



# Annals and Magazine of Natural History

Series 1

ISSN: 0374-5481 (Print) (Online) Journal homepage: <http://www.tandfonline.com/loi/tnah07>

## XXVII.—A Catalogue of Shells from the Crag

S. V. Wood Esq., F.G.S.

To cite this article: S. V. Wood Esq., F.G.S. (1840) XXVII.—A Catalogue of Shells from the Crag, *Annals and Magazine of Natural History*, 6:37, 243-253, DOI: [10.1080/03745484009443291](https://doi.org/10.1080/03745484009443291)

To link to this article: <http://dx.doi.org/10.1080/03745484009443291>



Published online: 04 Dec 2009.



Submit your article to this journal [↗](#)



View related articles [↗](#)



Citing articles: 1 View citing articles [↗](#)

far more abundant than they are now; *Cyrena* has disappeared, and *Cyclas* has dwindled into insignificance; nor does our weather hold out any prospect of bettering itself so as to induce a return of the analogues of our ancient visitants.

3rd. In a fossiliferous bed formed during a period when the temperature of Britain did not exceed that of the warmer regions of our world at present, there ought not to be the same difference in the comparative number of species, extinct and existing, in the marine and freshwater faunas, and scarcely any in the case of the freshwater Pulmonifera. In such a bed the freshwater Mollusks should either be nearly allied to, or identical with, existing species of warmer climates. I would refer to this rule the phænomena of the shell-bed at Grays, Essex, described by Mr. Morris, in which we find the pectinibranchous Gasteropoda and the Acephala presenting thermal characters, while the Pulmonifera are identical with the existing British species. These phænomena should lead us to consider that bed as of pleiocene and not of pleistocene origin.

4th. When there is no positive but an evident negative difference from the existing fauna in a tertiary or post-tertiary freshwater deposit, our conclusions as to the climate of the period in which it was formed must mainly depend on the consideration whether the negation is of Pulmonifera or of Pectinibranchia and Acephala; for in the former case it *probably* depends on the action of secondary influences, and in the latter it *possibly* may be owing to the same cause.

5th. If in calculating percentages we deduce them from lists including both freshwater and marine species, we draw false inferences as regards the genera in the older rocks and the species in the pleiocene and pleistocene beds. To correct this error we should in the former case calculate separate percentages for the marine and freshwater species, and in the latter consider the freshwater Pulmonifera by themselves.

---

XXVII.—*A Catalogue of Shells from the Crag.* By S. V. WOOD, Esq., F.G.S.

*To the Editors of the Annals and Magazine of Natural History.*

GENTLEMEN,

THE following is part of a Catalogue of the fossil contents of the Crag Formation, including the Conchifera of Lamarck. I have endeavoured to make it as concise as possible, in order (should you think it worth publication) not to trespass too

largely upon the valuable space in your Journal; I have therefore introduced no more synonyma than I found absolutely necessary to make it intelligible. References are given where the species have been verified, and the new names are merely provisional, as they are affixed to specimens in my Cabinet: as it is my intention at some future period to give full descriptions of these, I shall defer my copious remarks till that time. Sutton (near Woodbridge in Suffolk) is given as the locality to the greater number of species, though many of them are not restricted to that parish; but as quarries of the red and coralline crag are there numerous and very rich in organic remains, a repetition of places is needless; where others are specified, they denote the species to have been there more peculiarly located; those for the mammaliferous crag I have taken from Woodward, with a few additional new discoveries given me by Capt. Alexander. The localities for the red and coralline shells I will guarantee, having *myself found every species* enumerated in this catalogue, with the single exception of the *Cyrena* at Gedgrave. The classification is according to Lamarck, and as it is the best known is best adapted to my purpose, the shells having been long thus arranged in my cabinet. Upon looking over the catalogue, it will be observed that several of the shells now living in the present seas are quoted as found fossil in the coralline crag, while they appear to be wanting in the red or newer formation; but in most of the instances the specimens are rare even in that deposit, which was formed either in deeper or more tranquil water than we have every reason to believe was the case with the gravelly covering that in some places rests upon it; but even where they are found in numbers their fragility might have been unable to withstand the agitation of a littoral deposit; they, of course, must have existed through the more modern period. The *Tellina donacina*, a shell whose solidity we might have imagined to have been a sufficient protection, has not hitherto been found in the red crag, though one of the most abundant in the coralline; yet its presence there is, as far as I know, confined to one spot, thus appearing to have been a very local species; further search, particularly in newly discovered localities, will probably bring to light many of these desiderata.

