

INSTRUCTIONS

FOR USING

M. DESHAYES'S TABLES OF SHELLS,

APPENDIX I.

THE object of these Tables is to give a list, *not* of the *characteristic* shells of the different tertiary formations, of which some figures are given in plates 1, 2, and 3, but to show the connexion of different periods by indicating the shells *common* to two or more periods, or common to some tertiary period and to the *recent* epoch.

The names also of a considerable number of species are given, as being found common to two or more formations of the *same* tertiary period. The localities where the fossil species are met with, and the known habitations of the living species, are also given.

No allusion is made to any *secondary* fossil shells; the word *fossil*, therefore, must always be understood to refer to tertiary formations.

The number of species of recent and fossil shells which were examined and compared in constructing these tables amounted to 7,816, as follows:—

	Living Species.				Fossil Species.			
Univalves	.	3,616	.	.	.	.	.	2,098
Bivalves	.	1,164	.	.	.	.	.	938
		<u>4,780</u>						<u>3,036</u>

Of these 3,036 fossil species, 426 were identified with individuals found among the 4,780 living species; 123 of them are only known in a fossil state, but are mentioned as being common to more than one tertiary *period*; and 233 are enumerated by name, although not common to two tertiary periods, or to some tertiary period and the recent epoch, merely because they have been found in two or more formations of the *same*

period. Thus the number of fossil species named in the tables amounts to 782, consisting of—

Species found both living and fossil	426
Species fossil only, but common to more than one tertiary period	123
Species fossil only, and named merely as found in two or more formations of the same period	233
	782

A few will be found without specific names, because they have not yet been described or named by any authors.

The tables are continuous from p. 2 to p. 45, and the description of each species extends across two pages.

The following examples will best illustrate the object of the tables. If we take the first genus, *Aspergillum* (p. 2), we find that—

Column 1 gives the name of the genus.

- „ 2 shows that four living species of the genus are known to M. Deshayes.
- „ 3 that he has seen one fossil species.
- „ 4 is left blank, because the single fossil species has not yet been identified with any living species.
- „ 5 is also blank, because the fossil species is only known in one period or formation.
- „ 6 is also blank, because the fossil species not having been identified with a living species, it was unnecessary to mention the habitation of any of the four living species.

The columns of the three periods are left blank, because the fossil species has not been found in more than one period. In the column of localities on the right of the right-hand page, in the subdivision headed Bordeaux, the figure 1 denotes that one species of fossil *Aspergillum* has been found in that locality.

To select another example: if we take the genus *Solen* (p. 2), we find that—

- Column 2 shows that twenty-six living species of the genus are known to M. Deshayes.
- „ 3 that he has seen nineteen fossil species of the genus.

Column 4 gives the name of the species *Solen vagina*, because that species is found both living and fossil.

- „ 5 is left blank, because the names of those species only are placed in this column which have no living analogues, but are found in more than one period, or in more than one *formation of the same period*. [Thus, in the next line, *Solen siliquarius* has no living analogue, but it occurs in two formations of the Miocene period, viz. at Bordeaux and in Touraine.]
- „ 6 shows that the *living* species of *Solen vagina* inhabits the European Ocean and Mediterranean.

The two asterisks in the column of the Pliocene period show that the species is found in two formations of that period, viz. in the Subapennine hills and the English crag.

The asterisk in the column of the Miocene period shows that this species is found in the basin of Vienna.

The word Baden in the next column indicates that the species is also found fossil in that locality.

The column of the Eocene period is blank, because the shell has not been found in any formation belonging to that period.

The figures in the column of localities will be understood by what we said above. In summing up these figures it will be found that they amount to thirty-one, whereas it is stated, in the third column of the left-hand page, that only nineteen fossil species have been found. The disagreement arises from this—that the same species occur in more than one locality, and thus come to be counted more than once in the column of localities.

N. B. In some cases, before the totals of the species in the columns of localities can tally with the figures in the third column, the species enumerated in the supplementary table of localities, p. 46, must be taken into account.

A note of interrogation added to the asterisk (*?) indicates a doubt as to the correct identification of the shell, either because the shell is a variety which has a somewhat distant analogy to the recognized type of

the species, or because the specimen examined was in rather an imperfect state.

The specific names of the tertiary fossil shells which have been found by M. Deshayes to belong to one period only, and for which he has not yet discovered any living analogues, are *not* given, as their enumeration would have required more space than could be allotted to such a subject in a treatise on Geology; but their aggregate number is included in the subdivisions of the column in the right-hand page headed 'No. of species in each genus in the following localities,' and in the supplementary table, p. 46.

APPENDIX I.

TABLES OF FOSSIL SHELLS,

BY

MONS^{RS} G. P. DESHAYES,

Member of the Geological Society of Paris, &c.

N.B. For a full explanation of the object of these Tables, and instructions as to the manner of using them, see the preceding four pages.

*

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.			
	Living.	Fossil (tert.).				Sicily.	Italy, Subap.	English Crag.	Various Localities.
Corbula . . .	10	35	nucleus . . .	. . . . .	Mediterr. European Seas	*	*	. . .	. . . . .
— . . . . .	. . .	. . .	. . . . .	complanata	. . . . .	. . .	*	. . .	. . . . .
— . . . . .	. . .	. . .	. . . . .	striata . . .	. . . . .	. . .	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	. . . . .	new species	. . . . .	. . .	. . .	. . .	. . . . .
Pandora . . .	7	3	new species	. . . . .	Mediterr.	*	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	rostrata . . .	. . . . .	Mediterr. European Ocean	*	*	. . .	. . . . .
Saxicava . . .	5	11	minuta . . .	. . . . .	ibid.	*	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	pholadis . . .	. . . . .	ibid.	*	. . .	. . .	. . . . .
Petricola . . .	13	10	ochroleuca	. . . . .	Mediterr.	. . .	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	lamellosa . . .	. . . . .	ibid.	*	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	striata . . .	. . . . .	European Ocean	. . .	. . .	. . .	. . . . .
Venerupis . . .	8	6	Irus . . . . .	. . . . .	ibid. Mediterr.	*	. . .	. . .	. . . . .
Sanguinolaria	2	2	. . . . .	. . . . .	. . . . .	. . .	. . .	. . .	. . . . .
Psammobia . . .	18	4	vespertina	. . . . .	Mediterr. European Ocean	*	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	muricata . . .	. . . . .	ibid.	. . .	*	. . .	. . . . .
Psammotæa	8	1	. . . . .	. . . . .	. . . . .	. . .	. . .	. . .	. . . . .
Tellina . . .	68	54	strigosa . . .	. . . . .	Senegal	. . .	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	planata . . .	. . . . .	Mediterr.	. . .	*	. . .	. . . . .
— . . . . .	. . .	. . .	lacunosa . . .	. . . . .	African Ocean	. . .	*	. . .	. . . . .
— . . . . .	. . .	. . .	Oudardii . . .	. . . . .	Mediterr.	. . .	*	. . .	. . . . .
— . . . . .	. . .	. . .	tenuis . . . . .	. . . . .	Mediterr. European Ocean	*	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	pulchella . . .	. . . . .	ibid.	. . .	*	. . .	. . . . .
— . . . . .	. . .	. . .	Lantivii . . .	. . . . .	ibid.	. . .	*	. . .	. . . . .
— . . . . .	. . .	. . .	serrata . . .	. . . . .	ibid.	. . .	*	*	. . . . .
— . . . . .	. . .	. . .	exilis . . . . .	. . . . .	Unknown	. . .	*	. . .	. . . . .
— . . . . .	. . .	. . .	new species	. . . . .	Senegal	. . .	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	carnaria . . .	. . . . .	European Ocean Mediterr.	. . .	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	subrotunda	. . . . .	. . . . .	. . .	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	new species	. . . . .	. . . . .	. . .	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	elliptica . . .	. . . . .	. . . . .	. . .	*	. . .	. . . . .
— . . . . .	. . .	. . .	bipartita . . .	. . . . .	. . . . .	. . .	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	donacina . . .	. . . . .	Mediterr.	. . .	*	. . .	. . . . .
Tellinides . . .	1		. . . . .	. . . . .	. . . . .	. . .	. . .	. . .	. . . . .
Corbis	2	2	. . . . .	pectunculus	. . . . .	. . .	. . .	. . .	. . . . .
Lucina	20	59	tigrina . . . . .	. . . . .	Indian Ocean, Senegal	. . .	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	punctata . . .	. . . . .	ibid.	. . .	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	columbella	. . . . .	Senegal	. . .	. . .	. . .	. . . . .
— . . . . .	. . .	. . .	divaricata . . .	. . . . .	Almost all Seas	*	*	. . .	Morea, Baden Perpignan
— . . . . .	. . .	. . .	lactea . . . . .	. . . . .	Mediterr.	. . .	*	*	. . . . .
— . . . . .	. . .	. . .	gibbosa . . .	. . . . .	Unknown	. . .	*	*	. . . . .
— . . . . .	. . .	. . .	squamosa . . .	. . . . .	Mediterr.	. . .	*	. . .	. . . . .
— . . . . .	. . .	. . .	radula . . . . .	. . . . .	ibid.	. . .	*	. . .	. . . . .

