>McChesney,</i>					
			<i>var. alatus</i> ..... <i>Hall.</i>	Ia. Crin.		1		
			<i>Whitf.</i>	D. N. S. C.		263		
				Mem. A. M.	1	11	1	14
"	5004 1	"	bisbrachiatus... <i>Whitf.</i>	Mem. A. M.	1	13	2	4, 5
"	5005 1	"	clypeatus ..... <i>Hall.</i>	Ia. Sup.		12		
"	5006 1	"	discoideus ..... <i>Hall.</i>	Geol. Ia.	1, pt. 2	594		
			<i>Whitf.</i>	Mem. A. M.	1	14	1	19, 20
"	5007 1	"	inornatus ..... <i>Hall.</i>	Ia. Sup.		24		
			<i>Whitf.</i>	Mem. A. M.	1	15	2	1-3
"	5008 1	"	Laura ..... <i>Hall.</i>	Ia. Crin.		15		
			<i>Whitf.</i>	Mem. A. M.	1	17	1	15, 16
"	5009 1	"	lepidus ..... <i>Hall.</i>	Ia. Sup.		32		
			<i>Whitf.</i>	Mem. A. M.	1	16	1	17, 18
"	5010 1	"	oblatus ..... <i>Hall.</i>	Ia. Sup.		38		
			<i>Whitf.</i>	Mem. A. M.	1	12	1	21, 22
"	5011 1	"	papillatus ..... <i>Hall.</i>	Ia. Sup.		29		
"	5012 1	"	turbinatus ..... <i>Hall.</i>	Geol. Ia.	1, pt. 2	587		
"	5013 1	"	" <i>var. elegans,</i> "	" "	1, pt. 2	588		87
"	5014 1	"	<b>Cactocrinus</b> W. & S.					
			clarus ..... <i>Hall.</i>	Ia. Crin.		2		
			"	D. N. S. C.		277	3	25
			<i>Whitf.</i>	Mem. A. M.	1	8	1	4, 5
"	5015 1	"	glans ..... <i>Hall.</i>	Ia. Sup.		16		
			<i>Whitf.</i>	Mem. A. M.	1	10	1	11, 12

LOCALITY.	REMARKS.
Burlington, Ia.	As <i>Agaricocrinus</i> ( <i>Amphoracrinus</i> ) <i>bellatrema</i> Hall, without any statement, however, that the name was to take the place of <i>Agaricocrinus ornotrema</i> .
" "	Two imperfect, weathered calyces. <i>Agaricocrinus bellatrema</i> Hall is the name used by W. & S., N. A. C., p. 506.
" "	A free calyx and an imbedded one. This species is regarded by W. & S. as synonymous with <i>Agaricocrinus bullatus</i> Hall. Vid. N. A. C., p. 493.
Burlington, Ia.	As <i>Actinocrinus pyramidatus</i> . Two entire calyces.
Burlington, Ia.	As <i>Actinocrinus divergens</i> . A macerated crown with displaced plates, imbedded, and a separated dorsal cup.
Burlington, Ia.	As <i>Actinocrinus inflatus</i> . A slightly crushed calyx. Regarded by W. & S. as a synonym of <i>Amphoracrinus spinobrachiatus</i> Hall. Vid. N. A. C., p. 591.
Burlington, Ia.	As <i>Actinocrinus equibrachiatus</i> , var. <i>alatus</i> . " " " " " "
" "	A calyx which has been somewhat flattened vertically. Referred to <i>Lobocrinus aquibrachiatus</i> , var. <i>asteriscus</i> M. & W. by W. & S., N. A. C., p. 441.
" "	Half of a crown with stomach plate in place. Referred to <i>Eutrochocrinus Christyi</i> Shumard by W. & S., N. A. C., p. 409.
Burlington, Ia.	As <i>Actinocrinus clypeatus</i> . A calyx, somewhat compressed vertically. One of the original series, but not figured.
Burlington, Ia.	As <i>Actinocrinus discoideus</i> . A calyx. A second, more elongated calyx is also marked as a type. W. & S. use the name <i>Batocrinus subaqualis</i> McChesney for this species, N. A. C., p. 369.
Burlington, Ia.	As <i>Actinocrinus inornatus</i> . A calyx of medium size. W. & S., N. A. C., p. 380, make this a synonym of <i>Batocrinus clypeatus</i> Hall.
Burlington, Ia.	As <i>Actinocrinus Laura</i> : A calyx.
Burlington, Ia.	As <i>Actinocrinus lepidus</i> . A calyx.
Rocheferd, Mo.	As <i>Actinocrinus oblatum</i> . A somewhat distorted calyx. A more rotund specimen is marked as another type. It is <i>Dizygocrinus rotundus</i> , according to W. & S., N. A. C., p. 432.
Burlington, Ia.	As <i>Actocrinus papillatus</i> . A partly imbedded calyx. One of the original series, but not figured.
" "	As <i>Actinocrinus turbinatus</i> . A calyx of the original series which was not figured.
" "	As <i>Actinocrinus turbinatus</i> , var. <i>elegans</i> . Calyx and part of proboscis. The specimen from which the diagram was made.
Burlington, Ia.	<i>Actinocrinus clarus</i> . " " " " " "
Burlington, Ia.	A nearly normal dorsal cup and one that has been flattened. As <i>Actinocrinus glans</i> .
Burlington, Ia.	A calyx which was used in the original description.

## Class CRINOIDEA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Burl.	5016 1	Type.	<b>Cactocrinus</b> W. & S.— <i>Cont.</i>	Ia. Crin.	2			
			limibrachiatus..... <i>Hall.</i>	D. N. S. C.	268			
			<i>Whitf.</i>	Mem. A. M.	I	5	I	8, 9
	5017 1	"	opusculus..... <i>Hall.</i>	Ia. Sup.			2	6
			<i>Whitf.</i>	D. N. S. C.	264			
	5018 1	Gen. and Sp. Type.	proboscidalis..... <i>Hall.</i>	Mem. A. M.	I	9	I	6, 7
		Fig'd.	<i>Whitf.</i>	Geol. Ia.	I, pt. 2	584	10	13
			<i>Whitf.</i>	Ia. Sup.		22		
			<i>Whitf.</i>	Mem. A. M.	I	7	I	1-3
	5019 1	Type.	thetis..... <i>Hall.</i>	Ia. Crin.		11		
			<i>Whitf.</i>	Mem. A. M.	I	6	I	10
	5020 1	"	<b>Cæliocrinus</b> White.					
			dilatatus..... <i>Hall.</i>	Ia. Crin.		6		
			<i>Whitf.</i>	D. N. S. C.		300		
			<i>Whitf.</i>	Mem. A. M.	I	33	3	18
			<b>Cyathocrinus</b> Miller.					
			<i>Lyon.</i>					
Keok.	5021 1	Fig'd.	multibrachiatus (L. & C.) <i>Hall.</i>	D. N. S. C.			5	4-6
Burl.	5022 1	Type.	sculptilis..... <i>Hall.</i>	Ia. Sup.		59		
			<i>Whitf.</i>	Mem. A. M.	I	29	3	10-12
	5023 1	"	viminalis..... <i>Hall.</i>	Ia. Crin.		5		
			<i>Whitf.</i>	D. N. S. C.		299		
			<i>Whitf.</i>	Mem. A. M.	I	28	3	7
	5024 1	"	<b>Dorycrinus</b> F. Roemer.					
			pendens..... <i>Hall.</i>	Ia. Sup.		31		
			<i>Whitf.</i>	Mem. A. M.	I	18	2	9
	5025 1	"	tricornis..... <i>Hall.</i>	Geol. Ia.	I, pt. 2	569		
			<i>Whitf.</i>	Mem. A. M.	I	19	2	6-8
	5026 1	Fig'd.	unicornis ( <i>Ow. &amp; Sh.</i> ) <i>H.</i>	Geol. Ia.	I, pt. 2	568	10	5a-c
	5027 1	Type.	<b>Eretmocrinus</b> L. & C.					
			attenuatus..... <i>Hall.</i>	Ia. Crin.		14		
			<i>Whitf.</i>	Mem. A. M.	I	18	I	23, 24
Keok.	5028 1	"	<b>Eupachycrinus</b> M. & W.					
			orbicularis..... <i>Hall.</i>	Ia. Crin.		7		
			<i>Whitf.</i>	D. N. S. C.		311		
			<i>Whitf.</i>	Mem. A. M.	I	30	3	8, 9
			<b>Forbesiocrinus</b> de K. & le Hon.					
			<i>Giddingei.</i>					
			<i>juvenis</i>					
Burl.	5029 1	Type.	<b>Gilbertsocrinus</b> Phillips.					
			papillatus..... <i>Hall.</i>	Ia. Sup.		76		
			<i>Whitf.</i>	Mem. A. M.	I	36	3	23
	5030 1	"	<b>Graphiocrinus</b> de K. & le Hon.					
			tortuosus..... <i>Hall.</i>	Ia. Crin.		7		
			<i>Whitf.</i>	D. N. S. C.		309		
			<i>Whitf.</i>	Mem. A. M.	I	32	3	15-17

LOCALITY.	REMARKS.
	As <i>Actinocrinus limabrachiatus</i> .
Burlington, Ia.	" " " A set of arms used in the original description.
	As <i>Actinocrinus opusculus</i> . Described in explanation of plate.
Burlington, Ia.	" " " A dorsal cup.
	" " " <i>proboscidualis</i> Hall. A calyx.
Burlington, Ia.	" type of <i>Actinocrinus quaternarius</i> Hall.
	" <i>Actinocrinus quaternarius</i> Hall. A dorsal cup and a crushed crown. Referred here by W. & S., N. A. C., p. 601.
Burlington, Ia.	As <i>Actinocrinus thetis</i> . A crown, somewhat imperfect on one side.
	As <i>Poteriocrinus dilatatus</i> .
Burlington, Ia.	" " " A calyx and its proboscis.
	See <i>Vasocrinus Lyoni</i> .
Crawfordsville, Ind.	An imbedded crown with a small fragment of stem, a calyx and a dorsal cup retaining fragment of stem.
Burlington, Ia.	A dorsal cup.
" "	Crown with part of stem attached, imbedded. Possibly a synonym of <i>Cyathocrinus iowensis</i> Ow. & Sh., as stated by Wachsmuth and Springer, Revision Palæocr., pt. I, p. 86.
Burlington, Ia.	As <i>Actinocrinus pendens</i> . A dorsal cup retaining on one side a few of the dome plates. Probably = <i>Dorycrinus unicornis</i> Ow. & Sh.
Burlington, Ia.	As <i>Actinocrinus tricornis</i> . Two calyces. Probably = <i>Dorycrinus unicornis</i> Ow. & Sh., as stated by W. & S., N. A. C., p. 468.
" "	As <i>Actinocrinus unicornis</i> Ow. & Sh. A calyx.
Burlington, Ia.	" " " <i>matuta</i> , var. <i>attenuatus</i> . A much weathered calyx.
Keokuk, Ia.	As <i>Scaphiocrinus orbicularis</i> . " " " A dorsal cup.
	See <i>Taxocrinus Giddingei</i> . " " " <i>juvenis</i> .
Burlington, Ia.	As <i>Trematocrinus papillatus</i> . " <i>Ollacrinus</i> " Part of a dorsal cup, imbedded. Referred to <i>Gilbertsocrinus typus</i> by W. & S., N. A. C., p. 242, but it is more like <i>G. robustus</i> than <i>G. typus</i> .
Burlington, Ia.	As <i>Scaphiocrinus tortuosus</i> . " " " A crown, imbedded.

## Class CRINOIDEA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Burl.	5031 1	Type.	<b>Icthyocrinus</b> Conrad.					
			burlingtonensis.....Hall. Whitf.	Geol. Ia. Mem. A. M.	I, pt. 2 1	557 35	3	24
			<b>Ollacrinus</b> Cumberland.					
			<i>papillatus</i> .....	.....	.....	.....	.....	.....
Burl.	5032 1	Type.	<b>Periechocrinus</b> Austin.					
			Whitei.....Hall. Whitf.	D. N. S. C. Ia. Crin. Mem. A. M.	..... ..... 1	271 2 27	..... ..... 2	..... ..... 29
Keok.	5033 1	"	<b>Platycrinus</b> Miller.					
			brevinodus.....Hall. ".....	Ia. Crin. D. N. S. C.	..... .....	4 286	..... 2	..... 5
Burl.	5034 1	"	cavus.....Hall.	Geol. Ia.	1, pt. 2	527	8	1a, b
			clytis.....Hall. "..... Whitf.	Ia. Crin. D. N. S. C. Mem. A. M.	..... ..... 1	4 285 2	..... ..... 3	..... ..... 3 6
"	5035 1	"	elegans.....Hall. "..... Whitf.	Ia. Crin. D. N. S. C. Mem. A. M.	..... ..... 1	4 285 3	..... 2 3	..... 15 1
			excavatus.....Hall. "..... Whitf.	Ia. Crin. D. N. S. C. Mem. A. M.	..... ..... 1	4 286 3	..... 2 3	..... 1 5
"	5036 1	"	striobrachiatus.....Hall. "..... Whitf.	Ia. Crin. D. N. S. C. Mem. A. M.	..... ..... 1	4 287 4	..... 2 3	..... 2 2-4
			subspinosis.....Hall.	Geol. Ia.	I, pt. 2	536	8	9, 10
			<b>Poteriocrinus</b> Miller.					
			<i>carinatus</i> .....	.....	.....	.....	.....	.....
			<i>dilatatus</i> .....	.....	.....	.....	.....	.....
Burl.	5040 1	Type.	Jesupi.....Whitf.	A. M. N. H.	1	7	1, 2	.....
St. L.	5041 1	Fig'd.	missouriensis (Shum.) H.	Geol. Ia.	I, pt. 2	669	17	7a, b
Burl.	5042 1	Type.	<b>Scaphiocrinus</b> Hall.....					
			carinatus.....Hall. "..... Whitf.	Ia. Crin. D. N. S. C. Mem. A. M.	..... ..... 1	8 310 31	..... ..... 3	..... ..... 13, 14
			<i>orbicularis</i> .....	.....	.....	.....	.....	.....
			<i>tortuosus</i> .....	.....	.....	.....	.....	.....
Burl.	5043 1	Type.	<b>Steganocrinus</b> M. & W.					
			pentagonus.....Hall. Whitf.	Geol. Ia. Mem. A. M.	I, pt. 2 1	577 .....	..... 2	..... 26
Keok.	5044 1	"	<b>Taxocrinus</b> Phillips.					
			Giddingei.....Hall.	Geol. Ia.	I, pt. 2	633	17	2, 4
Burl.	5045 1	"	juvenis.....Hall. "..... Whitf.	D. N. S. C. Mem. A. M.	..... ..... 1	319 35	..... ..... 3	..... ..... 21, 22



LOCALITY.	REMARKS.
Burlington, Ia.	Part of a dorsal cup, imbedded. ..... See <i>Gilbertsocrinus papillatus</i> .
Burlington, Ia.	As <i>Actinocrinus (Megistocrinus) Whitei</i> . " " " " <i>olliculus</i> . Name abandoned by Hall. Part of the crushed crown and stem of an individual, imbedded.
Keokuk, Ia. Burlington, Ia.	A crown with the arms flattened and somewhat disintegrated. Dorsal cup, imbedded.
" "	A small, somewhat crushed crown with part of stem attached, imbedded. Wachsmuth and Springer consider this name a synonym of <i>Platyocrinus scobina</i> M. & W. See N. A. C., p. 695.
" "	Crown and part of stem of a small individual, embedded. Regarded by Wachsmuth and Springer as a young <i>Platyocrinus planus</i> Ow. & Sh., vid. N. A. C., p. 669.
" "	Dorsal cup, imbedded.
" "	A crushed crown with some of the arms missing. Referred to <i>Platyocrinus discoides</i> Ow. & Sh. by W. & Sp., N. A. C., p. 713. " " Two calyces, imbedded.
Burlington, Ia.	See <i>Scaphiocrinus carinatus</i> . " <i>Caliocrinus dilatatus</i> . Two crowns with considerable fragments of the stems attached. Imbedded in the same block. Not equivalent to <i>Poteriocrinus Swallowi</i> , as claimed by W. & S., Rev. Palæocr., pt. III, p. 235.
St. Louis, Mo.	An imbedded crown which preserves more of the arms than the figure shows. ..... Regarded by W. & S. as a subgenus of <i>Poteriocrinus</i> .
Burlington, Ia.	As <i>Poteriocrinus (Scaphiocrinus) carinatus</i> . An imperfect crown with somewhat displaced plates. ..... See <i>Eupachyocrinus orbicularis</i> . " <i>Graphiocrinus tortuosus</i> .
Burlington, Ia.	As <i>Actinocrinus pentagonus</i> . A small dorsal cup of the original type series, which possesses, however, the characters of <i>Steganocrinus araneolus</i> M. & W.
Boonville, Mo.	As <i>Forbesiocrinus Giddingei</i> . A crown retaining small fragment of stem. ..... As <i>Forbesiocrinus juvenis</i> . Burlington, Ia. Dorsal cup with fragment of stem attached.

Class CRINOIDEA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Burl.	5046 1	Type.	<b>Teleocrinus</b> W. & S. ægilops ..... <i>Hall.</i>	Ia. Sup.		5		
			<i>Whitf.</i>	Mem. A. M.	I	20	2	27, 28
			<b>Trematocrinus</b> Hall. <i>papillatus</i> ..... Hall.					
Keok.	5047 1	Type.	<b>Vasocrinus</b> Lyon. Lyonii ..... <i>Hall.</i>	Ia. Crin.		5		
			"	D. N. S. C.		298	5	13
Burl.	5048 1	"	<b>Zeacrinus</b> Troost. scoparius ..... <i>Hall.</i>	Ia. Crin.		8		
			<i>Whitf.</i>	D. N. S. C.		305		
				Mem. A. M.	I	34	3	19, 20

Class BLASTOIDEA.

Burl.	5049 1	Type.	<b>Codaster</b> McCoy. <i>Whitei</i> ..... <i>Hall.</i>					
Burl.	5049 1	Type.	<b>Orophocrinus</b> von Seebach. <i>Whitii</i> ..... <i>Hall.</i>	Ia. Crin.		10		
			<i>Whitf.</i>	D. N. S. C.		327		
				Mem. A. M.	I	36	3	25-28
Keok.	5050 1	"	<b>Pentremites</b> Say. bipyramidalis ..... <i>Hall.</i>	Geol. Ia.	I, pt. 2	607	15	2
			<i>Hall.</i>	T. A. I.		4	5	
St. L.	5051 1	"	concoideus ..... <i>Hall.</i>	Geol. Ia.	I, pt. 2	655	22	8
			<i>Whitf.</i>	A. M. N. H.	I	44	9	32
			"	Geol. Ind.		323	32	32
	5051 2	"	"	T. A. I.		4	5	
	5051 3	"	"	"		4	5	
	5052 1	"	<b>Koninckanus</b> ..... <i>Hall.</i>	"		4	4	
			"	Geol. Ia.	I, pt. 2	656	22	I a c
			<i>Whitf.</i>	A. M. N. H.	I	43	9	33
	5052 2	"	"	Geol. Ind.		322	32	33
			<i>Woodmani</i> ..... <i>Hall.</i>	T. A. I.		4	4	
Keok.	5053 1	Gen. and Sp. Type.	<b>Tricelocrinus</b> M. & W. <i>Woodmani</i> ..... <i>M. &amp; W.</i>	P. A. N. S.		20	356	
			"	Geol. Ill.		5	506	16

Class ECHINOIDEA

St. L.	5054 1	Type.	<b>Archæocidaris</b> McCoy. <i>Wortheni</i> ..... <i>Hall.</i>	Geol. Ia.	I, pt. 2	700	26	4a-c	
			<i>Jackson.</i>	B. G. S. A.		7	214	8	43 45
			"	Geol. Ia.	I, pt. 2	700	26	4f	
Wars.	5055 1	"	<b>Melonites</b> N. & O. <i>septenarius, W. (Jackson)</i>	B. G. S. A.		7	182	9	49

LOCALITY.	REMARKS.
Burlington, Ia.	As <i>Actinocrinus ægilops</i> . A calyx of average size. Species regarded by W. & S. as a synonym of <i>Tetioocrinus umbrosus</i> , N. A. C., p. 628. See <i>Gilbertsocrinus papillatus</i> .
Crawfordsville, Ind.	As <i>Cyathocrinus Lyoni</i> . " " " " An imperfect crown, imbedded. W. & S. make this species the type of <i>Vasocrinus</i> as emended by them, Revision Palæocr., pt. I, p. 96.
Burlington, Ia.	A crown which has lost the tips of the arms.
.....	See <i>Orophocrinus Whittii</i> .
Burlington, Ia.	As <i>Codaster Whitei</i> . " " " " An entire calyx and the internal cast of another, the latter coming from the brown sandstone at the base of the Burlington beds, while the former came from the white limestone at the top.
Missouri.	Nearly entire body.
Bloomington, Ind. Spergen Hill, Ind. Alton, Ill.	A large body. Eleven others are in the original type series. Twelve bodies from this locality are in the original type series. Three bodies from this locality are in the original type series.
Spergen Hill, Ind. Alton, Ill.	Two bodies. Nine others from this locality are in original type series. Two bodies from this locality are in the original type series. See <i>Tricalocrinus Woodmani</i> .
Salem, Ind.	As <i>Pentremites (Troostocrinus?) Woodmani</i> . " " " " " " New generic name proposed under the description of the species. A large body, partly silicified.
Near St. Louis, Mo. " " " Buzzard's Roost, Franklin Co., Ala.	A well preserved, flattened individual. A spine, imbedded. Cast in chert. Name given by R. P. Whitfield in Jackson's paper.

Class ECHINOIDEA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Keok.	50.5.1	Fig'd.	<b>Oligoporus</b> M. & W. nobilis ( <i>M. &amp; W.</i> ) <i>Jackson</i>	B. G. S. A.	7	198	6	35
Wav.	50.5.7	Gen. and Sp. Type.	<b>Lepidechinus</b> Hall. rarispinus ..... <i>Hall.</i>	N. Y. S. M.	20	295	9	10
"	50.5.7	"	" ..... "	" "	20	295	.....	.....

MOLLUSCOIDEA.

Wars.	50.5.8	Gen. and Sp. Type.	<b>Archimedes</b> Lesueur. Wortheni ..... <i>Hall.</i>	A. A. A. S. Geol. Ia.	10, pt. 2 1, pt. 2	178 651	..... 22	..... 3-5b
			<b>Fenestella</b> Lonsdale. <i>Wortheni</i> ..... <i>Hall.</i>					
Wars.	50.5.9	Type.	<b>Ptilopora</b> McCoy. Prouti ..... <i>Hall.</i>	Geol. Ia.	1, pt. 2 1, pt. 2	653 653	22 22	6a-c 7

Class BRACHIOPODA.

Kind.	50.6.0	Fig'd.	<b>Acambona</b> White. prima ( <i>White</i> ) . . . <i>H. &amp; C.</i>	St. G. N. Y. Pal. N. Y.	13 8, pt. 2	797 119	37 51	21, 22 40, 41
Burl. Chest.	50.6.1 50.6.2	Type.	<b>Athyris</b> McCoy. <i>hirsuta</i> ..... <i>Hall.</i> <i>incrassata</i> ..... <i>Hall.</i> <i>subquadrata</i> ..... <i>Hall.</i> <i>trinucleus</i> ..... <i>Hall.</i>	Geol. Ia.	1, pt. 2 1, pt. 2	600 703	12 27	6, <i>v. v.</i> 2a-c
St. L.	50.6.3	Type.	<b>Camarophoria</b> King. subcuneata ..... <i>Hall.</i>	T. A. I. Geol. Ia.	4 1, pt. 2	11 658	..... 23	..... 3a-c
"	50.6.3	"	<i>Whitfield.</i> <i>Hall.</i>	A. M. N. H. Geol. Ind.	1 12	51 333	6 29	47-49 47-49
"	50.6.3	"	" ..... "	T. A. I.	4	11	.....	.....
"	50.6.4	"	? <i>Wortheni</i> ..... <i>Hall.</i> <i>Whitfield.</i> <i>Hall.</i>	" " A. M. N. H. Geol. Ind.	4 1 12	11 54 334	..... 6 29	..... 35-39 35-39
Wav.	50.6.5	"	<b>Camarotœchia</b> H. & C. contracta ..... <i>Hall.</i>	Pal. N. Y.	4	351	55	39, <i>v. v.</i>
"	50.6.6	Fig'd.	sappho, <i>var.</i> ..... <i>Hall.</i>	" "	4	354	55	47, 49, 50
"	"	"	" " ..... "	" "	4	354	55	48, 51
"	"	"	" " ..... "	" "	4	354	55	52

LOCALITY.	REMARKS.
Keokuk, Ia.	Two detached plates imbedded with many others.
Meadville, Pa. Licking Co., Ohio.	External imprint in gray sandstone. Nearly entire cast, somewhat crushed. This and the preceding specimen are specially mentioned by R. T. Jackson, Studies of Palaechinoidea, Bull. Geol. Soc. Am., vol. 7, p. 227 ff.
Class POLYZOA.	
..... Warsaw, Ill.	As <i>Fenestella (Archimedes) Wortheni</i> . An axis, part of which was figured, and part of an axis which bears three of the fronds in position on one side.  See <i>Archimedes Wortheni</i> .
Warsaw, Ill. Boonville, Mo.	Imbedded fragment showing celluliferous side. Imbedded fragment showing non-celluliferous side.
.....	
Burlington, Ia.	A somewhat incomplete cast.  See <i>Cleiothyris hirsuta</i> .
Hannibal, Mo. Chester, Ill.	A ventral valve, imbedded. An entire individual. See <i>Seminula trinucleus</i> ,
.....	
..... .....	
Bloomington, Ind. Spergen Hill, Ind.	As <i>Rhynchonella subcuneata</i> . " <i>Rhynchonella</i> " " " " An individual. Seven others are in the original type series. As <i>Rhynchonella subcuneata</i> . Three individuals from this locality are in the original type series. As <i>Rhynchonella Wortheni</i> .
Alton, Ill.	Two individuals.
Licking Co., Ohio.	As <i>Rhynchonella (Stenocisma) contracta</i> . Cast of ventral valve in block with types of <i>Camartachia sappho</i> , var., figs. 48, 51, of same plate.
" "	As <i>Rhynchonella (Stenocisma) sappho</i> var. Casts of a dorsal and two ventral valves.
" "	As <i>Rhynchonella (Stenocisma) sappho</i> var. Casts of two opposite valves imbedded in same block with <i>Camartachia contracta</i> , fig. 39, same plate.
" "	As <i>Rhynchonella (Stenocisma) sappho</i> var. Cast of an individual, flattened vertically.

Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.					
				Work.	Vol.	P.	Pl.	Figs.	
St. L.	5067 1	Type.	<b>Centronella</b> Billings.						
			crassicardinalis... <i>Whitf. Hall.</i>	A. M. N. H. Geol. Ind.	1 12	55 ....	6 29	50-52 50-52	
Burl.	5068 1	Fig'd.	<b>Chonetes</b> Fischer.						
			<i>Fischeri</i> .....	Geol. Ia.	1, pt. 2	598	12	1a-c, 2	
Kind.	5069 1	"	Logani ( <i>N. &amp; P.</i> )... <i>Hall.</i>	" "	1, pt. 2	598	12	1d, e	
			<i>Logani</i> Hall (non <i>N. &amp; P.</i> )						
Kind.	5070 1	Fig'd Sp. and G. T.	<b>Chonopectus</b> Hall & Clarke.						
			<i>Fischeri</i> ( <i>N. &amp; P.</i> ) <i>Hall.</i>	Geol. Ia.	1, pt. 2	517	7	1a, v. v.	
			" "	St. G. N. Y.	2	...	47	17, "	
			" "	<i>H. &amp; C.</i> Pal. N. Y.	8, pt. 1	312	16	17, "	
			" "	<i>Hall.</i> Geol. Ia.	1, pt. 2	517	7	1b, c	
			" "	<i>H. &amp; C.</i> St. G. N. Y.	2	...	47	31 <i>enl.</i>	
"	"	"	" "	<i>H. &amp; C.</i> Pal. N. Y.	8, pt. 1	312	16	31 "	
			" "	" "	8, pt. 1	312	15 B	23, v. v.	
St. L.	5071 1	Type.	<b>Cleiothyris</b> King.						
			<i>hirsuta</i> ..... <i>Hall.</i>	T. A. I.	4	8	....	....	
"	5071 2	"	" "	<i>Whitf. Hall.</i>	A. M. N. H. Geol. Ind.	1 12	49 328	6 29	18, d, v. X <sub>2</sub> 18, "
			" "	" "	T. A. I.	4	8	....	....
"	5071 3	"	" "	" "	" "	4	8	....	....
			" "	" "	" "	4	8	....	....
"	5071 4	Fig'd.	" ( <i>Hall</i> ).... <i>Whitf. Hall.</i>	A. M. N. H. Geol. Ind.	1 12	49 328	6 29	19-21 19-21	
			<b>Cryptonella</b> Hall.						
Wav.	5072 1	Type.	? <i>eudora</i> ..... <i>Hall.</i>	Pal. N. Y.	4	398	61	33, d, v.	
			? "..... "	" "	4	398	61	38, "	
Keok.	5587 1	"	<b>Derbya</b> Waagen.						
			<i>keokuk</i> ..... <i>Hall.</i>	St. G. N. Y.	2	....	41	3	
"	"	"	" "	<i>H. &amp; C.</i> Pal. N. Y.	8, pt. 1	262	11	3	
			<b>Dielasma</b> King.						
St. L.	5073 1	"	<i>formosum</i> ..... <i>Hall.</i>	T. A. I.	4	6	....	....	
			" "	<i>Whitf. Hall.</i>	A. M. N. H. Geol. Ind.	1 12	55 337	6 29	59, 60 59, 60
"	5073 2	"	" ( <i>Hall</i> ) <i>H. &amp; C.</i>	Pal. N. Y.	8, pt. 2	296	81	20, d, v.	
			" "	St. G. N. Y.	13	....	53	15, "	
"	5073 3	"	" "	Pal. N. Y.	8, pt. 2	296	81	21-23	
			" "	<i>Hall.</i> T. A. I.	4	6	....	....	
"	5073 4	"	" "	" "	4	6	....	....	
			" "	" "	4	6	....	....	
"	5073 1	Fig'd.	" ( <i>Hall</i> )... <i>Whitf. Hall.</i>	A. M. N. H. Geol. Ind.	1 12	55 337	6 29	61-64 61-64	
			<b>turgidum</b> ..... <i>Hall.</i>	T. A. I.	4	6	....	....	
"	5074 1	Type.	" "	<i>Whitf. Hall.</i>	A. M. N. H. Geol. Ind.	1 12	54 336	6 29	53-55 53-55
			" "	" "	1 12	54 336	6 29	53-55 53-55	



Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
<b>Dielasma King.—Cont.</b>								
St. L.	5074	Type.	turgidum.....Hall.	T. A. I.	4	6	.....	
"	5074	"	" .....	" "	4	6	.....	
"	5074	Fig'd.	" (Hall).. Whitf. Hall.	A. M. N. H. Geol. Ind.	12	54 336	6 29	56-58 56-58
<b>Discina Lamarck,</b>								
<i>Newberryi</i> .....								
<b>Eumetria Hall.</b>								
St. L.	5075	Type.	Verneuilliana..... Hall.	T. A. I.	4	9	.....	
"	"	"	" .....	Geol. Ia.	1, pt. 2	657	23	1a, b, d
"	"	"	" .....	H. & C. Pal. N. Y.	8, pt. 2	119	51	17, ent. X <sub>3</sub>
"	5075	"	" .....	Geol. Ia.	1, pt. 2	657	23	1c, d. v.
"	"	"	" (Hall) Whitf. Hall.	A. M. N. H. Geol. Ind.	12	50 335	6 29	28, 30 28, 30
"	5075	"	" .....	T. A. I.	4	9	.....	
"	5075	Fig'd.	" (Hall) Whitf. Hall.	A. M. N. H. Geol. Ind.	12	50 335	6 29	29, d. v. 29, "
<b>Lingula Bruguière.</b>								
Wav.	5076	Type.	cuyahoga.....Hall.	N. Y. S. M. Pal. N. Y.	16	24		
"	5077	"	melie.....Hall.	N. Y. S. M. Pal. N. Y.	4 16	15 24	1	5
"	"	"	" .....	"	4	14	1	3, 4
<b>Orbiculoidea d'Orbigny.</b>								
"	5078	"	Newberryi.....Hall.	N. Y. S. M. Pal. N. Y.	16	30		
"	"	"	" .....	"	4	25	1	10a, b
"	"	"	" .....	"	4	25	1	11a-c
<b>Orthis Dalman.</b>								
<i>dubia</i> .....								
<i>inequalis</i> .....								
<i>Michelina,</i>								
var. <i>burlingtonensis</i> .								
<i>Swallovi</i> .....								
<b>Orthothetes Fischer.</b>								
Kind.	5079	Type.	inæqualis... ..Hall.	Geol. Ia.	1, pt. 2	490	2	6a-c
"	"	"	" .....	St. G. N. Y.	2	.....	42	22
"	"	"	" .....	H. & C. Pal. N. Y.	8, pt. 1	.....	9 A	22
"	"	"	" .....	Hall. St. G. N. Y.	2	.....	42	20, int. v. v.
"	"	"	" .....	H. & C. Pal. N. Y.	8, pt. 1	.....	9 A	20, "
"	"	"	" .....	Hall. St. G. N. Y.	2	.....	42	21, d. v.
"	"	"	" .....	H. & C. Pal. N. Y.	8, pt. 1	.....	9 A	21, "



LOCALITY.	REMARKS.
Spergen Hill; Ind. Alton, Ill.	As <i>Terebratula turgida</i> . One large and two small individuals from this locality are in the original type series.
..... Ellettsville, Ind.	As <i>Terebratula turgida</i> . Twelve individuals from this locality are in the original type series.
..... .....	As <i>Terebratula turgida</i> . " " " " A large, silicified individual.
.....	See <i>Orbiculoidea Newberryi</i> .
.....	As <i>Retzia Verneuiliana</i> . " " " "
..... Bloomington, Ind.	An entire individual. Twelve others from this locality are in the original type series.
Spergen Hill, Ind.	As <i>Retzia Verneuiliana</i> . An entire individual of elongate form.
" " "	An entire individual. Eight others from this locality are in the original type series.
Alton, Ill.	Twelve individuals from this locality are in the original type series.
Paynter's Hill, Ind.	A very perfect silicified individual which was not in the original type series.
Cuyahoga Falls, Ohio.	Imbedded.
Chagrin Falls, Ohio.	Imprints of two valves in the same block. One retains some shell.
.....	As <i>Discina Newberryi</i> . " " " "
Cuyahoga Falls, Ohio.	Two large opposite valves, considerably exfoliated, imbedded.
" " "	As <i>Discina Newberryi</i> . Two dorsal valves, exfoliated, imbedded. Schuchert, Syn. Am. Foss. Brach., p. 261, refers this species to the genus <i>Lingulodiscina</i> .
.....	See <i>Rhipidomella dubia</i> . " <i>Orthothes inaequalis</i> .
.....	" <i>Rhipidomella burlingtonensis</i> . " <i>Schizophoria Swallowi</i> .
.....	As <i>Orthis inaequalis</i> . " <i>Streptorhynchus aequivalvis</i> by error.
Burlington, Ia.	Casts of the opposite valves.
.....	As <i>Streptorhynchus aequivalvis</i> by error.
Burlington, Ia.	A slightly imperfect ventral valve.
.....	As <i>Streptorhynchus aequivalvis</i> by error.
Burlington, Ia.	Cast of a dorsal valve.

Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
<b>Productella Hall.</b>								
Kind.	5080 1	Type.	concentrica . . . . . Hall.	Geol. Ia.	I, pt. 2	517	7	3, v. v.
			<i>Newberryi</i> . . . . .					
"	5081 1	Type.	pyxidata . . . . . Hall.	Geol. Ia.	I, pt. 2	498	3	8a-e
			(H. & C.)	St. G. N. Y.	2	48	21	34, int. d. v.
			"	"	11	17	17	23, "
			"	Pal. N. Y.	8, pt. 1	17	17	34, "
"	5082 1	"	Shumardana . . . . . Hall.	Geol. Ia.	I, pt. 2	499	7	2, v. v.
			"	St. G. N. Y.	2	48	7	7, "
			(H. & C.)	Pal. N. Y.	8, pt. 1	17	17	7, "
"	5082 2	"	" . . . . . Hall.	Geol. Ia.	I, pt. 2	499	3	9, int. d. v.
			sp. ? . . . . .	St. G. N. Y.	2	49	4	4
<b>Productus Sowerby.</b>								
Keok.	5083 1	Fig'd.	alternatus (N. & P.) Hall.	St. G. N. Y.	2	49	14, v. v.	14, v. v.
			H. & C.	Pal. N. Y.	8, pt. 1	327	18	14, "
Kind.	5084 1	Type.	arcuatus . . . . . Hall.	Geol. Ia.	I, pt. 2	518	7	4a, b
St. L.	5085 1	"	biseriatus . . . . . Hall.	T. A. I.	4	12	6	8, int. X 2
			Whitf.	A. M. N. H.	1	46	29	8, "
			Hall.	Geol. Ind.	12	325	29	9, "
"	5085 2	"	" (Hall) . . . Whitf.	A. M. N. H.	1	46	6	9, int. d. v.
			Hall.	Geol. Ind.	12	325	29	9, "
"	5085 3	Fig'd.	" (Hall) . . . Whitf.	A. M. N. H.	1	325	29	10-12
			Hall.	Geol. Ind.	12	325	29	10-12
Burl.	5086 1	Type.	burlingtonensis . . . Hall.	Geol. Ia.	I, pt. 2	598	12	3a, b
"	"	"	" . . . . . "	"	"	I, pt. 2	598	12
"	"	"	" . . . . . "	"	"	I, pt. 2	598	12
			<i>concentricus</i> . . . . .					3f, int. d. v.
			<i>Flemingi</i> , . . . . .					
			var. <i>burlingtonensis</i> .					
St. L.	5087 1	Type.	indianensis . . . . . Hall.	T. A. I.	4	13	6	6, 7
			Whitf.	A. M. N. H.	1	47	29	6, 7
			Hall.	Geol. Ind.	12	326	29	6, 7
Wav.	5088 1	Fig'd.	lævicosta (White)? Hall.	St. G. N. Y.	2	49	18	4, v. v.
			H. & C.	Pal. N. Y.	8, pt. 1	18	18	4, "
St. L.	5089 1	"	marginicinctus (Prout) H.	Geol. Ia.	I, pt. 2	674	24	3a-c
Keok.	5090 1	Type.	mesialis . . . . . Hall.	"	"	I, pt. 2	636	19
			"	St. G. N. Y.	2	49	18	2a-c
			H. & C.	Pal. N. Y.	8, pt. 1	18	18	9, 10
Wav.	5091 1	"	Newberryi . . . . . Hall.	St. G. N. Y.	2	49	18	9, 10
			H. & C.	Pal. N. Y.	8, pt. 1	18	18	2, 3
Keok.	5088 1	"	ovatus . . . . . Hall.	St. G. N. Y.	2	49	18	2, 3
			H. & C.	Pal. N. Y.	8, pt. 1	18	18	19
			<i>pyxidatus</i> . . . . .					19

LOCALITY.	REMARKS.
Burlington, Ia. ..... .....	As <i>Productus concentricus</i> . Cast of a ventral valve. See " <i>Newberryi</i> . As " <i>pyxidatus</i> .
Louisiana, Mo. .....	Three individuals and a dorsal valve, imbedded separately. From the Lithographic limestone. As <i>Productus Shumardianus</i> .
Burlington, Ia. Clarksville, Mo. .....	Ventral valve, imbedded. From the limestone. As <i>Productus Shumardianus</i> . Dorsal valve imbedded so as to show the interior. From the Lithographic limestone. See <i>Productus levicosta</i> .
Warsaw, Ill. Burlington, Ia.	A small ventral valve. A partly exfoliated ventral valve, imbedded.
Bloomington, Ind.	Dorsal valve imbedded so as to show interior. Four other specimens from this locality are in the original type series.
Alton, Ill.	Dorsal valve, imbedded. Five others from this locality are in the original type series.
Spergen Hill, Ind. Burlington, Ia. " " " " ..... .....	Entire, silicified individual, not one of the original series. As <i>Productus Flemingi</i> Sowerby, var. <i>burlingtonensis</i> . External cast of dorsal valve retaining some shell substance. As <i>Productus Flemingi</i> Sowerby, var. <i>burlingtonensis</i> . A ventral valve, imbedded. As <i>Productus Flemingi</i> Sowerby, var. <i>burlingtonensis</i> . A partly exfoliated dorsal valve, imbedded. See <i>Productella concentrica</i> . " <i>Productus burlingtonensis</i> .
Spergen Hill, Ind. ..... Licking Co., Ohio. St. Louis, Mo.	Two individuals, one of which was figured. As <i>Productella sp.?</i> " <i>Productus sp.?</i> cf. <i>Prattmanus</i> Norwood. Somewhat crushed, imperfect cast of a ventral valve. Two opposite valves, imbedded separately.
Nauvoo, Ill. ..... Licking Co., Ohio.	Two opposite valves, imbedded in separate blocks. As <i>Productella Newberryi</i> . " " " Casts of an individual and a ventral valve.
New Providence, Ind. .....	A somewhat imperfect ventral valve. See <i>Productella pyxidata</i> .

Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Keok.	5599 1	Fig'd.	<b>Productus</b> Sowerby— <i>Cont.</i> semireticulatus ( <i>Martin</i> ) <i>Hall.</i>	Geol. Ia.	I, pt. 2	638	19	3, <i>d. v.</i>
			" " " " ( <i>Martin</i> ) <i>Hall.</i>	St. G. N. Y.	2	....	49	13, "
"	"	"	" " " <i>H. &amp; C.</i>	Pal. N. Y.	8, pt. I	325	18	13, "
"	"	"	" " " <i>H. &amp; C.</i>	Pal. N. Y.	8, pt. I	325	18	11
"	"	"	" " " <i>H. &amp; C.</i>	Pal. N. Y.	8, pt. I	325	18	11
"	5599 2	"	" " " <i>Hall.</i>	Geol. Ia.	I, pt. 2	639	19	4 b, c
"	"	"	" " " <i>H. &amp; C.</i>	St. G. N. Y.	2	....	40	12
"	"	"	" " " <i>H. &amp; C.</i>	Pal. N. Y.	8, pt. I	325	18	12
"	"	"	<i>setigerus</i> .....					
"	"	"	var. <i>keokuk</i> .....					
"	"	"	<i>Shumardianus</i> .....					
St. L.	5099 1	Type.	tenuicostatus..... <i>Hall.</i>	Geol. Ia.	I, pt. 2	675	24	2a-d
			" " " <i>H. &amp; C.</i>	St. G. N. Y.	2	....	49	18, <i>prof.</i>
Keok.	5099 1	Type.	tenuicostus.....	Pal. N. Y.	8, pt. I	327	18	18, "
			vittatus..... <i>Hall.</i>	Geol. Ia.	I, pt. 2	639		
"	"	"	" " " <i>H. &amp; C.</i>	St. G. N. Y.	2	....	49	15
"	5099 2	"	" " " <i>Hall.</i>	Pal. N. Y.	8, pt. I	327	18	15
"	"	"	" " " <i>H. &amp; C.</i>	St. G. N. Y.	2	....	49	16, 17
"	"	"	" " " <i>H. &amp; C.</i>	Pal. N. Y.	8, pt. I	327	18	16, 17
"	"	"	sp.? cf. <i>Prattenanus</i> .....	" "	8, pt. I	....	18	4
Kind.	5099 1	"	<b>Ptychospira</b> H. & C. sexplicata..... <i>W. &amp; W.</i>	B. S. N. H.	8	204	....	....
			" " " <i>H. &amp; C.</i>	St. G. N. Y.	13	....	36	22, 23
"	"	"	" " " <i>H. &amp; C.</i>	Pal. N. Y.	8, pt. 2	112	83	28, 7, 7, X 2
St. L.	5099 1	Fig'd. Type.	<b>Pugnax</b> Hall & Clarke. <i>missouriensis</i> ( <i>Shum.</i> ) <i>H.</i>	Pal. N. Y.	8, pt. 2	204	62	44, 45
			" " " <i>Hall.</i>	T. A. I.	4	10	....	....
"	"	"	" " " <i>Whitf.</i>	Geol. Ia.	I, pt. 2	658	23	2a, b
"	"	"	" " " <i>Hall.</i>	A. M. N. H.	I	52	6	43-45
"	"	"	" " " <i>Hall.</i>	Geol. Ind.	12	332	29	43-45
Burl.	5099 1	Type.	<b>Retzia</b> King. <i>sexplicata</i> .....					
			" " " <i>Verneuhana</i> .....					
St. L.	5099 1	Type.	<b>Rhipidomella</b> Ehlert. <i>burlingtonensis</i> ..... <i>Hall.</i>	Geol. Ia.	I, pt. 2	596	12	4a, b
			" " " <i>Hall.</i>	T. A. I.	4	12	....	....
"	"	"	" " " <i>Whitf.</i>	A. M. N. H.	I	45	6	1, <i>d. v.</i>
"	"	"	" " " <i>Hall.</i>	Geol. Ind.	12	324	29	1, "
"	5099 2	"	" " " <i>Hall.</i>	A. M. N. H.	I	45	6	2-4
"	"	"	" " " <i>Hall.</i>	Geol. Ind.	12	324	29	2-4

LOCALITY.	REMARKS.
.....	As type of <i>Productus setigerus</i> Hall.
Keokuk, Ia.	A crushed, imbedded individual retaining some of the cardinal spines.
" "	External cast of a dorsal valve retaining some shell.
.....	As type of <i>Productus setigerus</i> var. <i>keokuk</i> Hall.
Warsaw, Ill.	Ventral valve, imbedded.
.....	See <i>Productus semireticulatus</i> .
.....	" " " "
.....	" <i>Productella Shumardana</i> .
.....	As <i>Productus tenuicostus</i> .
.....	" " " "
Milan, Ill.	An imbedded individual broken apart so as to show both valves.
.....	See <i>Productus tenuicostatus</i> .
Keokuk, Ia.	An exfoliated ventral valve.
Warsaw, Ill.	A well preserved dorsal valve, imb. so as to show the interior. An exfoliated ventral valve from this locality is in the orig. type series.
.....	See <i>Productus laevicosta</i> .
.....	As <i>Retzia sexplicata</i> .
Burlington, Ia.	An imbedded ventral valve. A broken indiv. which was not figured is also marked as a type. Figs. 22 and 23, pl. 36, 13th Report St. G. N. Y., were not made from one of the original specimens.
.....	Defined as a subgenus of <i>Hypothyris</i> .
Burlington, Ia.	Internal cast of a large individual from the upper (?) Yellow sandstone.
.....	As <i>Rhynchonella mulata</i> .
.....	" <i>Rhynchonella</i> "
.....	" " " "
Alton, Ill.	" " " Two individuals. Ten others from this locality are in the original type series.
.....	See <i>Ptychospira sexplicata</i> .
.....	" <i>Eumetria Verneuiliana</i> .
.....	.....
Hannibal, Mo.	As <i>Orthis Michelina</i> l'Eveille, var. <i>burlingtonensis</i> . Ventral valve, imbedded.
.....	As <i>Orthis dubia</i> .
.....	" " " "
Bloomington, Ind.	" " " An individual of average size. Two others from this locality are in the original type series.
.....	As <i>Orthis dubia</i> .
Spergen Hill, Ind.	" " " A rather large individual. Four others from this locality are in the original type series.

## Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Rhipidomella</b> Ehlert—Cont.					
St. L.	5.0.9.8	Type.	dubia.....Hall.	T. A. I.	4	12		
"	5.0.9.8	Fig'd.	" (Hall).....Whitf. Hall.	A. M. N. H. Geol. Ind.	1 12	45 324	6 29	5, int. v. v. 5, "
			<b>Rhynchonella</b> Fischer.					
			<i>contracta</i> Hall.....					
			<i>Grosvenori</i> .....					
			<i>macra</i> .....					
			<i>mutata</i> .....					
Kind.	5.0.9.9	Type.	opposita.....W. & W.	B. S. N. H.	8	294		
			<i>ricinula</i> .....					
			<i>sappho</i> , var.....					
			<i>subcuneata</i> .....					
			<i>Wortheni</i> .....					
			<b>Rhynchotreta</b> Hall.					
St. L.	5.1.0.0	Type.	macra.....Hall.	T. A. I.	4	11		
			Whitf. A. M. N. H.	1	52	6	40-42	
			Hall. Geol. Ind.	12	334	29	40-42	
"	5.1.0.1	"	ricinula.....Hall.	T. A. I.	4	9		
			Whitf. A. M. N. H.	1	53	6	46, d. v.	
			Hall. Geol. Ind.	12	330	29	46, "	
			<b>Schizophoria</b> King.					
Burl.	5.1.0.2	"	Swalovi.....Hall.	Geol. Ia.	1, pt. 2	597	12	5a, v. v.
"	5.1.0.2	"	"....."	" "	1, pt. 2	597	12	5b, d. v.
			<b>Seminula</b> McCoy (H. & C.)					
St. L.	5.1.0.3	"	trinucleus.....Hall.	T. A. I.	4	7		
			".....	Geol. Ia.	1, pt. 2	659	23	4, 5
			Whitf. A. M. N. H.	1	50	6	22, 23	
			Hall. Geol. Ind.	12	329	29	22, 23	
"	5.1.0.3	"	"....."	T. A. I.	4	7		
"	"	Fig'd.	" (Hall) Whitf.	A. M. N. H.	1	50	6	24-27
			Hall. Geol. Ind.	12	329	29	24-27	
			<b>Spirifer</b> Sowerby.					
"	5.1.0.4	Type.	bifurcatus.....Hall.	T. A. I.	4	8		
			Whitf. A. M. N. H.	1	47	6	13	
			Hall. Geol. Ind.	12	326	29	13	
"	"	Fig'd.	" (Hall) Whitf.	A. M. N. H.	1	47	6	14, 15
			Hall. Geol. Ind.	12	326	29	14, 15	
Kind.	5.1.0.5	Type.	biplicatus.....Hall.	Geol. Ia.	1, pt. 2	519	7	5b
Kind.	5.1.0.6	Fig'd.	<i>Carteri</i> .....					
			centronatus (Winchell) H.	Geol. Ia.	1, pt. 2	519	7	5a
			<i>extenuatus</i> .....					



Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
<b>Spirifer Sowerby—Cont.</b>								
Burl.	5102	Fig'd.	Forbesi (N. & P.)...Hall.	Geol. Ia.	1, pt. 2	600	13	1, v. v.
"	5103	Type.	Grimesi.....Hall.	" "	1, pt. 2	604	14	3, int. v. v.
"	5104	"	".....H. & C.	St. G. N. Y.	2	....	56	17, "
"	5105	"	".....Hall.	Pal. N. Y.	8, pt. 2	38	31	17, "
"	5106	"	".....Hall.	Geol. Ia.	1, pt. 2	604	14	4, "
"	5107	"	"....."	" "	1, pt. 2	604	14	5, "
"	5108	"	"....."	St. G. N. Y.	2	....	56	18, int. v. v.
"	5109	"	".....H. & C.	Pal. N. Y.	8, pt. 2	38	31	18, "
"	5110	"	".....Hall.	St. G. N. Y.	2	....	56	19, enl.
Kind.	5108	"	hirtus.....W. & W.	H. & C. Pal. N. Y.	8, pt. 2	38	31	19, "
"	5111	"	"....."	B. S. N. H.	8	293	....	....
Burl.	5110	"	imbrex.....Hall.	Geol. Ia.	1, pt. 2	601	13	2, d. v.
"	5111	"	".....H. & C.	St. G. N. Y.	2	....	56	11, "
"	5112	"	incertus.....Hall.	Pal. N. Y.	8, pt. 2	38	31	11, "
Chest.	5112	"	increbescens.....Hall.	Geol. Ia.	1, pt. 2	602	13	3, card.
"	5113	"	"....."	" "	1, pt. 2	706	27	6a-c, i.
"	5114	"	".....H. & C.	St. G. N. Y.	2	....	55	29, 30
"	5115	"	"....."	" "	13	....	27	3
"	5116	"	"....."	Pal. N. Y.	8, pt. 2	27	30	8, 10
"	5117	"	".....Hall.	" "	1, pt. 2	706	27	29, 30
"	5118	"	"....."	" "	1, pt. 2	706	27	31
"	5119	"	".....H. & C.	St. G. N. Y.	2	....	55	6d, d. v.
"	5120	"	"....."	" "	1, pt. 2	706	27	6e, f
"	5121	"	"....."	St. G. N. Y.	2	....	55	27, 28
"	5122	"	".....H. & C.	Pal. N. Y.	8, pt. 2	27	30	11, d. v.
"	5123	"	".....Hall.	Pal. N. Y.	8, pt. 2	27	30	27, 28
"	5124	"	"....."	Geol. Ia.	1, pt. 2	706	27	6g, h
"	5125	"	".....H. & C.	St. G. N. Y.	2	....	56	1, int. v. v.
"	5126	"	"....."	" "	13	....	27	9, "
Keok.	5113	"	keokuk.....Hall.	Pal. N. Y.	8, pt. 2	27	31	1, "
"	5114	"	"....."	Geol. Ia.	1, pt. 2	642	20	3a, b, d, 2d
"	5115	"	".....H. & C.	St. G. N. Y.	2	....	55	21, 22
"	5116	"	"....."	" "	13	....	27	14, 15
"	5117	"	".....Hall.	Pal. N. Y.	8, pt. 2	27	30	21, 22
St. L.	5118	"	"....."	Geol. Ia.	1, pt. 2	642	20	3c, prof.
"	5119	"	".....H. & C.	St. G. N. Y.	2	....	55	23, d. v.
"	5120	"	"....."	Pal. N. Y.	8, pt. 2	27	30	22, "
Wars.	5114	Fig'd.	" var. ....Hall.	Geol. Ia.	1, pt. 2	676	24	4a-d
"	5115	Type.	lateralis.....Hall.	St. G. N. Y.	2	....	57	1-3
Keok.	5115	"	Logani.....H. & C.	Pal. N. Y.	8, pt. 2	26	32	1-3
"	5116	"	".....Hall.	Geol. Ia.	1, pt. 2	647	20	7, prof.
"	5117	"	"....."	" "	1, pt. 2	647	21	1a, b
"	5118	"	"....."	" "	1, pt. 2	647	21	2
"	5119	"	".....H. & C.	St. G. N. Y.	2	....	57	8, int.
Kind.	5116	Fig'd.	marionensis (Shum.)Hall.	Pal. N. Y.	8, pt. 2	25	32	8, "
"	5117	"	"....."	Geol. Ia.	1, pt. 2	511	6	1a-c
"	5118	"	".....H. & C.	St. G. N. Y.	2	....	56	15, d. v.
"	5119	"	"....."	" "	13	757	27	3, "
"	5120	"	"....."	Pal. N. Y.	8, pt. 2	26	31	15, "



LOCALITY.	REMARKS.
Burlington, Ia.	A ventral valve, imbedded ; not quite entire.
" "	The middle portion of a ventral valve.
Near Mason's Land- ing, Missouri.	Internal cast of a ventral valve retaining a considerable fragment of shell. Locality was opposite the mouth of the Illinois river.
Burlington, Ia.	Internal cast of a ventral valve retaining a fragment of shell.
Ste. Genevieve, Mo.	Internal cast of a very transverse ventral valve, imbedded. Cnf. <i>Spirifer Logani</i> .
Burlington?, Ia. Burlington, Ia.	A large, somewhat exfoliated dorsal valve, imbedded. Casts of two ventral valves imbed. together and another imbed. with a type of <i>Macrodon parvus</i> W. & W. Is <i>Reticularia cooperensis</i> Swallow, according to Schuchert, Syn. Am. Foss. Brach., p. 342.
" "	A dorsal valve, imbedded. Probably = <i>Spirifer subaequalis</i> Hall.
" "	Silicified individual, imbedded. Prob. = <i>Spirifer lateralis</i> Hall.
Chester, Ill.	An entire individual. The enlargement of the cardinal area was completed from other specimens.
" "	A large, entire individual.
" "	A large, gibbous individual.
" "	Three ventral valves, somewhat fragmentary.
Keokuk, Ia.	An individual and an imbedded ventral valve.
" "	A small, gibbous individual, somewhat exfoliated.
Webster Co., Ia.	A small individual from Lizard Creek. Formation is given incorrectly in the reference.
" "	An entire individual and a ventral valve from Lizard Creek.
..... Ste. Genevieve, Mo.	As <i>Spirifera lateralis</i> ? A silicified individual.
Nauvoo, Ill.	A large individual, nearly entire. The area did not show when the figure was made, but it has been cleaned out since.
" "	A large ventral valve, imbedded.
Near Nauvoo, Ill.	Card. and umbonal part of vent. valve with cast of int. of whole valve.
Louisiana, Mo.	A nearly entire individual.

Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Keok.	5111	Type.	<b>Spirifer Sowerby—Cont.</b> <i>neglectus</i> .....Hall.	Geol. Ia.	I, pt. 2	643	20	5, <i>d. v.</i>
Burl.	5112	Type.	<i>Norwoodana</i> <i>plenus</i> .....Hall.	Geol. Ia.	I, pt. 2	603	13	4b, e
"	5113	"	".....H. & C.	St. G. N. Y.	II	176	...	95, <i>enl.</i>
Keok.	5114	"	<i>pseudolineatus</i> .....Hall.	Pal. N. Y.	8, pt. 2	39	37	32, "
"	"	"	".....H. & C.	St. G. N. Y.	2	...	61	28-30
"	"	"	".....H. & C.	"	"	13	...	25
"	"	"	".....H. & C.	Pal. N. Y.	8, pt. 2	21	36	15, <i>d. v.</i> 28-30
Kind.	5120	Type.	<i>spinus</i> .....Hall.	Geol. Ia.	I, pt. 2	521	7	8a, <i>d. v.</i>
Wars.	5121	"	<i>subrotundatus</i> .....Hall.	"	"	662	23	8a, c
"	5122	"	<i>tenuicostatus</i> .....Hall.	"	"	662	23	8b, <i>v. v.</i>
"	5123	"	<i>transversa</i> .....H. (non McC.)	"	"	662	23	8b, <i>v. v.</i>
St. L.	5124	Type.	<b>Spiriferina d'Orbigny.</b> <i>Norwoodana</i> .....Hall.	T. A. I.	4	7	...	...
"	5125	"	<i>Whitf.</i> .....Hall.	A. M. N. H.	1	48	6	16, 17
"	5126	"	".....Hall.	Geol. Ind.	12	327	29	16, 17
"	5127	"	".....H. & C.	T. A. I.	4	7	...	...
"	5128	"	".....H. & C.	"	"	4	7	...
Chest.	5129	Fig'd.	<i>spinosa (N. &amp; P.)</i> .....Hall.	Geol. Ia.	I, pt. 2	706	27	5a-c
"	"	"	".....H. & C.	St. G. N. Y.	2	...	60	26-29
"	"	"	".....H. & C.	"	"	13	...	31
"	"	"	".....H. & C.	Pal. N. Y.	8, pt. 2	54	35	4-7 26-29
Keok.	5130	"	<i>subelliptica (McCles.)</i> H.	St. G. N. Y.	2	...	60	21, <i>int. v. v.</i>
"	"	"	".....H. & C.	Pal. N. Y.	8, pt. 2	54	35	21, "
"	"	"	".....Hall.	St. G. N. Y.	2	...	60	22, <i>int.</i>
"	"	"	".....H. & C.	"	"	13	...	31
"	"	"	".....H. & C.	Pal. N. Y.	8, pt. 2	54	35	2, "
Chest.	5131	"	<i>transversa (McClesney)</i> H.	St. G. N. Y.	2	...	60	19, <i>d. v.</i>
"	"	"	".....H. & C.	"	"	13	...	31
"	"	"	".....H. & C.	Pal. N. Y.	8, pt. 2	54	35	1, " 19, "
"	"	"	<b>Spirigera d'Orbigny</b> <i>hirsuta</i> .....	"	"	...	...	...
"	"	"	<b>Streptorhynchus King.</b> <i>aquivalvis</i> .....	"	"	...	...	...
"	"	"	<i>keokuk</i> .....	"	"	...	...	...
Wav.	5132	Type.	<b>Syringothyris A. Winchell.</b> <i>Carteri</i> .....Hall.	N. Y. S. M.	10	170	...	...
Kind.	5133	"	<i>extenuata</i> .....Hall.	Geol. Ia.	I, pt. 2	520	7	6, <i>d. v.</i>
Keok.	5134	"	<i>subcuspidata (H.)</i> H. & C.	St. G. N. Y.	13	...	30	3, <i>int. v. v.</i>
"	5135	"	".....H. & C.	Pal. N. Y.	8, pt. 2	50	26	11, "
"	5136	"	<i>texta (Hall)</i> .....H. & C.	St. G. N. Y.	13	...	30	5, <i>int.</i>
"	5137	"	".....H. & C.	Pal. N. Y.	8, pt. 2	48	26	9, "
Burl.	5138	Fig'd.	<i>typus (Winchell)</i> H. & C.	St. G. N. Y.	13	760	30	2, "
"	"	"	".....H. & C.	Pal. N. Y.	8, pt. 2	48	26	10, "
"	"	"	<b>Terebratula Llhwyd.</b> <i>formosa</i> .....	"	"	...	...	...
"	"	"	<i>trinuclea</i> .....	"	"	...	...	...
"	"	"	<i>turgida</i> .....	"	"	...	...	...

LOCALITY.	REMARKS.
Keokuk, Ia.	A vertically crushed individual. See <i>Spiriferina Norwoodana</i> .
Quincy, Ill.	The silicified umbonal portion of a ventral valve and a nearly entire, somewhat exfoliated individual.
Burlington, Ia.	Cherty cast of the papillose inner surface of a dorsal valve.
Near Nauvoo, Ill.	A large, partly exfoliated individual. Not one of the original series. Fig. 30 was combined from this and other specimens. See <i>Spiriferina spinosa</i> .
Burlington, Ia.	Cast of a dorsal valve, imbedded.
Dallas, Ill.	A silicified individual. St. Louis group?
Warsaw, Ill.	A ventral valve, imbedded. St. Louis group? See <i>Spiriferina transversa</i> .
.....	" " <i>subelliptica</i> .
.....	As <i>Spirifer Norwoodana</i> .
.....	" <i>Spirifera</i> " in expl. pl., by error.
Alton, Ill.	A large individual and another which was not figured.
Spergen Hill, Ind.	As <i>Spirifer Norwoodana</i> . Two individuals.
Bloomington, Ind.	" " " An individual.
.....	As <i>Spirifer spinosus</i> .
Chester, Ill.	A large, entire individual and one which has been split to show the septum.
.....	As <i>Spirifera transversa</i> McChesney.
New Providence, Ind.	Middle portion of a ventral valve. As <i>Spirifera transversa</i> McChesney.
.....	As <i>Spirifera transversa</i> .
New Providence, Ind.	Middle portion of a ventral valve. Figs. are enlargements to 2 diams. As <i>Spirifera transversa</i> .
.....	As <i>Spirifera transversa</i> .
Buzzard's Roost, Ala.	An entire individual, silicified.
.....	Synonym of <i>Athyris</i> .
.....	See <i>Cleiothyris hirsuta</i> .
.....	" <i>Orthothetes inæqualis</i> .
.....	" <i>Derbya keokuk</i> .
Licking Co., Ohio.	As <i>Spirifer Carteri</i> . A series consisting of three somewhat crushed casts of individuals, the cast of a dorsal valve and the imprint of another dorsal valve, apparently the types of this species.
Burlington, Ia.	As <i>Spirifer extenuatus</i> . Cast of a dorsal valve.
Nauvoo, Ill,	A partly silicified ventral valve.
New Providence, Ind.	Internal cast of an individual.
Burlington, Ia.	Silicified umbonal portion of a ventral valve.
.....	See <i>Dielasma formosum</i> .
.....	" <i>Seminula trinucleus</i> .
.....	" <i>Dielasma turgidum</i> .

Class BRACHIOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
St. L.	5131	Type.	<b>Wilsonia</b> Kayser.					
			Grosvenori..... <i>Hall.</i>	T. A. I.	4	10	.....	.....
			..... <i>Whitf.</i>	A. M. N. H.	1	53	6	31-34
			..... <i>Hall.</i>	Geol. Ind.	12	331	29	31-34
"	5131	"	" .....	T. A. I.	4	10	.....	.....
"	5131	"	" .....	" "	4	10	.....	.....

Subkingdom MOLLUSCA.

Wav.	5132	Fig'd.	<b>Aviculopecten</b> McCoy.	Pal. N. Y.	5, pt. I	29	9	5
			Caroli ( <i>A. Winchell</i> ) <i>Hall.</i>					
Kind.	5132	Type.	<i>limaformis</i> .....	B. S. N. H.	8	296	.....	.....
			<i>nodocostatus</i> .. <i>W. &amp; W.</i>					
			<b>Cardiomorpha</b> de Koninck.					
			<i>ovata</i> .....					
Kind.	5134	Fig'd.	<b>Cardiopsis</b> M. & W.	N. Y. S. M.	13	110	.....	.....
			<i>radiata</i> ( <i>M. &amp; W.</i> ) <i>Hall.</i>					
			" .....	Pal. N. Y.	5, pt. I	433	70	25
St. L.	5135	Type.	<b>Conocardium</b> Bronn.					
			<i>carinatum</i> ..... <i>Hall.</i>	T. A. I.	4	14	.....	.....
			..... <i>Whitf.</i>	A. M. N. H.	1	59	7	18, 19
			..... <i>Hall.</i>	Geol. Ind.	12	345	30	18, 19
"	5135	"	" .....	T. A. I.	4	14	.....	.....
"	5135	"	<i>catostomum</i> ..... <i>Hall.</i>	" "	4	13	.....	.....
			..... <i>Whitf.</i>	A. M. N. H.	1	58	7	15-17
			..... <i>Hall.</i>	Geol. Ind.	12	344	30	15-17
"	5137	"	<i>cuneatum</i> ..... <i>Whitf.</i>	A. M. N. H.	1	60	7	24, 25
			..... <i>Hall.</i>	Geol. Ind.	12	345	30	24, 25
"	5137	"	" .....	A. M. N. H.	1	60	7	26
			..... <i>Whitf.</i>	Geol. Ind.	12	345	30	26
"	5138	"	<i>Meekianum</i> ..... <i>Hall.</i>	T. A. I.	4	15	.....	.....
			..... <i>Whitf.</i>	A. M. N. H.	1	61	7	21-23
			..... <i>Hall.</i>	Geol. Ind.	12	347	30	21-23
"	5139	"	<i>Prattenanum</i> ..... <i>Hall.</i>	T. A. I.	4	15	.....	.....
			..... <i>Whitf.</i>	A. M. N. H.	1	61	7	20
			..... <i>Hall.</i>	Geol. Ind.	12	346	30	20
Wav.	5140	Fig'd.	<b>Crenipecten</b> Hall.	St. G. N. Y.	1	.....	1	4, 5
			<i>Winchelli</i> ( <i>Meek</i> )... <i>Hall.</i>					
			" .....	Pal. N. Y.	5, pt. I	89	9	25-28
"	"	"	" .....	" "	5, pt. I	89	9	1, 2, 4,
St. L.	5141	Type.	<b>Cypricardella</b> Hall.					
			<i>elliptica</i> ..... <i>Whitf.</i>	A. M. N. H.	1	65	.....	.....
			..... <i>Hall.</i>	" "	1	.....	7	37
			..... <i>Hall.</i>	Geol. Ind.	12	.....	30	37



Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
St. L.	5142 I	Type.	<b>Cypricardella</b> Hall—Cont.					
			nucleata..... Hall.	T. A. I.	4	17		
			Whitf. A. M. N. H.	1	64	7	35, 36	
			Hall.	Geol. Ind.	12	339	30	35, 36
“	5143 I	“	oblonga . . . . . Hall.	T. A. I.	4	18		
			Whitf. A. M. N. H.	1	65	7	32	
			Hall.	Geol. Ind.	12	340	30	32
“	5143 2	“	“ . . . . . “	T. A. I.	4	18		
			“	Geol. Ia.	1, pt. 2	23	10a-d	
			Whitf. A. M. N. H.	1	65	7	30, 31	
			Hall.	Geol. Ind.	12	340	30	30, 31
“	“	Fig'd.	“ (Hall) . . . Whitf.	A. M. N. H.	1	65	7	33, 34
			Hall.	Geol. Ind.	12	340	30	33, 34
Kind. Wav.	5144 I	Type.	<i>plicata</i> . . . . .					
			quadrata . . . . . W. & W.	B. S. N. H.	8	300		
St. L.	5145 I	Gen. and Sp. Type	reservata . . . . . H. & W.	P. N. I. S.	pt. 2	33		
			Hall.	Pal. N. Y.	5, pt. 1	312	74	11-13
“	5146 I	“	subelliptica . . . . . Hall.	T. A. I.	4	17		
			Whitf. A. M. N. H.	1	64	7	28	
			Hall.	Geol. Ind.	12	339	30	28
“	5146 2	“	“ (Hall) Whitf.	A. M. N. H.	1	64	7	27-29
			Hall.	Geol. Ind.	12	339	30	27-29
“	5146 2	“	“ . . . . . “	T. A. I.	4	17		
			<b>Cypricardia</b> Lamarck.					
			<i>indianensis</i> . . . . .					
			<i>subplana</i> . . . . .					
Wav.	5147 I	Type.	<b>Cypricardinia</b> Hall.					
			consimilis . . . . . Hall.	Pal. N. Y.	5, pt. 1	486	79	19-21
St. L.	5148 I	Type	<i>indenta</i> Hall (non Con.)					
			indianensis . . . . . Hall.	T. A. I.	4	18		
			Whitf. A. M. N. H.	1	58	7	14	
			Hall.	Geol. Ind.	12	342	30	14
“	5148 2	“	“ . . . . . “	T. A. I.	4	18		
			“ . . . . . “	“	4	18		
“	5148 3	“	“ . . . . . “	“	4	18		
			“ . . . . . “	“	4	18		
“	5149 2	Fig'd.	“ (Hall) Whitf.	A. M. N. H.	1	58	7	10-13
			Hall.	Geol. Ind.	12	342	30	10-13
Kind.	5149 I	“	sulcifera (A. Winch.) Hall	Pal. N. Y.	5, pt. 1, Pl. & Ex.	79	22	
				“	5, pt. 1	487	79	22
			<b>Cytherodon</b> H. & W.					
			<i>cuneus</i> . . . . .					
			<i>quadrangularis</i> Hall (non H. & W.)					