Yours, &c.

S. V. WOOD.

13, Bernard Street, Russell Square.  
Oct. 15, 1810.

No. of Sp.	DESCRIPTION.	Coralline.	Red.	Mam.
CONCHIFERA.				
1.	<i>Teredo navalis</i> , <i>Linn. Syst. Nat.</i> p. 1267.....	Sutton*.		
1.	<i>Gastrochæna pholadia</i> , <i>Turt. British Bivalves</i> , t. 2. f. 8, 9...	Sutton .....	Sutton, (tubes of.)	
1.	<i>Pholas latus</i> , <i>List. pl.</i> 279 † ..... <i>P. crispata</i> , <i>Mont. T. B.</i> p. 23.	Sutton .....	Walton Naze.	Postwick, (n <sup>r</sup> Norwich)
2.	— <i>cylindrica</i> , <i>Min. Con. t.</i> 148	Sutton .....	Walton Naze.	
3.	— <i>papyracea</i> ? <i>Turt.</i> (fragments only) .....	Sutton.		
4.	— <i>candida</i> ? (dorsal valve only.) .....		Walton Naze.	
1.	<i>Pholadomya candidoides</i> , n. s. ...	Ramsholt‡.		
1.	<i>Solen siliqua</i> §, <i>Linn. Syst. Nat.</i> p. 1113. ....		Sutton .....	Bramerton.
2.	— <i>ensiformis</i> , n. s. ....	Ramsholt...	Walton Naze.	
1.	<i>Cultellus cultellatus</i> , n. s. ....	Sutton .....	Walton Naze.	
1.	<i>Panopæa Norvegica</i> , <i>Min. Con. t.</i> 610. ....		Sutton.	
2.	— <i>Ipsviciensis</i> , <i>Min. Con. t.</i> 611.	Ramsholt.		
3.	— <i>gentilis</i>   , <i>Min. Con. t.</i> 610...		Alderton, near Bawdsey.	
1.	<i>Glycimeris vagina</i> , n. s. ....	Ramsholt...	Sutton.	
1.	<i>Mya truncata</i> , <i>Linn. Syst.</i> p. 1112.	Ramsholt...	Sutton.	
2.	— <i>arenaria</i> , <i>Linn. Syst.</i> p. 1112.		Sutton .....	Bramerton.
3.	— <i>lata</i> , <i>Min. Con. t.</i> 81. ....		Sutton .....	Bramerton.
4.	— <i>ovalis</i> , <i>Turt. Brit. Biv. t.</i> 3. f. 1, 2. .... ¶ <i>M. Pullus</i> , <i>Min. Con. t.</i> 531.		Butley, near [Orford.]	Postwick.
1.	<i>Sphenia Binghami</i> ? <i>Turt. t.</i> 19. f. 3.	Sutton.		
2.	— <i>cylindrica</i> ***, n. s. ....	Sutton.		
3.	— <i>angulata</i> , n. s. ....	Sutton.		
1.	<i>Anatina pretenera</i> , n. s. ....	Sutton .....	Walton Naze.	
2.	— <i>asperrima</i> , n. s. ....	Sutton.		
1.	<i>Thracia pubescens</i> .....	Ramsholt...	Sutton.	
	<i>Mya pubescens</i> , <i>Mont. T. B.</i> p. 40.			
2.	— <i>convexa</i> ††? .....	Ramsholt.		

\* The river Deben separates this parish from Woodbridge, but the quarries from which the greater part of the shells were obtained are situated at the distance of two miles from that town.

† *Hist. Conch.*, fol. Lond. 1687. Lib. iii.

‡ Ramsholt is on the banks of the Deben, about four miles from Woodbridge.

§ I presume this to differ from *Solen genuis*, Nyst, in not being cylindrical: our shell is broader on the posterior than on the anterior side, a character not given in his description.

|| Until more specimens be found I think there is a doubt about this species.

¶ These *Myæ* present a variety of distorted forms, but all that are in my cabinet, and all that I have seen from the crag, may be referred to the above species.

\*\* This is identical with a recent British shell not figured that I am aware of.

†† My specimens are compressed and broken; too imperfect for identification.