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.			
	Living.	Fossil (tert.).				Sicily.	Italy, Subap.	English Crag.	Various Localities.
<i>Lucina, cont.</i>	..	..	amphidesmoides	. . . . .	Mediterr. . .	*	*	..	. . . . .
_____	..	..	scopulorum	. . . . .	. . . . .	..	..	..	. . . . .
_____	..	..	hiatelloides	. . . . .	. . . . .	..	*	..	. . . . .
_____	..	..	lupinus.	. . . . .	. . . . .	*	*	..	Ischia . . .
<i>Donax</i>	29	15	elongata	. . . . .	Senegal . . .	..	..	..	. . . . .
_____	..	..	transversa	. . . . .	. . . . .	..	..	..	. . . . .
_____	..	..	new species	. . . . .	. . . . .	..	..	..	. . . . .
<i>Capsa</i>	2								
<i>Astarte</i>	3	19	incrassata	. . . . .	Mediterr. . .	..	*	..	. . . . .
_____	..	..	new species	. . . . .	ibid. . . . .	*	*	..	. . . . .
_____	..	..	new species	. . . . .	. . . . .	*	*	..	. . . . .
_____	..	..	Danmoniensis	. . . . .	Temp. Europe	..	*?	..	. . . . .
_____	..	..	scalaris	. . . . .	. . . . .	..	..	..	. . . . .
<i>Cyclas</i>	13	2							
<i>Cyrena</i>	14	25	Gravesii	. . . . .	. . . . .	..	..	..	. . . . .
_____	..	..	cuneiformis	. . . . .	. . . . .	..	..	..	. . . . .
_____	..	..	antiqua	. . . . .	. . . . .	..	..	..	. . . . .
_____	..	..	Brongniarti	. . . . .	. . . . .	..	..	..	. . . . .
_____	..	..	semistriata	. . . . .	. . . . .	..	..	..	. . . . .
<i>Galathea</i>	1								
<i>Cyprina</i>	2	7	Islandica	. . . . .	North Seas .	..	*	..	. . . . .
_____	..	..	scutellaria	. . . . .	. . . . .	..	..	..	. . . . .
_____	..	..	Pedemontana	. . . . .	. . . . .	..	*	..	. . . . .
_____	..	..	gigas	. . . . .	. . . . .	..	*	..	Perpignan .
<i>Cytheræa</i>	85	59	Erycina	. . . . .	Indian Ocean	..	*	..	. . . . .
_____	..	..	Chione	. . . . .	Senegal, Medit.	*	*	..	Morea, Perpignan
_____	..	..	nitidula	. . . . .	Unknown . . .	..	..	..	. . . . .
_____	..	..	citrina	. . . . .	New Holland	..	..	..	. . . . .
_____	..	..	exoleta	. . . . .	Mediterr. . .	*	*	*	. . . . .
_____	..	..	concentrica	. . . . .	European Ocean	..	..	..	. . . . .
_____	..	..	lincta	. . . . .	Indian Ocean	..	*	..	. . . . .
_____	..	..	rufescens	. . . . .	Medit. Senegal	*	*	..	. . . . .
_____	..	..	multilamella	. . . . .	Mediterr. . .	..	*	..	. . . . .
_____	..	..	elegans	. . . . .	Indian Ocean	*	*	..	. . . . .
_____	..	..	deltoidea	. . . . .	. . . . .	..	..	..	. . . . .
_____	..	..	suberycinoides	. . . . .	. . . . .	..	..	..	. . . . .
_____	..	..	Venetiana	. . . . .	Mediterr. . .	*	..	..	. . . . .
<i>Venus</i>	101	43	verrucosa	. . . . .	Mediterr. . .	*	*	*?	Ischia . . .
_____	..	..	plicata	. . . . .	European Ocean	..	..	..	Morea,
_____	..	..	gallina	. . . . .	Indian Ocean	..	*	..	Perpignan
_____	..	..	decussata	. . . . .	South Europ. Oc.	..	*	..	. . . . .
_____	..	..			Europ. Oc. Aust.	..	..	..	. . . . .
_____	..	..			Seas, Lam.	..	..	..	. . . . .

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.			
	Living.	Fossil (tert.)				Sicily.	Italy, Subap. English Crag.	Various Localities.	
Venus, cont.			radiata . . . . .	. . . . .	Mediterr.	*	*	
_____			Brongniarti . . . . .	. . . . .	ibid.	*	*	
_____			dysera . . . . .	. . . . .	Indian Ocean, Mediterr.	*	*	
_____			. . . . .	Casinoides . . . . .	. . . . .			. . . . .
_____			. . . . .	vetula . . . . .	. . . . .			. . . . .
_____			. . . . .	new species . . . . .	. . . . .			. . . . .
_____			. . . . .	rotundata . . . . .	. . . . .	*	*	. . . . .
_____			geographica . . . . .	. . . . .	Mediterr.	*	*	
_____			Paphia . . . . .	. . . . .	Indian Ocean . . . . .			. . . . .
Venericardia et Cardita	25	50	sulcata . . . . .	. . . . .	Mediterr.	*	*	Salles, Perpignan
_____			Ajar . . . . .	. . . . .	Senegal			
_____			trapezia . . . . .	. . . . .	Mediterr.	*	*	
_____			squamosa . . . . .	. . . . .	African Ocean	*	*	
_____			crassa . . . . .	. . . . .	Mediterr.	*	*	
_____			. . . . .	Jouanetti	Indian, Afric. & Australian Ocean			
_____			. . . . .	hippepa				
_____			. . . . .	planicosta				
_____			. . . . .	Coravium				
_____			. . . . .	acuticosta				
_____		intermedia . . . . .	. . . . .	New Holland	*	*		
_____		. . . . .	angusticosta . . . . .	. . . . .			. . . . .
_____		. . . . .	imbricata . . . . .	. . . . .			. . . . .
_____		. . . . .	new species		*		
Cardium	53	39	ringens . . . . .	. . . . .	Senegal . . . . .			. . . . .
_____			ciliare . . . . .	. . . . .	European Ocean	*	*	
_____			echinatum . . . . .	. . . . .	ibid. Senegal	*	*	
_____			sulcatum . . . . .	. . . . .	European Ocean	*	*	Salles, Morea, Perpignan
_____			edule	ibid. Medit.	*	*		Morea
_____			tuberculatum . . . . .	. . . . .	ibid.	*	*	
_____			multicostatum	*	*
_____			planatum	Mediterr.	*	*
_____			discrepans
_____			hians	*	*	Perpignan, Morea
_____			. . . . .	semigranulatum . . . . .	. . . . .	. . . . .	
_____			porulosum
_____			obliquum
_____			Lima
_____	. . . . .	verrucosum . . . . .	. . . . .	. . . . .			. . . . .
Cypricardia	4	7	coralliophaga . . . . .	. . . . .	Mediterr.	*	*	
_____			new species	ibid.	*	*
_____			affinis	*	*

MIOCENE PERIOD.					EOCENE PERIOD.			No. of Species in each Genus in the following Localities.															
Bordeaux, Dax.	Touraine.	Turin.	Vienna.	Various Localities.	Paris.	London.	Various Localities.	Stilly.	Italy, Subap.	English Crag.	Ruden.	Bordeaux.	Dax.	Touraine.	Turin.	Ronca.	Vienna.	Angers.	Paris.	London.	Valognes.	Belgium.	
*	*	*	*	{ Angers Volhynia }	*	*	*																
*	*	*	*	*	*	*	*	6	8	3	1	1	1	5	8	...	2	3	9	4	2		
*	*	*	*	*	*	*	*																
*	*	*	*	Moravia	*	*	*																
*	*	*	*	*	*	*	*																
*	*	*	*	Moravia	*	*	*																
*	*	*	*	*	*	*	*	3	7	5	..	6	6	5	3	1	4	5	16	5	8	2	
*	*	*	*	*	*	*	{ Valognes, Belgium Valognes ibid.																
*	*	*	*	*	*	*	{ Valognes, Belgium Castelgomberto																
*?	..	*?	*?	*	*	*	*																
*?	*?	..	*	Volhynia	*	*	*																
*	*	*	*	*	*	*	*																
*	*	*	*	*	*	*	*	4	11	3	..	6	7	3	...	5	..	17	6	7	1		
*	*	*	*	*	*	*	*																
*	*	*	*	*	*	*	{ Valognes Valognes *? Castelgomberto																
*	*	*	*	*	*	*	*	2	2	...	1	2	1	..	1	...	2						
*	*	*	*	*	*	*	*																