LOCALITY.	REMARKS.
Spergen Hill, Ind.	As <i>Microdon (Cypricardella) nucleata</i> . An entire individual. Two others and two opposite separated valves are in the original type series from this locality. The specimen figured under this name in Geol. Ia., vol. 1, pt. 2, was a type of <i>Cypricardella oblonga</i> Hall, q. v.
Bloomington, Ind.	Internal cast of a right valve. Nine other valves and casts are in the type series from this locality.
Spergen Hill, Ind.	As <i>Cypricardella nucleata</i> Hall. " <i>Microdon (Cypricardella) oblonga</i> . " " " " " An entire individual of medium size which was one of the original types of <i>Cypricardella oblonga</i> . Five other smaller ones from this local. are in the orig. type series.
Spergen Hill, Ind.	As <i>Microdon (Cypricardella) oblonga</i> . A right valve preserving the hinge and a very large, imperfect left valve. See <i>Sanguinolites plicatus</i> .
Granville, Ohio.	As <i>Microdon reservatus</i> . " " " " " Casts of a right and two left valves.
Spergen Hill, Ind.	As <i>Microdon (Cypricardella) subelliptica</i> . Two right valves, one of which shows the interior.
Spergen Hill, Ind.	As <i>Microdon (Cypricardella) subelliptica</i> . An individual. Five others are in the original type series.
Bloomington, Ind.	Four specimens from this locality are in the original type series.
	See <i>Cypricardinia indianensis</i> . " <i>Edmondia subplana</i> .
Granville, Ohio.	As <i>Cypricardinia indenta</i> Conrad. Entire internal cast of an individual. Figs. are enlargements to two diameters. See <i>Cypricardinia consimilis</i> and <i>Cypricardinia sulcifera</i> . As <i>Cypricardinia indianensis</i> .
Bloomington, Ind.	An imbedded right valve, outline somewhat restored in figure, which is natural size. Nine other separate valves from this locality are in the original type series.
Spergen Hill, Ind.	As <i>Cypricardinia indianensis</i> . Six separate valves, imbedded, from this locality are in the original type series.
Alton, Ill.	As <i>Cypricardinia indianensis</i> . Three imperfect valves from this locality are in the original type series.
Spergen Hill, Ind.	A small, entire individual and a large right valve.
Burlington, Ia.	As <i>Cypricardinia indenta</i> Conrad. Cast of a right valve. Figure is an enlargement to three diameters.
	See <i>Schizodus cuneus</i> .
	" " <i>aqualis</i> .

## Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.					
				Work.	Vol.	P.	Pl.	Figs.	
Kind.	5150 1	Type.	<b>Dexiobia</b> A. Winchell.	Geol. Ia.	I, pt. 2	522	7	10a-c	
			ovata ..... Hall.						I, pt. 2
"	5151 1	Fig'd.	<b>Edmondia</b> de Koninck.	Pal. N. Y.	5, pt. 1,	392	64	25	
			burlingtonensis (W. & W.) Hall.						Pl. & Ex.
Wav.	5152 1	Type.	depressa ..... H. & W.	P. N. L. S.	pt. 2	91	64	25	
			ellipsis..... Hall.						Pal. N. Y.
St. L.	5153 1	Type.	? subplana?..... Hall.	T. A. I.	4	19			
			Whitf.						A. M. N. H.
"	5153 2	"	? "..... Hall.	Geol. Ind.	12	342	30	38	
			Whitf.						T. A. I.
Wav.	5154 1	"	<b>Elymella</b> Hall.	Pal. N. Y.	5, pt. 1,	505	40	11	
			patula..... Hall.						Pl. & Ex.
Kind.	5155 1	Fig'd.	<b>Glossites</b> Hall.	P. N. L. S.	pt. 2	78			
			amygdalinus (A. Winchell) H. & W.						Pal. N. Y.
"	5155 2	"	Hall.	"	"	5, pt. 1	501	40	13, 14
			<b>Goniophora</b> Phillips.						
Wav.	5156 1	Fig'd.	<b>Grammysia</b> de Verneuil.	P. N. L. S.	pt. 2	62			
			hannibalensis (Shum) H. & W.						Pal. N. Y.
Kind.	5156 2	"	" " " " " "	"	"	5, pt. 1	381	61	29, 30
			" " " " " "	"	"	5, pt. 2,	61	33	
"	5157 1	Type.	plena..... Hall.	"	"	5, pt. 1	381	61	33
			" " " " " "	"	"	5, pt. 1,	382	61	31, 32
Wav.	5158 1	Type.	<b>Leda</b> Schumacher.	Pal. N. Y.	5, pt. 1,	47	49, 50		
			Barrisi.....						"
"	5158 2	"	ohioensis.....	"	"	5, pt. 1,	47	49, 50	
			nasuta.....	"	"	Pl. & Ex.			
"	5158 3	"	pandoriformis (Stevens) H.	"	"	5, pt. 1,	47	49, 50	
			Hall.	"	"	Pl. & Ex.			
"	5159 1	"	<b>Macrodon</b> Lycett.	P. N. L. S.	pt. 2	13			
			hamiltoniae..... H. & W.						Pal. N. Y.
"	5160 1	"	ovatus..... H. & W.	P. N. L. S.	pt. 2	15			
			Hall.						Pal. N. Y.
Kind.	5161 1	"	" " " " " "	"	"	5, pt. 1,	351	51	8
			parvus..... W. & W.	B. S. N. H.	8	299	98	16	



LOCALITY.	REMARKS.
Burlington, Ia.	As <i>Cardiomorpha ovata</i> . Casts of two right valves.
" "	" " Cast of a left valve imbedded with two of the types of <i>Spirifer hirtus</i> W. & W.
" "	As type of <i>Edmondia ellipsis</i> Hall. Cast of left valve.
Granville, Ohio.	Cast of right valve.
.....	See <i>Edmondia burlingtonensis</i> .
.....	As <i>Cypricardia subplana</i> .
Spergen Hill, Ind. Bloomington, Ind.	A left valve. An imperfect left valve.
Medina, Ohio.	As a type of <i>Modiomorpha ? hvalea</i> Hall, by error. Cast of a pair of expanded valves.
.....	As <i>Modiomorpha ? amygdalina</i> .
.....	" " " " " "
Burlington, Ia.	Cast of a right valve and the nearly entire imprint of a pair of expanded valves.
.....	See <i>Sanguinolites plicatus</i> .
.....	As <i>Grammysia (Leptodomus ?) hannibalensis</i> .
Cuyahoga Co., Ohio.	Cast of a right valve and a much exfoliated individual.
.....	As <i>Grammysia (Leptodomus ?) hannibalensis</i> .
Hannibal, Mo.	Cast of a right valve from the Lithographic limestone. See also <i>Grammysia plena</i> .
Burlington, Ia.	As <i>Grammysia (Leptodomus ?) hannibalensis</i> Shumard. Casts of two left valves. Original of fig. 31 is imbedded with an unfigured type of <i>Mytilarca occidentalis</i> W. & W.
.....	See <i>Palæoneilo Barrisi</i> .
.....	" <i>Leda pandoriformis</i> .
.....	" <i>Nuculana nasuta</i> .
Newark, Ohio.	As <i>Leda (Nuculana) ohioensis</i> . Internal cast of a right valve in a block with several other figured specimens.
Bedford, Ohio.	Cast of a small right valve. See also <i>Macrodon ovatus</i> .
.....	As <i>Macrodon hamiltonia</i> .
.....	Internal cast of a left valve.
Newark, Ohio.	Internal casts of two opposite valves.
Burlington, Ia.	Internal casts of two opposite valves.

Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type of Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Megambonia</b> Hall. <i>Lyoni</i> .....					
			<i>Microdon</i> Conrad..... <i>ellipticus</i> ..... <i>nucleata</i> ..... <i>oblonga</i> ..... <i>reservatus</i> ..... <i>subelliptica</i> ..... sp.....	A. M. N. H.	I	65		
			<b>Modiomorpha</b> H. & W. <i>amygdalina</i> .....					
Wav.	51.62	Type.	<i>hyalea</i> ..... H. & W. Hall.	P. N. L. S. Pal. N. Y.	pt. 2 5, pt. I	79 292	4I	28-30
			<b>Mytilarca</b> H. & W. <i>fibristriata</i> (W. & W.) H. & W. Hall.	P. N. L. S. Pal. N. Y.	pt. 2 5, pt. I	24 264	33 87	6 6
"	51.64	Type.	<i>occidentalis</i> ... W. & W.	B. S. N. H.	8	297		
"	"	"	" (W. & W.) H. & W. Hall.	P. N. L. S. Pal. N. Y.	pt. 2 5, pt. I	24 263	33 87	5 II
			<b>Nucula</b> Lamarck. <i>Houghtoni</i> (Stevens) Hall.	Pal. N. Y.	5, pt. I, Pl. & Ex.	....	45	29
Wav.	51.65	Fig'd.	" " " " " "	" " " "	5, pt. I	323	45	29
"	51.65	"	" " " " " "	" " " "	5, pt. I, Pl. & Ex.	....	45	30, 3I
"	"	"	" " " " " "	St. G. N. Y. Pal. N. Y.	I 5, pt. I	.... 323	7 45	8, 9 30, 3I
Kind.	51.65	Type.	" " W. & W. <i>iorwensis</i> ..... <i>nasuta</i> .....	B. S. N. H.	8	298		
			<b>Shumardana</b> ..... Hall. <i>Whitf.</i> Hall.	T. A. I. A. M. N. H. Geol. Ind.	4 I 12	16 57 343	7 30	2, 3 2, 3
"	51.66	"	" (Hall) Whitf. Hall.	A. M. N. H. Geol. Ind.	I 12	57 343	7 30	6, in part 6, "
"	51.66	Fig'd.	" (Hall) Whitf. Hall.	A. M. N. H. Geol. Ind.	I 12	57 343	7 30	4-6 4-6
			<b>Nuculana</b> Link. <i>nasuta</i> ..... Hall <i>Whitf.</i> Hall.	T. A. I. A. M. N. H. Geol. Ind.	4 I 12	17 57 344	.... 7 30	.... 7, 8 7, 8
"	51.67	Type.	" ... (Hall) Whitf. Hall.	A. M. N. H. Geol. Ind.	I 12	57 344	7 30	9 9
"	"	Fig'd.	" " " " " "	A. M. N. H. Geol. Ind.	I 12	57 344	7 30	9 9
			<b>Orthonota</b> Conrad. <i>ventricosa</i> .....					

LOCALITY.	REMARKS.
.....	See <i>Cardiopsis radiata</i> .
.....	Name preoccupied. See <i>Cypricardella</i> .
.....	See <i>Cypricardella elliptica</i> .
.....	“ “ <i>nucleata</i> .
.....	“ “ <i>oblonga</i> .
.....	“ “ <i>reservata</i> .
.....	“ “ <i>subelliptica</i> .
.....	“ “ <i>elliptica</i> .
.....	See <i>Glossites amygdalinus</i> .
Granville, Ohio.	Casts of three right valves. See also <i>Elymella patula</i> .
Burlington, Ia.	Cast of a left valve.
“ “	As <i>Mytilus occidentalis</i> . Cast of left valve in block with <i>Grammysia plena</i> Hall, fig. 31, pl. 61, Pal. N. Y., vol. 5, pt. 1.
“ “	Cast of a left valve.
.....	As <i>Nucula iowensis</i> W. & W.
Licking Co., Ohio.	Cast of right valve retaining some silicified shell.
.....	As <i>Nucula iowensis</i> W. & W.
.....	“ “ “ “
Newark, Ohio.	Casts of two left valves imbedded in the same block with several other figured specimens.
Burlington, Ia.	As type of <i>Nucula iowensis</i> W. & W. Internal cast of left valve.
.....	See <i>Nucula Houghtoni</i> .
.....	“ <i>Nuculana nasuta</i> .
Spergen Hill, Ind.	An entire individual. Twelve other specimens from this locality are in the original type series.
Bloomington, Ind.	A left valve used for part of the figure. Four other specimens from this locality are in the original type series.
Spergen Hill, Ind.	An entire individual and the internal cast of a left valve. The latter was used for part of fig. 6. Not in the original series.
.....	As <i>Nucula nasuta</i> .
Spergen Hill, Ind.	As <i>Leda nasuta</i> . Two small individuals.
“ “	As <i>Leda nasuta</i> . An entire individual of large size for the species. Not in the original series.
.....	See <i>Spathella ventricosa</i> .

Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Wav.	5168	Type.	<b>Palæoneilo</b> H. & W.					
			<i>attenuata</i> .....H. & W. Hall.	P. N. L. S.	pt. 2	12		
Kind.	5169	"	" (H. & W.) Hall.	St. G. N. Y.	I		7	22
			<i>Barrisi</i> .....W. & W.	Pal. N. Y.	5, pt. I	346	50	34-36
				B. S. N. H.	8	298		
			<i>Barrisi</i> H. & W. (non W. & W.)					
Wav.	5170	Fig'd.	<i>sulcatina</i> (Hall) H. & W. Hall.	P. N. L. S.	pt. 2			
			" " " " " "	Pal. N. Y.	5, pt. I, Pl.&Ex.		50	42, 45
			" " " " " "	" "	5, pt. I		347	50
			" " " " " "	" "	5, pt. I, Pl.&Ex.		50	43, 44
			" " " " " "	" "	5, pt. I		347	50
			" " " " " "	" "	5, pt. I, Pl.&Ex.		50	46
			" " " " " "	" "	5, pt. I		347	50
	5171	Type.	<i>truncata</i> .....Hall.	" "	5, pt. I, Pl.&Ex.		50	41
			" " " " " "	" "	5, pt. I		347	50
Kind.	5172	Gen. and Sp. Type.	<b>Pernopecten</b> A. Winchell.					
			<i>limiformis</i> .....W. & W. A. Winchell. Hall.	B. S. N. H.	8	295		
			" " " " " "	P. A. N. S.	17	125		
			" " " " " "	St. G. N. Y.	I	12	I	1, 2
			" " " " " "	Pal. N. Y.	5, pt. I	lviii		1, 2
			<b>Pholadella</b> H. & W.					
			<i>cuneata</i> .....					
			<i>decussata</i> .....					
Wav.	5173	Type.	<i>Newberryi</i> .....H. & W. Hall.	P. N. L. S.	pt. 2	65		
Kind.	5174	"	<b>Promacrus</b> Meek.	Pal. N. Y.	5, pt. I	471	78	25
			<i>cuneatus</i> .....H. & W. Hall.	P. N. L. S.	pt. 2	66		
			" " " " " "	Pal. N. Y.	5, pt. I, Pl.&Ex.		78	28
			" " " " " "	" "	5, pt. I	510	78	28
St. L.	5175	"	<b>Pteronites</b> McCoy.					
			<i>spergenensis</i> .....Whitf. Hall.	A. M. N. H.	I	56	7	I
			" " " " " "	Geol. Ind.	12		30	I
			<b>Sanguinolites</b> McCoy.					
			<i>zotus</i> .....					
			<i>flavus</i> .....					
			<i>valvulus</i> .....					
			<i>ventricosus</i> .....					
St. L.	5176	Type.	( <b>Goniophora</b> ?)					
			<i>plicata</i> .....Hall. Whitf. Hall.	T. A. I.	4	18		
			" " " " " "	A. M. N. H.	I	66	7	39
			" " " " " "	Geol. Ind.	12	341	30	39
			" " " " " "	T. A. I.	4	18		
Wav.	5177	"	<b>Schizodus</b> King.					
			<i>æqualis</i> .....Hall.	Pal. N. Y.	5, pt. I	459	75	35
			" " " " " "	" "	5, pt. I, Pl.&Ex.		75	35

LOCALITY.	REMARKS.
Licking Co., Ohio. Newark, Ohio. Burlington, Ia.	Internal cast of a left valve. Casts of one right and two left valves. As <i>Leda Barrisi</i> . Cast of left valve in block with type of <i>Pernopecten limiformis</i> W. & W. Casts of two left and two right valves and the external imprint of a left valve from this locality are in the type series.
.....	See <i>Palaeonilo sulcatina</i> .
.....	As " <i>Barrisi</i> W. & W.
.....	" " " "
Newark, Ohio.	Casts of two opposite valves.
.....	As <i>Palaeonilo Barrisi</i> W. & W.
Newark, Ohio.	Imprints of two opposite valves in a block with several other figured specimens.
.....	As <i>Palaeonilo Barrisi</i> W. & W.
Richfield, Summit Co., Ohio.	Internal cast of a right valve. These are not <i>Palaeonilo sulcatina</i> Conrad (= <i>Nuculites sulcatus</i> Conrad).
Newark, Ohio.	Cast of a right valve.
.....	As <i>Aviculopecten limiformis</i> .
.....	Made type of genus <i>Pernopecten</i> .
Burlington, Ia.	Int. cast in same block with a type of <i>Palaeonila Barrisi</i> W. & W.
.....	See <i>Promacrus cuneatus</i> .
.....	" " " "
Licking Co., Ohio.	Cast of left valve, incomplete posteriorly.
.....	As <i>Pholadella cuneata</i> .
.....	" type of <i>Pholadella decussata</i> Hall.
Burlington, Ia.	Imperfect cast of an individual and the imprint of its left valve.
Spergen Hill, Ind.	A left valve, imbedded.
.....	See <i>Sphenotus aolus</i> .
.....	" " <i>flavus</i> .
.....	" " <i>valvulus</i> .
.....	" <i>Spathella ventricosa</i> .
.....	As <i>Cypricardella plicata</i> .
.....	" <i>Goniophora ? plicata</i> .
Bloomington, Ill.	An imbedded right valve.
Spergen Hill, Ind.	As <i>Cypricardella plicata</i> . Left valve, imbedded.
Licking Co., Ohio	As <i>Cytherodon (Schizodus) quadrangularis</i> H. & W. Cast of indiv.

Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Wav.	5172 1	Type.	<b>Schizodus</b> King—Cont.					
			cuneus.....Hall.	Pal. N. Y.	5, pt. 1, Pl.&Ex.	....	75	29, 30
			"	" "	5, pt. 1	458	75	29, 30
Kind.	5179 1	"	<b>Spathella</b> Hall.					
			ventricosa.....W. & W.	B. S. N. H.	8	297	....	....
			Hall.	Pal. N. Y.	5, pt. 1, Pl.&Ex.	....	66	41, 42
			"	" "	5, pt. 1	408	66	41, 42
Wav.	5180 1	"	<b>Sphenotus</b> Hall.					
			æolus.....H. & W.	P. N. L. S.	pt. 2	46	....	....
			Hall.	Pal. N. Y.	5, pt. 1, Pl.&Ex.	....	66	33, 35
			"	" "	5, pt. 1	404	66	33, 35
"	5181 1	"	flavius.....H. & W.	P. N. L. S.	pt. 2	47	....	....
			Hall.	Pal. N. Y.	5, pt. 1, Pl.&Ex.	....	66	27-29
			"	" "	5, pt. 1	403	66	27-29
"	5182 1	"	valvulus.....H. & W.	P. N. L. S.	pt. 2	46	....	....
			Hall.	Pal. N. Y.	5, pt. 1, Pl.&Ex.	....	66	30
			"	" "	5, pt. 1	403	66	30

Class GASTROPODA.

Kind.	5183 1	Type.	<b>Bellerophon</b> Montfort.					
			bilabiatus.....W. & W.	B. S. N. H.	8	304	....	....
			cancellatus.....					
Kind.	5184 1	Type.	perelegans.....W. & W.	B. S. N. H.	8	304	....	....
			St. L.	5185 1	"	sublævis.....Hall.	T. A. I.	4
			"	Geol. Ia.	1, pt. 2	666	23	15a-c
			"	Whitf.	A. M. N. H.	1	89	8
			"	Hall.	Geol. Ind.	12	371	31
"	5186 2	"	"	T. A. I.	4	32	....	....
"	"	Fig'd.	"	(Hall) Whitf.	A. M. N. H.	1	89	8
			"	Hall.	Geol. Ind.	12	371	31
"	5186 1	Type.	textilis.....Hall.	Am. P. F.	....	243	....	....
			"	T. A. I.	4	31	....	....
			"	Whitf.	A. M. N. H.	1	90	8
			"	Hall.	Geol. Ind.	12	371	31
"	5186 3	"	"	"	T. A. I.	4	31	....
Kind.	5187 1	"	vinculatus.....W. & W.	B. S. N. H.	8	304	....	....
			"	"	"	"	"	"
			<b>Bulimella</b> Hall.					
			bulimiformis.....					
			canaliculata.....					
			elongata.....					
St. L.	5188 1	Gen. and Sp. Type	<b>Bulimorpha</b> Whitfield.					
			bulimiformis.....Hall.	T. A. I.	4	29	....	....
			"	Whitf.	A. M. N. H.	1	74	8
			"	Hall.	Geol. Ind.	12	366	8
"	5188 2	"	"	"	T. A. I.	4	29	....
			"	Whitf.	A. M. N. H.	1	74	31
			"	Hall.	Geol. Ind.	12	366	31

LOCALITY.	REMARKS.
Granville, Ohio.	As <i>Cytherodon (Schizodus) cuneus</i> . Casts of two right valves. In the second reference fig. 30 is "referred to this species with doubt."
Burlington, Ia.	As <i>Orthonota ventricosa</i> . " <i>Sanguinolites ventricosus</i> . Casts of two left valves.
Newark, Ohio.	As <i>Sanguinolites æolus</i> . " " " Nearly entire internal cast of an individual. As <i>Sanguinolites? flavius</i> . " " "
Licking Co., Ohio.	Cast of an individual. As <i>Sanguinolites valvulus</i> . " " "
Newark, Ohio.	Cast of a right valve.
Burlington, Ia.	Casts of two individuals.
Burlington, Ia.	Name pre-occupied. See <i>Bellerophon textilis</i> . Casts of two individuals.
Bloomington, Ind. Spergen Hill, Ind.	Two individuals. Sixteen others from this locality are orig. types. Thirteen individuals from this locality are in the original type series.
" "	A very large individual. Not in the original series.
Bloomington, Ind. Spergen Hill, Ind. Burlington, Ia.	As <i>Bellerophon cancellatus</i> . An entire individual. Seven other individuals from this locality are in the original series of types. As <i>Bellerophon cancellatus</i> . An individual. Cast of an individual.
" "	Name pre-occupied. See <i>Bulimorpha</i> . See <i>Bulimorpha bulimiformis</i> . " " <i>canaliculata</i> . " " <i>elongata</i> .
Bloomington, Ind.	As <i>Bulimella bulimiformis</i> . Type of genus. Present genus proposed. A comparatively large individual. Two smaller ones from this locality are in the original type series. As <i>Bulimella bulimiformis</i> .
Spergen Hill, Ind.	Practically entire. Both figures were made from one individual. Eleven other specimens from this local. are in the orig. type series.





LOCALITY.	REMARKS.
.....	As <i>Bulimella canaliculata</i> .
Spergen Hill, Ind.	An almost entire individual.
.....	As <i>Bulimella elongata</i> .
.....	" <i>Polyphemopsis teretiformis</i> Hall. Name proposed.
Spergen Hill, Ind.	An individual somewhat broken at base and apex.
.....	See <i>Platyceras acutirostris</i> .
.....	As <i>Pleurotomaria Leavenworthana</i> .
Spergen Hill, Ind.	A large individual and one of average size. Twelve others from this locality are in the original type series.
.....	As <i>Pleurotomaria Leavenworthana</i> .
Bloomington, Ind.	A large, somewhat imperfect individual. Twelve other much smaller individuals from this locality are in the original type series.
Alton, Ill.	As <i>Pleurotomaria Leavenworthana</i> . Two individuals from this locality are in the original type series.
.....	As <i>Pleurotomaria subangulata</i> .
Spergen Hill, Ind.	A large individual. A small one from this locality is in the original type series.
.....	As <i>Pleurotomaria concava</i> .
.....	" " <i>tenuimarginata</i> Hall. Name proposed.
Spergen Hill, Ind.	Present genus proposed.
.....	An individual of medium size, and another cut to show the vertical section. Five others from this locality are in the original type series.
Alton, Ill.	As <i>Pleurotomaria concava</i> . Two individuals.
Burlington, Ia.	A weathered individual, imbedded.
Bloomington, Ind.	Two individuals. Nine others from this locality are in the original type series.
Spergen Hill, Ind.	Twelve small individuals from this locality are in the original type series.
Bloomington, Ind.	Two individuals. Eight others from this locality are in the original type series.
Spergen Hill, Ind.	Twelve small individuals from this locality are in the original type series.
" "	An individual of medium size. Seven others from this locality are in the original type series.
Bloomington, Ind.	Ten individuals from this locality are in the original type series.
Ellettsville, Ind.	A large individual.

## Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
St. L.	5195 1	Type.	<b>Euomphalus</b> Sowerby—Cont. spergenensis, var. planorbiformis. <i>H.</i>	T. A. I.	4	20		
			<i>Whitf.</i>	A. M. N. H.	1	70	8	20, 21
			<i>Hall.</i>	Geol. Ind.	12	351	31	20, 21
"	5195 2	"	" " "	T. A. I.	4	20	.....	.....
"	5199 1	"	<b>Holopea</b> Hall. Proutana..... <i>Hall.</i>	"	4	30		
			<i>Whitf.</i>	A. M. N. H.	1	72	8	33, 34
			<i>Hall.</i>	Geol. Ind.	12	368	31	33, 34
"	5199 2	"	" " "	T. A. I.	4	30	.....	.....
"	5199 3	"	" " "	"	4	30	.....	.....
"	5200 1	Fig'd Sp. and G.T.	<b>Lepetopsis</b> Whitfield. Levettei ( <i>White</i> ) <i>Whitf.</i>	A. M. N. H.	1	68	8	8-12
			<i>Hall.</i>	Geol. Ind.	12	.....	31	8-12
St. L.	5201 1	Type.	<b>Loxonema</b> Phillips. <i>vincta</i> ..... <i>Hall.</i>	T. A. I.	4	28		
			<i>Whitf.</i>	A. M. N. H.	1	77	8	35, 36
			<i>Hall.</i>	Geol. Ind.	12	365	31	35, 36
"	5202 1	"	<b>Macrocheilus</b> Phillips. Littonanus..... <i>Hall.</i>	T. A. I.	4	30		
			<i>Whitf.</i>	A. M. N. H.	1	72	8	28
			<i>Hall.</i>	Geol. Ind.	12	369	31	28
"	5203 1	"	<b>Murchisonia</b> d'A. & de V. <i>attenuata</i> ..... <i>Hall.</i>	T. A. I.	4	27		
			<i>Whitf.</i>	A. M. N. H.	1	88	9	13
			<i>Hall.</i>	Geol. Ind.	12	360	32	13
St. L.	5204 1	Type.	<i>elegantula</i> ..... <i>Hall.</i>	T. A. I.	4	26		
			<i>Whitf.</i>	A. M. N. H.	1	85	9	18
			<i>Hall.</i>	Geol. Ind.	12	359	32	18
Kind.	5205 1	"	" " " " " " "	T. A. I.	4	26		
			?prolixa..... <i>W. &amp; W.</i>	B. S. N. H.	8	303		
St. L.	5206 1	"	terebriformis..... <i>Hall.</i>	T. A. I.	4	28		
			<i>Whitf.</i>	A. M. N. H.	1	86	9	15, 16
			<i>Hall.</i>	Geol. Ind.	12	362	32	15, 16
"	5207 1	"	turritella..... <i>Hall.</i>	T. A. I.	4	27		
			<i>Whitf.</i>	A. M. N. H.	1	88	9	12
			<i>Hall.</i>	Geol. Ind.	12	361	32	12
"	5208 1	"	vermicula..... <i>Hall.</i>	T. A. I.	4	27		
			<i>Whitf.</i>	A. M. N. H.	1	87	9	11
			<i>Hall.</i>	Geol. Ind.	12	361	32	11
"	5209 1	"	<i>vincta</i> ..... <i>Hall.</i>	T. A. I.	4	28		
			<i>Whitf.</i>	A. M. N. H.	1	86	9	14
			<i>Hall.</i>	Geol. Ind.	12	363	32	14

LOCALITY.	REMARKS.
Bloomington, Ind. Spergen Hill, Ind.	A comparatively large individual. Three others from this locality are in the original type series. Eleven individuals from this locality are in the original type series.
..... Spergen Hill, Ind. Bloomington, Ind. Alton, Ill.	As <i>Holopea</i> ( <i>Callonema</i> ?) <i>Proutana</i> . A large individual. Eleven others from this locality are in the original type series. Eight individuals from this locality are in the type series. Fourteen individuals from this locality are in the original type series.
Spergen Hill, Ind. .....	Two individuals. The original of fig. 8 cannot be found at the present time.  See <i>Murchisonia vincta</i> .
Spergen Hill, Ind. ..... Bloomington, Ind.	An individual and a fragment. Another individual from the same locality is in the original type series.  As <i>Natica Littonana</i> . Generic reference queried. A single, practically entire individual.
Spergen Hill, Ind. .....	Part of a well-preserved individual. See <i>Pleurotomaria elegantula</i> .
Spergen Hill, Ind. Bloomington, Ind. Burlington, Ia.	A very perfect individual. Eleven others from this locality are in the original type series. Six individuals from this locality are in the original type series. Parts of three individuals imbedded in limestone (bed No. 4 of C. A. White).
Bloomington, Ind.	Well preserved. A smaller individual from this locality is in the original series of types.
Spergen Hill, Ind.  " "	Practically entire. Fourteen other individuals from this locality are in the original type series.  An individual larger than the average. Twenty-three others from this locality are in the original type series. As <i>Loxonema vincta</i> .
Spergen Hill, Ind.	An individual preserving the lower five whorls. Three others from this locality are in the original type series.

## Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Natica</b> Adanson.					
			<i>Carleyana</i> .....					
			<i>Littonana</i> .....					
			<b>Naticopsis</b> McCoy.					
St. L.	5210	Type.	<i>Carleyana</i> ..... Hall.	T. A. I.	4	31		
			Whitf.	A. M. N. H.	1	71	8	26, 27
			Hall.	Geol. Ind.	12	369	31	26, 27
"	5210	"	" .....	T. A. I.	4	31		
"	5210	"	" .....	"	4	31		
			<b>Platyceras</b> Conrad.					
"	5211	"	<i>acutirostris</i> ..... Hall.	T. A. I.	4	31		
			" .....	Geol. Ia.	I, pt. 2	665	23	14a, b
			Whitf.	A. M. N. H.	1	67	8	13-15
			Hall.	Geol. Ind.	12	370	31	13-15
"	5211	"	" .....	T. A. I.	4	31		
Kind.	5212	"	<i>bivolve</i> ..... W. & W.	B. S. N. H.	8	302		
Keok.	5213	"	<i>equilaterale</i> ..... Hall.	Ia. Sup.		89		
"	5214	"	<i>fissurella</i> .....	"		90		
Kind.	5215	"	<i>paralium</i> ..... W. & W.	B. S. N. H.	8	302		
			<b>Pleurotomaria</b> DeFrance.					
			<i>concarva</i> .....					
St. L.	5216	Type.	<i>conula</i> ..... Hall.	T. A. I.	4	26		
			Whitf.	A. M. N. H.	1	84	9	17
			Hall.	Geol. Ind.	12	358	32	17
"	5217	"	<i>elegantula</i> ..... Hall.	T. A. I.	4	27		
			Whitf.	A. M. N. H.	1	84	9	19
			Hall.	Geol. Ind.	12	358	32	19
"	5218	"	<i>humilis</i> ..... Hall.	T. A. I.	4	21		
			Whitf.	A. M. N. H.	1	82	9	3
			Hall.	Geol. Ind.	12	353	32	3
"	5218	"	" .....	T. A. I.	4	21		
			<i>Leavenworthana</i> .....					
St. L.	5219	Type.	<i>Meekana</i> ..... Hall.	T. A. I.	4	22		
			Whitf.	A. M. N. H.	1	82	9	8, 9
			Hall.	Geol. Ind.	12	353	32	8, 9
"	5220	"	<i>nodulostriata</i> ..... Hall.	T. A. I.	4	21		
			Whitf.	A. M. N. H.	1	80	9	5
			Hall.	Geol. Ind.	12	352	32	5
"	5220	"	" .....	T. A. I.	4	21		
"	5220	"	" .....	"	4	21		
"	5221	"	<i>piasensis</i> ..... Hall.	"	4	22		
			Whitf.	A. M. N. H.	1	83	9	6, 7
			Hall.	Geol. Ind.	12	354	32	6, 7

LOCALITY.	REMARKS.
.....	See <i>Naticopsis Carleyana</i> .
.....	" <i>Macrocheilus Littonanus</i> .
.....	As <i>Natica Carleyana</i> .
Bloomington, Ind.	A very large individual. Nine much smaller ones from this locality are in the original type series.
Spergen Hill, Ind.	As <i>Natica Carleyana</i> . Twelve individuals from this locality are in the original type series.
Alton, Ill.	As <i>Natica Carleyana</i> . Two worn specimens from this locality are in the original type series.
.....	As <i>Capulus acutirostris</i> .
.....	" " "
Bloomington, Ind.	Two individuals, but the second, which was illustrated in fig. 15 and the Iowa report, cannot be found at the present time. Two others from this locality are in the original type series.
Spergen Hill, Ind.	As <i>Capulus acutirostris</i> . Three individuals from this locality are in the type series.
Burlington, Ia.	Casts of two individuals.
Warsaw, Ill.	A small individual.
Keokuk, Ia.	A large individual which was one of the original types, though the locality is not mentioned in the original description of the species.
Burlington, Ia.	Two casts of average individuals.
.....	See <i>Eotrochus concavus</i> .
.....	As <i>Pleurotomaria (Murchisonia?) conula</i> .
Spergen Hill, Ind.	A rather large individual for the species. Seven others from this locality are in the original type series.
.....	As <i>Murchisonia elegantula</i> .
Bloomington, Ind.	An individual preserving about five volutions.
Spergen Hill, Ind.	A small individual. Four other individuals and fragments from this locality are in the original type series.
Bloomington, Ind.	An individual from this locality is in the original type series.
.....	See <i>Cyclonema Leavenworthanum</i> .
.....	Generic reference queried.
Alton, Ill.	An imperfect individual, somewhat exfoliated. Not from Spergen Hill, as stated in the original paper.
Spergen Hill, Ind.	An individual of average size. Ten others from this locality are in the original series of types.
Bloomington, Ind.	Two individuals from this locality are in the original series of types.
Alton, Ill.	An individual from this locality is in the original series of type.
"	A somewhat imperfect individual. Ten other individuals from this locality are in the original type series.

Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Pleurotomaria</b> Defr.—Cont.					
			<i>rotundata</i> .....					
			<i>subangulata</i> .....					
St. L.	5222 1	Type.	<i>subglobosa</i> .....Hall.	Am. P. F.		245		
			"	T. A. I.	4	23		
			"	Whitf. A. M. N. H.	1	79	9	10
			"	Hall. Geol. Ind.	12	355	32	10
"	5222 5	"	"	T. A. I.	4	23		
"	5222 8	"	"	"	4	23		
"	5223 1	"	Swallovana.....	"	4	24		
			"	Whitf. A. M. N. H.	1	80	9	1, 2
			"	Hall. Geol. Ind.	12	356	32	1, 2
"	5223 5	"	"	T. A. I.	4	24		
St. L.	5224 1	Type.	<i>tenuimarginata</i> .....					
			<i>trilineata</i> .....Hall.	T. A. I.	4	25		
			"	Whitf. A. M. N. H.	1	80	9	20
			"	Hall. Geol. Ind.	12	357	32	20
"	5224 2	"	"	T. A. I.	4	25		
"	5225 1	"	Wortheni.....Hall.	"	4	23		
			"	Geol. Ia.	1, pt. 2	664	23	13a-d
			"	Whitf. A. M. N. H.	1	81	9	4
			"	Hall. Geol. Ind.	12	356	32	4
			<b>Polyphemopsis</b> Portlock.					
			<i>teretiformis</i> .....					

Class PTEROPODA.

St. L.	5226 1	Type.	<b>Conularia.</b>					
			<i>subulata</i> .....Hall.	T. A. I.	4	32		
			"	Whitf. A. M. N. H.	1	91	8	3
			"	Hall. Geol. Ind.	12	372	31	3

Class CEPHALOPODA.

			<b>Goniatites</b> de Haan.					
Kind.	5227 1	Type.	<i>hyas</i> .....					
			<i>ixion</i> .....Hall.	N. Y. S. M.	13	101		15, 16
			"	"	13	125		1, 2
			"	I. D. F.	Ceph.		73	13, 14
			"	"			74	12
			"	Pal. N. Y.	5, pt. 2	474	73	13, 14
"	"	"	"	"			74	12
"	"	"	"	I. D. F.	Ceph.		73	12
"	"	"	"	Pal. N. Y.	5, pt. 2	474	73	12
"	"	"	"	St. G. N. Y.	5		13	3
"	"	"	"	Pal. N. Y.	5, pt. 2, Suppl.	40	128	3

LOCALITY.	REMARKS.
.....	Name pre-occupied. See <i>Pleurotomaria subglobosa</i> . See <i>Cyclonema subangulatum</i> .
.....	As type of <i>Pleurotomaria rotundata</i> Hall.
Spergen Hill, Ind.	An individual. Thirteen other individuals from this locality are in the original series of types.
Bloomington, Ind.	As type of <i>Pleurotomaria rotundata</i> Hall. Two individuals from this locality are in the original type series.
Alton, Ill.	As type of <i>Pleurotomaria rotundata</i> Hall. Three individuals from this locality are in the original type series.
Spergen Hill, Ind.	A small individual. The aperture in the figure was supplied from other specimens. Nine other specimens from this locality are in the original type series.
Bloomington, Ind.	Four specimens from this locality are in the original type series.
.....	See <i>Æotrochus concavus</i> .
" "	An individual of average size. The enlargement was to 4, not 3, diameters. Nine other specimens from this locality are in the original type series.
Spergen Hill, Ind.	One very large individual and seven of average size from this locality are in the original type series.
Bloomington, Ind.	An individual of medium size. Two others from this locality are in the type series.
.....	See <i>Bulimorpha elongata</i> .
Alton, Ill.	Three specimens form the type series.
.....	See <i>Goniatites Lyoni</i> .
.....	As <i>Goniatites rotatorius</i> de Koninck?
Rockford, Ind.	Cast of septate portion. From the "Goniatite beds."
" "	Fragmentary, septate cast. From the "Goniatite beds."
" "	A cast of medium size cut in longitudinal section. Both parts are present. From the "Goniatite beds."

## Class CEPHALOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Goniatites de Haan—Cont.</b>					
Kind.	5228 <sub>1</sub>	Fig'd.	Lyoni ( <i>M. &amp; W.</i> ) <i>Hall.</i>	I. D. F.	Ceph.	...	72	12
"	"	"	" " " "	Pal. N. Y.	5, pt. 2	476	72	12
"	"	"	" " " "	N. Y. S. M.	13	102	...	17, 18
"	"	"	" " " "	I. D. F.	Ceph.	...	73	9
"	"	"	" " " "	Pal. N. Y.	5, pt. 2	476	73	9
"	"	"	" " " "	I. D. F.	Ceph.	...	73	10, 11
"	"	"	" " " "	Pal. N. Y.	5, pt. 2	476	73	10, 11
"	5229 <sub>1</sub>	Type.	opimus..... <i>W. &amp; W.</i>	B. S. N. H.	8	305	...	7
"	5230 <sub>1</sub>	"	Oweni..... <i>Hall.</i>	N. Y. S. M.	13	100	...	11, 12
"	"	"	" " " "	I. D. F.	Ceph.	...	73	3, 4
"	"	"	" " " "	Pal. N. Y.	5, pt. 2	470	73	3, 4
"	"	"	" " " "	"	"	74	74	9
"	"	"	" " " "	I. D. F.	Ceph.	...	73	5-8
"	"	"	" " " "	Pal. N. Y.	5, pt. 2	470	73	5-8
"	"	"	" " " "	St. G. N. Y.	5	...	13	4
"	"	"	" " " "	Pal. N. Y.	5, pt. 2, Suppl.	40	128	4
"	5231 <sub>1</sub>	"	" var. parallela <i>Hall.</i>	N. Y. S. M.	13	100	p. 101	13, 14
"	"	"	" " " "	I. D. F.	Ceph.	...	73	1, 2
"	"	"	" " " "	"	"	74	74	10
"	"	"	" " " "	Pal. N. Y.	5, pt. 2	473	73	1, 2
"	"	"	" " " "	"	"	74	74	10
"	"	"	<i>rotatorius</i> H. (non de Kon)	.....	.....	.....	.....	.....
			<b>Gyroceras de Koninck.</b>					
Kind.	5232 <sub>1</sub>	Type.	gracile..... <i>Hall.</i>	N. Y. S. M.	13	105	...	1, 2
			<b>Nautilus Breynius.</b>					
St. L.	5233 <sub>1</sub>	"	Clarkanus..... <i>Hall.</i>	T. A. I.	4	32	...	...
"	"	"	" " " " <i>Whitf.</i>	A. M. N. H.	1	92	8	1
"	"	"	" " " " <i>Hall.</i>	Geol. Ind.	12	373	31	1
Chest.	5234 <sub>1</sub>	"	pauper..... <i>Whitf.</i>	N. Y. A. S.	2	226	...	...
"	"	"	" " " " "	" " " "	5	595	14	23
"	"	"	" " " " "	Geol. O.	7	481	10	23
"	5235 <sub>1</sub>	Fig'd.	( <b>Temnocheilus</b> ) spectabilis ( <i>M. &amp; W.</i> ) <i>W.</i>	N. Y. A. S.	5	594	14	22
"	"	"	" " " " "	Geol. O.	7	480	10	22
			<b>Orthoceras Breynius.</b>					
St. L.	5236 <sub>1</sub>	Type.	<i>dedalus</i> .....	.....	.....	.....	.....	.....
"	"	"	<i>epigrus</i> ..... <i>Hall.</i>	T. A. I.	4	33	...	...
"	"	"	" " " " <i>Whitf.</i>	A. M. N. H.	1	91	8	2
"	"	"	" " " " <i>Hall.</i>	Geol. Ind.	12	373	31	2
Kind.	5237 <sub>1</sub>	"	<i>icarus</i> ..... <i>Hall.</i>	St. G. N. Y.	5	...	2	11-15
"	"	"	" " " " "	Pal. N. Y.	5, pt. 2, Suppl.	31	118	11-15
"	5238 <sub>1</sub>	"	<i>indianense</i> ..... <i>Hall.</i>	N. Y. S. M.	13	107	...	...
"	"	"	" " " " "	St. G. N. Y.	5	...	2	6-10
"	"	"	" " " " "	Pal. N. Y.	5, pt. 2, Suppl.	30	118	6-10



LOCALITY.	REMARKS.
Rockford, Ind. .....	Segment of cast of large individual. From the "Goniatite beds." As type of <i>Goniatites hyas</i> Hall.
Rockford, Ind.	Cast of part of two volutions. From the "Goniatite beds."
" " Burlington, Ia.	Two fragmentary casts. From the "Goniatite beds." Fragmentary, septate cast, imbedded. The sutures are entirely different from those in the large specimen referred to this species by Weller, Trans. Acad. Sci., St. Louis, vol. 10, pl. 8.
Rockford, Ind.	Cast showing the sutures very plainly. From the "Goniatite beds."
" "	Two small, septate casts and two large specimens showing no septa.
" "	A large individual cut in longitudinal section. Both parts are present. From the "Goniatite beds."
" " .....	Cast. From the "Goniatite beds." See <i>Goniatites ixion</i> .
Rockford, Ind.	A septate cast from the "Goniatite beds."
Spergen Hill, Ind.	The specimen shows about two of the inner whorls of a shell.
Near Rushville, O.	Fragmentary, internal cast, imbedded.
" " .....	Part of a septate, internal cast.  See <i>Orthoceras indianense</i> .
Spergen Hill, Ind.	A fragment showing five chambers.
Rockford, Ind.	Three fragmentary casts from the "Goniatite beds."
..... Rockford, Ind.	As type of <i>Orthoceras dædalus</i> . Four fragmentary casts from the "Goniatite beds."

## Subkingdom VERMES.

Geol. Subdiv	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work	Vol.	P.	Pl.	Figs.
St. L.	5238 1	Type.	<b>Spirorbis</b> Lamarck.					
			annulatus.....Hall.	T. A. I.	4	34		
			Whitf.	A. M. N. H.	1	92	9	30
			Hall.	Geol. Ind.	12	374	32	30
"	5238 2	"	" .....	"	4	34		
"	5238 3	"	" .....	"	4	34		
			var. <i>nodulosus</i> .....					
St. L.	5240 1	Type.	<b>nodulosus</b> .....Hall.	T. A. I.	4	34		
			Whitf.	A. M. N. H.	1	93	9	31
			Hall.	Geol. Ind.	12	375	32	31

## Subkingdom ARTHROPODA.

Class

St. L.	5241 1	Type.	<b>Cythere</b> Müller.					
			<i>carbonaria</i> .....					
			<b>Cytherellina</b> Jones & Holl.					
			<i>glandella</i> .....Whitf.	A. M. N. H.	1	94	9	28, 29
			Hall.	Geol. Ind.	12	....	32	28, 29
"	5242 1	"	<b>Leperditia</b> Rouault.					
			<i>carbonaria</i> .....Hall.	T. A. I.	4	33		
			Whitf.	A. M. N. H.	1	94	9	24-27
			Hall.	Geol. Ind.	12	375	32	24-27
"	5242 2	"	" .....	"	4	33		

## Order TRILOBITA.

Kind.	5243 1	Fig'd	<b>Protëus</b> Steinger.					
			<i>auriculatus</i> .....					
			<i>missouriensis</i> (Shum.)...H.	N. Y. S. M.	15	107		
			"	Pal. N. Y.	7	133	23	32

## Class ANNELIDA.

LOCALITY.	REMARKS.
Alton, Ill. Spergen Hill, Ind. Bloomington, Ind. ..... Spergen Hill, Ind.	An individual. Eight others from this locality are in the original type series. Five individuals from this locality are in the original type series. Three individuals from this locality are in the original type series. See <i>Spirorbis nodulosus</i> . As <i>Spirorbis annulatus</i> var. <i>nodulosus</i> . A single individual.
CRUSTACEA.                      Order OSTRACODA.	
..... Spergen Hill, Ind. ..... Spergen Hill, Ind. Bloomington, Ind.	See <i>Leperditia carbonaria</i> . An individual. Three others are in the original series of types. As <i>Cythere carbonaria</i> . An individual. Seventeen others from this locality are in the original type series. As <i>Cythere carbonaria</i> . Twenty-four individuals from this locality are in the original type series.
..... Licking Co., O.	See <i>Proëtus missouriensis</i> . As type of <i>Proëtus auriculatus</i> Hall. Part of the exterior imprint of a cephalon and the cast of a pygidium referred to under the original description.

## Coal Measures.

## Kingdom ANIMALIA.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
C. M.	5247 1	Fig'd.	<b>Derbya</b> Waagen.					
			<i>crassa</i> (M. & H.)... Hall.	St. G. N. Y.	2	....	40	10, 11
"	5248 1	Type.	<i>H. &amp; C.</i>	Pal. N. Y.	8, pt. 1	262	10	10, 11
			<i>robusta</i> ..... Hall.	St. G. N. Y.	2	....	40	16, 17
"	5249 1	Fig'd.	<i>H. &amp; C.</i>	Pal. N. Y.	8, pt. 1	262	10	16, 17
			<b>Meekella</b> W. & St. J.					
"	5249 1	Fig'd.	<i>striato-costata</i> (Cox) Hall.	St. G. N. Y.	2	..	40	18, 22
			<i>H. &amp; C.</i>	" " "	11	....	17	13, <i>enl.</i>
"	5249 1	Fig'd.	<i>H. &amp; C.</i>	Pal. N. Y.	8, pt. 1	265	10	18, 22
			<b>Productus</b> Sowerby.					
C. M.	5250 1	Fig'd.	<i>aspersus</i> .....					
			<i>longispinus</i> .....					
"	5251 1	"	<i>nebrascensis</i> (Owen) Hall.	St. G. N. Y.	2	....	50	5-7
			<i>H. &amp; C.</i>	" " "	11	....	22	7, <i>v. v.</i>
"	5251 1	"	<i>H. &amp; C.</i>	Pal. N. Y.	8, pt. 1	....	19	5-7
			<i>punctatus</i> (Martin)?.. H.	St. G. N. Y.	2	....	50	17, 18
"	5251 1	"	<i>H. &amp; C.</i>	" " "	11	....	22	9, 10
			<i>H. &amp; C.</i>	Pal. N. Y.	8, pt. 1	....	19	17, 18
C. M.	5252 1	Fig'd.	<i>Rogersi</i> .....					
			<i>splendens</i> (N. & P.) Hall.	St. G. N. Y.	2	....	50	1-3
"	5252 1	"	<i>H. &amp; C.</i>	" " "	11	....	22	13
			<i>H. &amp; C.</i>	Pal. N. Y.	8, pt. 1	332	19	1-3
"	5252 1	"	<i>H. &amp; C.</i>	St. G. N. Y.	2	....	50	4, <i>int</i> X 2
			<i>H. &amp; C.</i>	" " "	11	....	22	14, " "
"	5252 1	"	<i>H. &amp; C.</i>	Pal. N. Y.	8, pt. 1	332	19	4, " "
			<b>Spirifer</b> Sowerby.					
"	5252 1	"	<i>cameratus</i> (Morton) Hall.	St. G. N. Y.	2	....	57	9, 10
			<i>H. &amp; C.</i>	" " "	13	....	26	7, <i>d. v.</i>
"	5252 1	"	<i>H. &amp; C.</i>	Pal. N. Y.	8, pt. 2	....	32	9, 10
			<i>H. &amp; C.</i>	St. G. N. Y.	2	....	57	12
"	5252 1	"	<i>H. &amp; C.</i>	Pal. N. Y.	8, pt. 2	26	32	12
			<b>Streptorhynchus</b> King.					
"	5252 1	"	<i>Richmondi</i> .....					
			<i>robustus</i> .....					
"	5252 1	"	<i>striato-costata</i> .....					

## Subkingdom MOLLUSCA.

C. M.	5253 1	Type.	<b>Leda</b> Schumacher.					
			<i>bellistriata</i> .....					
"	5254 1	Fig'd.	<b>Nucula</b> Lamarck.					
			<i>arata</i> .....					
"	5254 1	Fig'd.	<i>ventricosa</i> ..... Hall.	Geol. Ia.	1, pt. 2	716	29	4-5b
			<b>Nuculana</b> Link.					
"	5254 1	Fig'd.	<i>bellistriata</i> (Stevens) Hall.	Stans. Rep't.	.....	413	2	5 a, b
			<i>H. &amp; C.</i>	Geol. Ia.	1, pt. 2	717	29	6a-d

## MOLLUSCOIDEA.

## Class BRACHIOPODA.

LOCALITY.	REMARKS.
Near Winterset, Ia. St. Clair Co., Ill.	As <i>Streptorhynchus Richmondi</i> McChesney. Two separated, opposite valves. As <i>Streptorhynchus robustus</i> . A large ventral valve.
Near Winterset, Ia.	As <i>Streptorhynchus (Meekella) striato-costata</i> . An indiv. of med. size and a preparation showing the cardinal process.
La Salle, Ill.	See <i>Productus nebrascensis</i> . " " <i>splendens</i> . As <i>Productus aspersus</i> McChesney.
?	Two individuals. As <i>Productus Rogersi</i> N. & P.
Winterset, Ia.	A partly exfoliated ventral valve. See <i>Productus punctatus</i> . As <i>Productus longispinus</i> Sowerby.
La Salle, Ill.	" " ( <i>Marginifera</i> ) <i>splendens</i> . " " Entire.
La Salle, Ill.	" " <i>longispinus</i> Sowerby. " " ( <i>Marginifera</i> ) <i>splendens</i> . " " " " A dorsal valve.
Winterset, Ia.	A well preserved individual, partly silicified.
Ohio or Illinois.	A somewhat exfoliated individual.
.....	See <i>Derbya crassa</i> .
.....	" " <i>robusta</i> .
.....	" <i>Meekella striato-costata</i> .

## Class LAMELLIBRANCHIATA.

.....	See <i>Nuculana bellistriata</i> .
Rush Creek, Ind.	A very perfect left valve and an entire individual.
Near Weston, Mo.	As type of <i>Nucula arata</i> Hall. An individual with posterior extremity missing. From "the east side of the Missouri river below Weston."
Illinois.	As <i>Leda bellastrata</i> . A nearly entire individual and a large right valve with posterior extremity gone.

Class GASTROPODA.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vo.	P.	Pl.	Figs.
C. M.	5255 1	Gen. and Sp. Type.	<b>Anthracopupa</b> Whitfield.	Am. J. S. Geol. O.	III, 21 7	126 491	.... 12	1-4 15-17
			ohioensis..... Whitf.					
"	5256 2	Fig'd.	<b>Euomphalus</b> Sowerby.	Geol. Ia.	I, pt. 2 I, pt. 2	722 722	29 29	14a-c 14d
			catilloides (Conrad) Hall.					
			<i>rugosus</i> .....					
			<b>Macrocheilus</b> Phillips.					
			<i>fusiformis</i> .....					
			<i>newberryi</i> .....					
			<i>paludinaformis</i> .....					
C. M.	5257 1	Fig'd.	<i>primigenium</i> (Con.) Hall.	Geol. Ia.	I, pt. 2	720	29	11a, b
			<i>ventricosus</i> .....					
C. M.	5258 1	Fig'd.	<b>Pleurotomaria</b> DeFrance.	Geol. Ia.	I, pt. 2 I, pt. 2	722 721	29 29	13a, b 12a, b
			sphaerulata (Con.)... Hall.					
			tabulata (Con.)... Hall.					
	5260 1	Type.	<b>Soleniscus</b> M. & W.	" "	I, pt. 2	718	29	7
			<i>fusiformis</i> ..... Hall.					
	5261 1	Fig'd.	<i>Newberryi</i> (Stevens) Hall.	" "	I, pt. 2	719	29	9
	5262 1	Type.	<i>paludiniiformis</i> ..... Hall.	" "	I, pt. 2	719	29	10
	5263 1	"	<i>ventricosus</i> ..... Hall.	" "	I, pt. 2	718	29	8

Class CEPHALOPODA.

C. M.?	5264 1	Type.	<b>Nautilus.</b>	St. G. N. Y. Pal. N. Y.	5 5, pt. 2, Suppl.	.... 38	11 126	3-5 3-5
			parallelus..... Hall.					
			"					

Subkingdom ARTHROPODA.

Class

			<b>Belinurus</b> König.					
			<i>Danae</i> .....					
C. M.	5265 1	Gen. and Sp. Type.	<b>Euproöps</b> Meek.	P. A. N. S. Geol. Ill. Am. J. S.	17 2 II, 43	44 395 395	..... ..... .....	..... ..... .....
			<i>Danae</i> ..... M. & W.					
			" Meek.					

Order EURYPTERIDA.

C. M.	5266 1	Fig'd.	<b>Eurypterus</b> De Kay.	Geol. Pa.	PPP	27	....	3
			mazonensis (M. & W.) H.					

LOCALITY.	REMARKS.
Marietta, O. Illinois. Alpine Dam, Des Moines River, Ia.	An entire indiv. The figures are enlargements to six diameters. As type of <i>Euomphalus rugosus</i> Hall. An entire individual. " " " " " " An imbedded individual. See <i>Euomphalus catilloides</i> .
..... ..... ..... Alpine Dam, Des Moines River, Ia.	" <i>Soleniscus fusiformis</i> . " " <i>Newberryi</i> . " " <i>paludiniiformis</i> . Entire. See <i>Soleniscus ventricosus</i> .
Greysville, Ill. " " "	A nearly entire individual. A considerably exfoliated individual.
Alpine Dam, Des Moines River, Ia. Danville, Ill. Alpine Dam, Des Moines River, Ia. Danville, Ill.	As <i>Macrocheilus fusiformis</i> . A partly exfoliated indiv., imbedded. " " <i>newberryi</i> . A cast in pyrite. " " <i>paludinaformis</i> . A partly exfoliated individual, imbedded. As <i>Macrocheilus ventricosus</i> . A pyritized individual.
Ohio?	Fragmentary cast.
CRUSTACEA. Order XIPHOSURA	
..... ..... Mazon Creek, Ill.	See <i>Euproöps Dana</i> . As <i>Belinurus Dana</i> . The page is "43" in the author's reprints. Genus proposed. A cast in a clay-iron-stone nodule. One of the types used in the original description, but it was not figured.
" "	As <i>Eurypterus (Anthraconectes) mazonensis</i> . External imprint of upper surface. The specimen has been weathered somewhat since the nodule was split. It is a little larger than M. & W.'s specimen, and does not seem to be its counterpart, as stated on p. 26 of the paper cited.

Cretaceous. Kingdom PLANTÆ. Subkingdom

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl	Figs.
Dak.	5267 1	Type.	<b>Discorea</b> Linn. ? cretacea.....Lesq.	G. S. Terr.	6	56	28	10
"	5268 1	"	<b>Ficus</b> Linn. ? Halliana.....Lesq.	" "	6	68	28	3
"	"	"	? " .....	" "	6	68	28	9
"	5269 1	"	<b>Phyllites</b> Brongniart. betuliformis.....Lesq.	T. A. P. S. G. S. Terr.	13 6	430 112	23 28	4 4
"	5270 1	.....	vanonæ ( <i>Heer</i> ).....Lesq.	" "	6	113	20	7
"	"	Fig'd.	" " .....	" "	6	113	28	8

Kingdom ANIMALIA. Subkingdom

Cret.	5271 1	Fig'd.	<b>Barrettia</b> Woodward. monilifera ( <i>Woodw.</i> ) <i>Whitf.</i>	A. M. N. H.	9	233	27-32	.....
"	"	"	" " " " " "	" "	9	233	38	I-4
"	5272 1	Type.	multilirata..... <i>Whitf.</i>	" "	9	244	33-35	.....
"	5273 1	"	sparcilirata..... <i>Whitf.</i>	" "	9	245	36, 37	.....

MOLLUSCOIDEA.

Ft. P.	5274 1	Type.	<b>Lingula</b> Bruguière. subspatulata... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	38c	I	2a, b
L. M.	5275 1	Fig'd.	<b>Terebratella</b> d'Orbigny. plicata ( <i>Say</i> )..... <i>Whitf.</i>	Mon. G. S.	9	12	I	5, 6
"	"	"	" " .....	Pal. N. J.	I	12	I	5, 6
"	"	"	" " .....	Mon. G. S.	9	12	I	7, 8
"	"	"	" " .....	Pal. N. J.	I	12	I	7, 8
M. M.	5276 1	"	<b>Terebratula</b> Llwyd. Harlani ( <i>Morton</i> ). <i>Whitf.</i>	Mon. G. S.	9	8	I	20-22
"	5277 1	"	" var. fragilis ( <i>Morton</i> ) <i>Whitf.</i>	Pal. N. J.	I	8	I	20-22
"	"	"	" var. pervalis ( <i>Morton</i> ) <i>Whitf.</i>	Mon. G. S.	9	7	I	17, 18
"	5278 1	"	" var. pervalis ( <i>Morton</i> ) <i>Whitf.</i>	Pal. N. J.	I	7	I	17, 18
U. M.	5279 1	"	<b>Terebratulina</b> d'Orbigny. atlantica ( <i>Morton</i> ) <i>Whitf.</i>	Mon. G. S.	9	9	I	10, 13
"	"	"	" " .....	Pal. N. J.	I	9	I	10, 13

Subkingdom MOLLUSCA.

Ripl.	5280 1	Fig'd.	<b>Amussium</b> Klein. simplicum ( <i>Con.</i> ).. <i>Whitf.</i>	Mon. G. S.	9	51	7	11, 12
"	"	"	" " .....	Pal. N. J.	I	51	7	11, 12
Cret.	5281 1	Type.	<b>Anatina</b> Lamarck. ? orientalis..... <i>Whitf.</i>	A. M. N. H.	3	412	7	18



## PHANEROGAMIA. Class ANGIOSPERMEÆ.

LOCALITY.	REMARKS.
Near New Ulm, Minn.	Imprint not entire along middle line. From the bank of the Big Cottonwood river.
" "	A nearly entire imprint and its counterpart. The latter shows more of the apex than the portion figured. From the bank of the Big Cottonwood river.
" "	Part of the imprint of a leaf. From the bank of the Big Cottonwood river.
" "	Part of an imprint of a leaf. Lesquereux seems to have made a mistake in giving the locality of this specimen as "Nebraska."
" "	Possibly the counterpart of the specimen figured. From the bank of the Big Cottonwood river.
" "	The specimen figured and its counterpart.

## CELENTERATA. Class ACTINOZOA.

Jamaica, W. I.	The six specimens described and illustrated. From Orange Cove, Hanover Parish.
" "	Four thin sections. From Orange Cove, Hanover Parish.
" "	Two specimens. From Orange Cove, Hanover Parish.
" "	Two specimens. From Logie Green, Clarendon Parish.

## Class BRACHIOPODA.

Near Red Cedar Is., Missouri River.	Cast which has lost the shell, which was originally preserved, according to the description. From 35 miles below Fort Pierre.
Near New Egypt, N. J.	A large individual.
Middletown, N. J.	" " "
Near New Egypt, N. J.	A full-grown individual.
" "	An individual and the partial cast of another.
" "	A partly exfoliated individual.
Near Farmingdale, N. J.	Two casts.

## Class LAMELLIBRANCHIATA.

Eufaula, Ala.	Two opposite valves, imbedded.
Shweifat, Syria.	Imbedded individual showing much exfoliated right side. From the Andrihil Chalk horizon.

## Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Arca</b> Lamarck. <i>transversa</i> .....					
Cret.	5283 1	Type.	<b>Arcopagia</b> d'Orbigny. <i>planissima</i> ..... <i>Whitf.</i>	A. M. N. H.	3	409	7	8, 9
Ft. P.	5283 1	"	<b>Avicula</b> Bruguière. <i>Haydeni</i> ..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	382	I	5a, b
Dak.	5284 1	"	<b>Axinæa</b> Poli. <i>siouxcensis</i> ..... <i>H. &amp; M.</i> <i>Meek.</i>	" "	5, N.S.	384 92	I I	12 6
Ripl.	5285 1	"	<b>Callista</b> Poli. <i>eufaulensis</i> ..... <i>Conrad.</i>	J. A. N. S.	4, 2d Ser.	282	46	24
Cret.	5285 1	"	<i>syriaca</i> ..... <i>Whitf.</i>	A. M. N. H.	3	411	7	14, 15
Ft. P.	5287 1	"	( <b>Aphrodina</b> ?) <i>tenuis</i> ..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	383	I	8a-c
Ft. B.	5288 1	"	( <b>Dosiniopsis</b> ?) <i>orbiculata</i> ..... <i>H. &amp; M.</i>	" "	5, N.S.	382	I	7
Cret.	5288 1	"	<b>Caprina</b> d'Orbigny. <i>jamaicensis</i> ..... <i>Whitf.</i>	A. M. N. H.	9	192	13 15	I, 2 I, 2
Ft. P.	5289 1	"	<b>Caprinella</b> d'Orbigny. <i>coraloidea</i> ..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	380	I	3a-f
Cret.	5291 1	"	<i>occidentalis</i> ..... <i>Whitf.</i>	A. M. N. H.	9	193	16 17	I-4 I-4
"	5292 1	"	<i>quadrangularis</i> ... <i>Whitf.</i>	" "	9	193	12 14	5 4, 5
"	5293 1	"	<b>Caprinula</b> d'Orbigny. <i>gigantea</i> ..... <i>Whitf.</i>	" "	9	194	18-22	.....
"	5294 1	"	<b>Cardita</b> Bruguière. <i>Rawsoni</i> ..... <i>Whitf.</i>	" "	3	397	5	9, 10
"	5295 1	"	<b>Cardium</b> Linn. ( <b>Protocardium</b> ?) <i>Birdanum</i> ..... <i>Whitf.</i>	" "	3	405	6	7-10
"	5296 1	"	( <b>Serripes</b> ?) <i>bewertense</i> ..... <i>Whitf.</i>	" "	3	404	6	11-13
"	5296 2	"	" " " " " "	" "	3	404	6	14
"	5297 1	"	<b>Caryatis</b> Römer. <i>globulus</i> ..... <i>Whitf.</i>	" "	3	410	7	10, 11
U. M.	5298 1	Fig'd.	<i>veta</i> ( <i>Conrad</i> )... <i>Whitf.</i>	Mon. G. S.	9	218	28	16
"	5298 2	"	" " " " " "	Pal. N. J.	1	218	28	16
"		"	" " " " " "	Mon. G. S.	9	218	28	18, 19
"		"	" " " " " "	Pal. N. J.	1	218	28	18, 19

No.	REMARKS.
.....	See <i>Trigonarca transversa</i> .
Syria.	Internal cast of an individual. From the brown clay above the Abeih sandstone.
'edar Is., River.	A left valve imbedded. From 25 miles below Fort Pierre.
.....	As <i>Pectunculus siouxensis</i> .
.....	" <i>Trigonarca (Breviarca?) siouxensis</i> . Internal cast of a left valve.
Ala.	A right valve, imbedded. The umbo has been broken since the figure was made.
Syria.	Entire internal cast. From the Naaman beds.
River.	As <i>Cytherca tenuis</i> . The specimen has been ruined by the oxidation of the pyrite in the shale. From five miles below James river, S. D.
"	As <i>Cytherca orbiculata</i> . A partly exfoliated and altered right valve, imbedded. From five miles below the mouth of the James river, S. D.
W. I.	A small individual and a very large one. From Logie Green, Clarendon Parish.
k, Wyo.	The specimen as described and figured.
W. I.	Five upper and three lower valves. From Logie Green, Clarendon Parish.
"	A fragmentary and an entire lower valve. From Christianna, Manchester Parish.
"	Six valves and parts of valves. From Logie Green, Clarendon Parish.
let, Syria.	Entire internal cast. Probably from the brown beds above the Abeih sandstone.
, Syria.	Two individuals and a right valve. From the Abeih sandstone.
, Syria.	An entire individual and a larger left valve. From the Bewerty bed.
, Syria.	A right valve. The figure is an enlargement to $1\frac{1}{2}$ diameters. From the Abeih sandstone.
Syria.	Entire left valve somewhat weathered. From the Abeih sandstone.
n, N. J.	An internal cast.
ale, N. J.	An individual preserving much of the shell.

## Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv	Cat. No.	Type or Fig'd Sp	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
L. M.	5300 1	Fig'd.	<b>Cibota</b> Browne.					
			uniopsis (Conrad) Whitf.	Mon. G. S.	9	92	II	32, 33
			"	Pal. N. J.	I	92	II	32, 33
Cret.	5300 1	Type.	<b>Corbula</b> Lamarck.					
			olive..... Whitf.	A. M. N. H.	3	413	7	19-21
			<b>Corbicula</b> Megerle.					
	5301 1	"	(Batissa?) Hamlini..... Whitf.	" "	3	407	6	17-20
	5301 2	"	" .....	" "	3	407	6	21, 22
	5302 1	Gen. and Sp. Type.	<b>Corbiculopsis</b> Whitfield.					
			Birdi..... Whitf.	" "	3	409	7	3-5
			" .....	" "	3	409	7	6, 7
U. M.	5303 1	Type.	<b>Crassatella</b> Lamarck.					
			Conradi..... Whitf.	Mon. G. S.	9	209	28	3
			"	Pal. N. J.	I	209	28	3
			curta Whitf. (non Con.)..					
Ft. P. Ripl.	5304 1	Type.	Evansi..... H. & M.	Mem. A. A.	5, N.S.	383	I	9a-e
	5305 1		lintea..... Conrad.	J. A. N. S.	4, 2d Ser.	279	46	5
	5306 1		pteropsis..... Conrad.	" "	4, 2d Ser.	279	46	9
U. M.	5307 1	"	<b>Criocardium</b> Conrad.					
			nucleolus..... Whitf.	Mon. G. S.	9	214	28	10, 11
			"	Pal. N. J.	I	214	28	10, 11
L. M.	5308 1	Fig'd.	<b>Cyprimeria</b> Conrad.					
			depressa (Conrad) Whitf.	Mon. G. S.	9	156	22	13
			"	Pal. N. J.	I	156	22	13
			<b>Cytherea</b> Lamarck.					
			orbiculata.....					
			tenuis.....					
Cret.	5309 1	Type.	<b>Donax</b> Linn.					
			minutissima..... Whitf.	A. M. N. H.	3	411	7	12, 13
	5310 1	"	<b>Eriphyla</b> Gabb.					
			crenulicosta..... Whitf.	" "	3	403	6	2-5
M. M.	5311 1	Fig'd.	<b>Gastrochæna</b> Spengler.					
			americana (Gabb) Whitf.	Mon. G. S.	9	203	26	18
			"	Pal. N. J.	I	203	26	18
Cret.	5312 1	Type.	<b>Gervillia</b> Defrance.					
	5313 1		obesa..... Whitf.	A. M. N. H.	3	391	4A	5-7
	5314 1		perobesa.....	" "	3	392	5	6-8
			trapezoidalis.....	" "	3	392	4A	11, 12
M. M.	5315 1	"	<b>Gryphæa</b> Lamarck.					
			Bryani Gabb, var. præcedens Whitf.	Mon. G. S.	9	194	26	7, 8
			"	Pal. N. J.	I	195	26	7, 8
"	5316 1	Fig'd.	<b>vesicularis</b> (Lam.) Whitf.	Mon. G. S.	9	194	26	9, 10
			"	Pal. N. J.	I	194	26	9, 10

LOCALITY.	REMARKS.
Near New Egypt, N. J.	Internal cast of an individual.
Near Abeih, Syria.	Entire individual, very perfect. From the Abeih sandstone at the "Olive locality."
Duccûn, Syria.	An entire individual and a right valve. From the Abeih sandstone.
Marahh, Syria.	Internal cast. From the Bewerty bed.
Duccûn, Syria.	An individual and a larger specimen with the left valve slightly imperfect. From the Abeih sandstone.
" "	Upper part of a right valve and a somewhat imperfect individual with valves displaced so as to show hinge of left valve. From the Abeih sandstone.
Near New Egypt, N. J.	As <i>Crassatella curta</i> , Con. ? by typogr. error in expl. of plate. " " " " Con. ? by typogr. error in expl. of pl. Internal cast preserving a fragment of shell. See <i>Crassatella Conradi</i> .
Sage Creek, Wyo. Eufaula, Ala. Tippah Co., Miss.	Two opposite valves and an internal cast. A right valve and its internal cast. An entire right valve.
Farmingdale, N. J.	Two internal casts.
Freehold, N. J.	Internal cast of a left valve.
..... .....	See <i>Callista (Dosiniopsis?) orbiculata</i> . " " ( <i>Aphrodina?</i> ) <i>tenuis</i> .
Near Abeih, Syria.	Somewhat worn individual with slight break on lower edge. From the Abeih sandstone at the "Olive locality."
Bewerty, Syria.	An entire individual and a left valve. The orig. of fig. 4 is missing. From the Bewerty beds.
Timber Creek, N. J.	Cast of a tube.
Andrifil, Syria. Near Abeih, Syria. Bewerty, Syria.	Practically entire. From the Abeih sandstone. A nearly entire individual from the Abeih sandstone. Two weathered right valves. From the Bewerty beds.
Monmouth Co., N. J.	The separated valves of an individual.
Near New Egypt, N. J.	Entire. Shell has been mostly replaced by limonite.

## Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
M. M.	5817 1	Fig'd.	<b>Gryphæostrea</b> Conrad.	Mon. G. S.	9	195	26	11, 12
			vomer ( <i>Morton</i> )... <i>Whitf.</i>	Pal. N. J.	1	195	26	11, 12
L. M.	5818 1	"	<b>Inoceramus</b> J. Sowerby.	Mon. G. S.	9	75	15	4, 5
			Barabini ( <i>Morton</i> ) <i>Whitf.</i>	Pal. N. J.	1	75	15	4, 5
Ft. B.	5819 1	Type.	Conradi..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	387	2	5a, b
Ft. P.	5820 1	"	convexus..... <i>H. &amp; M.</i>	" "	5, N.S.	386	2	2a, b
Ft. B.	5821 1	"	fragilis..... <i>H. &amp; M.</i>	" "	5, N.S.	388	2	6a, b
			<i>nebrascensis</i> .....					
Ft. P.	5822 1	Type.	<i>sagensis</i> Owen, <i>var. nebrascensis</i> Owen.	W., I. & M.	.....	582	8A	1
"	5823 1	"	<i>sublævis</i> ..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	386	2	1a, b
"	5824 1	"	<i>tenuilineatus</i> ... <i>H. &amp; M.</i>	" "	5, N.S.	387	2	3a, b
Cret.	5825 1	"	<b>Lima</b> Bruguière	A. M. N. H.	3	390	4A	1, 2
			<i>tenuitesta</i> ..... <i>Whitf.</i>					
"	5826 1	"	<b>Lucina</b> Bruguière.	" "	3	403	6	6
"	5827 1	"	<b>Mactra</b> Linn.	" "	3	412	7	16, 17
			? <i>olivensis</i> ..... <i>Whitf.</i>					
U. M.	5828 1	"	<b>Modiola</b> Lamarck.	Mon. G. S.	9	207	28	8, 9
			<i>Johnsoni</i> ..... <i>Whitf.</i>	Pal. N. J.	1	207	28	8, 9
Cret.	5829 1	"	<b>Nucula</b> Lamarck.	A. M. N. H.	3	396	5	3-5
			<i>glanstriticea</i> ..... <i>Whitf.</i>					
			<i>subnasuta</i> ..... <i>H. &amp; M.</i>					
			<i>ventricosa</i> <i>H. &amp; M.</i> (non <i>Hinds</i> ).....					
Ft. P.	5830 1	Type.	<b>Nuculana</b> Link.	Mem. A. A.	5, N.S.	384	1	10a-c
			<i>subnasuta</i> ..... <i>H. &amp; M.</i>					
Cret.	5831 1	"	<b>Opis</b> DeFrance.	A. M. N. H.	3	398	5	11, 12
			<i>megambona</i> ..... <i>Whitf.</i>					
L. M.	5832 1	Fig'd.	<b>Panopea</b> Ménard de la Groye.	Mon. G. S.	9	181	24	6
			<i>decisa</i> ( <i>Conrad</i> )... <i>Whitf.</i>	Pal. N. J.	1	181	24	6
L. M.	5833 1	Fig'd.	<b>Pecten</b> Müller.	Mon. G. S.	9	45	7	1
			<i>rigida</i> .....	Pal. N. J.	1	45	7	1
"	5833 2	"	<i>venustus</i> ( <i>Morton</i> ) <i>Whitf.</i>	Mon. G. S.	9	45	7	2-4
			" " "	Mon. G. S.	9	45	7	2-4
			" " "	Pal. N. J.	1	45	7	2-4
			<b>Pectunculus</b> Lamarck.					
			<i>siouxensis</i> .....					

LOCALITY.	REMARKS.
New Egypt, N. J.	An individual.
Marlborough, N. J. Missouri River.	Cast of a left valve. External imprint of a crushed individual retaining some fragments of shell. From five miles below the mouth of the Vermilion river.
Sage Creek, Wyo. Missouri River.	Nearly entire left valve, imbedded. Cast of a left valve. From five miles below the mouth of the Vermilion river.
.....	See <i>Inoceramus sagensis</i> , var. <i>nebrascensis</i> .
Sage Creek, Wyo.  Missouri River. Sage Creek, Wyo.	As <i>Inoceramus nebrascensis</i> . A left valve, partly exfoliated, always considered to have been the original of the species. Reversed in engraving. Its right valve is present in the same block. A somewhat exfoliated right valve, imbedded. From the "Great Bend" of the Missouri river. An imperfect, somewhat exfoliated left valve, imbedded.
Gazelle Mt., Syria.	A right valve which has lost the anterior margin. From the Gazelle cherts.
Near Abeih, Syria.	Entire. From the Abeih sandstone at the "Olive locality."
" "	Entire. From the Abeih sandstone at the "Olive locality."
Farmingdale, N. J.	Cast showing external features.
Near Abeih, Syria.	Two individuals and a left valve. From the Abeih sandstone at the "Olive locality."
.....	See <i>Nuculana subnasuta</i> . " <i>Yoldia ventricosa</i> .
South Dakota.	As <i>Nucula subnasuta</i> . An entire individual. From the mouth of the Big Sioux river.
Bewerty, Syria.	Entire. From the Bewerty beds.
Near Burlington, N. J.	Cast of conjoined valves.
.....	See <i>Syncyclonema rigidum</i> .
Mullica Hill, N. J.	Cast of a right valve.
Freehold, N. J.	Two opposite valves, now somewhat broken.
.....	See <i>Axinæa siouxensis</i> .

## Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Cret.	5334	Type.	<b>Perna</b> Bruguière. palestina ..... <i>Whitf.</i>	A. M. N. H.	3	394	4A	8-10
L. M.	5335	Fig'd.	<b>Pholadomya</b> G. B. Sowerby. occidentalis ( <i>Mor.</i> ) <i>Whitf.</i>	Mon. G. S. Pal. N. J.	9 1	175 175	24 24	1, 2 1, 2
Cret.	5336	Fig'd Sp. and G. T.	<b>Platopsis</b> Whitfield. obruta ( <i>Con.</i> )..... <i>Whitf.</i>	A. M. N. H.	3	400	....	2, 3
"	5337	Type.	plicata..... <i>Whitf.</i>	" "	3	400	5	13-15
"	5338	"	? triangularis..... <i>Whitf.</i>	" "	3	401	5	16, 17
"	5339	Fig'd Sp. and G. T.	undata ( <i>Con.</i> ).... <i>Whitf.</i>	" "	3	400	....	1
Ripl.	5340	Type.	<b>Plicatula</b> Lamarck. tetrica ..... <i>Conrad.</i>	J. A. N. S.	II, 4	283	46	26
			<i>Pterinoperna</i> ..... <i>syriaca</i> .....					
Cret.	5341	Type.	<b>Pteroperna</b> Morris and Ly cett. syriaca..... <i>Whitf.</i>	A. M. N. H.	3	393	4A	13, 14
"	5342	"	<b>Radiolites</b> Lamarck. adherens..... <i>Whitf.</i>	" "	9	188	10 11 12	1-3 1-3 1
"	5343	"	annulosus..... <i>Whitf.</i>	" "	9	191	14	3
"	5344	"	cancellatus..... <i>Whitf.</i>	" "	9	190	12	4
"	5345	"	macroplacatus..... <i>Whitf.</i>	" "	9	190	13 12 13	3-7 2, 3 8
"	"	"	"....."	" "	9	190	14	1, 2
"	5346	"	rudis..... <i>Whitf.</i>	" "	9	189	11	4
"	5347	"	( <b>Lapeirousia</b> ) Nicholasi..... <i>Whitf.</i>	" "	9	186	6, 7	.....
"	5342	"	"....."	" "	9	186	8, 9	.....
"	5348	"	<b>Radula</b> Klein. naamanensis..... <i>Whitf.</i>	" "	3	390	4A	3, 4
"	5349	"	<b>Scambula</b> Conrad. secunda..... <i>Whitf.</i>	" "	3	402	6	1
Ripl.	5350	Sub-G. & Sp Type.	<b>Stalagmium</b> Conrad..... serica..... <i>Conrad.</i>	J. A. N. S.	II, 4	281	46	23
Ft. P.	5351	Gen. and Sp. Type.	<b>Syncyclonema</b> Meek. rigidum..... <i>H. &amp; M.</i> <i>Meek.</i>	Mem. A. A. C. L. I. F. G. S. Terr.	5, N.S. Cret. 9	381 31 26	1	4a-c ..... .....
Cret.	5352	Type.	<b>Trapezium</b> Humphrey. naamanense..... <i>Whitf.</i>	A. M. N. H.	3	406	6	15, 16



LOCALITY.	REMARKS.
Klelay, Syria.	The separated valves of an individual, somewhat imperfect as to margin. From the Abeih sandstone.
Monmouth, N. J.	Cast of a large individual, showing external and internal features.
Bewerty, Syria.	Two opposite valves. The left has lost its margin. From the Bewerty beds.
Duccûn, Syria.	An entire individual and a right valve. From the Abeih sandstone at Duccûn.
Near Abeih, Syria.	An entire individual from the Abeih sandstone at the "Olive locality."
Marahh, Syria.	A left valve. From the Bewerty beds.
Tippah Co., Miss.	Entire individual.
.....	Misprint for <i>Pteroperna</i> , q. v. See <i>Pteroperna syriaca</i> .
Bewerty, Syria.	As <i>Pterinoperna syriaca</i> . An imperfect left valve. From the Bewerty beds.
Jamaica, W. I.	Four specimens. From Logie Green, Clarendon Parish.
" "	A weathered individual. From near Christianna, Manchester Parish.
" "	Two individuals. From Logie Green, Clarendon Parish.
" "	Four individuals, two of which are young and attached to a specimen of <i>Caprinella occidentalis</i> . From Logie Green.
" "	Part of a small individual showing artificial section. From Logie Green.
" "	A single specimen. From Logie Green.
" "	Three specimens. From Logie Green.
" "	An upper valve with part of the lower valve belonging thereto. Weathered. From Houghton Hall, Hanover Parish.
Naaman, Syria.	Cast of a right valve and a right valve.
Near Abeih, Syria.	Individual with slight break in anterior margin. From the Abeih sandstone at the "Olive locality."
.....	Defined as a subgenus under <i>Crenella</i> .
Eufaula, Ala.	A right valve. Figure is an enlargement to two diameters.
.....	As <i>Pecten rigida</i> H. & M. New genus established.
Sage Creek, Wyo.	Genus fully described. Two more or less exfoliated opp. valve
Naaman, Syria.	Entire internal cast. From the Naaman beds.

## Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Cret.	5353 I	Type.	<b>Trigonarca</b> Conrad. <i>palestina</i> ..... <i>Whitf.</i>	A. M. N. H.	3	395	5	I, 2
L. M.	5354 I	Fig'd.	<i>siouxensis</i> ..... <i>transversa</i> ( <i>Gabb</i> ) <i>Whitf.</i>	Mon. G. S. Pal. N. J.	9 I	89 89	12 12	13 13
Cret.	5356 I	Type.	<b>Veleda</b> Conrad. <i>elliptica</i> ..... <i>Whitf.</i>	A. M. N. H.	3	406	7	I, 2
Ripl.	5356 I	Fig'd.	<b>Veniella</b> Stoliczke. <i>conradi</i> ( <i>Morton</i> ).. <i>Whitf.</i>	Mon. G. S. Pal. N. J.	9 I	144 144	19 19	10 10
Ft. P.	5357 I	Type.	<b>Yoldia</b> Möller. <i>ventricosa</i> ..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	385	I	IIa, b

## Class GASTROPODA.

Ft. P.	5358 I	Type.	<b>Acmaea</b> Eschscholtz. <i>occidentalis</i> ..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	385	I	I3a-d
L. M.	5359 I	Type.	<b>Actæon</b> Montfort. <i>concinus</i> ..... <i>Forbesianus</i> ..... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	157 157	19 19	21, 22 21, 22
Cret.	5360 I	"	<b>Actæonina</b> d'Orbigny. <i>marahhensis</i> ..... <i>Whitf.</i>	A. M. N. H.	3	436	10	18, 19
"	5361 I	"	<i>syriaca</i> ..... <i>Whitf.</i>	" "	3	435	11	10, 11
Ripl.	5362 I	Sub-G. & Sp. Type.	<b>Afer</b> Conrad..... <i>belliliratus</i> ..... <i>Conrad.</i>	J. A. N. S.	II, 3	332	35	17
Cret.	5363 I	Type.	<b>Akera</b> Müller. <i>siliciosa</i> ..... <i>Whitf.</i>	A. M. N. H.	3	441	10	14, 15
Ft. P.	5364 I	"	<b>Amauropsis</b> Mörch. <i>paludiniiformis</i> .. <i>H. &amp; M.</i> <i>Whitf.</i>	Mem. A. A. Mon. G. S. Pal. N. J.	5, N.S. 18 2	389 132 132	3 16 16	3a-c 26 26
			<b>Buccinum</b> Linn. <i>vinculum</i> .....					
			<b>Capulus</b> Montfort. <i>occidentalis</i> .....					
Cret.	5365 I	Type.	<b>Caricella</b> Conrad. <i>planilirata</i> ..... <i>Whitf.</i>	A. M. N. H.	3	414	8	1, 2
"	5366 I	"	<b>Cerithopsis</b> Forbes & Hanley. <i>cretacea</i> ..... <i>Whitf.</i>	A. M. N. H.	3	431	9	22
"	5367 I	"	<b>Cerithium</b> Adanson. <i>Conradi</i> ..... <i>Whitf.</i>	" "	3	428	9	11, 12
			<b>Cinulia</b> Gray. <i>concinna</i> .....					

LOCALITY.	REMARKS.
Near Abeih, Syria. .....	Entire individual. An unfigured individual is included among the types. From the Abeih sandstone. See <i>Axinaea siouxensis</i> .
Mullica Hill, N. J.	Cast of entire individual. On explanation of plate as <i>Arca</i> ( <i>Trigonarca</i> ) <i>transversa</i> .
Near Abeih, Syria.	Entire. From the Abeih sandstone at the "Olive locality."
Eufaula, Ala.	A right valve, nearly perfect.
Sage Creek, Wyo.	As <i>Nucula ventricosa</i> . A right valve, imbedded.
Sage Creek, Wyo. .....	As <i>Capulus occidentalis</i> . Internal cast.  See <i>Oligoptycha concinna</i> .
Mullica Hill, N. J.	Internal cast.
Marahh, Syria. Klelay, Syria.	Internal cast. From the yellowish clays of the Bewerty horizon. Two internal casts. From the Abeih sandstone.
Tippah Co., Miss. .....	Defined as a subgenus under <i>Fusus</i> . As <i>Fusus</i> ( <i>Afer</i> ) <i>belliliratus</i> . An individual, entire except as to part of aperture.
Ghurzûz, Syria. .....	Two silicified individuals. From the Gazelle cherts.  As <i>Natica paludinaformis</i> .
South Dakota. ..... .....	Two individuals, one of which is imbedded. From the "Great Bend" of the Missouri river. The locality seems to have been south of (below) Ft. Pierre.  See <i>Trachytriton vinculum</i> .  " <i>Acmæa occidentalis</i> .
Between Shimlan and Aithath, Syria.	Imperfect internal cast. From the limestone above the Bewerty beds.
Duccûn, Syria.	An individual with lip broken away. From the Abeih sandstone.
" "	Two somewhat imperfect individuals. From the Abeih sandstone.  See <i>Oligoptycha concinna</i> .

## Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
L. M.	5368 1	Type.	<b>Cithara</b> Schumacher.					
			mullicaënsis..... <i>Whitf.</i>	Mon. G. S.	18	106	13	6
			"	Pal. N. J.	2	106	13	6
Ft. P.	5369 1	Gen. and Sp. Type.	<b>Closteriscus</b> Meek.					
			tenuilineatus... <i>H. &amp; M. Meek.</i>	Mem. A. A. G. S. Terr.	5, N.S.	392 306	3	8a-c
"	5370 1	Sub-G. & Sp. Type.	<b>Cryptorhytis</b> Meek.....					
			cheyennensis... <i>M. &amp; H. H. &amp; M. Meek.</i>	P. A. N. S. Mem. A. A. G. S. Terr.	12 5, N.S.	422 393 365	19 3	10a, b 13a, b
Ripl.	5371 1	Type.	<b>Daphnella</b> Hinds.					
			?eufaulensis..... <i>Conrad.</i>	J. A. N. S.	II, 4	285		
	5372 1	"	?subfilosa..... <i>Conrad.</i>	" "	II, 4	285		
Ft. P.	5373 1	"	<b>Dentalium</b> Linn.					
			gracile..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	393	3	11a-c
Ripl.	5374 1	"	<b>Drillia</b> Gray.					
			?distans..... <i>Conrad.</i>	J. A. N. S.	II, 4	286	46	49
L. M.	5375 1	Fig'd.	<b>Endoptygma</b> Gabb.					
			umbilicatum ( <i>Tuomey</i> ) <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	136 136	17 17	20 20
			<b>Fusus</b> Lamarck.					
			<i>bellaliratus</i> .....					
			<i>Shumardi</i> .....					
			<i>tenuilineatus</i> .....					
Cret.	5376 1	Type.	<b>Globiconcha</b> d'Orbigny.					
			altispira..... <i>Whitf.</i>	A. M. N. H.	3	440	11	4, 5
			( <i>Tylostoma</i> ?)					
	5377 1	"	gazellensis..... <i>Whitf.</i>	" "	3	439	11	1-3
	5378 1	"	?triplica..... <i>Whitf.</i>	" "	3	440	10	20-22
L. M.	5380 1	Fig'd.	<b>Gyrodex</b> Conrad.					
			altispira ( <i>Gabb</i> )... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	128 128	16 16	7, 8 7, 8
	5381 1	"	obtusivolva ( <i>Gabb</i> ) <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	129 129	16 16	12 12
	5382 1	"	petrosus ( <i>Morton</i> ) <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	127 127	16 16	1-3 1-3
.....	5383 1	Type.	<b>Lunatia</b> Gray.					
			concinna..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	389	3	2a, b
L. M.	5384 1	Fig'd.	Halli ( <i>Gabb</i> )..... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	130 130	16 16	15, 16 15, 16
M. M.	5384 2	"	" " " " " " " "	Mon. G. S. Pal. N. J.	18 11	175 175	21 21	10, 11 10, 11
Ft. P.	5385 1	Type.	obliquata..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	389	3	1a, b

LOCALITY.	REMARKS.
Mullica Hill, N. J.	Internal cast.
Sage Creek, Wyo.	As <i>Fusus? tenuilineatus</i> . New genus described. A somewhat flattened and exfoliated fragment.
Sage Creek, Wyo.	Defined as a subgenus under <i>Fasciolaria</i> . As <i>Gladius? cheyennensis</i> . Name proposed in place of <i>Rostellaria fusiiformis</i> H. & M., which was preoccupied.
Sage Creek, Wyo.	As type of <i>Rostellaria fusiiformis</i> H. & M. (non Pictet & Roux). Imperfect specimen, mostly a cast.
Eufaula, Ala.	A chalky individual which has been nearly ruined by accidents.
Sage Creek, Wyo.	Two fragments were used as the types.
Eufaula, Ala.	An imbedded individual, the apex of which has become disintegrated. Figure reversed in lithographing it.
Near Burlington, N. J.	Cast of two and a half volutions. See <i>Afer belliratus</i> . " <i>Trachytriton Shumardi</i> . " <i>Closteriscus tenuilineatus</i> .
Ain Kisûr, Syria.	Two internal casts. From the brown clayey limestone above the Bewerty bed.
Gazelle Mt., Syria.	Two specimens with imperfect lips. From the yellowish brown clays at the summit of Gazelle Mt.
Gazelle Hollow, Syria.	An imperfect, somewhat crushed specimen and part of the lower volution of another, silicified. From the cherts at Gazelle Hollow.
Mullica Hill, N. J.	Internal cast.
New Egypt, N. J.	Cast with some bits of shell attached.
Mullica Hill, N. J.	Internal cast of an individual of average size.
?	As <i>Natica concinna</i> . A very young individual of a recent form. Not a fossil and not the same as <i>Lunatia concinna</i> Meek, G. S. Terr., Vol. 9, pl. 32, fig. 11.
Mullica Hill, N. J.	Cast.
Timber Creek, N. J. South Dakota.	Cast. As <i>Natica obliquata</i> . An individual with lip somewhat broken. From the "Great Bend" of the Missouri river below Ft. Pierre.

## Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Cret.	5386	Type.	<b>Mangilia</b> Leach. ?solitaria..... <i>Whitf.</i>	A. M. N. H.	3	415	8	5, 6
L. M.	5387	Fig'd.	<b>Margarita</b> Leach. abyssina ( <i>Gabb.</i> )... <i>Whitf.</i> " " "	Mon. G. S. Pal. N. J.	18 2	133 133	17 17	1, 2 1, 2
Cret.	5388	Type.	<b>Mesalia</b> Gray. gazellensis..... <i>Whitf.</i>	A. M. N. H.	3	424	9	10
"	5389	"	<b>Monodonta</b> Lamarck. antiqua..... <i>Whitf.</i>	" "	3	434	10	12, 13
M. M.	5390	Fig'd.	<b>Natica</b> ( <i>Adanson</i> ) Scopoli. abyssina ( <i>Morton</i> ) <i>Whitf.</i> " " " <i>concinna</i> ..... <i>obliquata</i> ..... <i>paludinaeformis</i> .....	Mon. G. S. Pal. N. J.	18 2	175 175	21 21	12, 13 12, 13
Cret.	5391	Type.	( <b>Ampullina</b> ) fluctuoides..... <i>Whitf.</i>	A. M. N. H.	3	417	8	8, 9
"	5391	"	" " " " " " " "	" "	3	417	8	10
"	5392	"	" <i>var. acuminata.</i> <i>Whitf.</i>	" "	3	418	9	1, 2
"	5393	"	<b>Nerita</b> Linn. abeiensis..... <i>Whitf.</i>	" "	3	431	10	1, 2
"	5394	"	bidens..... <i>Whitf.</i>	" "	3	432	10	3-5
"	5395	"	pagoda..... <i>Whitf.</i>	" "	3	432	10	6-8
"	5396	"	<b>Neverita</b> Risso. patula..... <i>Whitf.</i>	" "	3	419	9	3, 4
"	5397	Fig'd Sp. and G.T.	<b>Odostomopsis</b> Whitfield. abeiensis ( <i>Blan.</i> ) <i>Whitf.</i>	" "	3	425	9	13, 14
Ft. P.	5398	Sub-G. & Sp. Type.	<b>Oligoptycha</b> Meek..... concinna..... <i>H. &amp; M. Meek.</i>	Mem. A. A. G. S. Terr.	5, N.S. 9	390 283	3	4a-d
M. M.	5399	Fig'd.	<b>Perissolax</b> Gabb. trivolv ( <i>Gabb.</i> )... <i>Whitf.</i> " " "	Mon. G. S. Pal. N. J.	18 2	172 172	21 21	2, 3 2, 3
Cret.	5400	Type.	<b>Philine</b> Ascanius. ( <b>Megistostoma</b> ) patula..... <i>Whitf.</i>	A. M. N. H.	3	434	10	16, 17
M. M.	5401	Gen. and Sp. Type.	<b>Pleurotrema</b> Whitfield. solariforme..... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	180 180	22 22	10, 11 10, 11
Cret.	5402	Type.	<b>Potamides</b> Brongniart. distortus..... <i>Whitf.</i>	A. M. N. H.	3	429	9	19-21
L. M.	5403	"	<b>Pyrifusus</b> Conrad. McFarlandi..... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	52 52	4 4	14, 15 14, 15
Ripl.	5404	Gen. and Sp. Type.	subdensatus..... <i>Conrad.</i> " " " <i>Whitf.</i> " " "	J. A. N. S. " " " Mon. G. S. Pal. N. J.	11, 3 11, 4 18 2	332 .... 48 48	35 47 4 4	12 2 1-3 1-3
L. M.	5405	Type.	<b>Pyropsis</b> Conrad. ?obesa..... <i>Whitf.</i> " " "	Mon. G. S. Pal. N. J.	18 2	40 40	3 3	12, 13 12, 13

LOCALITY.	REMARKS.
Gazelle Mt., Syria.	Entire, though the lip has become somewhat broken. From the brown clays near the top of Gazelle Mt.
Near Burlington, N. J.	An internal cast.
Gazelle Mt., Syria.	Imperfect as to aperture. From the brown clay near the summit of Gazelle Mt.
Gazelle Hollow, Syria.	Entire. From the cherts of Gazelle Hollow.
Timber Creek, N. J.	Decomposed and gone. See <i>Lunatia concinna</i> . " " <i>obliquata</i> . " <i>Amauropsis paludini formis</i> .
Bewerty, Syria.	A large individual from the Bewerty bed.
Near Abeih, Syria.	A small individual showing the color markings. From the Abeih sandstone at the "Olive locality."
Gazelle Mt., Syria.	Entire individual, rather small. From the cherts of the Gazelle mountain.
Near Abeih, Syria.	Entire. From the Abeih sandstone at the "Olive locality."
" "	Two indivs. From the Abeih sandstone at the "Olive locality."
" "	Two indivs. From the Abeih sandstone at the "Olive locality."
Duccûn, Syria.	Entire individual showing the color markings of the surface. From the Abeih sandstone.
Near Abeih, Syria.	A specimen with imperfect lip. From the Abeih sandstone at the "Olive locality."
.....	Defined as a subgenus under <i>Cinulia</i> .
.....	As <i>Acteon concinnus</i> .
Sage Creek, Wyo.	Subgenus described. A nearly perfect individual.
Timber Creek, N. J.	The specimen has decomposed and disappeared.
Duccûn, Syria.	A somewhat worn individual. From the Abeih sandstone.
Timber Creek, N. J.	Cast of a large individual.
Duccûn, Syria.	Two individuals and the lower volution of a third. From the Abeih sandstone.
Mullica Hill, N. J.	Internal cast.
Tippah Co., Miss.	Individual.
Mullica Hill, N. J.	Nearly entire internal cast.

## Class GASTROPODA—Continued.

Genl. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Rostellaria</b> Lamarck. <i>fusiiformis</i> H. & M. (non Picket & Roux).					
Cret.	5406 I	Type.	<b>Scalaria</b> Lamarck. <i>bewertensis</i> . . . . . <i>Whitf.</i>	A. M. N. H.	3	421	9	8, 9
"	5407 I	"	<i>novemvaricosa</i> . . . . . <i>Whitf.</i>	" "	3	422	9	7
Ripl.	5408 I	"	<b>Strepsidura</b> Swainson. <i>ripleyana</i> . . . . . <i>Conrad.</i>	J. A. N. S.	II, 4	286	46	42
Cret.	5409 I	"	<b>Strombus</b> Linn. <i>?crassiliratus</i> . . . . . <i>Whitf.</i>	A. M. N. H.	3	416	8	7
"	5410 I	"	<b>Tornatella</b> Lamarck. <i>abeihensis</i> . . . . . <i>Whitf.</i>	" "	3	437	11	8, 9
Ft. P.	5411 I	"	<b>Trachytriton</b> Meek. <i>Shumardi</i> . . . . . <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	391	3	6a-c
"	5412 I	Gen. and Sp. Type.	<i>vinculum</i> . . . . . <i>H. &amp; M.</i> <i>Meek.</i>	" "	5, N.S.	390	3	5a, b
				G. S. Terr.	9	303		
Cret.	5413 I	Type.	<b>Trochus</b> Linn. <i>striatofundus</i> . . . . . <i>Whitf.</i>	A. M. N. H.	3	433	10	9-10
"	5414 I	"	<b>Tubulostium</b> Stoliczka. <i>?rugosum</i> . . . . . <i>Whitf.</i>	" "	3	424	9	15, 16
Ripl.	5415 I	"	<b>Turbonilla</b> Leach. <i>laqueata</i> . . . . . <i>Conrad.</i>	J. A. N. S.	II, 4	288	46	36
"	5416 I	"	<i>melanopsis</i> . . . . . <i>Conrad.</i>	" "	II, 4	287	46	35
Cret.	5417 I	"	<b>Tylostoma</b> Sharpe. <i>Martini</i> . . . . . <i>Whitf.</i>	A. M. N. H.	3	439	11	6, 7
"	5418 I	"	<b>Vertagus</b> Klein. <i>coloratus</i> . . . . . <i>Whitf.</i>	" "	3	429	9	17, 18
M. M.	5419 I	Fig'd.	<b>Volutoderma</b> Gabb. <i>Abbotti</i> ( <i>Gabb.</i> ) . . . . . <i>Whitf.</i>	Mon. G. S.	18	173	21	6, 7
L. M.	5420 I	Type.	<i>ovatum</i> . . . . . <i>Whitf.</i>	Pal. N. J.	2	173	21	6, 7
				Mon. G. S.	18	91	10	3, 4
				Pal. N. J.	2	91	10	3, 4
Cret.	5421 I	"	<b>Volutomorpha</b> Gabb. <i>?orientalis</i> . . . . . <i>Whitf.</i>	A. M. N. H.	3	414	8	3, 4

## Class CEPHALOPODA.

Ft. P.	5422 I	Type.	<b>Ammonites</b> Breynius. <i>complexus</i> . . . . . <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	394	4	1 a-f
L. M.	5423 I	Fig'd.	<i>percarinatus</i> . . . . . <i>Vanuxemi</i> ( <i>Mort.</i> ) <i>Whitf.</i>	Mon. G. S.	18	253	42	3-5
			"	Pal. N. J.	2	253	42	3-5



LOCALITY.	REMARKS.
.....	See <i>Cryptorhytis cheyennensis</i> .
Bewerty, Syria.	Two specimens lacking apex and aperture. From the yellow clays above the Abeih sandstone.
Near Abeih, Syria.	Entire, except as to aperture. From the Abeih sandstone at the "Olive locality."
Tippah Co., Miss.	An individual with lip somewhat broken.
Between Shimlan and Aithath, Syria.	Internal cast. From the brown clayey limestone above the Bewerty beds.
Near Abeih, Syria.	Entire, except that the aperture is imperfect. From the Abeih sandstone at the "Olive locality."
South Dakota.	As <i>Fusus Shumardii</i> . A small individual. From the "Great Bend" of the Missouri river below Fort Pierre.
" "	As <i>Buccinum? vinculum</i> .
.....	New genus described. An individual, imperfect as to aperture. From the "Great Bend" of the Missouri river below Ft. Pierre.
Near Abeih, Syria.	A large and a small individual. From the Abeih sandstone at the "Olive locality."
Bewerty, Syria.	Lacks the aperture. From the yellowish brown clay.
Tippah Co., Miss.	Figure 35 in explanation of plate by typographical error. An individual the lip of which has become broken.
" "	As <i>Turbonilla (Chemnitzia) laqueata</i> . Fig. 36 in expl. plate by typogr. error. A nearly entire individual. As <i>Turbonilla (Chemnitzia) laqueata</i> .
Ghurzûz, Syria.	Silicified. From the Gazelle cherts.
Klelay, Syria.	Two individuals. From the Abeih sandstone.
Timber Creek, N. J.	Decomposed and gone.
Mullica Hill, N. J.	Internal cast.
Duccûn, Syria.	Entire, except that the lip in the figure was completed from another individual. From the Abeih sandstone.
.....	
South Dakota.	Nearly entire cast of a small individual retaining a little shell, and part of a larger specimen. From the "Great Bend" of the Missouri river below Ft. Pierre.
.....	See <i>Prionotropis percarinata</i> .
Burlington Co., N. J.	Septate cast of about three volutions.

## Class CEPHALOPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Ancycloceras</b> d'Orbigny. <i>Nicolletii</i> .....					
Ft. P.	5424	Fig'd.	<b>Baculites</b> Lamarck. <i>compressus</i> (Say) <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	400	5	2a, c
"	5421	"	" " "	" "	5, N.S.	400	5	2b
Fox Hills.	5425	Type.	<i>grandis</i> ..... <i>H. &amp; M.</i>	" "	5, N.S.	402	6	8, 9
							7	10
							8	1, 2
Ft. P.	5426	Fig'd.	<i>ovatus</i> (Say)..... <i>H. &amp; M.</i>	" "	5, N.S.	399	5	1a, c
"	5426	"	" " " " " "	" "	5, N.S.	399	5	1b
							6	6, 7
"	"	"	" " " " " "	" "	5, N.S.	399	6	1-5 a
L. M.	5428	"	" " " " <i>Whitf.</i>	Mon. G. S.	18	275	46	3-7
				Pal. N. J.	2	275	46	3-7
"	5427	"	<b>Belemnitella</b> d'Orbigny. <i>americana</i> (Mort.) <i>Whitf.</i>	Mon. G. S.	18	280	47	8, 9
				Pal. N. J.	2	280	47	8, 9
			<b>Hamites</b> Parkinson. <i>Mortoni</i> .....					
Ft. P.	5422	Type.	<b>Helicoceras</b> d'Orbigny. <i>Mortoni</i> ..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	396	4	3 a-c
"	5420	"	<i>Nicolleti</i> ..... <i>H. &amp; M.</i>	" "	5, N.S.	397	4	4
L. M.	5420	Fig'd.	<b>Nautilus</b> Breynius. <i>Dekayi</i> (Morton) <i>Whitf.</i>	Mon. G. S.	18	243	37	5, 6
				Pal. N. J.	2	243	37	5, 6
Ft. P.	5431	Type.	<b>Placenticeras</b> Meek. <i>Whitfieldi</i> <i>Hyatt</i> , <i>var. tuberculatum</i> <i>Hyatt</i> .	Mon. G. S.	?	?	?	?
Ft. B.	5432	"	<b>Prionotropis</b> Meek..... <i>percarinata</i> ..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	396	4	2b
Ripl.	5433	"	<b>Turrilites</b> Lamarck. <i>spinifer</i> ..... <i>Conrad</i> .	J. A. N. S.	II, 4	284		

## Subkingdom VERMES.

Ft. P.	5434	Fig'd.	<b>Planarian</b> worms, tracks of?..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	....	7	3, 4
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## Subkingdom ARTHROPODA.