246 Mr. S. V. Wood's Catalogue of Shells from the Crag.

No. of Sp.	DESCRIPTION.	Coralline.	Red.	Mam.
CONCHIFERA.				
3.	<i>Thracia truncata</i> , n. s. ....	Sutton.		
1.	<i>Lutraria elliptica</i> , <i>Turt. Brit. Biv.</i> p. 65. ....	Ramsholt...	Sutton.	
	<i>Mactra lutraria</i> , <i>Linn. Syst. Nat.</i> p. 1126.			
2.	— <i>Listeri</i> .....		Sutton .....	Bramerton.
	<i>Mactra Listeri</i> , <i>Gmelin, Syst.</i> p. 3261.			
	<i>Tellina lata alba</i> , <i>Lister</i> , t. 253.			
1.	<i>Mactra arcuata</i> , <i>Min. Con.</i> t. 160.	Sutton .....	Sutton .....	Postwick.
2.	— <i>solida</i> , <i>Linn. Syst. Nat.</i> p. 1126. ....	Sutton .....	Sutton .....	Thorpe.
	<i>M. dubia</i> et <i>M. ovalis</i> , <i>Min. Con.</i> t. 160.			
3.	— <i>glauca</i> , <i>Gmel. Syst.</i> p. 3260. ....		Sutton.	
4.	— <i>stultorum</i> , <i>Linn. Syst. Nat.</i> p. 1126. ....		Sutton .....	Thorpe.
	<i>M. magna</i> , <i>Woodward, Geol. of Norf.</i> t. 2. f. 8.			
5.	— <i>subtruncata</i> , <i>Mont. T. B.</i> p. 93.		Sutton .....	Thorpe.
	<i>M. cuneata</i> , <i>Woodward</i> , t. 2. f. 10.			
6.	— <i>crassa?</i> <i>Turt.*</i> .....		Sutton.	
7.	— <i>deaurata?</i> <i>Turt.</i> .....		Sutton.	
1.	<i>Amphidesma album</i> , <i>Fleming, Brit. Ani.</i> p. 432. ....	Sutton .....	Bawdsey .....	Bulcham, near Southwold.
	<i>Mactra alba</i> , <i>Wood, Linn. Trans.</i> vi. 174.			
2.	— <i>prismaticum</i> , <i>Turt. Brit. Biv.</i> t. 5. f. 3. ....	Sutton.		
3.	— <i>obovale</i> , n. s. ....		Sutton .....	Southwold.
1.	<i>Lepton squamosum?</i> †, <i>Turt.</i> .....	Sutton.		
2.	— <i>nitidum?</i> †, <i>Turt.</i> .....	Sutton.		
1.	<i>Corbula striata</i> , <i>Flem.</i> .....	Sutton .....	Sutton .....	Bramerton.
	<i>Cardium striatum</i> , <i>Walker, Test. minuta</i> , rar.			
	<i>Corbula nucleus</i> , <i>Turt.</i> — <i>rotundata</i> , <i>Min. Con.</i> t. 572.			
2.	— <i>complanata</i> , <i>Min. Con.</i> t. 362. ....		Sutton.	
3.	— <i>subrostrata</i> , n. s. ....	Sutton.		
4.	— ? <i>granulata</i> ‡, <i>Nyst, Bull. de l' Acad. Roy. de Bruxelles</i> , 1839, pt. 2. p. 398. pl. 3. f. 3.	Ramsholt.		
5.	— ? <i>sulcata</i> §, n. s. ....	Sutton.		

\* Only one worn specimen, which is therefore doubtful.

† I have only two or three specimens, and those are not in good condition.

‡ Half a dozen specimens that I possess are unfortunately all the right valve, and I suspect it does not strictly belong to this genus.

§ An equivalent shell, somewhat resembling *C. striatella*, *Deshayes, Coq. foss. des Env. de Paris*, Pl. 8. f. 15.