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tert.)				Sicily.	Italy, Subap.	English Crag.	Various Localities.
Hiatella . . .	1							
Isocardia . . .	2	3	cor		European Ocean	*	*?	Maryland? .
_____ . . .				new species				
Cucullæa . . .	1	2						
Arca	43	54	semitorta		New Holland, L. Mediterr.			Salles? . .
_____			Noë		Indian Ocean	*	*	
_____			tetragona		ibid. ibid.	*	*	
_____			umbonata		Jamaica, Senegal			
_____			barbata		European Ocean, Senegal	*	*	Perpignan .
_____			Magellanica		Magellan			
_____			Helbingii		Afr. Oc. Senegal			
_____			antiquata		Ind. & Afr. Oc. Mediterr.	*	*	{ Perpignan, Morea
_____			rhombea		Indian Ocean			
_____			clathrata		Unknown			
_____			new species		Mediterr.	*		
_____			Gaymardi		ibid.	*		
_____			Quoyi		ibid.	*		
_____				new species				
_____				biangula				
_____				punctifera				
_____				quadrilatera				
_____				barbatula				
Pectunculus	19	27		new species				
_____			glycimeris		Mediterr. Europ. Ocean	*	*	{ Perpignan, Morea
_____			pilosus		ibid. ibid.	*	*	
_____			violacescens		Northern Europe	*	*	
_____					Mediterr.	*	*	
_____				pulvinatus				
_____				terebratularis				
_____				angusticostatus				
_____				cor				
_____				new species				
_____			nummarius		Mediterr.	*		
_____				dispar				
Nucula	7	23	margaritacea		European Ocean	*	*	
_____			Pella		Mediterr.	*	*	
_____			emarginata		ibid.	*	*	
_____			new species		ibid.	*		
_____				ovata				
Trigonia	1							
Castalia	1							
Unio	65	2						

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tert.)				Sicily.	Italy, Subap.	English Crag.	Various Localities.
Anodonta	19	1	.....	.....	.....	..	..	.....
Hyria	3	..	.....	.....	.....	..	..	.....
Iridina	3	..	.....	.....	.....	..	..	.....
Chama	15	20	gryphoides	.....	Mediterr.	*	*	.....
————	.....	.....	crenulata?	.....	Senegal	..	..	.....
————	.....	.....	sinistrorsa	.....	Mediterr.	*	*	Morea
————	.....	.....	new species	.....	ibid.	*	*	.....
————	.....	.....	.....	echinulata	.....	..	*	.....
————	.....	.....	.....	rustica	.....	..	..	.....
————	.....	.....	.....	lamellosa	.....	..	..	.....
Etheria	4	.....	.....	.....	.....	..	..	.....
Tridacna	7	2	.....	.....	.....	..	..	.....
Hippopus	1	.....	.....	.....	.....	..	..	.....
Modiola	29	21	barbata	.....	Mediterr.	..	*	.....
————	.....	.....	discrepans	.....	ib. New Holland	..	..	.....
————	.....	.....	lithophaga	.....	Mediterr. Indian & African Ocean	..	*	.....
————	.....	.....	.....	argentina	.....	..	..	.....
Mytilus	42	15	Chemnitzii	.....	Riv. of Germany	..	..	{ Baden, Central Austria
————	.....	.....	edulis	.....	European Ocean	..	*	.....
————	.....	.....	.....	new species	.....	..	*	.....
————	.....	.....	.....	Brardii	.....	..	..	.....
Pinna	16	3	nobilis	.....	Mediterr.	*?	*?	Morea
————	.....	.....	.....	margaritacea	.....	..	..	.....
Crenatula	7	.....	.....	.....	.....	..	..	.....
Perna	10	4	.....	.....	.....	..	..	.....
Malleus	6	.....	.....	.....	.....	..	..	.....
Avicula et Meleagrina	30	5	.....	.....	.....	..	..	.....
Lima	8	13	inflata	.....	Mediterr.	*	*	.....
————	.....	.....	squamosa	.....	ibid. Afr. Ocean	*?	..	.....
————	.....	.....	linguatula	.....	Australian Seas	*	..	.....
————	.....	.....	nivea	.....	Mediterr.	*	*	.....
————	.....	.....	.....	plicata	.....	..	..	.....
Pecten	67	60	Jacobæus	.....	European Ocean	*	*	Perpignan
————	.....	.....	Laurentii	.....	American Seas	*?	..	Corsica?
————	.....	.....	pleuronectes	.....	Mediterr.	..	..	.....
————	.....	.....	opercularis	.....	Indian Ocean	*	*	.....
————	.....	.....	inflexus	.....	European Ocean	*	*	{ Salles, Perpignan, Morea
————	.....	.....	varius	.....	Mediterr.	*	..	.....
————	.....	.....	.....	.....	European Ocean	*	*	Morea
————	.....	.....	ornatus	.....	Mediterr.	*	..	.....

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tert.)				Sicily.	Italy, Subap. English Crag.	Various Localities.
Pecten, <i>cont.</i>			coarctatus		Mediterr.	*	*	
—			Bruei		ibid.	*	*	
—			Dumasii		ibid.	*	*	
—			distans		ibid.	*	*	
—			pusio		ibid.	*	*	
—			flabelliformis			*	*	
—			scabrellus			*	*	Perpignan, Morea
—			Burdigalensis			*	*	
—			nodosus		Indian Ocean	*?	*	
—			benedictus			*	*	Perpignan
—			striatus			*	*	
—			inæquicostalis			*	*	Perpignan, Salles
—			plebeius			*	*	
—			laticostatus			*	*	Perpignan
Plicatula	5	7	new species			*	*	
Spondylus	25	9	gæderopus		Mediterr.	*	*	
—			new species			*	*	
—			radula			*	*	
Gryphæa	1	3				*	*	
Ostrea	54	72	cornucopiæ		Indian Ocean	*	*	
—			edulis		European Ocean	*	**?	
—			Virginica		American Ocean	*	*	
—			hippopus		European Ocean	*	*	Corsica
—			fiabellula			*	*	
—			gigantea			*	*	
—			edulina			*	*	
—			Bellovacina			*	*	
—			dorsata			*	*	
—			navicularis		Mediterr.	*	*	
—			Forskali		African Ocean, Red Sea	*	*	
—			Virginiana			*	*	
—			undata			*	*	
—			new species			*	*	
—			new species		Mediterr. Indian Ocean	*	*	Perpignan, Salles, Morea
Hinnites	2	4	Cortesi			*	*	
Vulsella	5	1				*	*	
Placuna	3	1	papyracca		Red Sea	*	*	Egypt
Anomia	10	8	ephippium		Mediterr. European Ocean	*	*	Perpignan
—			electrica		ibid.	*	*	
—			costata			*	*?	
—			dubia			*	*	

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.				
	Living.	Fossil (tert.).				Sicily.	Italy, Subap.	English Crag.	Various Localities.	
Anomia cont.	..	..	..	striata . . .	..	..	..	..	..	..
Crania . . .	3	3	personata . .	..	Mediterr. . .	*	..	..	..	..
Orbicula . . .	2	..	..	..	..	..	..	..	..	..
Terebratula . . .	15	18	vitrea . . . .	..	Mediterr. . .	*	*?	..	..	..
————— . . . .	..	..	caput serpentis	..	ibid. . . . .	*	..	..	..	..
————— . . . .	..	..	truncata . . .	..	ibid. . . . .	*	..	..	..	..
————— . . . .	..	..	..	..	..	*	*	..	..	Morea . . .
Thecidea . . .	1	1	Mediterranea	..	Mediterr. . .	*	..	..	..	..
Lingula . . .	1	..	..	..	..	..	..	..	..	..
Hyalæa . . .	10	2	..	..	..	..	..	..	..	..
Cleodora . . .	14	3	lanceolata . .	..	African Ocean	..	*	..	..	Asti
————— . . . .	..	..	..	strangulata .	..	..	..	..	..	..
————— . . . .	..	..	..	new species .	..	..	*	..	..	..
Limacina . . .	1	..	..	..	..	..	..	..	..	..
Cymbulia . . .	1	..	..	..	..	..	..	..	..	..
Chitonellus . .	1	..	..	..	..	..	..	..	..	..
Chiton . . .	35	1	..	..	..	..	..	..	..	..
Dentalium . .	23	34	elephantinum	..	Indies, Mediterr.	..	*	..	..	Morea
————— . . . .	..	..	..	sexangulare .	..	..	*	*	..	ibid.
————— . . . .	..	..	..	dentalis . . .	Mediterr. . .	..	*	*	..	Maryland . .
————— . . . .	..	..	..	fossile . . . .	..	..	*	*	..	..
————— . . . .	..	..	..	novem costatum	European Ocean	..	*	..	..	..
————— . . . .	..	..	..	pseudo-entalis	..	..	..	..	..	..
————— . . . .	..	..	..	entalis	European Ocean	..	*	*?	..	Morea
————— . . . .	..	..	..	incertum . . .	..	..	..	..	..	..
————— . . . .	..	..	..	eburneum . . .	Indian Seas	..	..	..	..	..
————— . . . .	..	..	..	fissura	ibid. . . . .	..	..	..	..	..
—————
————— . . . .	..	..	..	coarctatum . .	..	..	*	..	..	..
————— . . . .	..	..	..	strangulatum	Mediterr. . .	..	*	*	..	Morea
————— . . . .	..	..	..	Bouei . . . . .	..	..	*	..	..	..
Patella . . .	104	10	equalis . . . .	..	European Ocean	..	*	..	..	..
Siphonaria . .	21	3	..	..	..	..	..	..	..	..
Umbrella . . .	2	1	Mediterranea	..	Mediterr. . .	..	*	..	..	..
Parmophorus .	2	2	..	..	..	..	..	..	..	..
Emarginula . .	7	11	fissura . . . .	..	Europ. Oc. Medt.	..	*	..	..	..
Fissurella . .	33	8	Græca . . . .	..	Europ. Oc. Ind.	..	*	*	..	..
————— . . . .	..	..	costaria . . .	..	ibid. ibid. . .	..	*	*	..	..
————— . . . .	..	..	neglecta . . .	..	Mediterr. . .	..	*	*	..	..
————— . . . .	..	..	..	mitis . . . . .	..	..	*	..	..	..
Pileopsis . . .	7	6	Ungarica . . .	..	European Ocean	..	*	*	..	..