Ft. P.	5435	Type.	<b>Callianassa</b> Leach. <i>Danae</i> ..... <i>H. &amp; M.</i>	Mem. A. A.	5, N.S.	379	I	1a, b
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LOCALITY.	REMARKS.
.....	See <i>Helicoceras Nicolleti</i> .
South Dakota.	Part of the chamber of habitation. From the "Great Bend" of the Missouri river below Ft. Pierre.
Sage Creek, Wyo.	Specimen shows ten chambers of a large individual.
Bear Creek, S. D. Sage Creek, Wyo.	A septate cast and part of the cast of an outer chamber. Considerable portion of the outer chamber of a large individual.
South Dakota.	Specimen showing 3 chambers and part of the chamber of habitation. From the "Great Bend" of the Missouri river below Ft. Pierre.
" "	Parts of five small individuals. From the "Great Bend" of the Missouri river below Ft. Pierre.
Mullica Hill, N. J.	Two internal casts, septate fragments.
Marlborough, N. J.	Phragmocone with lower end gone.
.....	See <i>Helicoceras Mortoni</i> .
South Dakota.	As <i>Hamites Mortoni</i> . Septate cast retaining some shell. From the "Great Bend" of the Missouri river below Ft. Pierre.
" "	As <i>Ancyloceras? Nicolletii</i> . From the "Great Bend" of the Missouri river below Ft. Pierre.
Near Mullica Hill, N. J.	Internal cast of a large individual.
Sage Creek, Wyo.	Specimen retaining much of the shell. Publication is still in MSS.
.....	Defined as a subgenus under <i>Prionocyclus</i>
Nebraska.	As <i>Ammonites percarinatus</i> . Cast and imprint of a small indiv. in soft shale. Regarded by Meek, G. S. Terr., Vol. 9, p. 455, as a synonym of <i>Ammonites Woolgari</i> Mantell. From the Missouri river, five miles below the mouth of the Vermilion river.
Eufaula, Ala.	An imbedded individual and two imbedded fragments constitute the type series.
Class ANNELIDA.	
Wyoming.	Imprints in brown (fig. 3) and gray (fig. 4) calcareous shale. From head of the Little Missouri river.
Class CRUSTACEA.	
South Dakota.	The fragment as described and figured, imbedded. From the "Great Bend" of the Missouri river below Ft. Pierre.

Subkingdom VERTEBRATA.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work	Vol.	P.	Pl.	Figs.
			<b>Mosasaurus</b> Cuvier.					
L. M.	3431 1	Type.	maximus..... <i>Cope</i> .	T. A. P. S.	14, N.S.	189		
			<i>Whitf.</i>	A. M. N. H.	13	25	4	I, 2
							5	I, 2

## Class REPTILIA.

LOCALITY.	REMARKS.
Near Middletown, N.J.	Parts of the two rami of a lower jaw and a coronoid bone, as represented on the plates.

Tertiary.			Kingdom PLANTÆ.		Subkingdom				
Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.					
				Work.	Vol.	P.	Pl.	Figs.	
Eoc.	5438 I	Type.	<b>Apeibopsis</b> Heer.						
			Gaudini..... Lesq.	Am. J. S.	II, 32	358			
			Hitchcock.	Geol. Vt.	I	231		139, 140	
	" 5439 I	"	Heeri..... Lesq.	"	"	2	715		
			Lesq.	Am. J. S.	II, 32	358			
			Hitchcock.	"	"	II, 15	98		4
	" 5440 I	Type.	"	"	"	"	99		5
			Lesq.	Geol. Vt.	I	230		131-133	
			Hitchcock.	"	"	2	715		
	" 5441 I	"	<b>Aristolochia</b> Schimper.						
			curvata..... Lesq.	Am. J. S.	II, 32	359			
			Hitchcock.	"	"	II, 15	100		II
" 5442 I	"	obscura..... Lesq.	"	"	2	715			
		Lesq.	Geol. Vt.	230		135, 136			
		Hitchcock.	"	"	2	715			
" 5443 I	Fig'd.	oeningensis (Heer)..... Lesq.	Am. J. S.	II, 32	359				
		Hitchcock.	"	"	II, 15	99		10	
		Lesq.	Geol. Vt.	I	230		134		
Eoc.	5444 I	Type.	<b>Carpinus</b> Linn.						
			grandis Lesq. (non Heer).						
	" 5445 I	"	<b>Carpolites</b> Gervais.						
			brandonensis, var.						
			elongatus Lesq.	Am. J. S.	II, 32	356			
	" 5446 I	"	Hitchcock.	"	"	II, 15	97		I
			Lesq.	Geol. Vt.	I	229		III-113	
			Hitchcock.	"	"	2	713		
	" 5447 I	"	brandonensis var.						
			obtusus Lesq.	Am. J. S.	II, 32	356			
			Hitchcock.	Geol. Vt.	I	229		114-117	
" 5448 I	"	brandoniana, var. α,							
		elongata.							
		brandoniana, var. β,							
" 5449 I	Type.	obtusus.							
		bursiformis..... Lesq.	Am. J. S.	II, 32	359				
		Hitchcock.	Geol. Vt.	I	231		146, 147		
" 5450 I	"	fissilis..... Lesq.	"	"	2	715			
		Hitchcock.	Am. J. S.	II, 32	356				
		Lesq.	"	"	II, 15	98		2, 3	
" 5451 I	"	"	"	"	"	229		118, 119	
		Grayana..... Lesq.	"	"	2	713		124	
		Hitchcock.	Am. J. S.	II, 32	356				
" 5452 I	"	irregularis..... Lesq.	"	"	2	714			
		Hitchcock.	Am. J. S.	II, 32	356				
		Lesq.	"	"	II, 15	99		6	
" 5453 I	"	"	"	"	"	230		120, 121, 123, 125, 128	
		Lescurii..... C. H. H.	P. S. N. H.	I	95		I, 5		
		venosus (Sternb.)? Lesq.	Am. J. S.	II, 32	361				
" 5454 I	Fig'd.	Hitchcock.	"	"	II, 15	101		20	
		Lesq.	Geol. Vt.	I	231		157-160		
		Hitchcock.	"	"	2	717			

## PHANEROGAMIA.

## Class ANGIOSPERMÆ.

LOCALITY.	REMARKS.
..... Brandon, Vt.	Without name. Two specimens.
..... ..... Brandon, Vt.	Without name. Without name. Without name. Three specimens.
..... ..... Brandon, Vt.	Without name. Without name. Two specimens.
..... Brandon, Vt.	Without name. Three specimens,
..... ..... Brandon, Vt.	Without name. Without name. The specimen described and figured.
.....	See <i>Drupa rhabdosperma</i> .
..... ..... Brandon, Vt.	As <i>Carpolithes brandoniana</i> , var. $\alpha$ , <i>elongata</i> . Without name. Without name. Three specimens.
..... ..... Brandon, Vt.	As <i>Carpolithes brandoniana</i> var. $\beta$ , <i>obtusa</i> . Without name. Four specimens.
.....	See <i>Carpolithes brandonensis</i> , var. <i>elongatus</i> .
.....	" " " var. <i>obtusus</i> .
..... Brandon, Vt.	Without name. Two specimens.
..... ..... Brandon, Vt.	Without name. Without name. Without name. Three specimens referred to these figures by Prof. E. Hitchcock.
..... Brandon, Vt.	Without name. A single specimen is marked as the type.
..... ..... Brandon, Vt. " " "	Without name. Without name. Five specimens. A single specimen.
..... ..... Brandon, Vt.	Without name. Without name. Two imbedded nuts and two fragments.

## Class ANGIOSPERMÆ—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Eoc.	5451 1	Type.	<b>Carya</b> Nuttall.					
			vermontana.....Lesq. Hitchcock.	Am. J. S. Geol. Vt.	II, 32 I	357 230		130
"	5452 1	"	verrucosa.....Lesq. Hitchcock.	Am. J. S. Geol. Vt.	II, 32 I	357 230		129
			Lesq.	" "	2	714		
"	5453 1	"	<b>Cinnamomum</b> Linn.					
			novæ-angliæ.....Lesq. Hitchcock.	Am. J. S. " "	II, 32 II, 15	360 100		16
			Lesq.	Geol. Vt. " "	I 2	231 716		148
"	5454 1	"	<b>Drupa</b> Göppert.					
			rhabdosperma.....Lesq. Hitchcock.	Am. J. S. " "	II, 32 II, 15	360 100		18, 19
"	"	Fig'd.	Lesq.	Geol. Vt.	I	231		150
			" "	" "	2	716		
"	"	"	Hitchcock.	Am. J. S.	II, 32	360		
			Lesq.	" "	II, 15	100		15
"	5455 1	Type.	<b>Fagus</b> Linn.					
			Hitchcocki.....Lesq. Hitchcock.	Am. J. S. " "	II, 32 II, 15	357 100		12
"	"	"	Lesq.	Geol. Vt.	I	230		126, 127
			" "	" "	2	714		
"	5456 1	"	<b>Illicium</b> Linn.					
			lignitum.....Lesq. Hitchcock.	Am. J. S. " "	II, 32 II, 15	360 100		17
"	"	"	Lesq.	Geol. Vt.	I	231		149
			" "	" "	2	716		
"	5457 1	Fig'd.	<b>Leguminosites</b> Bowerbank.					
			pisiformis (Heer)? Lesq. Hitchcock.	Am. J. S. Geol. Vt.	II, 32 I	361 231		152
"	"	"	Lesq.	" "	2	716		
			<b>Nyssa</b> Linn.					
"	5458 1	Type.	complanata.....Lesq. Hitchcock.	Am. J. S. " "	II, 32 II, 15	361 100		13
			Lesq.	Geol. Vt.	I	231		153
"	5459 1	"	lævigata.....Lesq. Hitchcock.	Am. J. S. Geol. Vt.	II, 32 I	361 231		156
			Lesq.	" "	2	717		
"	5460 1	"	microcarpa.....Lesq. Hitchcock.	Am. J. S. " "	II, 32 II, 15	361 100		14
			Lesq.	Geol. Vt.	I	231		154
"	5460 1	Fig'd.	" ? Hitchcock.	Am. J. S. Geol. Vt.	II, 32 I	361 231		155
			Lesq.	" "	2	717		
"	5461 1	Type.	<b>Sapindus</b> Linn.					
			americanus.....Lesq. Hitchcock.	Am. J. S. " "	II, 32 II, 15	359 99		7, 8
"	"	"	Lesq.	Geol. Vt.	I	231		142-145
			" "	" "	2	715		



LOCALITY.	REMARKS.
..... Brandon, Vt.	Without name. The specimen described.
..... Brandon, Vt.	Without name. A single specimen.
..... ..... Brandon, Vt.	Without name. Without name. Two specimens, one of which was figured.
..... ..... Brandon, Vt.	Without name. Without name. Two specimens. As <i>Carpinus grandis</i> Heer?
..... ..... Brandon, Vt.	Without name. Without name. As <i>Carpinus grandis</i> Heer? A single specimen.
..... ..... Brandon, Vt.	Without name. Without name. Two specimens.
..... ..... Brandon, Vt.	Without name. Without name. A single specimen.
..... ..... Brandon, Vt.	Without name. Without name. Two specimens.
..... ..... Brandon, Vt.	Without name. Without name. A single specimen.
..... ..... Brandon, Vt.	Without name. Without name. Three specimens.
..... ..... Brandon, Vt.	Without name. Without name. A single specimen.
..... ..... Brandon, Vt.	Without name. Without name. A single specimen.
..... ..... Brandon, Vt.	Without name. Without name. Two whole and two half seeds.

		Kingdom ANIMALIA.			Subkingdom				
Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.					
				Work.	Vol.	P.	Pl.	Figs.	
			<b>Astræa</b> Gmelin.						
			<i>bella</i> .....						
			<b>Astrangia</b> Edw. & Haime.						
Mioc.	<u>5468</u> I	Fig'd.	<i>bella</i> (Con.)... T. & H.	P. F. S. C.	.....	I	I	I, Ia	
Subkingdom ECHINODERMATA.									
Mioc.	<u>5468</u> I	Fig'd.	<b>Amphidetus</b> Agassiz. <i>orthonotus</i> (Con.) T. & H.	P. F. S. C.	.....	.....	2	I-1c	
"	<u>5464</u> I	"	<b>Encope</b> Agassiz. <i>macrophora</i> (Rav.) T. & H.	" "	.....	.....	2	I	3-3b
"	<u>5465</u> I	"	<b>Mellita</b> Klcin. <i>caroliniana</i> (Rav.) T. & H.	" "	.....	.....	3	I	4-4b
MOLLUSCOIDEA.									
Mioc.	<u>5466</u> I	Type.	<b>Cellepora</b> Fabricius. <i>depressa</i> ..... T. & H.	P. F. S. C.	.....	.....	14	4	9
"	<u>5467</u> I	"	<i>radiata</i> ..... T. & H.	" "	.....	.....	13	4	8
"	<u>5468</u> I	"	<i>tessellata</i> ..... T. & H.	" "	.....	.....	13	4	7
"	<u>5469</u> I	Fig'd.	<b>Discoporella</b> Gray. <i>denticulata</i> (Con.) T. & H.	" "	.....	.....	11	4	I-5
"	<u>5470</u> I	"	<b>Heteropora</b> de Blainville. <i>tortilis</i> (Lons.).. T. & H.	" "	.....	.....	16	4	17, 18
			<b>Lunilites</b> Lamarck. <i>denticulata</i> .....						
Mioc.	<u>5471</u> I	Type.	<b>Membranipora</b> de Blainv. <i>lacinia</i> ..... T. & H.	P. F. S. C.	.....	.....	14	4	10
"	<u>5472</u> I	Fig'd.	<b>Reptocelleporaria</b> d'Orb. <i>informata</i> (Lons.) T. & H.	" "	.....	.....	15	4	11, 12
"	<u>5473</u> I	"	<i>similis</i> (Lons.).. T. & H.	" "	.....	.....	16	4	13, 14

## CŒLELENTERATA.

## Class ACTINOZOA.

LOCALITY.	REMARKS.
.....	See <i>Astrangia bella</i> .
Darlington Dist., S. C.	As <i>Astræa bella</i> . A small colony on a fragment of a pecten.

## Class ECHINOIDEA.

James River, Va.	Practically entire.
The Grove, Cooper River, S. C.	An entire individual.
Goose Creek, Cooper River, S. C.	Entire individual.

## Class POLYZOA.

Smith's, Goose Creek, S. C.	A small colony on a fragment of <i>Encope macrophora</i> with the types of <i>Cellepora radiata</i> and <i>Membranipora lacinia</i> , figs. 8 and 10, same plate.
Smith's, Goose Creek, S. C.	A small colony on a fragment of an <i>Encope macrophora</i> with the types of <i>Cellepora depressa</i> and <i>Membranipora lacinia</i> , figs. 9 and 10, same plate.
Giles's Bluff, Pee Dee River, S. C.	A small colony on a bit of shell.
Darlington Dist., S. C.	As <i>Lunulites denticulata</i> . Two small colonies referred to these figures.
Virginia.	A branching fragment.
.....	See <i>Discoporella denticulata</i> .
Smith's, Goose Creek, S. C.	A small colony on a fragment of <i>Encope macrophora</i> bearing the types of <i>Cellepora depressa</i> and <i>Cellepora radiata</i> , figs. 8 and 9, same plate.
Darlington Dist., S. C.	A small botryoidal mass.
" "	A reniform mass.

## Class BRACHIOPODA.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Discina</b> Lamarck. <i>lugubris</i> .....					
Mioc.	5474 1	Fig'd.	<b>Discinisca</b> Dall. <i>lugubris</i> (Con.) T. & H.	P. F. S. C.		17	5	1
"	5474 2	"	" " <i>Whitf.</i>	Mon. G. S.	24	23	1	1-3, 7
"	5475 1	"	<i>multilineata</i> (Con.) T. & H.	P. F. S. C.		18	5	2
			<b>Orbicula</b> Cuvier. <i>lugubris</i> .....					
			<i>multilineata</i> .....					

## Subkingdom MOLLUSCA.

Mioc.	5476 1	Fig'd.	<b>Amussium</b> Klein. <i>Mortoni</i> (Rav.) T. & H.	P. F. S. C.		27	9 10	1, 2 1, 2
Plioc.	5477 1	"	<b>Anomia</b> (Linn) Müller. <i>ephippium</i> T. & H. (non Linn.) <i>simplex</i> (d'Orb.) T. & H.	P. F. S. C.		18	5	4, 5
			<b>Arca</b> (Linn.) Lamarck. <i>centenaria</i> .....					
			<i>hians</i> T. & H. (non Brown)					
			<i>lienosa</i> .....					
			<i>scalaris</i> .....					
Mioc.	5478 1	Type.	<b>Asaphis</b> Modeer. <i>centenaria</i> (Con.) T. & H.	P. F. S. C.		91	22	8
Eoc.	5479 1	"	<b>Astarte</b> Sowerby. <i>castanella</i> .....	<i>Whitf.</i> Mon. G. S.	9	231	30	1, 2
Plioc.	5480 1	"	<i>concentrica</i> (Con.) T. & H.	Pal. N. J.	1	231	30	1, 2
Eoc.	5481 1	"	<i>planimarginata</i> ... <i>Whitf.</i>	P. F. S. C.		71	20	3
			"	Mon. G. S.	9	232	30	3, 4
			"	Pal. N. J.	1	232	30	3, 4
			<b>Cardita</b> Bruguière. <i>arata</i> .....					
Eoc.	5482 1	Type.	<i>Brittoni</i> .....	<i>Whitf.</i> Mon. G. S.	9	233	30	11, 12
			"	Pal. N. J.	1	233	30	11, 12
			<i>granulata</i> .....					
Mioc.	5483 1	Fig'd.	<b>Carditamera</b> Conrad. <i>arata</i> (Con.) ... T. & H.	P. F. S. C.		65	19	4, 5
Eoc.	5484 1	Type.	<b>Caryatis</b> Römer. <i>ovalis</i> .....	<i>Whitf.</i> Mon. G. S.	9	237	30	15, 16
			"	Pal. N. J.	1	237	30	15, 16
			<b>Chama</b> Linn. <i>arcinella</i> .....					
Plioc.	5485 1	Fig'd.	<i>congregata</i> (Con.) T. & H.	P. F. S. C.		23	7	7, 8

LOCALITY.	REMARKS.
.....	See <i>Discinisca lugubris</i> .
Davis's, Pee Dee River, S. C. Cumberland Co., N. J. Davis's, Pee Dee River, S. C.	As <i>Orbicula lugubris</i> . The dorsal valve of a large individual, somewhat broken along the margin. As <i>Discina lugubris</i> . A dorsal valve. As <i>Orbicula multilineata</i> . An imperfect upper valve referred to this figure. Probably a young <i>Discinisca lugubris</i> .
.....	See <i>Discinisca lugubris</i> .
.....	" " <i>multilineata</i> .
Class LAMELLIBRANCHIATA.	
..... Smith's, Goose Creek, S. C.	As <i>Pecten Mortoni</i> . " " " Two opposite valves of different individuals, and an imperfect specimen showing the conjoined valves of an individual.
..... Waccamaw, S. C.	See <i>Anomia simplex</i> . As <i>Anomia ephippium</i> Linn. A single valve.
..... ..... .....	See <i>Striarca centenaria</i> . " <i>Granoarca propatula</i> . " <i>Scapharca lienosa</i> . " <i>Cunearca scalaris</i> .
Pee Dee River, S. C.	As type of <i>Psammocola pliocena</i> T. & H. A right valve. Very closely allied to <i>Asaphis deflorata</i> Linn. of the Bahamas and West Indies.
Shark River, N. J. Waccamaw, S. C.	Internal casts of two opposite valves. Two opposite valves, apparently of the same individual.
Shark River, N. J.	Internal casts of two left valves.
.....	See <i>Carditamera arata</i> .
Shark River, N. J. .....	Cast of a pair of valves, slightly distorted. See <i>Venericardia granulata</i> .
Darlington Dist., S. C.	As <i>Cardita arata</i> . The separated valves of an individual.
Manisquam Riv., N. J.	Casts of two opposite valves.
..... Waccamaw, S. C.	See <i>Echinochama arcinella</i> . An entire individual.

## Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Crassatella</b> Lamarck. <i>Gibbesi</i> .....					
Plioc.	5486 1	Type.	<b>Crassatellites</b> Krüger. <i>Gibbesi</i> ..... T. & H.	P. F. S. C.		74	20	9, 10
Mioc.	5487 1	Fig'd.	<b>Cunearca</b> Dall. <i>scalaris</i> (Con.) . . T. & H.	P. F. S. C.		43	16	1, 2 (pars)
Plioc.	5488 1	Type.	<b>Divaricella</b> von Martens. Conradi ..... d'Orb. T. & H.	Pr. de Pal. P. F. S. C.	3	117	18	10, 11
"	5489 1	Fig'd.	<b>Echinochama</b> Fischer. <i>arcinella</i> (Linn.) T. & H.	" "		22	7	4, 6
Mioc.	5490 1	"	<b>Ensis</b> Schumacher. <i>directus</i> (Con.) . . T. & H.	" "		101	24	3
"	5491 1	Type.	<b>Euvola</b> Dall. <i>Holmesi</i> ..... Dall. T. & H.	T. W. I. S. P. F. S. C.	3	721	8	5, 6
"	5492 1	Fig'd.	<b>Glycymeris</b> Da Costa. <i>americana</i> (DeFr.) T. & H.	" "		48	17	3
Plioc.	5493 2	"	" " "	" "		49	17	4
Mioc.	5494 3	"	" " "	" "		51	17	6c
Plioc. Mioc.	5495 1	Type.	<i>laevis</i> ..... T. & H. <i>subovata</i> Say, var. Tuomeyi Dall. T. & H.	" " T. W. I. S. P. F. S. C.		50	17	5
"	5496 1	"	<b>Granoarca</b> Conrad. <i>propratula</i> (Con.) T. & H.	" "		34	14	4, 5
"	5497 1	Fig'd.	<b>Hemimactra</b> Swainson. <i>duplinensis</i> (Dall) T. & H.	" "		97	23	8
			<i>Janira</i> Schumacher. <i>affinis</i> T. & H. (non Risso vel Reuss). <i>hemicyclica</i> .....					
Mioc.	5498 1	Fig'd.	<b>Leda</b> Schumacher. <i>acuta</i> Con. .... T. & H.	P. F. S. C.		53	17	10-12
			<b>Lucina</b> Bruguière. Conradi ..... <i>divaricata</i> T. & H. (non Linn.) .....					
Mioc.	5499 1	Fig'd.	<b>Lyropecten</b> Conrad. <i>Jeffersonius</i> , var. <i>septenarius</i> (Say) T. & H.	P. F. S. C.		31	13	1-4

LOCALITY.	REMARKS.
.....	See <i>Crassatellites Gibbesi</i> .
Waccamaw, S. C.	As <i>Crassatella Gibbesi</i> . A large individual and a small left valve.
.....	Defined as a subgenus of <i>Scapharca</i> .
Darlington Dist., S. C.	As <i>Arca scalaris</i> . A left valve.
.....	As <i>Lucina Conradi</i> .
Waccamaw, S. C.	" " <i>divaricata</i> Linn. Two opposite valves.
Royal Landing, Waccamaw, S. C.	As <i>Chama arcinella</i> . An entire individual.
Smith's, Goose Creek, S. C.	As <i>Solen ensis</i> Linn. A left valve. May have come from Pee Dee.
.....	Defined as a section of <i>Pecten</i> .
Smith's, Goose Creek, S. C.	As type of <i>Janira affinis</i> . A single right valve. Tuomey & Holmes's name was found by Dall to have been preoccupied.
Sumter Dist., S. C.	As <i>Pectunculus passus</i> Con. The separated valves of an individual.
Waccamaw, S. C.	As <i>Pectunculus quinquerugatus</i> Con. Two opposite valves from different individuals.
Goose Creek, S. C.	As type of <i>Pectunculus transversus</i> . Internal cast of a small valve.
Waccamaw, S. C.	A right valve, the rear portion of which has been lost.
Darlington, S. C.	As <i>Pectunculus subovatus</i> Say. The two separated valves of an individual.
Sumter Dist., S. C.	As type of <i>Arca hians</i> . Two individuals, one of which preserves its filling of marl.
Black River or Smith's, Goose Creek, S. C.	As <i>Mactra similis</i> Say. An entire individual.
.....	Synonym of <i>Pecten</i> .
.....	See <i>Euviola Holmesii</i> .
.....	See <i>Pecten hemicycliticus</i> .
Darlington Dist., S. C.	As <i>Nucula acuta</i> . A left valve.
.....	See <i>Divaricella Conradi</i> .
.....	" " "
.....	Considered by Dall to be a section of <i>Pecten</i> .
Near Giles's Bluff, Pee Dee River, S. C.	As <i>Pecten septenarius</i> . A very perfect right valve, the ears of which have been broken a little since the figures were made, unless those parts were restored in the figures.

## Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Mactra</b> Linn. <i>oblongata</i> ..... <i>similis</i> T. & H. (non Say).....					
Mioc.	5428 I	Fig'd.	<b>Mactrotoma</b> Dall. <i>fragilis</i> ( <i>Gmelin</i> ) T. & H.	P. F. S. C.		96	23	7
"	5500 I	Fig'd.	<b>Margaritaria</b> Conrad. <i>abrupta</i> ( <i>Con.</i> )... T. & H.	" "		101	24	2
"	5501 I	Type.	<b>Modiolus</b> Lamarck. <i>inflatus</i> ..... T. & H.	P. F. S. C.		33	14	3
"	5502 I	"	<b>Mytilus</b> Linn. <i>Conradianus</i> ( <i>d'Orb.</i> ) T. & H. <i>incrassatus</i> Con. (non Deshayes). <i>inflatus</i> .....	" "		32	14	1, 2
Eoc.	5503 I	Type.	<b>Næra</b> Gray <i>æquivalvis</i> ..... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	9 1	240 240	30 30	20, 21 20, 21
Mioc.	5504 I	"	<b>Nodipecten</b> Dall. <i>?pedeensis</i> ... T. & H.	P. F. S. C.		30	12	1-5
Mioc.	5505 I	Fig'd.	<b>Nucula</b> Lamarck. <i>acuta</i> ..... <i>proxima</i> ( <i>Say</i> ) T. & H.	P. F. S. C.		53	17	7-9
Eoc.	5506 I	"	<b>Nuculana</b> Link. <i>albaria</i> ( <i>Con.</i> )... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	9 1	228 228	29 29	15, 16 15, 16
Mioc.	5507 I	"	<b>Ostrea</b> Linn. <i>compressirostra</i> ( <i>Say</i> ) T. & H.	P. F. S. C.		21	6	1-3
Plioc.	5508 I	Fig'd.	<i>Raveneliana</i> ..... <i>virginiana</i> ..... <i>virginica</i> ( <i>Gmelin</i> ) T. & H.	P. F. S. C.		20	5	6-9
Mioc.	5509 I	Fig'd.	<b>Pecten</b> Müller. <i>eboreus</i> ..... <i>hemicyclicus</i> ( <i>Rav.</i> ) T. & H.	P. F. S. C.		25	8	1-4
Eoc.	5510 I	Type.	<i>Mortoni</i> ..... <i>pedeensis</i> ..... <i>Rigbyi</i> ..... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	9 1	226 226	29 29	6 6
			<i>septenarius</i> ..... <b>Pectunculus</b> Lamarck. <i>levis</i> ..... <i>passus</i> ..... <i>quinquerugatus</i> .....					



LOCALITY.	REMARKS.
..... .....	See <i>Mactrotoma fragilis</i> . See <i>Hemimactra duplinensis</i> .
Pee Dee, S. C.	Defined as a subgenus of <i>Mactra</i> . As <i>Mactra oblongata</i> Say. A large, entire individual.
Smith's, Goose Creek, S. C.	As <i>Pholadomya abrupta</i> . Individual preserving right valve and middle portion of the left.
Giles's Bluff, Pee Dee River, S. C.	As <i>Mytilus inflatus</i> . An imperfect left valve, imbedded.
Darlington Dist., S. C.	As <i>Mytilus incrassatus</i> Con. An imperfect left valve. See <i>Mytilus Conradianus</i> . See <i>Modiolus inflatus</i> .
Shark River, N. J.	Nearly entire cast of a single valve, imbedded, and of a larger, less perfect individual. Defined as a section of <i>Pecten</i> .
Darlington Dist., S. C.	As <i>Pecten peedeensis</i> . A pair of conjoined valves.
Darlington Dist., S. C.	See <i>Leda acuta</i> . Two opposite, fragmentary valves.
Shark River, N. J.	Sharp internal casts of two opposite valves.
Smith's, Goose Creek, S. C.	As type of <i>Ostrea Raveneliana</i> . An individual which has lost half of the lower valve. See <i>Ostrea compressirostra</i> . See <i>Ostrea virginica</i> .
Waccamaw, S. C.	As <i>Ostrea virginiana</i> Lister. Three valves belonging to different individuals and an entire individual (fig. 9). See <i>Plagiectenium eboreum</i> .
The Grove, Cooper River, S. C.	As <i>Janira hemicyclica</i> . The individual which was referred to these figures by Prof. Holmes. See <i>Amussium Mortoni</i> . " <i>Nodipecten ? peedeensis</i> .
Farmingdale, N. J.	Very sharp external imprint of a right valve. See <i>Lyropecten Jeffersonius</i> , var. <i>septenarius</i> .
.....	Synonym of <i>Glycymeris</i> . See <i>Glycymeris lewis</i> . " " <i>americana</i> . " " "

## Class I. AMPELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<i>Pectunculus</i> Lamarck— <i>Cont. subovatus</i> T. & H. (non Say).					
			<i>transversus</i> T. & H. (non Deshayes)					
			<b>Pholadomya</b> Sowerby.					
			<i>abrupta</i> .....					
			<b>Pholas</b> Linn.					
			<i>Memmingeri</i> .....					
			<i>oblongata</i> T. & H. (non Say).					
Mioc.	5511	Type.	<b>Placunanomia</b> Broderip.					
			<i>plicata</i> ..... T. & H.	P. F. S. C.		19	6	4-6
Plioc.	5512	Fig'd.	<b>Plagioctenium</b> Dall.					
			<i>eboreum</i> (Con.) T. & H.	P. F. S. C.		28	11	1-5
Mioc.	5513	"	<b>Plicatula</b> Lamarck.					
			<i>marginata</i> (Say) T. & H.	" "		24	7	11-14
Eoc.	5514	"	<b>Protocardia</b> Beyrich.					
			<i>curta</i> (Con.)..... <i>Whitf.</i>	Mon. G. S.	9	236	30	5-7
			"	Pal. N. J.	1	236	30	5-7
			<b>Psammocola</b> de Blainville.					
			<i>pliocena</i> .....					
Mioc.	5515	Fig'd.	<b>Scapharca</b> Gray.					
			<i>lienesa</i> (Say)... T. & H.	P. F. S. C.		40	15	2, 3
			<b>Solen</b> Linn.					
			<i>ensis</i> T. & H. (non Linn.)					
Mioc.	5516	Fig'd.	<b>Striarca</b> Conrad.					
			<i>centenaria</i> (Say) T. & H.	P. F. S. C.		37	14	11, 12
"	5517	"	<b>Strigilla</b> Turton.					
			<i>flexuosa</i> (Say)... T. & H.	" "		90	22	7 7b
			<b>Tellina</b> Linn.					
			<i>flexuosa</i> .....					
Mioc.	5518	Type.	<b>Thovana</b> Gray.					
" ?	5519	Fig'd.	<i>Memmingeri</i> ... T. & H.	P. F. S. C.		104	24	6
			<i>producta</i> (Con.) T. & H.	" "		103	24	5
Plioc.	5520	"	<b>Venericardia</b> Lamarck.					
			<i>granulata</i> (Say) T. & H.	" "		66	19	6
Mioc.	5521	"	<b>Venus</b> Linn.					
			<i>concentrica</i> (Gmelin)					
			T. & H.	" "		82	21	7
Plioc.	5522	"	<i>latilirata</i> (Con.) T. & H.	" "		85	21	12 (pars)
Mioc.	5523	"	<i>tridacnoides</i> (Lamarck)	" "				
			T. & H.	" "		85	22	1

LOCALITY.	REMARKS.
.....	See <i>Glycymeris subovata</i> , var. <i>Tuomeyi</i> .
.....	" " <i>americana</i> .
.....	" <i>Margaritaria abrupta</i> .
.....	" <i>Thovana Memmingeri</i> .
.....	" " <i>producta</i> .
Smith's, Goose Creek, S. C.	An individual, the beak of which has been broken so as to show the cardinal teeth. The muscular impression in figure 5 seems to have been supplied from some other specimen.
..... Waccamaw, S. C.	Defined as a section of <i>Pecten</i> . As <i>Pecten eboreus</i> . Both valves of an individual, one of which has lost its posterior ear.
Darlington Dist., S. C.	An entire individual with separable valves.
Farmingdale, N. J.	Cast of a right valve and of a pair of partly expanded valves.
.....	See <i>Asaphis centenaria</i> .
..... Waccamaw, S. C.	Subgenus under <i>Arca</i> . As <i>Arca lienosa</i> . Both valves of an individual. From Tilley's landing.
.....	See <i>Ensis directus</i> .
..... Sumter Dist., S. C.	Section of <i>Barbatia</i> , a subgenus under <i>Arca</i> . As <i>Arca centenaria</i> . Two opposite valves from different individuals.
Pee Dee, S. C.	As <i>Tellina flexuosa</i> . Two opposite valves of different sizes.
.....	See <i>Strigilla flexuosa</i> .
..... Sumter Dist., S. C.	Subgenus under <i>Pholas</i> . As <i>Pholas Memmingeri</i> . A somewhat fractured left valve.
Pee Dee, S. C.	As <i>Pholas oblongata</i> Say. A left valve. May have come from Waccamaw or Sumter, S. C.
Waccamaw, S. C.	As <i>Cardita granulata</i> . Two opposite valves.
..... Sumter Dist., S. C.	An individual which has lost a portion of the left valve.
Waccamaw, S. C.	A right valve.
Darlington Dist., S. C.	A weathered right valve.