No. of Sp.	DESCRIPTION.	Coralline.	Red.	Mam.
CONCHIFERA.				
1.	<i>Pandora margaritacea</i> , <i>Turt.</i> ..... <i>Tellina inæquivalvis</i> , <i>Linn.</i> <i>Syst. Nat.</i>	Sutton .....	Walton Naze.	
1.	<i>Saxicava rugosa</i> , <i>Min. Con.</i> var. $\alpha$ . t. 466. ....	Sutton .....	Sutton .....	Thorpe.
	<i>Saxicava pholadis</i> , <i>Turt.</i> var. $\beta$ . t. 2. f. 11. ....	Sutton.		
	<i>Hiatella minuta</i> , <i>Turt.</i> var. $\gamma$ . t. 2. f. 12. ....	Sutton.		
	— <i>oblonga</i> , <i>Turt.</i> var. $\delta$ . t. 2. f. 13. ....	Sutton.		
	<i>Saxicava rugosa</i> , subequilater- alis, <i>nihil</i> , var. $\epsilon$ . ....	.....	Butley.	
1.	<i>Agina purpurea</i> ? <i>Turton</i> * .....	Sutton.		
1.	<i>Montacuta substriata</i> , <i>Turt. Brit.</i> <i>Biv.</i> t. 11. f. 9, 10. ....	Sutton.		
	<i>Ligula substriata</i> , <i>Mont. T. B.</i> <i>Sup.</i> p. 25.			
2.	— <i>ovata</i> .....	Sutton.		
	<i>Tellemya ovata</i> , <i>Brown's Conch.</i> <i>Illust.</i> pl. 14. f. 20, 21.			
3.	— <i>truncata</i> , n. s. ....	Sutton .....	Walton Naze.	
4.	— <i>pumila</i> , n. s. ....	Sutton.		
5.	— ? <i>donacina</i> , n. s. ....	Sutton.		
6.	— ? <i>cylindrica</i> , n. s. ....	Sutton.		
1.	<i>Kellia suborbicularis</i> , <i>Turt. Brit.</i> <i>Biv.</i> t. 11. f. 5, 6.....	Sutton.		
	<i>Mya suborbicularis</i> , <i>Mont. T.</i> <i>B.</i> p. 39.			
	<i>Amphidesma physoides</i> , <i>Lamk.</i> v. p. 493.			
2.	— <i>dubia</i> .....	Sutton .....	Sutton.	
	<i>Psammotea dubia</i> , <i>Desh. Coq.</i> <i>foss. des Env. de Paris</i> , pl. 10. f. 13, 14.			
3.	<i>Kellia coarctata</i> , n. s. ....	Sutton.		
4.	— <i>transversa</i> , n. s. ....	Sutton.		
5.	— ? <i>deltoidea</i> , n. s. ....	Sutton .....	Sutton.	
6.	— ? <i>orbicularis</i> , n. s. ....	Sutton.		
7.	— ? <i>flexuosa</i> , n. s. ....	Sutton.		
8.	— ? <i>cycladia</i> , n. s. ....	Sutton.		
1.	<i>Cryptodon bisinuatus</i> , n. s. ....	Sutton.		
2.	— <i>rotundatus</i> , n. s. ....	Sutton.		
3.	— ? <i>Verticordia</i> , n. s. ....	Sutton.		
1.	<i>Loripes undularia</i> , n. s.† .....	.....	Sutton .....	Bramerton.

• Only one specimen.

† This is one of those shells covered externally with undulating or divaricating lines, but differs from all the numerous *Lucina* with those peculiar markings that I have seen, inasmuch as it has a semi-internal ligament, and may, perhaps, have had an inhabitant similar to that of *Lucina lactea*, which, on account of its peculiar foot, has been named *Loripes* by Poli. I have therefore placed it in that genus.