MIOCENE PERIOD.				EOCENE PERIOD.		No. of Species in each Genus in the following Localities.																		
Bordeaux, Dax.	Touraine.	Turin.	Vienna.	Various Localities.		Paris.	London.	Various Localities.		Siilly.	Italy, Subap.	English Crog.	Baden.	Bordeaux.	Dax.	Touraine.	Turin.	Ronca.	Vienna.	Angers.	Paris.	London.	Valognes.	Belgium.
..	*	*	3	3	1	1	3	3	2	..	1	1	2	2	1	1	
..	1	..	..	1	..	..	..	..	..	1	..	..	..	..
..	
..	4	7	1	..	..	..	..	..	..	1	4	..	1	..	
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	1	..	..	..	..	..	..	..
*	Baden	..	..	..	..	..	..	2	..	1	..	1	..	..	..	..	..	..	..	..
*	
..	Baden	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
..	Baden	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	
*	*	*	7	10	2	4	3	7	3	..	..	..	1	14	3	2	
*	Baden	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	
..	Moravia.	..	*	*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	Baden	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	1	..	..	..	1	..	..	..	..	5	1	2	
..	2	..	..	..	..	..	..	..	1	
..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
..	2	..	..
*	Angers	..	..	..	..	..	..	..	2	..	..	3	..	..	..	..	3	5	..	2	
*	*	
..	*	Angers	..	..	..	..	..	3	3	1	..	..	2	2	..	..	..	2	4	..	..
*	
*	Baden	..	..	..	..	..	1	2	1	1	..	2	1	..	..	..	..	3	..	..

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.					
	Living.	Fossil (tert.)				Scilly.	Italy, Subap.	English Crag.	Various Localities.		
Hipponyx	6	12	new species	cornucopiæ	European Ocean	*	*	..	..	..	..
Crepidula	14	3	sandalina		European Ocean	*	*	..	..	..	..
			gibbosa		New Zealand	*	*	..	..	..	..
					Medit. Indies						
Calyptraea	19	15	Sinensis		European Ocean	*	*	..	..	..	Morea
			muricata		ibid.	*	*	..	..	..	ibid.
			squamula		Mediterr.	*		..	..	..	..
				trochiformis							..
				deformis							..
Bullæa	2	2									..
Bulla	26	23	lignaria		European Ocean	*	*	*	..	..	..
			ampulla		ibid. and Indies	*	*	..	..	..	..
				cylindrica							..
				ovulata							..
				angistoma							..
				striatella							..
				clathrata							..
				cylindroides							..
				Lajonkairiana							..
Dolabella	10										..
Testacella	2										..
Vitrina	5										..
Helix	825	35	aspersa? var.		Temperate and Southern Europe	*		..	..	..	Teneriffe
			algira		ibid.						Cette, Nice
			cespitum		Europe	*		..	..	..	ibid. ibid.
			nemoralis		ibid.						Quercy
				Ramondi							..
				cornea	Southern Europe						Nice
				pisana	ibid.						ibid.
				lapidica	Europe						ibid.
				vermiculata	Southern Europe						ibid.
				cælatura	Bourbon	*		..	..	..	..
Anostoma	2										..
Helicina	17	1									..
Pupa	95	3	cinerea		Temp. Europe						Nice
			muscorum		ibid.						Puy-de-Dôme
Clausilia	52	2									..
Bulimus	83	3									..
Achatina	53	3	bulloides		Indies	*		..	..	..	..
Succinea	10										..
Auricula	17	18									..

OSSEOUS
breccias

MIOCENE PERIOD.				EOCENE PERIOD.		No. of Species in each Genus in the following Localities.															
Bordeaux Dax.	Touraine.	Turin.	Vienna.	Paris.	London.																
Various Localities.				Various Localities.		Sicily.	Italy, Subap.	English Crag.	Baden.	Bordeaux.	Dax.	Touraine.	Turin.	Rocca.	Vienna.	Angers.	Paris.	London.	Valognes.	Belgium.	
*	*	*	*		*	Belgium	1	1	1	1	1						8		4	1	
.	.	.	.		*	} Moravia	1	1	1	2	1				1						
*	*	*	*		.		1	1	1	2	1					1					
.	} Valognes	3	2	1	5	4	2					4	2	3		
*	*	.	*		*		..	1													
.	.	.	.		*		Valognes														
*	*	*	.		*	} Angers													1		
.	.	.	.		*		Valognes														
.	.	.	.		*	} Valognes															
*	*	.	.		*		Valognes														
.	.	.	.		*	} Castel-	3	2	1	1	3	7	2	2	..	1	..	14	5	6	
*	*	*	.		*		} gomberto														
.	.	.	.		*	Castel-															
*	*	.	.		*	} gomberto															
.	.	.	.		*		gomberto														
.	.	.	.		*	} Auvergne.															
*	*	.	*		*		Auvergne.	1	1	..	..	3	5	..	1	..	6	..	..	1	
.	} Auvergne.															
.														1
.						1	..							1
.	1	..												1
.	1	..												1
.	1	1	..	2	..	6	..							7	

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.				
	Living.	Fossil (tert.).				Sicily.	Italy, Subap.	English Crag.	Various Localities.	
Pedipes . . .	3	7	ringens . . .							
_____ . . .			buccinea . . .		Mediterr.	*	*	*		
Scarabæus . . .	3		imbrium . . .		Amboyna		*			
Cyclostoma . . .	49	6	elegans . . .		Europe				Nice . . .	
Ancylus . . .	4	3	elegans . . .							
Planorbis . . .	23	26	corneus . . .		Temp. Europe					
_____ . . .			rotundatus . . .							
_____ . . .			marginatus . . .		Europe		*		Tols, Bavaria	
_____ . . .			carinatus . . .		ibid.		*		ibid. ibid. Cette	
_____ . . .			cornu . . .							
_____ . . .			lens . . .							
_____ . . .			spirorbis . . .		Europe				Nice . . .	
_____ . . .			nitidus . . .		ibid.				Quercy . . .	
Physa . . .	9	1								
Limnea . . .	15	27	peregra . . .		Europe		*		Lauzerte . . .	
_____ . . .			auricularis . . .		ibid.		*		ibid. . . .	
_____ . . .			rivalis . . .		ibid.				Agen . . .	
_____ . . .			longiscata . . .							
_____ . . .			inflata . . .							
_____ . . .			cornea . . .							
_____ . . .			palustris . . .		Europe . . .					
Melania . . .	34	25	inquinata . . .		Philippine Isles					
_____ . . .			lactea . . .							
_____ . . .			nitida . . .							
_____ . . .			inflexa . . .		Mediterr.		*			
_____ . . .			costellata . . .							
_____ . . .			Cambessedesii . . .		Mediterr.		*	*		
_____ . . .			new species . . .		Lakes of Como and Geneva					
Rissoa . . .	23	22	lactea . . .		Mediterr.		*			
_____ . . .			cochlearella . . .		Indian Ocean		*			
Pirena . . .	3	2								
Melanopsis . . .	10	11	buccinoidea . . .		Asia, Spain, Greece		*		Greece . . .	
_____ . . .			Dufourei . . .		Alicant					
_____ . . .			costata . . .		Asia . . .		*		Greece . . .	
_____ . . .			nodosa . . .		Spain, &c.		*			
_____ . . .			acicularis . . .		Laybach					
_____ . . .			incerta . . .		Asia, Greece				Abydos . . .	
Valvata . . .	4	1	piscinalis . . .		Europe					
Paludina . . .	25	41	achatina . . .		ibid.		*	*		
_____ . . .			lenta . . .							
_____ . . .			unicolor . . .		Asia . . .					