## Class GASTROPODA.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Eoc.	5524 1	Type.	<b>Actæon</b> Montfort. <i>bicinctus</i> ..... <i>Heilprin.</i>	P. A. N. S.	30	212	13	6
			<b>Apollon</b> Montfort. <i>caudata</i> .....	.....	.....	.....	.....	.....
			<b>Architectonica</b> Bolten..... <i>annosa</i> .....	.....	.....	.....	.....	.....
Mioc.	5525 1	Fig'd.	<b>Aurinia</b> H. & A. Adams... <i>mutabilis</i> (Con.) <i>T. &amp; H.</i>	P. F. S. C.	.....	128	27	5
			<i>obtusa</i> ( <i>Emmons</i> ) <i>T. &amp; H.</i>	" "	.....	128	27	6
"	5527 1	Gen. and Sp. Type.	<b>Buccinofusus</b> Conrad. <i>parilis</i> ..... <i>Conrad.</i>	F. S. T. F.	.....	18	4	2
			" "	Med. Tert.	.....	85	49	5
"	5527 1	Gen. and Sp. Type.	" "	Am. J. C.	.....	3	264	.....
			<b>Buccinum</b> Linn. <i>vibex</i> .....	.....	.....	.....	.....	.....
			<b>Busycon</b> Bolten..... <i>canaliculatum</i> .....	.....	.....	.....	.....	.....
			<i>carica</i> .....	.....	.....	.....	.....	.....
Eoc.	5528 1	Fig'd.	<b>Calyptrophorus</b> Conrad. <i>velatus</i> (Con.).... <i>Whitf.</i>	Mon. G. S.	18	222	33	26, 27
			" "	Pal. N. J.	2	222	33	26, 27
Mioc.	5529 1	"	<b>Cancellaria</b> Lamarck. <i>reticulata</i> ( <i>Linn.</i> ) <i>T. &amp; H.</i>	P. F. S. C.	.....	142	28	16
Eoc.	5530 1	"	<b>Caricella</b> Conrad. <i>pyruloides</i> (Con.) <i>Whitf.</i>	Mon. G. S.	18	205	29	I, 2, 5
			" "	Pal. N. J.	2	205	29	I, 2, 5
"	5530 2	"	" "	Mon. G. S.	18	205	29	6
			" "	Pal. N. J.	2	205	29	6
"	5531 1	"	<b>Cassidaria</b> Lamarck. <i>carinata</i> ( <i>Lam.</i> )? <i>Whitf.</i>	Mon. G. S.	18	224	34	19, 20
			" "	Pal. N. J.	2	224	34	19, 20
"	5532 1	Type.	<b>Columbella</b> Lamarck. <i>turricula</i> ..... <i>Whitf.</i>	Am. J. C.	1	261	27	1
			<b>Colus</b> Humphrey..... <i>quadricostata</i> .....	.....	.....	.....	.....	.....
Mioc.	5533 1	Fig'd.	<b>Conus</b> Linn. <i>adversarius</i> (Con.) <i>T. &amp; H.</i>	P. F. S. C.	.....	131	27	14
			<i>pulcherrimus</i> ..... <i>Heilprin.</i>	P. A. N. S.	30	213	13	8
Mioc.	5534 1	Fig'd.	<b>Crepidula</b> Lamarck. <i>aculeata</i> <i>Gmelin, var.</i>	P. F. S. C.	.....	III	25	10
			<i>costata</i> ( <i>Mort.</i> ) <i>T. &amp; H.</i>	.....	.....	.....	.....	.....
"	5534 1	Fig'd.	<b>Crypta</b> Humphrey..... <i>spinosa</i> <i>T. &amp; H.</i> (non Con.)	.....	.....	.....	.....	.....
			<b>Cypræa</b> Linn. <i>carolinensis</i> (Con.) <i>T. &amp; H.</i>	P. F. S. C.	.....	126	27	I, 2

LOCALITY.	REMARKS.
Claiborne, Ala.	As <i>Tornatella bicincta</i> . The individual described.
.....	See <i>Eupleura caudata</i> .
.....	Synonym of <i>Solarium</i> .
.....	See <i>Solarium annosum</i> .
Pee Dee, S. C.	Subgenus of <i>Scaphella</i> .
" " " "	As <i>Voluta mutabilis</i> . A small individual.
" " " "	" " " " var. An individual of average size.
.....	As <i>Fusus parilis</i> .
St. Mary's River, Md.	An individual which has lost part of the lip.
.....	See <i>Nassa vibex</i> .
.....	Synonym of <i>Fulgur</i> .
.....	See <i>Fulgur Canaliculatum</i> .
.....	" " " <i>carica</i> .
.....	
Claiborne, Ala.	Nearly entire.
Pee Dee, S. C.	A small individual.
Shark River, N. J.	Two compressed internal casts.
Claiborne, Ala.	Individual with edge of lip somewhat imperfect.
Shark River, N. J.	A cast.
Claiborne, Ala.	An individual of average size.
.....	Synonym of <i>Fusus</i> .
.....	See <i>Ecphora quadricostata</i> .
Pee Dee, S. G.	A rather small individual.
Claiborne, Ala.	Individual, imperfect at lower extremity.
Pee Dee, S. C.	As <i>Crypta spinosa</i> Con. A large individual which has lost much of its lip.
.....	Synonym of <i>Crepidula</i> .
.....	See <i>Crepidula aculeata</i> , var. <i>costata</i> .
Pee Dee or Goose Creek, S. C.	Entire individual.

## Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Eoc.	5536 1	Fig'd.	<b>Delphinula</b> Lamarck. <i>elegans</i> (Lea)... Heilprin. <i>solaroides</i> .....	P. A. N. S.	30	211	13	2
Mioc.	5537 1	Fig'd.	<b>Drillia</b> Gray. <i>lunata</i> (H. C. Lea) T. & H.	P. F. S. C.	.....	132	27	16
"	5538 1	"	<b>Ecphora</b> Conrad. <i>quadricostata</i> (Say) T. & H.	" "	.....	149	30	4
"	5539 1	"	<b>Eupleura</b> H. & A. Adams. <i>caudata</i> (Say)... T. & H.	" "	.....	142	28	15
Eoc.	5540 1	Type.	<b>Fasciolaria</b> Lamarck. <i>hercules</i> ..... Whitf.	Mon. G. S. Pal. N. J.	18 2	202 202	26 26	10, 11 10, 11
"	.....	"	" .....	Mon. G. S. Pal. N. J.	18 2	202 202	27 27	1, 2 1, 2
"	5541 1	"	<i>propinqua</i> ..... Whitf.	Mon. G. S. Pal. N. J.	18 2	203 203	27 27	3 3
"	5542 1	"	<i>Samsoni</i> ..... Whitf.	Mon. G. S. Pal. N. J.	18 2	204 204	27 27	4 4
Plioc.	5543 1	Fig'd.	<b>Fulgur</b> Montfort. <i>canaliculatum</i> (L.) T. & H.	P. F. S. C.	.....	146	29	2
"	5544 1	"	<i>carica</i> (Linn.).. T. & H.	" "	.....	145	29	1
Eoc.	5545 1	Type.	<b>Fusus</b> Lamarck. <i>angularis</i> ..... Whitf. <i>parilis</i> .....	Mon. G. S. Pal. N. J.	18 2	194 194	24 24	15, 16 15, 16
Mioc.	5546 1	Fig'd.	<b>Galeodea</b> Link. <i>Hodgei</i> (Con.).. T. & H.	P. F. S. C.	.....	138	28	10
Eoc.	5547 1	Type.	<b>Helix</b> Linn. <i>Leidyi</i> ..... H. & M.	Mem. A. M.	5, N.S.	394	3	12a, b
"	5548 1	"	<b>Leptomaria</b> Deslongchamps <i>pergranulosa</i> ..... Whitf.	Mon. G. S. Pal. N. J.	18 2	234 234	36 36	3-6 3-6
"	5549 2	Fig'd.	? <i>perlata</i> (Con.)... Whitf.	Mon. G. S. Pal. N. J.	18 2	232 232	35 35	1, 2 1, 2
Plioc.	5550 1	"	<b>Littorina</b> de Férussac. <i>irrorata</i> (Say)... T. & H.	P. F. S. C.	.....	119	26	5
Eoc.	5551 1	Type.	<b>Melania</b> Lamarck. <i>claibornensis</i> ... Heilprin.	P. A. N. S.	30	214	13	11
"	5552 1	"	<b>Mesostoma</b> Deshayes. <i>rugosum</i> ..... Heilprin.	" "	30	215	13	13
Mioc.	5553 1	Fig'd.	<b>Mitra</b> Lamarck. <i>carolinensis</i> (Con.) T. & H.	P. F. S. C.	.....	129	27	9

LOCALITY.	REMARKS.
Claiborne, Ala.	As type of <i>Delphinula solaroides</i> . Entire. See <i>Delphinula elegans</i> .
Darlington, S. C.	As <i>Turris lunatum</i> . The lip has been somewhat broken.
Pee Dee, S. C.	" <i>Colus quadricostatus</i> . Entire individual.
Darlington, S. C.	" <i>Apollon caudata</i> . Entire.
Shark River, N. J.	Cast of upper four volutions, imbedded, and cast of lower three whorls of another individual.
" "	The specimen has been lost through decomposition and disintegration.
" "	Cast. Most of the matrix is present also.
" "	Cast showing three whorls.
Waccamaw, S. C.	As <i>Busycon canaliculatum</i> . The specimen has a smaller apical angle than the figure indicates.
" "	As <i>Busycon carica</i> . An individual of medium size.
Shark River, N. J.	Cast, somewhat flattened. See <i>Buccinofusus parilis</i> .
Pee Dee, S. C.	An individual.
Bear Creek, S. D.	Cast. From the Bad Lands.
Shark River, N. J.	Internal cast and matrix of an individual.
" "	Cast.
South Carolina.	A small individual, probably young.
Claiborne, Ala.	Individual with broken lip.
" "	Individual with imperfect aperture.
Pee Dee, S. C.	An individual cited by Conrad, P. A. N. S., Vol. 14, p. 563, as one of the types of his genus <i>Pleioptygma</i> , but Dall, T. W. I. S., vol. 3, p. 91, says that there is no ground for separating the species from <i>Mitra</i> .

## Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Mioc.	<u>5554</u> 1	Fig'd.	<b>Nassa</b> Lamarck. vibex ( <i>Say</i> ).... <i>T. &amp; H.</i>	P. F. S. C.	.....	134	28	3
Eoc.	<u>5555</u> <u>5556</u> 1	Type.	<b>Natica</b> Adanson. bisulcata..... <i>Heilprin.</i> globulella..... <i>Whitf.</i>	P. A. N. S. Mon. G. S. Pal. N. J.	30 18 2	212 226 226	13 34 34	4 3, 4 3, 4
"	<u>5557</u> 1	"	<b>Odostomia</b> Fleming. levigata..... <i>Heilprin.</i>	P. A. N. S.	30	212	13	5
Mioc.	<u>5557</u> 1	Fig'd.	<b>Oliva</b> Bruguière. litterata ( <i>Lam.</i> ) <i>T. &amp; H.</i>	P. F. S. C.	.....	140	28	13
Eoc.	<u>5559</u> 1	Type.	<b>Pisania</b> Bivona. bucciniformis... <i>Heilprin.</i>	P. A. N. S.	30	213	13	7
"	<u>5560</u> 1	Fig'd.	<b>Pleurotoma</b> Lamarck. denticula ( <i>Basterot</i> ) <i>Heilp.</i>	" "	30	214	13	10
"	<u>5561</u> 1	Type.	insignifica..... "	" "	30	213	13	9
"	<u>5562</u> 1	"	regularicostata... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	215 215	33 33	9 9
"	<u>5563</u> 1	"	( <i>Surcula</i> ?) altispira..... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	216 216	33 33	10, 11 10, 11
"	<u>5564</u> 1	"	<b>Rhinocantha</b> <i>H. &amp; A. Adams.</i> ? <i>Conradi</i> ..... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	191 191	24 24	8, 11 8, 11
"	<u>5565</u> 1	"	<b>Rissoina</b> d'Orbigny. plicato-varicosa <i>Heilprin.</i>	P. A. N. S.	30	214	13	12
"	<u>5566</u> 1	"	<b>Rostellaria</b> Lamarck. Whitfieldi..... <i>Heilprin.</i>	" "	30	216	13	14
"	<u>5567</u> 1	"	<b>Scalaria</b> Lamarck. tenuilirata..... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	229 229	34 34	10-12 10-12
Plioc.	<u>5568</u> <u>5568</u> 2	"	<b>Scaphella</b> Swainson. Trenholmi..... <i>T. &amp; H.</i>	P. F. S. C.	.....	128	27	7
"		"	"..... "	" "	.....	128	27	8
Eoc.	<u>5569</u> 1	Fig'd.	<b>Solarium</b> Lamarck. annosum ( <i>Con.</i> )... <i>Whitf.</i>	Mon. G. S. Pal. N. J.	18 2	228 228	34 34	23, 26, 27 23, 26, 27
"	<u>5570</u> 1	Type.	striato-granulatum <i>Heilp.</i>	P. A. N. S.	30	212	13	3
Eoc.	<u>5571</u> 1	Type.	<b>Strephona</b> Browne. <i>literata</i> .....					
			<b>Teinostoma</b> <i>H. &amp; A. Adams</i> rotula..... <i>Heilprin.</i>	P. A. N. S.	30	211	13	1
			<b>Terebellum</b> Klein. <i>etivwanensis</i> .....					
			<b>Tornatella</b> Lamarck..... <i>bicincta</i> .....					



LOCALITY.	REMARKS.
Pee Dee, S. C.	As <i>Buccinum vibex</i> . A small individual.
Claiborne, Ala.	Individual with imperfect aperture.
Shark River, N. J.	Cast, obliquely compressed.
Claiborne, Ala.	Lower two whorls of an individual, aperture imperfect.
Pee Dee? S. C.	As <i>Strephona literata</i> . Entire. May have come from Smith's, Goose Creek.
Claiborne, Ala.	Lower portion of an individual.
" "	Individual with apex missing.
" "	Individual with apex missing.
Shark River, N. J.	External imprint.
" "	Cast, somewhat compressed.
" "	Two casts, one of which (fig. 8) has been distorted.
Claiborne, Ala.	Individual with imperfect aperture.
" "	Weathered individual with imperfect apex and aperture.
Shark River, N. J.	Cast of interior and imprint of exterior of same individual.
Waccamaw, S. C.	As <i>Voluta Trenholmi</i> . A rather small individual. Miocene?
Sumter, S. C.	" " " " An adult. Miocene?
.....	" <i>Architectonica annosa</i> .
Shark River, N. J.	" " " " Cast preserving some of the external features.
Claiborne, Ala.	Individual with imperfect aperture.
.....	See <i>Oliva litterata</i> .
Claiborne, Ala.	Entire. Compare <i>Delphinula depressa</i> Lea.
.....	See <i>Turritella etiwanaensis</i> .
.....	Synonym of <i>Actaon</i> .
.....	See <i>Actaon bicinctus</i> .

## Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<i>Turris</i> Humphrey. <i>lunatum</i> .....					
Mioc.	5572 1	Type.	<b>Turritella</b> Lamarck. <i>etiwanensis</i> .... <i>T. &amp; H.</i>	P. F. S. C.	.....	122	26	10
			<b>Voluta</b> Linn. <i>mutabilis</i> .....					
Eoc.	5573 1	Type.	<i>Newcombiana</i> .... <i>Whitf.</i>	Mon. G. S.	18	211	32	3
"	....	"	<i>parvula</i> ..... <i>Whitf.</i>	Pal. N. J.	2	211	32	3
"	5575 1	"	<i>perelevata</i> ..... <i>Whitf.</i>	Mon. G. S.	18	208	31	5
"	....	"	" .....	Pal. N. J.	2	208	31	5
"	5576 1	"	<i>scaphoides</i> ..... <i>Whitf.</i>	Mon. G. S.	18	208	30	4, 5
"	....	"	" .....	Pal. N. J.	2	208	30	4, 5
"	5577 1	"	( <i>Amoria</i> ) <i>vesta</i> ..... <i>Whitf.</i>	Mon. G. S.	18	209	31	6-8
			" .....	Pal. N. J.	2	209	31	6-8
			<i>Trenholmi</i> .....					
			<b>Volutilithes</b> Swainson. <i>cancellatus</i> ..... <i>Whitf.</i>	Mon. G. S.	18	213	30	7, 9
Eoc.	5578 1	Type.	" .....	Pal. N. J.	2	213	30	7, 9
"	5579 1	Fig'd.	<i>Sayanus</i> ( <i>Con.</i> )... <i>Whitf.</i>	Mon. G. S.	18	212	30	11, 12
"	5580 1	"	" " " " .....	Pal. N. J.	2	212	30	11, 12
"	....	"	" " " " .....	Mon. G. S.	18	212	30	15
"	5581 1	Type.	<b>Xenophora</b> Fischer. <i>lapiferens</i> ..... <i>Whitf.</i>	Mon. G. S.	18	227	34	8, 9
			" .....	Pal. N. J.	2	227	34	8, 9

## Class CEPHALOPODA.

Eoc.	5582 1	Type.	<b>Nautilus</b> Breynius. <i>Cookanus</i> ..... <i>Whitf.</i>	Mon. G. S.	18	285	49	4, 5
			" .....	Pal. N. J.	2	285	49	4, 5

## Subkingdom VERTEBRATA.

			<b>Notogoneus</b> Cope. <i>osculus</i> Whitf. (non Cope.) .....					
Eoc.	5583 1	Gen. and Sp. Type.	<b>Protocatostomus</b> Whitf. <i>Constablei</i> ..... <i>Whitf.</i>	A. M. N. H.	3	120	4	1-5

## Class MAMMALIA.

Mioc.	5584 1	Gen. and Sp. Type.	<b>Dinictis</b> Leidy. <i>felina</i> ..... <i>Leidy.</i>	P. A. N. S.	8	91		
			" .....	J. A. N. S.	7, N.S.	64	5	1-4
"	5585 1	Type.	<b>Rhinoceros</b> Linn. <i>occidentalis</i> ..... <i>Leidy.</i>	" "	7, N.S.	220	21	34

LOCALITY.	REMARKS.
.....	Synonym of <i>Pleurotoma</i> . See <i>Drillia lunata</i> .
Pee Dee or Goose Creek, S. C.	As <i>Terbellum etiwanensis</i> . A small specimen (young). See <i>Aurinia mutabilis</i> and <i>Aurinia obtusa</i> .
Shark River, N. J.	Internal cast.
" "	Specimen lost by decomposition and disintegration.
" "	An imperfect cast.
" "	Specimen lost by decomposition and disintegration.
" "	A cast. See <i>Scaphella Trenholmi</i> .
Shark River, N. J.	Two casts preserving some external features.
" "	Two casts preserving some external features ; one is compressed.
Claiborne, Ala.	Entire individual.
Shark River, N. J.	A cast which has suffered much from decomposition.
Shark River, N. J.	A somewhat compressed cast of a young individual.
Class PISCES.	
.....	See <i>Protocatostomus Constablei</i> .
Twin Creek, Wyo.	As <i>Notogoneus osculus</i> Cope? in the explanation of plate. The specimen as described.
White River Bad Lands, S. D.	The somewhat mutilated and crushed skull and lower jaw which were described and figured.
" "	Besides the front teeth which are figured, the specimen preserves in place the six molars of the right side and the second premolar on the left side. In this specimen there are no indications of the existence of first premolars.

## Class MAMMALIA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Mioc.	5886	Fig'd.	Titanotherium Leidy. Prouti.....Leidy.	J. A. N. S.	7,N.S.	206	24	1, 2

LOCALITY.	REMARKS.
White River Bad Lands, S. D.	This is the "characteristic specimen" described in the second paragraph on p. 207 of Dr. Leidy's paper. It consists of the front of the jaw, all the teeth of the left side entire, except the last molar, which lacks the outer half, and the second, third and fourth premolar, parts of the first and second true molar and all of the third of the right side.

Quaternary. Kingdom ANIMALIA. Subkingdom

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Astræa</b> Lamarck.					
			<i>bella</i> .....					
			<i>crassa</i> .....					
			<i>petrosa</i> Hs. (non Dana).....					
Pleist.	$\frac{5590}{1}$	Fig'd.	<b>Astrangia</b> E. & H. <i>astreiformis</i> (E. & H.) Hs.	P. P. S. C.		1	1	2
Recent?	$\frac{5591}{1}$	"	<b>Dichocœnia</b> E. & H. <i>Stokesi</i> (E. & H.)... Hs.	" "		2	1	4, 4a
Pleist.	$\frac{5592}{1}$	Type.	<b>Favites</b> Link. <i>crassa</i> ..... Holmes.	" "		2	1	3, 3a

Subkingdom ECHINODERMATA.

Pleist.	$\frac{5593}{1}$	Fig'd.	<b>Mellita</b> Klein. <i>quinquefora</i> Lam., var. <i>ampla</i> (Ravenel)... Hs.	P. P. S. C.		3	1	6-6b
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MOLLUSCOIDEA.

Pleist.	$\frac{5594}{1}$	Fig'd.	<b>Reptocelleanoraria</b> d'Orb. <i>informata</i> (Lons.)... Hs.	P. P. S. C.		6	1	5
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Subkingdom MOLLUSCA.

Pleist.	$\frac{5595}{1}$	Fig'd.	<b>Abra</b> Leach. <i>æqualis</i> (Say)... Holmes.	P. P. S. C.		50	8	7
"	$\frac{5596}{1}$	Type.	<i>angulata</i> ..... Holmes.	" "		50	8	8
Pleist.	$\frac{5597}{1}$	Fig'd.	<b>Anomia</b> (Linn) Müller. <i>ephippium</i> Hs. (non Linn). <i>simplex</i> (d'Orb.) Holmes.	P. P. S. C.		11	2	11
			<b>Arca</b> Linn. <i>americana</i> .....					
			<i>caluta</i> .....					
			<i>ponderosa</i> .....					
Pleist?	$\frac{5598}{1}$	Fig'd.	<b>Argina</b> Gray... <i>campechensis</i> (Gmel.) Hs.	P. P. S. C.		19	4	2, 2a
			<b>Astarte</b> Sowerby. <i>lunulata</i> .....					
Pleist.	$\frac{5599}{1}$	Fig'd.	<b>Atrina</b> Gray. <i>rigida</i> (Dillwyn) Holmes.	P. P. S. C.		14	3	2
Pleist.	$\frac{5600}{1}$	Fig'd.	<b>Avicula</b> Klein. <i>atlantica</i> ..... <i>colymbus</i> (Bollen)... Hs.	P. P. S. C.		14	3	1
Pleist.	$\frac{5601}{1}$	Fig'd.	<b>Callista</b> Poli. <i>gigantea</i> Hs. (non Gmel.) <i>nimbosa</i> (Sol.)... Holmes.	P. P. S. C.		36	7	3

## CŒLEENTERATA. Class ACTINOZOA.

LOCALITY.	REMARKS.
.....	See <i>Astrangia astreiformis</i> and <i>Astrangia bella</i> .
.....	" <i>Favites crassa</i> .
.....	" <i>Dichocania Stokesi</i> .
South Carolina.	As <i>Astræa bella</i> Con. A small colony.
St. Andrews, S. C.	" " <i>petrosa</i> Dana. A small, water-worn mass.
Charleston, S. C.	" " <i>crassa</i> . A fragmentary branch.

## Class ECHINOIDEA.

Simmons' Bluff, S. C.	Two large individuals, slightly broken.
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## Class POLYZOA.

Charleston, S. C.	A colony on a bit of oyster shell.
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## Class LAMELLIBRANCHIATA.

Simmons' Bluff, S. C.	Two opposite, detached valves.
Simmons' Bluff or Abbapoola, S. C.	Two detached, opposite valves.
.....	See <i>Anomia simplex</i> .
Simmons' Bluff, S. C.	As " <i>ephippium</i> Linn. A single valve of medium size.
.....	See <i>Argina campechensis</i> .
.....	" <i>Fossularca Adamsi</i> .
.....	" <i>Noëtia ponderosa</i> .
.....	Considered by Dall a section of <i>Scapharca</i> , a subgenus under <i>Arca</i> .
Charleston, S. C.	As <i>Arca americana</i> Gray. Both valves of an individual.
.....	See <i>Crassinella lunulata</i> .
Simmons' Bluff, S. C.	As <i>Pinna seminuda</i> Lam. The broken portion represented, except that a small part has disappeared.
.....	See <i>Avicula colymbus</i> .
Abbapoola or John's Island, S. C.	As " <i>atlantica</i> Lam. A right valve which has been damaged since the figure was made.
.....	See <i>Callista nimbosea</i> .
Simmons' Bluff, S. C.	As " <i>gigantea</i> Gmelin. The left valve represented in the figure.

## Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Cardita</b> Bruguière. <i>tridentata</i> .....					
			<b>Cardium</b> Linn. <i>magnum</i> .....					
Pleist. ?	5602 5603 I	Fig'd.	<b>Chione</b> Megerle. <i>cancellata</i> (Linn.) Holmes. <i>cribraria</i> (Con.) Holmes.	P. P. S. C. " "		35 35	6 6	14 15
			<b>Corbula</b> Bruguière. <i>contracta</i> .....					
Pleist.	5604 I	Fig'd.	<b>Crassinella</b> Bayle. <i>lunulata</i> ..... Holmes.	P. P. S. C.		32	6	9
"	5605 I	"	<b>Cumingia</b> Sowerby. <i>tellinoides</i> (Con.) Holmes.	" "		53	8	12
"	5606 I	"	<b>Cuneocorbula</b> Cossman. <i>contracta</i> (Say) Holmes.	" "		56	8	17 (pars)
"	5607 I	"	<b>Dinocardium</b> Dall. <i>robustum</i> (Sol.) Holmes.	" "		23	5	2, 2a
Pleist?	5608 I	"	<b>Diplodonta</b> Brown. <i>soror</i> (Adanson) Holmes.	" "		29	6	5
Pleist.	5609 I	Type.	<b>Divaricella</b> E. von Martens. Conradi ..... d'Orb. Holmes.	Pr. de Pal. P. P. S. C.	3	117		
Pleist.	5610 I	Fig'd.	<b>Ensis</b> Schumacher. <i>ensis</i> Holmes (non Linn). <i>minor</i> (Dall)..... Holmes.	P. P. S. C.		53	8	13 (pars)
"	5611 I	Type.	<b>Ervilia</b> Turton. <i>concentrica</i> ..... Holmes.	" "		44	6	10
"	5612 I	Fig'd.	<b>Eurytellina</b> P. Fischer. <i>alternata</i> (Say)..... Holmes.	" "		45	8	1
"	5613 I	"	<b>Fossularca</b> Cossman. <i>Adamsi</i> (Shuttleworth) Holmes.	" "		22	4	6, 6a
"	5614 I	"	<b>Glycymeris</b> Da Costa. <i>americana</i> (DeFr.) Holmes.	" "		15	3	4
"	5615 I	"	<b>Labiosa</b> Schmidt <i>canaliculata</i> (Say) Holmes.	" "		43	7	13
"	5616 I	"	<i>lineata</i> (Say)..... Holmes.	" "		42	7	12
"	5617 I	"	<b>Lævicardium</b> Swainson. <i>serratum</i> (Linn) Holmes.	" "		25	5	5



LOCALITY.	REMARKS.
.....	See <i>Pleuromeris tridentata</i> .
.....	See <i>Dinocardium robustum</i> .
Simmons' Bluff, S. C. Charleston, S. C.	A right valve. A left valve.
.....	See <i>Cuneocorbula contracta</i> .
Simmons' Bluff, S. C.	As <i>Astarte lunulata</i> Con. A single valve.
" "	A right valve.
" "	As <i>Corbula contracta</i> Say. A left valve. A right valve which is too small is indicated as the original of the other half of the figure. May have come from Abbapoola or Charleston.
" "	As <i>Cardium magnum</i> Born. Entire.
Ashley River, S. C.	As type of <i>Lucina kiawahensis</i> Holmes. The detached valves of an individual.
.....	As <i>Lucina Conradii</i> .
Simmons' Bluff, S. C.	" " <i>divaricata</i> Linn. A single valve.
.....	See <i>Ensis minor</i> .
Simmons' Bluff, S. C.	As " <i>ensis</i> Linn. The left valve figured, which has lost half an inch of the posterior end.
Simmons' Bluff or St. Paul's, S. C.	As <i>Mesodesma concentrica</i> . A single valve.
Simmons' Bluff, S. C.	" <i>Peronaoderma alternata</i> . The separated valves of an individual of medium size. May have come from John's Island, Abbapoola Crk.
John's Island, Abbapoola Creek, S. C.	As <i>Arca calata</i> Con. Conrad's specific name was preoccupied. The right valve of the individual figured.
Simmons' Bluff, S. C.	As type of <i>Pectunculus carolinensis</i> Holmes. A worn valve.
" "	" <i>Raïta canaliculata</i> . The left valve of those figured.
" "	" " <i>lineata</i> . A right valve.
Abbapoola Creek, S. C.	A left valve, the rear fourth of which has been broken off since the figure was made.

Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Pleist.	5618 I	Fig'd.	<b>Leda</b> Schumacher.	P. P. S. C.	.....	16	3	7
			<i>acuta</i> (Con.).... <i>Holmes</i> .					
			<i>limatula</i> .....					
Pleist.	5619 I	Fig'd.	<b>Lucina</b> Bruguière.	P. P. S. C.	.....	27	6	2
			<i>costata</i> (T. & H.)... <i>Hs.</i>					
			<i>Conradii</i> .....					
			<i>divaricata</i> .....					
			<i>kiawahensis</i> .....					
Pleist.	5620 I	Fig'd.	<b>Macoma</b> Leach.	P. P. S. C.	.....	48	8	5
			<i>balthica</i> (Linn.)... <i>Holmes</i> .					
Pleist.	5621 I	Fig'd.	<i>fusca</i> .....	P. P. S. C.	.....	46	8	3
			<i>tenta</i> (Say)..... <i>Holmes</i> .					
			<b>Mactra</b> Linn.					
			<i>lateralis</i> .....					
			<b>Mercenaria</b> Schumacher.					
			<i>Mortoni</i> .....					
			<i>notata</i> .....					
			<i>violacea</i> .....					
			<b>Mesodesma</b> Deshayes.					
			<i>concentrica</i> .....					
Pleist. ?	5622 I	Fig'd.	<b>Mulinia</b> Gray	P. P. S. C.	.....	40	7	9 (pars)
			<i>lateralis</i> (Say)... <i>Holmes</i> .					
"	5623 I	Type.	<i>milesi</i> .....	" "	.....	42	7	11
			<b>Mya</b> Linn.					
"	5624 I	Fig'd.	<i>arenaria</i> (Linn.)... <i>Holmes</i> .	" "	.....	55	8	15
			<b>Noëtia</b> Gray.					
"	5625 I	Fig'd.	<i>ponderosa</i> (Say)... <i>Holmes</i> .	" "	.....	21	4	4, 4a
			<b>Nucula</b> Lamarck.					
Pleist.	5626 I	Fig'd.	<i>acuta</i> .....	P. P. S. C.	.....	17	3	6
			<i>proxima</i> (Say)... <i>Holmes</i> .					
			<b>Ostrea</b> Linn.					
			<i>fundata</i> .....					
			<i>virginiana</i> .....					
			" var. <i>procyon</i> .					
Pleist.	5627 I	Fig'd.	<i>virginica</i> (Gmel.) <i>Holmes</i> .	P. P. S. C.	.....	9	2	9
			" " " "					
"	5628 I	Type.	" " " "	" "	.....	11	2	10
" ?	5629 I	"	" var. <i>procyon</i> ... <i>Hs.</i>	" "	.....	10	2	9a
			<b>Pecten</b> Müller.					
Pleist.	5630 I	Fig'd.	<i>dislocatus</i> .....	P. P. S. C.	.....	13	2	12
			<i>gibbus</i> Linn, var.					
			<i>dislocatus</i> (Say) <i>Hs.</i>					
			<b>Pectunculus</b> Lamarck.					
			<i>carolinensis</i> .....					
			<b>Peronæa</b> Poli.					
			<i>tenta</i> .....					

LOCALITY.	REMARKS.
Stono River or Simmons' Bluff, S. C. .....	As <i>Nucula acuta</i> . An average right valve. See <i>Yoldia limatula</i> .
Abbapoola Creek, S. C. ..... .....	A left valve. See <i>Divaricella Conradi</i> . " " " <i>Diplodonta soror</i> .
Simmons' Bluff, S. C. .....	As <i>Macoma fusca</i> Say. A left valve. See " <i>balthica</i> .
Simmons' Bluff, S. C. ..... .....	As <i>Peronæa tenta</i> . A left valve which has lost part of the umbo.  See <i>Mulinia lateralis</i> .
..... ..... .....	" <i>Venus Mortoni</i> . " " <i>mercenaria</i> , var. <i>notata</i> . " " "
.....	" <i>Ervilia concentrica</i> .
South Carolina. " "	As <i>Mactra lateralis</i> . The left valve figured. A right valve with the umbo partly gone. Not a left valve as stated in the text.
Simmons' Bluff, S. C.	Two opposite valves, not of the same individual. The left valve has lost its anterior one-third.
Charleston, S. C.	As <i>Arca ponderosa</i> . Both valves of an adult.
..... Simmons' Bluff, S. C.	See <i>Leda acuta</i> . A left valve.
..... .....	See <i>Ostrea virginica</i> . " " " var. <i>procyon</i> .
Charleston, ? S. C. Simmons' Bluff, S. C.	As " <i>virginiana</i> Lister. Entire adult. " " <i>fundata</i> , a name which Holmes credits to Say but which has not yet been found in Say's writings. A single valve.
Charleston, S. C.	As <i>Ostrea virginiana</i> var. <i>procyon</i> . A single valve.
.....	See <i>Pecten gibbus</i> , var. <i>dislocatus</i> .
Simmons' Bluff, S. C. ..... .....	As " <i>dislocatus</i> . A right valve of medium size.  Synonym of <i>Glycymeris</i> . See <i>Glycymeris americana</i> .
.....	" <i>Macoma tenta</i> .