No. of Sp.	DESCRIPTION.	Coralline.	Red.	Mam.
CONCHIFERA.				
1.	<i>Lucina radula</i> , <i>Turt. Brit. Biv.</i> p. 116. ....	Ramsholt...	Sutton .....	Thorpe.
	<i>Tellina radula</i> , <i>Mont. T. B.</i> p. 68. ....			
2.	— <i>digitaria</i> .....	Sutton .....	Sutton.	
	<i>Tellina digitaria</i> , <i>Turt. edit. of Linn.</i> p. 196. ....			
3.	— <i>rotundata</i> , <i>Turt. Brit. Biv.</i> p. 114. ....	Sutton .....	Sutton	
4.	— <i>dilatata</i> .....	Sutton .....	Sutton	
	<i>Diplodonta dilatata</i> , <i>Philippi, Enum. Moll. Sicilia</i> , t. 4. f. 7. ....			
5.	— <i>gyrata</i> , n. s. ....	Sutton .....	Sutton .....	Southwold.
6.	— <i>crenulata</i> , n. s. ....	Sutton.		
7.	— <i>costaria</i> , n. s. ....	Sutton.		
1.	<i>Tellina crassa</i> .....	Sutton .....	Sutton .....	Postwick.
	<i>Pectunculus planus crassus</i> , <i>List.</i> t. 136. ....			
	<i>Tellina obtusa</i> , <i>Min. Con.</i> t. 179. f. 4. ....			
2.	— <i>obliqua</i> , <i>Min. Con.</i> t. 161. f. 1. ....	Ramsholt...	Sutton .....	Postwick.
3.	— <i>ovata</i> , <i>Min. Con.</i> t. 161. f. 2. ....		Sutton .....	Bramerton.
4.	— <i>prætensis</i> , <i>Woodward, Geol. of Norf.</i> t. 2. f. 12. ....		Sutton .....	Bramerton.
5.	— <i>fabula</i> , <i>Mont. T. B.</i> p. 61. ....			Southwold.
6.	— <i>donacina</i> *, <i>Linn. Syst. Nat.</i> p. 1118. ....	Sutton.		
7.	— <i>donacella</i> , n. s. ....	Sutton.		
8.	— <i>ovaloides</i> , n. s. ....	Sutton.		
9.	— <i>Benedenii</i> , <i>Nyst. Bull. de l'Acad. Roy. de Bruxelles</i> , 1839, pt. 2. p. 399. f. 5. ....		Sutton.	
1.	<i>Psammobia vespertina</i> , <i>Turt. Brit. Biv.</i> t. 6. f. 10. ....	Ramsholt.		
	<i>Solen vespertinus</i> , <i>Gmelin, Syst.</i> p. 3228. ....			
2.	— <i>Ferröensis</i> , <i>Turt.</i> t. 8. f. 1. ....	Sutton.		
3.	— <i>scopula</i> , <i>Turt.</i> t. 6. f. 11, 12. ....	Sutton.		
4.	— <i>florida</i> , <i>Turt.</i> t. 6. f. 9. ....	Sutton.		
5.	— <i>solidula</i> , <i>Turt.</i> t. 8. f. 2. ....			Bramerton.
6.	— <i>laminosa</i> .....	Ramsholt...	Sutton.	
	<i>Petricola laminosa</i> , <i>Min. Con.</i> t. 573. ....			
1.	<i>Donax trunculus</i> , <i>Linn. Syst. Nat.</i> p. 1227. ....			Bramerton.
2.	— <i>truncata</i> , n. s. ....		Sutton.	
3.	— <i>glabra</i> , n. s. ....	Sutton.		
1.	<i>Astarte borealis</i> .....			Bramerton.
	<i>Astarte plana</i> , <i>Min. Con.</i> t. 179. f. 2. ....			

• Although exceedingly abundant I have not yet found it in the red crag.

No. of Sp.	DESCRIPTION.	Coralline.	Red.	Mam.
CONCHIFERA.				
2.	<i>Astarte obliquata</i> , <i>Min. Con.</i> t. 179. f. 3. ....		Sutton.	
3.	— <i>bipartita</i> , <i>Min. Con.</i> t. 521. f. 3.	Ramsholt.		
4.	— <i>nitida</i> , <i>Min. Con.</i> t. 521. f. 2.	Ramsholt...	Sutton.	
5.	— <i>nitidula</i> , n. s. ....	Sutton .....	Suttou.	
6.	— <i>mutabile</i> , n. s. ....	Ramsholt...	Sutton.	
7.	— <i>sulcata</i> , <i>Flem. Brit. Ani.</i> p. 439. <i>Venus sulcata</i> , <i>Mont. T. B.</i> p. 131.		Sutton.	
8.	— <i>compressa</i> , <i>Flem. Brit. Ani.</i> p. 440. ....		Sutton .....	Thorpe.
9.	— <i>pisiformis</i> , n. s. ....	Sutton .....	Sutton .....	Bramerton.
10.	— <i>gracilis</i> , <i>Goldf. Petrefact.</i> t. 135. f. 4. ...	Ramsholt...	Sutton.	
11.	— <i>parva</i> , n. s. ....	Sutton.		
12.	— <i>parvula</i> , n. s. ....	Sutton.		
13.	— <i>pygmæa</i> , <i>Goldf. Pet.</i> t. 135. f. 5, 6. ....	Sutton.		
14.	— <i>subtrigona</i> , n. s. ....	Sutton.		
1.	<i>Goodallia?</i> <i>crenatula</i> , n. s. ....	Sutton.		
2.	— ? <i>pygmæa</i> *, n. s. ....	Sutton.		
1.	<i>Cyrena trigonula</i> , <i>Wood</i> .....	Gedgrave †, near Orford.		
1.	<i>Cytherea Chione</i> , <i>Turt. Brit. Biv.</i> t. 8. f. 11. .... <i>Venus Chione</i> , <i>Linn. Syst. Nat.</i> p. 1131.	Ramsholt.		
2.	— <i>filosa</i> , n. s. ....	Sutton .....	Walton Naze.	
3.	— <i>lenticula</i> , n. s. ....	Sutton .....	Walton Naze.	
1.	<i>Cyprina maxima</i> ‡ .....	Ramsholt...	Bawdsey .....	Southwold.