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.			
	Living.	Fossil (tert.)				Sicily.	Italy, Subap.	English Crag.	Various Localities.
Paludina, <i>cont.</i>			<i>impura</i>		Europe	*			
Ampullaria	24	14		<i>Willemetii</i>					
Pileolus		2							
Navicella		2							
Neritina	60	17	<i>fluviatilis</i>		Europe	*			
_____				<i>conoidea</i>					
_____				<i>globulus</i>					
_____				new species					
Nerita	18	16		<i>Caronis</i>					
_____				<i>tricarinata</i>					
_____				<i>mammaria</i>					
_____				new species					
Natica	56	41	<i>millepunctata</i>		European Ocean	*	*		Morea, Perpignan
_____			<i>Guillemini</i>		Mediterr.	*			
_____			<i>canrena</i>		European Ocean	*	*		Morea, Perpignan
_____			<i>Valenciennesii</i>		Mediterr.	*	*		
_____			<i>Dilwynii</i>		English Channel	*	*		
_____			<i>glaucina</i>		ibid. and Senegal	*	*		
_____			<i>monilifera</i>		Ind. & Europ. Oc.	*	*	*	Morea, Perpignan
_____				new species	English Channel		*		
_____				<i>sigaretina</i>					
_____				<i>mamilla</i>	Indian Ocean				
_____				new species					
_____				<i>zebra</i>	Indian Ocean, Senegal		*		
_____				<i>epiglottina</i>					
_____				<i>mutabilis</i>					
_____				<i>glaucinoidea</i>					
_____				<i>intermedia</i>					
_____				new species					
Sigaretus	11	4		<i>canaliculatus</i>					
_____				<i>laevigatus</i>					
_____				<i>depressus</i>	Seas of the Molucca Islands		*		
Stomatella	6	1	{ locality unknown of fossil species						
Stomatia		2							
Haliotis	29	1	<i>tuberculata</i>		European and African Ocean	*			
Tornatella	7	11	<i>fasciata</i>		European Ocean	*	*		
_____				<i>inflata</i>			*		
_____				<i>semisulcata</i>			*		
Pyramidella	11	8		<i>terebellata</i>					
_____				<i>acicula</i>					

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tert.)				Sicily.	Italy, Subap. English Crag.	Various Localities.
New Genus. <i>Bulimus Terebellatus</i> , Lam.	1			<i>terebellatus</i>		*		
<i>Vermetus</i>	8							
<i>Siliquaria</i>	4	6	<i>anguina</i>		Mediterr. Indian Ocean	*		
<i>Magilus</i>	2							
<i>Scalaria</i>	14	22	<i>communis</i>		European Ocean	*	*?	
_____			<i>pseudoscalaris</i>		Mediterr.	*	*	
_____			<i>tenuicostata</i>		ibid.	*	*	
_____			<i>lamellosa</i>		Mediterr. Indian Ocean	*	*	
_____			<i>varicosa</i>		Unknown	*	*	
_____				<i>crassicostata</i>		*	*	
_____				<i>multilamella</i>		*	*	
_____				<i>cancellata</i>		*	*	
_____				<i>subulata</i>			*	
<i>Delphinula</i>	7	12		<i>marginata</i>			*	
<i>Solarium</i>	12	16	<i>variegatum</i>		Mediterr. Indies	*	*	
_____			<i>carocollatum</i>		Mediterr.	*	*	
_____			{ <i>pseudo per-</i> <i>spectivum</i>		ibid.	*	*	
_____				<i>umbrosum</i>		*	*	
_____				<i>new species</i>				
_____				<i>patulum</i>				
_____				<i>plicatum</i>				
_____				<i>plicatum</i>				
<i>Omalaxon</i>	5							
<i>Rotella</i>	4							
<i>Trochus</i>	103	70	<i>magus</i>		{ European Ocean, Senegal	*	*	Ischia
_____			<i>fagus</i>		Mediterr.	*	*	
_____			<i>cingulatus</i>		Adriatic	*	*	
_____			<i>agglutinans</i>		{ Mediterr. East Ind. America, &c.	*	*	
_____			<i>Adansoni</i>		Mediterr.	*	*	Ischia
_____			<i>conulus</i>		European Ocean	*	*?	
_____			<i>cinerarius</i>		ibid.	*	*	
_____			<i>conuloides</i>		ibid.	*	*	
_____			<i>Matoni</i>		ibid.	*	*	
_____			<i>zizyphinus</i>		ibid.	*	*	
_____				<i>infundibulum</i>				
_____				<i>strigosus</i>	Unknown	*	*	
_____				<i>patulus</i>		*	*	Morea
_____				<i>crenulatus</i>		*	*	
_____				<i>obliquatus</i>	Mediterr.	*	*	
_____				<i>monilifer</i>				

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tert.)				Sicily.	Italy, Subap. English Crag.	Various Localities.
Trochus, <i>conf.</i>	..	..	..	boscianus .	..	..	..	..
—	..	..	..	carinatus .	..	*	..	..
—	..	..	..	new species .	..	..	..	..
Pleurotomaria	1	..	..	..	..	..	..	..
Monodonta	42	8	..	Pharaonis .	..	*	..	..
Turbo . . .	56	34	rugosus . . .	..	Mediterr. . .	*	*	..
—	..	..	new species .	..	Indian Ocean .	*	*	..
—	..	..	costatus . . .	..	Mediterr. . .	*	*	..
—	..	..	..	sculptus . . .	..	..	..	..
Littorina .	24	10	littorea . . .	new species .	Seas of Northern Europe	..	*	..
—
—	..	..	striata . . .	..	European Ocean	..	*	..
Planaxis .	4	5	..	..	..	..	..	..
Phasianella .	9	4	pullus . . .	..	European Ocean	..	..	..
Turritella .	24	15	terebra . . .	..	ibid.	*	*	..
—	..	..	new species .	..	Senegal . . .	..	..	..
—	..	..	Ligar. . . . .	..	ibid. . . . .	..	..	..
—	..	..	..	terebellata .	..	..	..	..
—	..	..	..	imbricataria .	..	..	..	..
—	..	..	new species .	..	Mediterr. . . .	..	*	..
—	..	..	..	Desmarestina	..	..	*	..
—	..	..	..	spirata . . .	..	..	*	..
—	..	..	..	subangulata .	..	..	*	*
—	..	..	..	vermicularis .	..	..	*	..
—	..	..	..	tornata . . .	..	..	*	*
—	..	..	..	turris . . . . .	..	..	..	..
—	..	..	..	granulosa . .	..	..	..	..
Proto . . .	2	4	..	cathedralis .	..	..	..	..
Cerithium	87	220	vulgatum . . .	..	European Ocean, Senegal	*	*	Morea, Ischia
—	..	..	Latreillei . .	..	Mediterr. . . .	*	*	Ischia . . .
—	..	..	doliolum . . .	..	ibid. . . . .	..	*	..
—	..	..	giganteum . .	..	New Holland ??	..	..	..
—	..	..	..	plicatum . . .	..	..	..	..
—	..	..	..	hexagonum . .	..	..	..	..
—	..	..	..	pleurotomoides	..	..	..	..
—	..	..	..	cinctum . . . .	..	..	..	..
—	..	..	..	Cornucopiæ . .	..	..	..	..
—	..	..	..	geminatum . .	..	..	..	..
—	..	..	..	ventricosum .	..	..	..	..
—	..	..	..	Lamarckii . . .	..	..	..	..
—	..	..	..	Cordieri . . . .	..	..	..	..

MIOCENE PERIOD.				EOCENE PERIOD.		No. of Species in each Genus in the following Localities.																	
Bordeaux, Dax.	Touraine.	Turin.	Vienna.	Various Localities.	Paris.	London.	Various Localities.	Stilly.	Italy, Subap.	English, Craig.	Baden.	Bordeaux.	Dax.	Touraine.	Turin.	Ronca.	Vienna.	Angers.	Paris.	London.	Valognes.	Belgium.	
*	*																						
*	*	*						11	13	2	1	6	13	11	3	2	1	9	18	4	5		
*	*																	1					
*	*			Angers						2		1	1	3	1			1	1		1		
		*		Moravia																			
*	*			Angers				3	5			5	3	3	4	2	1	2	16	2	5		
*	*				*	*																	
*	*									2	1	1	3	1				1	3		1		
*	*												1						4				
*	*				*						1	1							2		2		
*	*																						
*	*				*	*	Valognes																
*	*				*	*	id. Belgium																
*	*							3	19	3	5	8	6	7	5	2	6	1	17	4	6	1	
*	*			Angers																			
*	*			Transylvania																			
*	*	*		{ Cracovia, Volhynia																			
*	*	*		Ronca	*																		
*	*	*										2	3	2	1	1							
*	*	*		{ Montpellier, Podolia	*	*	{ Klein-spau- nen, Mayence																
*	*	*		Ronca	*	*		4	14	2	3	27	19	11	8	7	6	9	137	11	53	4	
*	*				*	*	Valognes																
*	*				*	*	ibid.																
*	*				*	*	{ ibid. Castel- gomberto																
*	*				*	*																	
*	*				*	*	Auvergne																