## Class LAMELLIBRANCHIATA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.					
				Work.	Vol.	P.	Pl.	Figs.	
			<b>Peronæoderma</b> Mörch. <i>alternata</i> .....						
Pleist?	<u>5630</u> 1	Fig'd.	<b>Petricola</b> Lamarck. <i>dactylus</i> (Sow.)..Holmes.	P. P. S. C.		39	7	7	
			<b>Pholas</b> Linn. <i>costata</i> .....						
			<b>Pinna</b> Linn. <i>seminuda</i> .....						
Pleist.	<u>5631</u> 1	Fig'd.	<b>Pleuromeris</b> Conrad. <i>tridentata</i> (Say)..Holmes.	P. P. S. C.		31	6	8	
			<b>Plicatula</b> Lamarck. <i>cristata</i> .....						
Pleist?	<u>5632</u> 1	Fig'd.	<i>gibbosa</i> (Lam.)..Holmes.	P. P. S. C.		13	2	13	
			<b>Raëta</b> Gray. <i>canaliculata</i> .....						
			<i>lineata</i> .....						
Pleist.	<u>5633</u> 1	Fig'd.	<b>Scobina</b> Bayle. <i>costata</i> (Linn)...Holmes.	P. P. S. C.		58	9	1	
			<b>Semele</b> Schumacher. <i>orbiculata</i> .....						
Pleist.	<u>5634</u> 1	Fig'd.	<i>proficua</i> (Pult.)..Holmes.	P. P. S. C.		51	8	9	
Recent.	<u>5635</u>	"	<b>Tellidora</b> Mörch. <i>Burnetti</i> (Bd. & Sv.) Hs.	" "		48	9	6-6b	
Pleist.	<u>5636</u> 1	"	<i>cristata</i> (Recluz) Holmes.	" "		47	9	7-7d	
			<i>lunulata</i> .....						
Pleist.	<u>5637</u> 1	"	<b>Venus</b> Linn. <i>mercenaria</i> (Lam.)...Hs.	P. P. S. C.		33	6	11, 11a	
"	<u>5638</u>	"	<i>limatula</i> ,						
			<i>var. notata</i> (Say) Hs.	" "		34	6	13	
"	<u>5639</u> 1	"	<i>Mortoni</i> (Con.)..Holmes.	" "		34	6	12, 12a	
"	<u>5640</u> 1	"	<b>Yoldia</b> Moller. <i>limatula</i> (Say)...Holmes.	" "		18	3	8	
Class GASTROPODA.									
Pleist?	<u>5641</u> 1	Fig'd.	<b>Acus</b> Humphrey. <i>dislocatus</i> (Say)..Holmes.	P. P. S. C.		70	11	12	
			<b>Adeorbis</b> S. Wood. <i>nautiliiformis</i> .....						
Pleist.	<u>5642</u> 1	Fig'd.	<b>Anachis</b> H. & A. Adams. <i>obesa</i> (Adanson) Holmes.	P. P. S. C.		74	12	6, 6a	

LOCALITY.	REMARKS.
.....	See <i>Eurytellina alternata</i> .
South Carolina.	A right valve.
.....	See <i>Scobina costata</i> .
.....	" <i>Atrina rigida</i> .
Simmons' Bluff or Wadmalaw, S. C.	As <i>Cardita tridentata</i> . The valve which was figured.
.....	See <i>Plicatula gibbosa</i> .
South Carolina.	As " <i>cristata</i> Lam. A single valve.
.....	See <i>Labiosa canaliculata</i> .
.....	" " <i>lineata</i> .
Simmons' Bluff, S. C.	As <i>Pholas costata</i> . The two valves of an individual of medium size, lacking the transverse process represented in the figure.
.....	See <i>Semele proficua</i> .
Simmons' Bluff, S. C.	As " <i>orbiculata</i> Say. Both valves of an individual.
.....	The individual used for the figures.
California. Simmons' Bluff or St. Andrews, S. C.	As <i>Tellidora lunulata</i> Adams. The two valves assigned to these figures by Prof. Holmes are a trifle too small.
.....	See <i>Tellidora cristata</i> .
Simmons' Bluff, S. C.	As <i>Mercenaria violacea</i> Adams. What is evidently the left valve of the specimen which was figured is present.
" "	As <i>Mercenaria notata</i> . A right valve.
" "	" " <i>Mortoni</i> . A very large individual with greatly thickened valves.
" "	As <i>Leda limatula</i> . A right valve.
.....	.....
South Carolina.	As <i>Terebra dislocata</i> . Entire, except for the lip being broken.
.....	See <i>Cochliolepis nautiliformis</i> .
Simmons' Bluff, S. C.	As <i>Columbella ornata</i> Ravenel. Entire. May have come from Cainhoj or Waccamaw.

## Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Buccinum</b> Linn.					
			<i>acutum</i> .....					
			<i>obsoletum</i> .....					
			<i>trivittatum</i> .....					
			<b>Busycon</b> Bolten.					
			<i>canaliculatum</i> .....					
			<i>carica</i> .....					
			<i>perversum</i> .....					
Pleist.	<u>5643</u> 1	Fig'd.	<b>Cancellaria</b> Lamarck. <i>reticulata</i> (Linn) Holmes.	P. P. S. C.		64	10	6
			<i>venusta</i> Hs. (non T. & H.) .....					
"	<u>5644</u> 1	Type.	<b>Cavolina</b> Gioeni. <i>Tuomeyi</i> .....	" "		60	9	8-8e
Pleist.	<u>5645</u> 1	Fig'd.	<b>Chrysalida</b> Carpenter. <i>seminuda</i> (Adams) . . . Hs.	" "		86	13	11-11b
" ?	<u>5646</u> 1	Type.	<b>Cochliolepis</b> Stimpson. <i>nautiliformis</i> . . . Holmes.	" "		93	14	8-8b
			<b>Columbella</b> Lamarck. <i>ornata</i> .....					
Pleist.	<u>5647</u> 1	Fig'd.	<b>Crepidula</b> Lamarck. <i>aculeata</i> (Gmel.) . . Holmes.	P. P. S. C.		95	14	12
"	<u>5648</u> 1	"	<i>convexa</i> (Say) . . . Holmes.	" "		95	14	11
			<i>Crypta</i> Humphrey .....					
			<i>aculeata</i> .....					
			<i>fornicata</i> Hs. (non Linn) .....					
Pleist.	<u>5649</u> 1	Fig'd.	<b>Eulima</b> Risso. <i>eborea</i> (Con.) . . . Holmes.	P. P. S. C.		88	13	13
"	<u>5650</u> 1	"	<b>Eupleura</b> H. & A. Adams. <i>caudata</i> (Say) . . . Holmes.	" "		62	10	3
			<b>Fissurella</b> (Brug.) Lamarck. <i>alternata</i> .....					
Pleist.	<u>5651</u> 1	Fig'd.	<b>Fissuridea</b> Swainson. <i>alternata</i> (Say) . . . Holmes.	P. P. S. C.		94	14	10
"	<u>5652</u> 1	"	<b>Fulgur</b> Montfort. <i>canaliculatum</i> (Linn) Hs.	" "		66	11	3
"	<u>5653</u> 1	"	<i>carica</i> (Gmel.) . . . Holmes.	" "		65	11	1
"	<u>5654</u> 1	"	<i>perversum</i> (Linn.) Hs.	" "		65	11	2
" ?	<u>5655</u> 1	Type.	<b>Fusus</b> Lamarck. <i>conus</i> . . . . . Holmes.	" "		69	11	7-8a
"	<u>5656</u> 1	"	<i>filiformis</i> . . . . . Holmes.	" "		69	11	9, 9a
"	<u>5657</u> 1	"	<i>rudis</i> . . . . . Holmes.	" "		70	11	11, 11a

LOCALITY.	REMARKS.
.....	See <i>Nassa acuta</i> .
.....	" <i>Ilyanassa irrorata</i> .
.....	" <i>Nassa trivittata</i> .
.....	" <i>Fulgur canaliculatum</i> .
.....	" " <i>carica</i> .
.....	" " <i>perversum</i> .
Simmons' Bluff or Wando River, S. C.	An individual which had lost its lip before it was imbedded. See <i>Tritonidea cancellaria</i> .
Simmons' Bluff, S. C.	Slightly broken on one side. "Probably the young of <i>Carolina gibbosa</i> Rang." (Dall).
Cainho, S. C.	As <i>Odostomia granulatus</i> H. C. Lea. Entire.
" "	As <i>Adeorbis nautiliformis</i> . Part of one whorl is all that remains of the specimen which was figured, but another which is nearly entire is associated with it.
.....	See <i>Anachis obesa</i> .
John's Island, Stono River, S. C.	As <i>Crypta aculeata</i> . The broken individual which was figured.
Simmons' Bluff, S. C.	" " <i>fornicata</i> Linn. Entire.
.....	Synonym of <i>Crepidula</i> .
.....	See <i>Crepidula aculeata</i> .
.....	" " <i>convexa</i> .
Simmons' Bluff, S. C.	Individual with apex and lip gone.
" "	The lower extremity has been broken off since the figure was made.
.....	See <i>Fissuridea alternata</i> .
Simmons' Bluff or Stono River, S. C.	As <i>Fissurella alternata</i> . Entire.
Simmons' Bluff or Wadmalaw Sound, S. C.	As <i>Busycon canaliculatum</i> . A young shell, strongly beaded.
Simmons' Bluff, S. C.	" " <i>carica</i> . The lip is somewhat broken.
" "	" " <i>perversum</i> . Entire, except as to the point.
John's Island, S. C.	Two young individuals, one with broken aperture. Probably <i>Anachis avara</i> Say.
Simmons' Bluff, S. C.	A young shell. Probably <i>Pleurotoma cinera</i> Kurtz & Stimpson.
" "	A young shell. Probably <i>Eupleura caudata</i> Say.

## Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Pleist.	5658 I	Fig'd.	<i>Ilyanassa</i> Stimpson. <i>irrorata</i> (Con.)... Holmes.	P. P. S. C.	.....	71	12	1
"	5659 I	"	<i>Littorina</i> de Férussac. <i>irrorata</i> (Say) Holmes.	" "	.....	91	14	5
"	5660 I	Type.	<i>Lonchæus</i> Mörch. <i>crenulatus</i> ..... Holmes.	" "	.....	88	13	14, 14a
"	5661 I	Fig'd.	<i>Mangilia</i> Risso. <i>cerina</i> (K. & S.) Holmes.	" "	.....	77	12	9, 9a
"	5662 I	"	<i>Marginella</i> Lamarck. <i>limatula</i> (Con.)... Holmes.	" "	.....	78	12	12
"	5663 I	Type.	<i>Mitra</i> Lamarck. <i>wandoënsis</i> ..... Holmes.	" "	.....	77	12	10, 10a
"	5664 I	Fig'd.	<i>Nassa</i> Lamarck. <i>acuta</i> (Say)..... Holmes.	" "	.....	72	12	3
"	5665 I	"	<i>trivittata</i> (Say)... Holmes.	" "	.....	72	12	2
			<i>Natica</i> (Adanson) Scopoli. <i>duplicata</i> .....					
Pleist.	5666 I	Fig'd.	<i>Neverita</i> Risso. <i>duplicata</i> (Say)... Holmes.	P. P. S. C.	.....	80	12	14
			<i>Obeliscus</i> Humphrey. <i>crenulatus</i> .....					
			<i>Odostomia</i> Fleming. <i>granulatus</i> .....					
			<i>Pleurotoma</i> Lamarck. <i>cerina</i> .....					
			<i>Porcellana</i> Adanson. <i>limatula</i> .....					
Pleist.	5667 I	Fig'd.	<i>Scalaria</i> Lamarck. <i>angulata</i> (Say)... Holmes.	P. P. S. C.	.....	89	14	2
Pleist.	5668 I	Fig'd.	<i>clathrus</i> Hs. (non Linn).	P. P. S. C.	.....	90	14	3
"	5669 I	"	<i>lineata</i> (Say)..... Holmes.	" "	.....	90	14	4
"	5670 I	"	<i>multistriata</i> (Say) Holmes. <i>Sayana</i> (Dall)... Holmes.	" "	.....	89	14	1
"	5671 I	"	<i>Strombus</i> Linn. <i>pugilis</i> (Linn)... Holmes.	" "	.....	61	10	1
			<i>Terebra</i> Bruguière. <i>dislocata</i> .....					
Pleist.	5672 I	Fig'd.	<i>Tornatina</i> A. Adams. <i>canaliculata</i> (Say)... Hs.	P. P. S. C.	.....	78	12	11, 11a
"	5673 I	"	<i>Tritonidea</i> Swainson. <i>cancellaria</i> (Con.) Holmes.	" "	.....	64	10	7



LOCALITY.	REMARKS.
Simmons' Bluff, S. C.	As <i>Buccinum obsoletum</i> Say. The lip was missing before the figure was made.
" "	A somewhat weathered individual. May have come from Wadmalaw or Cainhoy.
" "	As <i>Obeliscus crenulatus</i> . Entire.
" "	" <i>Pleurotoma cerinum</i> . Entire.
" "	" <i>Porcellana limatula</i> . Entire.
Wando River, S. C.	" <i>Volutonitra wandoënsis</i> . Entire, somewhat worn.
Simmons' Bluff, S. C.	" <i>Buccinum acutum</i> . Entire, very perfect.
" "	" " <i>trivittatum</i> . A very perfect individual.
.....	See <i>Neverita duplicata</i> .
Simmons' Bluff, S. C.	As <i>Natica duplicata</i> . Entire.
.....	See <i>Lonchæus crenulatus</i> .
.....	" <i>Chrysalida seminuda</i> .
.....	" <i>Mangilia cerina</i> .
.....	" <i>Marginella limatula</i> .
Simmons' Bluff, S. C.	Entire.
.....	See <i>Scalaria Sayana</i> .
Simmons' Bluff, S. C.	Entire.
" "	The lower four whorls of the individual represented in the figure.
" "	As <i>Scalaria clathrus</i> Linn. Entire.
" "	The specimen which was referred to this figure by Prof. Holmes.
.....	See <i>Acus dislocatus</i> .
Simmons' Bluff or John's Island, S. C.	As <i>Volvaria canaliculata</i> . Entire.
Simmons' Bluff, S. C.	" <i>Cancellaria venusta</i> T. & H. Entire adult of average size.

## Class GASTROPODA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
			<b>Turbonilla</b> Risso.					
			<i>acicula</i> .....					
			<i>caroliniana</i> .....					
Pleist.	5674	Fig'd.	<i>interrupta</i> (Totten)...Hs.	P. P. S. C.		86	I3	10-10b
"	5675	"	<i>nivea</i> (Stimpson) Holmes.	" "		83	I3	3-3b
"	? 5676	"	<i>reticulata</i> (C. B. Adams) Holmes.	" "		86	I3	9-9b
			<b>Volutomitra</b> Gray.					
			<i>wandoënsis</i> .....					
			<b>Volva</b> Botken.					
"	5677	Fig'd.	<i>acicularis</i> (Lam.) Holmes.	" "		79	I2	I3
			<b>Volvaria</b> Lamarck.					
			<i>canaliculata</i> .....					

## Subkingdom ARTHROPODA.

Pleist.	5678	Fig'd.	<b>Balanus</b> Lister.					
			<i>eburneus</i> (Gould)...Hs.	P. P. S. C.		7	2	5, 5a
"	? 5679	"	<b>Guaia</b> Milne-Edwards.	" "		8	2	8
			<i>punctata</i> (Brown) Holmes.					
			<i>Guaia</i> Hs. (non Milne-Edw.)					
Pleist?	5680	Fig'd.	<b>Pseudocarcinus</b> M.-Edw.					
			<i>mercenarius</i> (Say) Holmes.	P. P. S. C.		8	2	7

## Subkingdom VERTEBRATA.

Pleist?	5681	Type.	<b>Ischyriza</b> Leidy.					
			<i>mira</i> .....Leidy.	P. P. S. C.		120	25	3-8
"	5682	Fig'd.	<b>Pastinaca</b> Gesner.	" "		119	27	I
			<i>hastata</i> (DeKay)?..Leidy.					
"	5683	"	<b>Trichiurus</b> Linn.	" "		121	25	2
			<i>lepturus</i> (Linn)...Leidy.					
"	5684	Type.	<b>Xiphias</b> Linn.	" "		119	27	3-5
			<i>robustus</i> .....Leidy.					

## Class REPTILIA.

Pleist.	5685	Fig'd.	<b>Alligator</b> Cuvier.					
			<i>mississippiensis</i> (Daudin) Leidy.	P. P. S. C.		122	27	7
"	5686	"	<b>Testudo</b> Linn.	" "		122	28	I, 2, 4
			sp.....Leidy.					

LOCALITY.	REMARKS.
.....	See <i>Turbonilla interrupta</i> .
Cainhoy, S. C.	" " <i>reticulata</i> .
John's Island, S. C.	As type of <i>Turbonilla acicula</i> Hs. Entire, except for broken lip. A very perfect indiv. May have come from Cainhoy or Simmons' Bluff.
Cainhoy, S. C.	As type of <i>Turbonilla caroliniana</i> Holmes. Individual with point of aperture missing.
.....	See <i>Mitra wandoënsis</i> .
Simmons' Bluff or Charleston, S. C.	Entire individual.
.....	See <i>Tornatina canaliculata</i> .
Class CRUSTACEA.	
Simmons' Bluff, S. C.	A specimen larger than the average. May have come from Wadmawlaw Sound or John's Island.
Charleston, S. C.	One joint of a claw.
.....	Misprint for <i>Guaia</i> , q. v.
South Carolina.	Part of the fragment of claw represented.
Class PISCES.	
Darlington, S. C.	Two teeth.
Simmons' Bluff, Yonge's Island, S. C.	Part of a spine.
Simmons' Bluff, S. C.	Two fragmentary teeth.
Ashley River, S. C.	Extremity of an upper jaw and another fragment, the originals of figs. 3 and 4 belonging together.
.....	
Ashley River, S. C.	A medium sized and a small tooth. From the Ashley beds.
" "	Three fragments as figured, except that the original of Fig. 1 seems to have lost one corner since the figure was made.

## Class MAMMALIA.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Pleist.	5687 1	Fig'd.	<b>Bos</b> Linn. taurus ( <i>Linn</i> ).... <i>Leidy</i> .	P. P. S. C.	.....	110	20	5, 5a
"	5688 1	"	<b>Canis</b> Linn. familiaris ( <i>Linn</i> )... <i>Leidy</i> .	" "	.....	116	24	1
"	5689 1	"	<b>Castor</b> Linn. canadensis ( <i>Kuhl</i> ) <i>Leidy</i> .	" "	.....	111	21	2
"	5690 1	"	<b>Castoroides</b> Foster. ohioensis ( <i>Foster</i> )... <i>Leidy</i> .	" "	.....	114	22	6
"	5691 1	"	<b>Didelphys</b> Linn. virginiana ( <i>Shaw</i> ) <i>Leidy</i> .	" "	.....	116	23	2
"	5692 1	"	<b>Elephas</b> Linn. americanus..... <i>Leidy</i> .	" "	.....	108	18	1
"	5693 1	Type.	<b>Equus</b> Linn. complicatus..... <i>Leidy</i> .	" "	.....	103	15	4
"	"	"	"..... <i>Gidley</i> .	A. M. N. H.	14	111	p. 112	7 8B, B <sup>1</sup>
"	"	Fig'd.	"..... <i>Leidy</i> .	P. P. S. C.	.....	104	16	21, 22
"	5693 1	"	"..... <i>Leidy</i> .	" "	.....	103	16	24, 26
"	5694 1	Type.	<b>fraternus</b> ..... <i>Leidy</i> .	" "	.....	104	15	6
"	5694 2	"	"..... <i>Gidley</i> .	A. M. N. H.	14	111	p. 112	8A, A <sup>1</sup>
"	5694 3	"	"..... <i>Leidy</i> .	P. P. S. C.	.....	104	15	8
"	5694 4	"	"..... <i>Leidy</i> .	" "	.....	103	16	19
"	5694 5	"	"..... <i>Leidy</i> .	" "	.....	103	16	23
"	5694 6	Fig'd.	"..... <i>Gidley</i> .	A. M. N. H.	14	113	p. 112	8C, C <sup>1</sup>
"	5694 6	"	"..... <i>Gidley</i> .	" "	14	113	p. 112	8D, D <sup>1</sup>
"	5695 1	"	<b>Fiber</b> Cuvier. zibethicus ( <i>Cuvier</i> ) <i>Leidy</i> .	P. P. S. C.	.....	113	22	2-4
"	5696 1	Type.	<b>Hydrochoerus</b> Brisson. Æsopi..... <i>Leidy</i> .	" "	.....	112	21	4, 5
"	5697 1	Fig'd.	<b>Ovis</b> Linn. Ammon ( <i>Linn</i> ).... <i>Leidy</i> .	" "	.....	110	20	6, 6a
"	5698 1	Type.	<b>Physeter</b> Linn. antiquus..... <i>Leidy</i> .	" "	.....	117	24	8

LOCALITY.	REMARKS.
Ashley River, S. C.	Two molar teeth.
" "	Two upper molar teeth.
" "	Three molar teeth.
" "	Small fragment of an incisor.
John's Island, S. C.	Fragment of jaw which has lost the tooth represented in the figure. From Doctor's Swamp.
Texas.	The practically entire tooth which is represented, somewhat fore-shortened, on the plate.
Ashley River, S. C.	The inner portion of a tooth.
" "	Nearly entire tooth. This is the specimen which E. D. Cope erroneously selected as being the type of <i>Equus fraternus</i> Leidy, without seeing it.
" "	Two teeth which are assigned to this species on account of their agreement with the original of fig. 26, same plate.
Natchez, Miss.	Two lower molars.
John's Island, S. C.	An upper molar with one angle gone. From Doctor's Swamp.
Goose Creek, S. C.	Part of an upper molar. Locality was 12 miles from Charleston.
Ashley River, S. C.	A tooth assigned to this species on account of its agreement with fig. 23, same plate.
Brunswick Canal, Ga.	A molar tooth which has lost part of the enamel.
Charleston, S. C.	A molar.
Florida.	A molar.
Ashley River, S. C.	Two incisors and a fragment of jaw retaining two molar teeth.
" "	Fragment of an incisor, and three lower molars.
" "	A lower molar tooth.
" "	An imperfect tooth.

## Class MAMMALIA—Continued.

Geol. Subdiv.	Cat. No.	Type or Fig'd Sp.	GENUS, SPECIES AND AUTHOR.	REFERENCE.				
				Work.	Vol.	P.	Pl.	Figs.
Pleist?	<del>5699</del> 1	Fig'd.	<b>Procyon</b> Storr. lotofa ( <i>Storr</i> )..... <i>Leidy</i> .	P. P. S. C.	.....	115	23	1
"	<del>5700</del> 1	Type.	<b>Squalodon</b> Grateloup. Tiedemani..... <i>Allen</i> .	A. M. N. H.	2	35	6	2-4
"	<del>5700</del> 2	"	" "....."	" "	2	35	5 6	1, 2 1
"	<del>5701</del> 1	Fig'd.	<b>Sus</b> Linn. scrofa ( <i>Linn.</i> )..... <i>Leidy</i> .	P. P. S. C.	.....	109	19	4, 5
"	<del>5702</del> 1	"	<b>Tapirus</b> Brisson. americanus ( <i>Linn.</i> ) <i>Leidy</i> .	" "	.....	106	17	3
"	<del>5703</del> 1	"	Genus? species?..... <i>Leidy</i> .	" "	.....	.....	24	3

LOCALITY.	REMARKS.
Ashley Ferry, S. C.	The upper part of a lower molar.
Ashley River, S. C.	A part of the left ramus. The portion of the right ramus mentioned on page 38 of the paper is present also.
Charleston, S. C.	The specimen as described and figured. Dredged from the Wando River.
Ashley River, S. C.	A large molar tooth. Thought by Leidy not to be a true fossil.
" "	Part of the crown of an upper molar tooth. From the Ashley beds.
" "	An undetermined phalanx.





## ADDENDA ET CORRIGENDA.

- Page 59, line 13 from bottom. Instead of "S." read "C."  
Page 62, last line. Instead of the ditto marks read "Type", and instead of "55," in column of page references, read "58."  
Page 69, line 13 from bottom. Instead of "*Dalmaia*" read "*Dalmania*."  
Page 121, line 17 from bottom. Instead of "*Crytonella*" read "*Cryptonella*."

### Pages 146 and 147.

*Spirifer plicatellus* (Linn.) Hall, St. G. N. Y., Vol. 2, pl. 51, figs. 6-8, 28. Hall & Clarke, Pal. N. Y., Vol. 8, pt. 2, p. 9, pl. 21, figs. 6-8, 28. Gothland, Sweden. Silurian system. Cat. No.  $\frac{52}{144}$ . Fig'd Sp. Four entire individuals, fig. 28 not having been made from the original of one of the others. The original of fig. 6 did not come from the same locality with the others.

### Pages 156 and 157.

Page 156, line 5. Instead of "pl. 53, figs. 3, 10" read "pl. 52, fig. 10" and "pl. 53, fig. 3."

### *Cardiola* Broderip.

*Cardiola fluctuans* (Barrande) Hall, Pal. N. Y., Vol. 5, pt. 1, pl. 70, fig. 1, pl. 94, fig. 23. As *Cardiola* sp., Hall, Pal. N. Y., Vol. 5, pt. 1, Pl. & Ex., p. 70, fig. 1. Bohemia. Silurian system. Cat. No.  $\frac{52}{145}$ . Fig'd Sp. A we 1-preserved right valve, imbedded.

- Page 183, line 8. Instead of "*Delmanites*" read "*Dalmanites*."  
Page 190, line 22. Instead of "*Brongniart*" read "*Brongniart*."  
Page 194, line 4. Instead of "*Lamarck*" read "*Lamarck*."  
Page 205, line 11 from bottom. Instead of "*Comarotachia*" read "*Camaro-tachia*."  
Page 224, line 10. Strike out "47" in column under "Figs."  
Page 228, line 21 from bottom. Instead of "9-15" read "9-11, 13-15", in column under "Figs."  
Page 251, line 9 from bottom. Instead of "portion" read "portions."  
Page 268, line 33. Opposite "*Conocardium concinnum*" insert the reference, "pl. 68, figs. 26, 27."  
Page 272, 3rd column, line 11. Instead of "Fig'd Sp. and G. T." read "Gen. and Sp. Type."  
Page 284, 9th column, line 16. Instead of "1-3" read "1, 3."

### Pages 286 and 287.

### *Megalodon* J. Sowerby.

*Megalodon cucullatus* (Goldfuss) Hall, Pal. N. Y., Vol. 5, pt. 1, pl. 52, fig. 9. Paffrath, Germany. Devonian system. Cat. No.  $\frac{52}{146}$ . The umbonal portion of a left valve.

- Page 294, line 1. After "**Nuculites** Conrad" insert "*Continued.*"
- Page 303, line 8. Instead of "*Gosseletia*" read "*Gosselettia.*"
- Page 308, 3d column, line 8 from bottom. Instead of "Fig'd Sp. and G. T." read "Gen. & Sp. Type."
- Page 316, line 27. Instead of "**Orthonychia**" read "*Orthonychia.*"
- Page 350, lines 9, 14 and 16. Insert "Type" after the Cat. No.
- Page 350, line 15 from bottom. Instead of "deforme" read "*deforme.*"

## Pages 362 and 363.

**Zaphrentis** spinulifera *Hall*, Geol. Ia., Vol. 1, pt. 2, p. 650, pl. 22, figs. 1a, b. Warsaw, Ill. Warsaw group. Cat. No.  $\frac{5705}{1}$ . Nearly entire.

On line with "Class CRINOIDEA" insert "Subkingdom ECHINODERMATA."

Page 365, line 11 from bottom. Instead of "*Actocrinus*" read "*Actino-crinus.*"

## Pages 370 and 371.

**Pentremites** conoideus *Hall*, Geol. Ia., Vol. 1, pt. 2, p. 655, pl. 22, figs. 9, 10. Spergen Hill, Ind. St. Louis Group. Cat. No.  $\frac{5701}{1}$ . Type. An entire body.

**Pentremites** longicostalis *Hall*, Ia. Sup., p. 85. Warsaw, Ill. Warsaw Group. Cat. No.  $\frac{5702}{1}$ . Type. Two fragments, imbedded together.

**Pentremites** cherokeus (*Troost*) *Hall*, Geol. Ia., Vol. 1, pt. 2, p. 691, pl. 25, figs. 12a-c. Chester, Ill. Chester Group. Cat. No.  $\frac{5707}{1}$ . Fig'd Sp. An entire body.

**Pentremites** Godoni (*DeFrance*) *Hall*, Geol. Ia., Vol. 1, pt. 2, p. 692, pl. 25, figs. 13a, b. Chester, Ill. Chester Group. Cat. No.  $\frac{5703}{1}$ . Fig'd Sp. An entire body.

**Pentremites** symmetricus *Hall*, Geol. Ia., Vol. 1, pt. 2, p. 694, pl. 25, fig. 14. Crittenden County, Ky. Chester Group. Cat. No.  $\frac{5708}{1}$ . Type. An entire body.

## Pages 372 and 373.

**Archimedes** laxa *Hall*, as *Fenestella* (*Archimedes*) *laxa* Hall, A. A. S., Vol. 10, pt. 2, p. 178. Chester, Ill. Chester Group. Cat. No.  $\frac{5710}{1}$ . Type. Fragment 55 mm. long, imbedded.

**Archimedes** Meekana *Hall*, as *Fenestella* (*Archimedes*) *Meekana* Hall, A. A. S., Vol. 10, pt. 2, p. 178. Kaskaskia, Ill. Chester Group. Cat. No.  $\frac{5711}{1}$ . Type. Fragment 50 mm. long, imbedded.

- Fenestella* (*Archimedes*) *laxa*.....See *Archimedes laxa*.  
 " " *Meekana*.....See *Archimedes Meekana*.  
 " (*Lyropora*) *lyra*.....See *Lyropora lyra*.  
 " " *quincuncialis*.....See *Lyropora quincuncialis*.  
 " " *subquadrans*.....See *Lyropora subquadrans*.

**Lyropora** *lyra* Hall, as *Fenestella (Lyropora) lyra* Hall, A. A. A. S., Vol. 10, pt. 2, p. 179. Chester, Ill. Chester Group. Cat. No. 5712. Gen. and Sp. Type. Two fragments.

**Lyropora** *quincuncialis* Hall, as *Fenestella (Lyropora) quincuncialis* Hall, A. A. A. S., Vol. 10, pt. 2, p. 180. Chester, Ill. Chester Group. Cat. No. 5713. Type. Two large fronds, imbedded separately, and two fragments.

**Lyropora** *subquadrans* Hall, as *Fenestella (Lyropora) subquadrans* Hall, A. A. A. S., Vol. 10, pt. 2, p. 180. Chester, Ill. Chester Group. Cat. No. 5714. Type. Two fragments, imbedded separately.

*Athyris sublamellosa*.....See *Cleiothyris Roissyi*.

Pages 374 and 375.

**Cleiothyris** *Roissyi* *l'Éveillé*, as a type of *Athyris sublamellosa* Hall, Geol. Ia., Vol. 1, pt. 2, p. 702, pl. 27, figs. 1a-c. Chester Group. Crittenden County, Ky. Cat. No. 5715. Fig'd Sp. An entire individual.

Pages 394 and 395.

**Mytilus** Linn.

**Mytilus** *occidentalis*.....See *Mytilarca occidentalis*.

Page 410, line 4 from bottom. Instead of "Protëus" read "Proëtus."

Pages 412 and 413.

**Dërbya** ? *biloba* Hall, as *Streptorhynchus biloba* Hall, St. G. N. Y., Vol. 2, pl. 41, figs. 4, 5. Hall & Clarke, Pal. N. Y., Vol. 8, pt. 1, p. 350, pl. 11, figs. 4, 5. Given a verbal description and referred provisionally to the genus *Derbya*. Winterset, Iowa. Coal Measures. Cat. No. 5716. Type. An entire individual.

Under *Lamellibranchiata* insert:

**Astartella** Hall.

**Astartella** *vera* Hall, Geol. Ia., Vol. 1, pt. 2, p. 715, pl. 29, figs. 1a-c. Rush Creek, Ind. Coal Measures. Cat. No. 5717. Gen. and Sp. Type. A right valve and an entire individual.

**Dolabra** McCoy.

**Dolabra** *alpina*.....See *Schizodus alpinus*.

**Schizodus** King.

**Schizodus** *alpinus* Hall, as *Dolabra? alpina* Hall, Geol. Ia., Vol. 1, pt. 2, p. 716, pl. 29, fig. 2. Alpine Dam, Des Moines River, Iowa. Coal Measures. Cat. No. 5718. Type. A left valve, imbedded.

Page 413, line 13. Instead of the query read "Wabash cut-off, Posey Co., Ind.," and to the remark add "The specimen is a good *Productus Rogersi*."

Page 420. The genus *Corbula* is out of order.

Page 426, line 7. Instead of "Stoliczke" read "Stoliczka."

Pages 428 and 429. After "*Fusus tenuilineatus*" insert "*Gladius cheyennensis*.....See *Cryptorhytis cheyennensis*."

Pages 434 and 435.

*Helicoceras Stevensoni* Whitfield, Bul. A. M. N. H., Vol. 14, p. 218, pl. 29, 30. Beaver Creek, Wyoming. Fort Pierre group. Cat. No. <sup>571B</sup>. Fig'd Sp. The specimen as described.

Page 450, line 18. Instead of "*Protocardia*" read "*Protocardium*."

#### NOTES.

The new species described in White and Whitfield's paper on the Kinderhook fossils at Burlington, Iowa, Proceedings of the Boston Society of Natural History, Vol. 8, pp. 291-306, 1862, were founded on specimens from both the Hall and the White collections, and no figures were published at the time; see second paragraph on p. 289 of the geological portion of the article cited. Professor White's collection was afterwards sold to the University of Michigan, and that of Professor Hall to the American Museum of Natural History. This accounts for the fact that while some types of certain species are in this Museum and are therefore entered in this Catalogue, other types of the same species are in the collections of the University of Michigan, and have been quoted from there by Dr. Stuart Weller in his paper on the Fauna of the Chonopectus sandstone at Burlington, Iowa, in Trans. Acad. Sci., St. Louis, Vol. 10, pp. 57-129, pl. 1-9, 1900.

Page 418. *Caprinella*. D'Orbigny proposed this name in 1847 (vid. Paléont. Franc., Terr. Cret., t. 4, p. 189) to take the place of *Ichthyosarcolites* Desmarests, which he discarded as barbarous and inapplicable to a genus of fossil shells.

ABBREVIATIONS USED IN PART IV WHICH HAVE  
NOT BEEN EXPLAINED IN PRECEDING PARTS.

GEOLOGICAL SUBDIVISIONS.

C. M.	Coal Measures.
CHEST.	Chester.
CLAIB.	Claiborne.
CRET.	Cretaceous.
EOC.	Eocene.
F. H.	Fox Hills=Cretaceous No. 5 of M. & H.
FT. B.	Ft. Benton=Cretaceous No. 2 of M. & H.
FT. P.	Ft. Pierre=Cretaceous No. 4 of M. & H.
KEOK.	Keokuk.
KIND.	Kinderhook.
L. M.	Lower Marls (Cretaceous).
M. M.	Middle Marls (Cretaceous).
MIOC.	Miocene.
PLEIST.	Pleistocene.
PLIOC.	Pliocene.
RIPL.	Ripley.
ST. L.	St. Louis.
U. M.	Upper Marls (Cretaceous).
WAV.	Waverly.

AUTHORS' NAMES.

BD. & SY.	Broderip & Sowerby.
C. H. H.	Charles H. Hitchcock.
DILLW.	Dillwyn.
GMEL.	Gmelin.
H. & M.	Hall & Meek.
HEILP.	Angelo Heilprin.
HS.	F. S. Holmes.
K. & S.	Kurtz & Stimpson.
L. & C.	Lyon & Casseday.
LESQ.	Leo Lesquereux.
LONS.	Lonsdale.
M. & H.	Meek & Hayden.
MCC.	J. H. McChesney.
MORT.	S. G. Morton.
N. & O.	Norwood & Owen.
OW. & SH.	Owen & Shumard.
PULT.	Pulteney.
RAV.	Edmund Ravenel.
SHUM.	B. F. Shumard.
STERN.	Sternberg.
T. & H.	Tuomey & Holmes.
W. & ST. J.	White & St. John.
W. & W.	White & Whitfield.
WINCH.	Alexander Winchell.
SOL.	Solander.

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