\* The two shells placed in this genus by Dr. Turton will, I think, be found to belong to the genus *Astarte* and the *minutissima*, probably the immature shell of the *triangularis*.

† This is stated, upon the authority of Capt. Alexander, to have been found in the coralline crag, but from the appearance of the locality I think there is at present a doubt of its belonging to that formation: I found at the same place *Cyclostoma elegans*, and *Pupa marginata*. Capt. A. kindly sent me a specimen, which, by comparison, appears identical with that which is found so abundantly in the lacustrine deposit at Stutton, on the banks of the river Stour, seven miles south of Ipswich: whether this be the same as the common species from the Nile, *Cyrena consobrina*, I will leave others to determine; but there is one character in the fossil in which it appears to differ from the recent, although amongst some hundreds of specimens that I have procured, there is of course a great variety; the posterior side is always more angular than that of the recent, which in all those that I have seen is truncated. Our shell appears to agree with *Cyrena Gemmellarii*, *Phil. Enum. Moll. Siciliæ*, t. 4. f. 3.

‡ The umbo of this, from the coralline crag, is a little more produced, and appears to have been rather a thicker shell than the recent, which is the only difference that I can detect, while the specimens from the red crag preserve a sort of intermediate character in that respect.



250 Mr. S. V. Wood's Catalogue of Shells from the Crag.

No. of Sp.	DESCRIPTION.	Coralline.	Red.	Mam.
	CONCHIFERA.			
	Cyprina.			
	<i>Pectunculus maximus</i> , <i>List. t.</i> 108 A.			
	<i>Venus islandica</i> , <i>Linn. Syst.</i> <i>Nat.</i> p. 1131.			
2.	<i>Venus equalis</i> , <i>Min. Con. t.</i> 21.			
	— <i>rustica</i> .....	Ramsholt...	Sutton.	
	<i>Venus rustica</i> , <i>Min. Con. t.</i> 196.			
1.	<i>Coralliophaga cyprinides</i> , n. s. ...	Ramsholt.		
1.	<i>Venerirupis Irus</i> , <i>Flem. Brit. Ani.</i> p. 451. ....		Walton Naze.	
	<i>Donax Irus</i> , <i>Linn. Syst. Nat.</i> p. 1128. ....			
1.	<i>Pullastra virginea</i> .....		Sutton.	
	<i>Venus virginea</i> , <i>Linn. Syst.</i> <i>Nat.</i> p. 1136.			
2.	— <i>perovalis</i> , n. s. ....	Ramsholt.		
1.	<i>Venus ovata</i> , <i>Mont. T. B.</i> p. 120.	Sutton .....	Sutton.	
1.	<i>Dosina turgida</i> .....	Ramsholt...	Sutton.	
	<i>Venus turgida</i> , <i>Min. Con. t.</i> 256.			
	— <i>Cytherca sulcata</i> , <i>Nyst. Bull.</i> <i>de l'Acad. Roy. de Bruxelles</i> , 1839, pt. 2. p. 401. pl. 1. f. 9.			
2.	— <i>fasciata</i> .....	Sutton .....	Sutton .....	Bramerton.
	<i>Venus fasciata</i> , <i>Turt. Brit.</i> <i>Biv. t.</i> 8. f. 9.			
3.	— <i>imbricata</i> .			
	<i>Astarte imbricata</i> , <i>Min. Con.</i> t. 521. f. 1. ....	Ramsholt...	Sutton.	
1.	<i>Mysia ornata</i> *, n. s. ....	Ramsholt...	Sutton.	
1.	<i>Artemis lentiformis</i> .....		Walton Naze.	
	<i>Venus lentiformis</i> , <i>Min. Con.</i> t. 203.			
2.	— <i>sinuata</i> , <i>Turt. Brit. Biv. t.</i> 10. f. 10, 11. ....	Ramsholt...	Walton Naze.	
1.	<i>Venericardia senilis</i> , <i>Min. Con. t.</i> 258. ....	Ramsholt...	Sutton.	
2.	— <i>chamaeformis</i> , <i>Min. Con. t.</i> 490. f. 1. ....	Sutton.	Sutton.	
3.	— <i>orbicularis</i> , <i>Min. Con. t.</i> 490. f. 2. ....	Sutton .....	Sutton.	
4.	— <i>scalaris</i> , <i>Min. Con. t.</i> 490. f. 3.	Sutton .....	Sutton.	
5.	— <i>anceps</i> , n. s. ....	Sutton.		
6.	— <i>corbis</i> .....	Sutton .....	Walton Naze.	Southwold.