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tert.).				Sicily.	Italy, Subap. English Crag.	Various Localities.
<i>Cerithium, cont</i>				<i>tricinctum</i>		*	*p	
				<i>margaritaceum</i>		*		
				<i>corrugatum</i>		*		
				<i>inconstans</i>		*		
				<i>papaveraceum</i>		*		
				<i>crenatum</i>		*		
				<i>pictum</i>		*		
			<i>alucastr</i>		Mediterr.	*		
				<i>multisulcatum</i>		*		
				<i>new species</i>		*		
			<i>granulosum</i>		Mediterr.	*	*	
				<i>inversum</i>		*		
			<i>bicinctum</i>		Mediterr.	*	*	
				<i>new species</i>		*		
				<i>new species</i>		*		
				<i>salmo</i>		*		
				<i>pupæforme</i>		*		
<i>Triforis</i>	3	2				*		
<i>Pleurotoma</i>	71	156		<i>intorta</i>		*		
				<i>cataphracta</i>		*		
				<i>rustica</i>		*		
				<i>oblonga</i>		*		
				<i>new species</i>		*		
				<i>new species</i>		*		
				<i>interrupta</i>		*		
				<i>rotata</i>		*		
				<i>reticulata</i>		*		
			<i>Cordieri</i>		Mediterr.	*		
			<i>caumarmondi</i>		ibid.	*		
			<i>vulpecula</i>		ibid.	*	*	
			<i>craticulata</i>		ibid.	*		
			<i>new species</i>		ibid.	*		
				<i>tuberculosa</i>		*		
				<i>denticula</i>		*		
				<i>Borsoni</i>		*		
				<i>new species</i>		*		
				<i>turella</i>		*		
				<i>pustulosa</i>		*		
				<i>plicata</i>		*		
				<i>new species</i>		*		
				<i>new species</i>		*		

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tert.)				Sicily.	Italy, Subap.	English Crag.	Various Localities.
<i>Pleurotoma</i>	dentata . . .	.. . . . .	..	..	.. . . . .
<i>continued</i>	clavicularis . . .	.. . . . .	..	..	.. . . . .
_____	multinoda . . .	.. . . . .	..	..	.. . . . .
_____	lineolata . . .	.. . . . .	..	..	.. . . . .
<i>Turbinella</i>	32	3	.. . . . .	.. . . . .	.. . . . .	..	..	.. . . . .
<i>Cancellaria</i>	13	42	cancellata . . .	.. . . . .	Mediterr. Senegal	*	*	.. . . . .
_____	varicosa . . .	.. . . . .	..	..	.. . . . .
_____	contorta . . .	.. . . . .	..	..	.. . . . .
_____	hirta . . .	.. . . . .	..	..	.. . . . .
_____	evulsa . . .	.. . . . .	..	..	.. . . . .
_____	Lyra . . .	.. . . . .	..	..	.. . . . .
<i>Fasciolaria</i>	7	5	.. . . . .	new species . . .	.. . . . .	..	..	.. . . . .
<i>Fusus</i>	67	111	craticulatus . . .	.. . . . .	Mediterr.	*	..	.. . . . .
_____	rostratus . . .	.. . . . .	ibid.	*	..	.. . . . .
_____	strigosus . . .	.. . . . .	ibid.	*	..	.. . . . .
_____	lignarius . . .	.. . . . .	ibid.	*	*	.. . . . .
_____	sinistrorsus . . .	.. . . . .	Unknown.	*	..	.. . . . .
_____	Tarentinus . . .	.. . . . .	Mediterr.	*	..	.. . . . .
_____	antiquus . . .	.. . . . .	Seas of Northern Europe	..	*	.. . . . .
_____	brevicauda . . .	.. . . . .	ibid.	..	*	.. . . . .
_____	carinatus . . .	.. . . . .	ibid.	..	*	.. . . . .
_____	despectus . . .	.. . . . .	ibid.	..	*?	.. . . . .
_____	Peruvianus . . .	.. . . . .	Unknown, Peru??	..	*	.. . . . .
_____	crispus . . .	.. . . . .	*	*	.. . . . .
_____	mitræformis . . .	.. . . . .	..	*	.. . . . .
_____	subulatus . . .	.. . . . .	..	*	.. . . . .
_____	abreviatus . . .	.. . . . .	..	..	.. . . . .
_____	Burdigalensis . . .	.. . . . .	..	..	.. . . . .
_____	new species . . .	.. . . . .	..	..	.. . . . .
_____	bulbiformis . . .	.. . . . .	..	..	.. . . . .
_____	Noæ . . .	.. . . . .	..	..	.. . . . .
_____	scalaris . . .	.. . . . .	..	..	.. . . . .
_____	acicularis . . .	.. . . . .	..	..	.. . . . .
_____	ficulneus . . .	.. . . . .	..	..	.. . . . .
_____	excisus . . .	.. . . . .	..	..	.. . . . .
_____	polygonus . . .	.. . . . .	..	..	.. . . . .
_____	minax . . .	.. . . . .	..	..	.. . . . .
_____	costulatus . . .	.. . . . .	..	..	.. . . . .
_____	subcarinatus . . .	.. . . . .	..	..	.. . . . .
_____	longævus . . .	.. . . . .	..	..	.. . . . .
_____	new species . . .	.. . . . .	..	..	.. . . . .

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tert.)				Sicily.	Italy, Subap. English Crag.	Various Localities.
<i>Fusus, cont.</i>				new species				
—				new species				
—				new species				
—				sublavatus				
—								
<i>Pyrula</i>	31	21	reticulata		Indian Ocean	*		
—			ficus		ibid.	*		
—			melongena		ibid. and Senegal			
—			spirillus		ibid. ibid.			
—				clava				
—				ficoides		*		
—				lævigata				
—				subcarinata				
—				elegans				
<i>Struthiolaria</i>	2	1?						
<i>Ranella</i>	19	8	gigantea		Mediterr.	*	*	
—			granulata		Indian Ocean? Senegal?			
—			pygmæa		European Ocean			
—			tuberosa		Isle of France	*		
—				lævigata		*		{ Perpignan, Morea
<i>Murex</i>	75	89	cornutus		Senegal	*	*	
—			Brandaris		Mediterr.	*	*	{ Toulon, Perpignan, Morea
—			trunculus		ibid. & Indian Oc. Senegal	*	*	{ Morea
—			erinaceus		Europ. Oc. Medit.	*	*	{ Perpignan, Morea
—			tripterus		Indian Ocean	*?		
—			cristatus		Mediterr.	*	*	
—			fistulosus		ibid.	*	*	
—			tubifer		Unknown	*	*	
—				rectispina		*		
—				suberinaceus				
—			new species		Senegal			
—			elongatus		ibid. and Indian Ocean			
—			angularis		Senegal			
—			saxatilis, var.		ibid.			
—			new species		Sicily			
—				polymorphus		*		
—				contabulatus				
—				tricarinatus				
—				tripterus				
—			Lasseignei		Mediterr.	*	*	

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.			
	Living.	Fossil (tert.)				Sicily.	Italy, Subap.	English Crag.	Various Localities.
Murex, cont.	new species	.....	Mediterr. ....	*	..	..	.....
.....	new species	.....	.....	.....	.....	.....
.....	sublavatus	.....	.....	.....	.....	.....
.....	new species	.....	.....	.....	.....	.....
Triton	43	25	nodiferum	.....	Mediterr. and Indian Ocean	*	*	..	.....
.....	lampas	.....	Indian Ocean	*?	..	..	.....
.....	scrobiculator	.....	Mediterr. ....	*?	..	..	.....
.....	succinctum	.....	ibid., New Holland? Lam.	*	..	..	.....
.....	clathratum	.....	Indian Ocean	.....	.....	.....	.....
.....	uniflosum	.....	Mediterr. ....	*	..	..	.....
.....	intermedium	.....	.....	.....	.....	.....
.....	cancellinum	.....	.....	.....	.....	.....
.....	gibbosum	.....	.....	.....	.....	.....
.....	new species	.....	.....	.....	.....	.....
.....	nodularium	.....	.....	.....	.....	.....
.....	viperinum	.....	.....	.....	.....	.....
Rostellaria	7	8	.....	macroptera	.....	.....	.....	.....	.....
.....	columbella	.....	.....	.....	.....	.....
.....	fissurella	.....	.....	.....	.....	.....
.....	pes pelicani	European Ocean	*	*	..	Morea, Perpignan
.....	pes carbonis	Mediterr. ....	.....	.....	.....	.....
.....	new species	ibid. ....	*	..	..	.....
Pterocera	7	.....	.....	.....	.....	.....	.....	.....	.....
Strombus	45	9	gigas	.....	Indian Ocean & West Indies	*?	..	..	.....
.....	new species	.....	.....	.....	.....	.....
.....	Bonelli	.....	.....	.....	.....	.....
.....	ornatus	.....	.....	.....	.....	.....
Cassidaria	7	8	echinophora	.....	Mediterr.	*	*	..	Morea, Perpignan
.....	Thyrrena	.....	ibid. ....	*	*	..	.....
.....	new species	.....	.....	.....	.....	.....
.....	carinata	.....	.....	.....	.....	.....
.....	cithara	.....	.....	.....	.....	.....
Cassis	30	15	flammea	.....	Indian and African Oceans	.....	.....	.....	.....
.....	granulosa	.....	Mediterr. ....	*	..	..	.....
.....	crumena	.....	Unknown	.....	.....	.....	.....
.....	Saburon	.....	Medit. Senegal	*	*	..	Morea
.....	new species	.....	Unknown	.....	.....	.....	.....
.....	bisulcata	.....	Senegal? ..	*	..	..	.....
.....	cypræformis	.....	.....	.....	.....	.....
Ricinula	14	1	.....	new species	.....	.....	.....	.....	.....

MIOCENE PERIOD.				EOCENE PERIOD.		No. of Species in each Genus in the following Localities.																	
Bordeaux, Dax.	Touraine.	Turin.	Vienna.	Various Localities.	Paris.	London.	Various Localities.	Stilly.	Italy, Subap.	English Crag.	Baden.	Bordeaux.	Dax.	Touraine.	Turin.	Ronca.	Vienna.	Angers.	Paris.	London.	Valognes.	Belgium.	
*	*	*	*	Cracovia	.	.	.	7	20	5	6	15	20	18	3	..	2	9	24	8	9		
*	*	*	*	ibid.	.	.	.																
*	*	*	*	Baden	.	.	.																
.																
.	.	*																
*	*	*	*	.	.	*	.	1	8	..	..	3	7	1	2	..	1	1	6	2	5		
*	*	*	*																
*	*	*	*																
..	*	*	*	Cracovia	.	.	.																
.																
.																
.																
.																
.																
.	.	.	.	Cracovia	.	.	.	1	2	..	..	3	3	2	1	..	1	..	4	3	2	2	
.																
.																
.																
.																
.	.	.	.	Moravia	.	.	.																
*	*	*	*																
*	*	*	*																
*?																
.	*	2	..	..	1	4	1	1	1	..	..	2	1	1		
.	*	*																
.																
*	*	*	2	2	..	..	2	..	1	..	..	..	..	3	1	1	1	
.																
*	*	*																
*?																
.																
*	*	*	1	5	1	2	4	4	..	2	..	1	..	2	1	1		
*	*	*																
*	*	*	*	Baden	.	.	.																
*	*	*																
*	*	*	1	1	..	1								

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tert.)				Sicily.	Italy, Subap. English Crag.	Various Localities.
Purpura	76	4	hæmastoma		Medit., Senegal	*		
_____			new species					
_____			new species					
Monoceros	6	1						
Harpa	8	2						
Dolium	7	1	pomum ?		Indian Ocean	*?		
Buccinum	143	95	undatum		{ European Seas, Senegal	*		
_____			reticulatum		ibid. ibid.	*		
_____			maculosum		Mediterr.	*		Morea
_____			mutabile		ibid.	*	*	{ Perpignan, Morea
_____			clathratum		Indian Ocean	*	*	ibid.
_____			Neriteum		ibid. Medit.	*	*	Morea
_____			Desnoyersi		Senegal			
_____			prismaticum		Mediterr.	*	*	Ischia
_____			asperulum		ibid.	*	*	
_____			musivum		ibid.	*	*	
_____			inflatum		ibid.	*	*	{ Perpignan, Morea
_____			polygonum		Unknown	*	*	
_____			D'Orbignii		Mediterr.	*	*	
_____			Linnaei		ibid.	*	*	
_____			new species		Indian Ocean			
_____			politum		ibid.			
_____			new species		Unknown			
_____			ditto		Mediterr.	*	*	
_____			ditto		ibid.	*	*	
_____			ditto		Unknown			
_____			serratum			*	*	Perpignan
_____			baccatum					
_____			new species					
_____			tessellatum			*	*	
_____			new species					
_____			semistriatum			*	*	{ Perpignan, Morea
_____			callosum			*	*	
_____			new species					
_____			Andrei					
_____			new species					
_____			angulatum			*	*	
_____			{ new species, reticulatum affinis					
_____			turritum					
Eburna	5	1	new species					

MIOCENE PERIOD.				EOCENE PERIOD.		No. of Species in each Genus in the following Localities.																	
Bordeaux, Dux.	Touraine.	Turin.	Vienna.	Various Localities.	Paris.	London.	Various Localities.	Sicily.	Italy, Subap.	English Crag.	Baden.	Bordeaux.	Dax.	Touraine.	Turin.	Ronca.	Vienna.	Angers.	Paris.	London.	Valognes.	Belgium.	
*	*	*	*	1	.	.	1	2	.	1	.	1	.	1	.	.	.	.	.
.	*	.	*	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	2	.
.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
*	*	.	*	Podolia	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
*?	.	.	*?	Volhynia	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.
*	*	.	*
.
.	*
*	.	.	*
.	.	.	.	Angers	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	*	10	27	9	7	21	14	18	3	1	8	6	9	4	5	2	.
.
.	*?
*	.	.	*	Podolia	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
*	*
*	*
.
.	*	.	*	Baden, Moravia	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
*	*	.	*
*	*	.	*
*	*	.	*
*	*	.	*
*	*	.	*
*	*	.	*
*	*	.	*	Ronca	.	.	.	.	.	.	.	1	1	.	1	1	.	.	.	.	.	.	.

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.			
	Living.	Fossil (tert.)				Sicily.	Italy, Subap.	English Crag.	Various Localities.
Terebra	44	16	Faval . . . . .	. . . . .	Senegal, Indian Ocean	*	*	*	Perpignan, Morea
—			new species . . . . .	. . . . .	Unknown				
—			strigilata . . . . .	. . . . .	Ind. Oc. Senegal	*	*	*	
—			pertusa . . . . .	. . . . .	Unknown				
—			new species . . . . .	. . . . .	ibid.	*	*	*	
—						
—			. . . . .	. . . . .	striata				
—			. . . . .	. . . . .	plicatula				
Columbella	33	4	. . . . .	. . . . .	new species				
Mitra	112	66	. . . . .	. . . . .	scrobiculata	*	*	*	Morea, Perpignan
—			. . . . .	. . . . .	fusiformis	*	*	*	
—			lutescens . . . . .	. . . . .	Mediterr.	*	*	*	
—			cornea . . . . .	. . . . .	ibid.	*	*	*	
—						
—			. . . . .	. . . . .	incognita				
—			. . . . .	. . . . .	cumbellata				
—			. . . . .	. . . . .	graniformis				
—			. . . . .	. . . . .	cupressina	*	*	*	
Voluta	66	32	Lamberti . . . . .	. . . . .	Unknown South Seas?	*	*	*	
—						
—			. . . . .	. . . . .	papillaris				
—			. . . . .	. . . . .	magorum	*	*	*	
—			. . . . .	. . . . .	rarispinga				
—			. . . . .	. . . . .	spinosa				
—			. . . . .	. . . . .	costaria				
—			. . . . .	. . . . .	crassicosta				
—			. . . . .	. . . . .	athleta				
—			. . . . .	. . . . .	ambigua				
—			. . . . .	. . . . .	digitalina				
—			. . . . .	. . . . .	crenulata				
Marginella	48	17	cypræola . . . . .	. . . . .	Mediterr.	*	*	*	
—			miliacea . . . . .	. . . . .	Senegal				
—			. . . . .	. . . . .	eburnea				
—			monilis . . . . .	. . . . .	Senegal	*?	*?	*?	
Volvaria	1	2	. . . . .	. . . . .	. . . . .	
—			. . . . .	. . . . .	bulloides				
—			. . . . .	. . . . .	acutuscula				
Ovula	18	6	spelta . . . . .	. . . . .	Mediterr.				
—			birostris . . . . .	. . . . .	Indian Ocean	*	*	*	
—			new species . . . . .	. . . . .	Mediterr.	*	*	*	
Cypræa	185	19	lurida . . . . .	. . . . .	ibid.	*	*	*	
—			rufa . . . . .	. . . . .	ibid.	*	*	*	
—			annulus . . . . .	. . . . .	African Ocean				
—			coccinella . . . . .	. . . . .	European Ocean	*	*	*	
—			new species . . . . .	. . . . .	Sicily	*	*	*	