\* This is the name of a genus intended to have been established by Dr. Leach for the reception of such shells as *Venus undata*, Mont. Our shell corresponds both in its dentition and deep pallial scar, but differs in its exterior ornament and other specific characters.

No. of Sp.	DESCRIPTION.	Coralline.	Red.	Mam.
	CONCHIFERA.			
	Venericardia.			
	Cardita corbis, <i>Phil. Enum. Sici.</i> t. 4. f. 19.			
1.	Isocardia Cor., <i>Min. Con.</i> t. 516. f. 2.	Ramsholt...	Sutton.	
1.	Cardium Parkinsoni, <i>Min. Con.</i> t. 49.	.....	Walton Naze.	
2.	— edule, <i>Linn. Syst. Nat.</i> p. 1124.	.....	Sutton .....	Bramerton.
	C. obliquum, var. <i>Woodward, Geol. of Norf.</i> t. 2. f. 19.			
3.	— edulinum, <i>Min. Con.</i> t. 283. f. 3. ....	Ramsholt...	Sutton	
4.	— angustatum, <i>Min. Con.</i> t. 283. f. 2. ....	.....	Sutton.	
5.	— elongatum, <i>Turt. Brit. Biv.</i> t. 13. f. 8. ....	Sutton.		
6.	— Grænlædicum, <i>Turt. edit. of Linn.</i> p. 205 .....	.....	Bawdsey.	
7.	— cchinatum?*, <i>Linn.</i> .....	.....	Sutton.	
8.	— decorticatum, n. s. ....	Ramsholt...	Sutton.	
9.	— tenellum, n. s. ....	Sutton.		
10.	— nodosulum, n. s. ....	Sutton .....	Sutton.	
1.	Pleurodon miliaris, <i>Wood, Illust. Mag. of Nat. Hist.</i> May 1840, p. 231. pl. 13. f. 1. M. ...			
	<i>Sutton.</i>			
1.	Arca Noæ, <i>Linn.</i> .....	Sutton .....	Sutton.	
2.	— lactanea, <i>Wood, Illust. Mag. Nat. Hist.</i> .....	Sutton .....	Sutton.	
3.	— raridentata, <i>Wood, Illust. Mag. Nat. Hist.</i> .....	Sutton.		
1.	Pectunculus pilosus .....	Ramsholt...	Sutton .....	Thorpe.
	Arca pilosa, <i>Linn.</i>			
2.	— subobliquus, <i>Wood, Illust. Mag. Nat. Hist.</i> .....	.....	Walton Naze.	
3.	— pygmæus, <i>Phil.</i> .....	Sutton.		
4.	— sublævigatus? .....	Gedgrave.		
	Trigonocælia sublævigata, <i>Nyst. Bull. de l'Acad. Roy. de Bruxelles</i> , 1839, p. 404. f. 15†.			
1.	Nucula oblonga, <i>Min. Con.</i> .....	.....	Bawdsey.	
2.	— Cobboldiæ, <i>Min. Con.</i> .....	.....	Sutton .....	Bramerton.
3.	— lævigata, <i>Min. Con.</i> .....	Sutton .....	Walton Naze.	
4.	— minuta, <i>Mont.</i> .....	.....	Sutton.	
5.	— nucleus, <i>Wood, Illust. of the Mag. Nat. Hist.</i> .....	Sutton .....	Sutton.	
	Arca nucleus, <i>Linn.</i>			
6.	— tenera, <i>Wood, Illust. Mag. of Nat. Hist.</i> .....	.....	Bawdsey .....	Southwold.
7.	— oblongoides, <i>Wood, Illust. Mag. of Nat. Hist.</i> .....	.....	Butley ... ..	Bramerton.

\* The spines of this appear to be set on angulated ribs, in which it differs from the recent, but I have unfortunately only two or three specimens.

† Our shell has obsolete longitudinal striæ.