MIOCENE PERIOD.				EOCENE PERIOD.		No. of Species in each Genus in the following Localities.																	
Bordeaux, Dax.	Touraine.	Turin.	Vienna.	Various Localities.	Paris.	London.	Various Localities.	Sicily.	Italy, Subap.	English Crag.	Baden.	Bordeaux.	Dax.	Touraine.	Turin.	Rosca.	Vienna.	Angers.	Paris.	London.	Valognes.	Belgium.	
*	*		*	Baden																			
*	*																						
*	*																						
*	*							..	5	4	10	7	2	3	..	..	3	..	1	1	1		
*	*																						
*	*																						
*	*		*	Angers			* * Valognes																
*	*			Baden				..	1	..	..	..	2	..	..	1	2						
	*																						
	*																						
	*							1	13	..	2	4	6	15	..	..	8	24	3	15			
	*						* * ? Valognes																
	*		*	Angers																			
	*	*																					
	*	*	*																				
	*	*	*																				
	*	*	*				* * Valognes	..	2	1	..	4	4	2	4	1	1	..	24	8	7	3	
	*	*	*				* * Valognes																
	*	*	*				* * Valognes																
	*	* ?					* * Valognes																
	*	*		Angers																			
	*	*		ibid.				1	5	..	2	2	2	1	1	..	2	9	..	4			
	*	*					* * Valognes																
	*	*					* * Valognes													2	1	1	
	*	*																					
	*	*						..	2	..	..	2	..	..	..	2							
	*	*		Transylvania																			
* ?	*							3	6	3	..	4	8	5	6	..	3	4	1	2			

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tert.).				Stady.	Italy, Subap.	English Crag.	Various Localities.
<i>Cypræa, cont.</i>			{ new species: sphaericulata? Lam.		Unknown	*		
_____				Duclosiana				
_____				new species				
_____				inflata				
_____				leporina				
_____			sanguinolenta		Senegal			
_____				lyncoides				
<i>Oliva</i>	78	13	hiatula		Senegal			
_____			flammulata		African Ocean, Madagascar			
_____				clavula		*?		
_____				Branderi				
_____				mitreola				
<i>Ancillaria</i>	9	9		glandiformis		*		
_____				canalifera				
_____				buccinoidea				
_____				inflata				
<i>Terebellum</i>	1	2		convolutum				
_____				fusiforme				
<i>Conus</i>	181	49	Mediterraneus		Mediterr.	*		Morea
_____				antediluvianus				
_____				deperditus				
_____				scabriusculus				
_____				Brongniarti				
_____				Brocchii		*		
_____				alsiosus				
_____				acutangulus				
_____				mercati		*		
_____				ponderosus				
_____				distans				
_____				pyrula		*		
_____				new species				
<i>Beloptera</i>	1							
<i>Sepiostera</i>	3							
<i>Sepia</i>	4							
<i>Nautilus</i>	2	4		Deshayesii		*		
<i>Nodosaria</i>	28	21	laevigata		Mediterr.			
_____			oblonga		ibid.			
_____			sulcata		ibid.	*		
<i>Fronicularia</i>	2	5						
<i>Lingulina</i>	1	2	carinata		West Ind. Seas	*		
<i>Rimulina</i>	1							

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tertiary).				Sicily.	Italy, Subap.	English Crag.	Various Localities.
Vaginulina .	8							
Marginulina	9	5	raphanus		Mediterr.	*		
Planularia .	3	2	auris		ibid.	*		
Pavonina .	1							
Bigenerina .	4							
Textularia .	15	15	gibbosa		Adriatic	*		
————— .			angularis		ibid.			
————— .			sagittula		Mediterr.	*		
Vulvulina .	3							
Dimorphina .	1							
Polymorphina	23	11		inequalis		*		
————— .			pupa		Mediterr.			
————— .			communis		Mediterr.	*		
————— .			caudata		ibid.	*		
————— .			lævigata		ibid.			
————— .			gibba		ibid.	*		
————— .			ovata		ibid.			
Virgulina .	1							
Sphæroidina	1	1	bulloides		Medit. Ind. Oc.	*		
Clavulina .	2	3	communis		Mediterr.	*		
Uvigerina .	2	3						
Bulimina .	13	4						
Valvulina .	1	7		pupa				
————— .				globularis				
Rosalina .	6	2						
Rotalia .	25	31	pileus		Mediterr.			
————— .			subrotunda		ibid.	*		
————— .			armata		Cayenne			
————— .			carinata			*		
————— .			communis		Mediterr.			Etang de Tau
————— .			Italica		Madagascar			
————— .					Mediterr.	*		
Calcarina .	5							
Globigerina .	9	4	elongata		Mediterr.	*		
Gyroidina .	9	2	lævis		ibid.	*		
Truncatulina	5	5	tuberculata		ibid. Ind. Oc.	*		
Planulina .	4				European Ocean	*		
Planorbulina	4							
Operculina .	2	2						
Soldania .	3	3						
Cassidulina .	1							
Anomalina .	3	2						Etang de Tau

MIOCENE PERIOD.				EOCENE PERIOD.		No. of Species in each Genus in the following Localities.																			
Bordeaux, Dax.	Touraine.	Turin.	Vienna.	Various Localities.		Paris.	London.	Various Localities.		Sicily.	Italy, Subap.	English Crag.	Haden.	Bordeaux.	Dax.	Touraine.	Turin.	Rouca.	Vienna.	Angers.	Paris.	London.	Valognes.	Belgium.	
.	4	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.
.	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.
*	6	.	.	.	3	.	.	.	.	.	1	1	.	.	.	.
.	.	.	.	Angers	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	*?
*	*?	.	.	.	8	.	.	5	6	1	.	.	.	.	3	10	.	.	.	.
*	.	.	.	Angers	.	*	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
*	*?
.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
*	2	.	.	1	.	.	1	.	.	.	.	1	.	.	.	.
.	2	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.
.	3	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.
.	*	Valognes	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	4	5	.
.	*	ibid.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.
*	1	.	.	.	.	.	.	.	.	.	1	.	.
*	.	.	.	Angers	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
*	5	.	.	9	3	.	.	.	.	.	.	1	12	.	2	.
.
.
.	1	.	1	1	.	.	.	.	.	.	.	.	1	.	.	.
*	1	.	1	1	.	.	.	.	.	.	.	.	1	.	.	.
*	1	1	.	2	1	.	.	.	.	.	.	.	1	.	.	.
.
.	1	1	.	.	.	.	.	.	.	.	.	.
.	3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
.
.	1	.	.	.	.	.	.	.	.	.	.	.

GENERA.	No. of Species		Species found both living and fossil (tertiary).	Species found fossil in more than one tertiary formation.	Habitations of living Species.	PLIOCENE PERIOD.		
	Living.	Fossil (tert.)				Sicily.	Italy, Subap.	English Crag.	Various Localities.
Vertebralina	1							
Polystomella	8	3	angularis	}	Senegal, Australian, Indian, Mediterr. and African Oceans.	*		
—————			strigilata		Coasts of Africa			Etang de Tau
Dendritina	2	1	. . . . .				
Peneroplis	3	2	. . . . .				
Spirolina	6		. . . . .				
Robulina	17	10	cultrata		Adriatic			
—————			calcar		ibid.	*		
—————			margiuata		West Indian Seas			
Cristellaria	10	14	cassis		Mediterr.	*		
—————			tuberculata		ibid.	*		
—————			Italica		Mediterr.	*		
Nonionina	15	11	umbilicata	}	ibid.	*		
—————			communis		ibid., Madagascar, West Indies	*		
Nummulites	1	13	. . . . .				
Biloculina	4	8	bulloides		Mediterr.	*		
—————			. . . . .	ringens				
—————			longirostris		Mediterr.	*		
—————			depressa		ibid.	*		
—————			lævis		ibid.	*		
Spiroloculina	6	9	depressa		ibid.	*		
Triloculina	16	12	. . . . .	trigonula				
—————			gibba		Mediterr.	*		
—————			inflata		ibid.	*		
—————			oblonga		ibid., Indian & European Oceans	*		
—————			Brongniarti		West Indies	*		
Articulina	1		. . . . .				
Quinqueloculina	30	23	undulata		Mediterr.	*		
—————			triangularis	}	ibid.	*		
—————			bicarinata		St. Helena	*		
—————			seminulum		Mediterr.	*		
—————			. . . . .		ibid.	*		
Adelosina	2	2	. . . . .				
Amphistegina	6	1	. . . . .				
Heterostegina	2		. . . . .				
Orbiculina	1		. . . . .				
Alveolina	1	5	. . . . .				
Fabularia	1	1	. . . . .				

MIOCENE PERIOD.				EOCENE PERIOD.		No. of Species in each Genus in the following Localities.																							
Bordeaux, Dax.	Touraine.	Turin.	Vienna.	Various Localities.				Paris.	London.	Various Localities.			Sicily.	Italy, Subap.	English Crag.	Baden.	Bordeaux.	Dax.	Touraine.	Turin.	Rome.	Vienna.	Angers.	Paris.	London.	Valognes.	Belgium.		
	*			Angers, Nantes																									
													..	2					1						1				
																	1								1				
																		1								6			
			*																										
	*												..	8		1							1						
													..	14															
	*												..	5		4	3									1			
	*												..			3	2								5	2	2		
	*							*	Valognes.			1	2		4											3			
													..	4		1	2									3			
								*	Valognes.			..	4			4									5		2		
	*							*				..																	
													..														1		
	*												..	7		2	1									14			
													..	2															
																	1												
																		1								3			
																								1			1		