252 Mr. S. V. Wood's Catalogue of Shells from the Cray.

No. of Sp.	DESCRIPTION.	Coralline.	Red.	Mam.
CONCHIFERA.				
8.	<i>Nucula pygmaea</i> , Goldf. ....	Sutton.		
9.	— <i>trigonula</i> , Wood, <i>Illust. Mag. Nat. Hist.</i> .....	Sutton.		
10.	— <i>semistriata</i> , Wood, <i>Illust. Mag. Nat. Hist.</i> .....	Sutton.		
1.	<i>Dreissina</i> ?* .....		Walton Naze.	
1.	<i>Mytilus antiquorum</i> , Min. Con. t. 275. ....		Sutton .....	Bramerton.
2.	— <i>edulis</i> , Linn. <i>Syst. Nat.</i> p. 1157. ....		Bawdsey.	
3.	— <i>densatus</i> , n. s. ? .....	Sudbourn,		
1.	<i>Modiola modiolus</i> ? (specimens imperfect) .....	[n° Orford. Ramsholt...	Sutton	
2.	— <i>discors</i> , Turt. Brit. Biv. t. 15. f. 4. ....	Sutton.	(cast of.)	
3.	— <i>hyalina</i> , n. s. ....	Ramsholt.		
4.	— <i>cylindroides</i> , n. s. ....		Walton Naze.	
5.	— <i>asperula</i> , n. s. ....	Sutton.		
1.	<i>Chama gryphina</i> ? Lam. ....	Sutton .....	Sutton.	
1.	<i>Pinna ingens</i> ? Mont. (fragments only) .....	Ramsholt...	Woodbridge.	
1.	<i>Avicula</i> (fragments only).....	Gedgrave.		
1.	<i>Lima fragilis</i> , Wood, <i>Mag. Nat. Hist. Sup.</i> p. 62. ....	Sutton .....	Walton Naze.	
2.	— <i>exilis</i> , Wood, <i>Mag. Nat. Hist.</i> .....	Ramsholt.	Walton Naze.	
3.	— <i>oblonga</i> , Wood, <i>Mag. Nat. Hist.</i> .....	Ramsholt.		
4.	— <i>plicatula</i> , Wood, <i>Mag. Nat. Hist. Sub-Genus.</i> .....	Sutton.		
5.	<i>Lima limatula ovata</i> , Wood, <i>Mag. Nat. Hist.</i> .....	Sutton.		
6.	— <i>limatula subauriculata</i> , Wood, <i>Mag. Nat. Hist.</i> .....	Sutton.		
	<i>Pecten subauriculata</i> , Mont. <i>T. B. Sup.</i> p. 63. ....			
1.	<i>Pecten grandis</i> , Min. Con. t. 585. ....	Ramsholt...	Sutton.	
2.	— <i>complanatus</i> †, Min. Con. t. 586. ....	Aldbro.		
3.	— <i>maximus</i> †† .....	Aldbro.		
4.	— <i>Princeps</i> , Min. Con. t. 512. ....	Ramsholt.		
5.	— <i>opercularis</i> §, Linn. <i>Syst. p.</i> 1146. ....	Ramsholt...	Sutton .....	Southwold.
	<i>P. plebeius</i> , Min. Con. t. 393. f. 1. ....			
	<i>P. reconditus</i> , Min. Con. t. 575. f. 5, 6. ....			

• Only one fragment.

† I have not seen the lower valve of this species.

‡ Only one specimen, and that doubtful, perhaps the lower valve of *complanatus*.

§ This differs from the generality of the recent British specimens only in the rays being more imbricated, but Mr. G. B. Sowerby has furnished me some from the Mediterranean, in which they there correspond.

No. of Sp.	DESCRIPTION.	Coralline.	Red.	Mam.
CONCHIFERA.				
6.	<i>Pecten striatus</i> , <i>Min. Con.</i> t. 391. f. 2—†.....	Ramsholt...	Sutton.	
	<i>Pecten limatus</i> , <i>Goldf. Pet.</i> p. 59. t. 91. f. 6.			
7.	— <i>gracilis</i> , <i>Min. Con.</i> t. 393. f. 2.....		Sutton.	
8.	— <i>obsoletus</i> , <i>Min. Con.</i> t. 511... <i>Pecten obsoletus</i> , <i>Mont. T. B.</i> p. 149.	Sutton .....	Sutton .....	Bramerton.
9.	— <i>tumidus</i> , <i>Turt. Brit. Biv.</i> t. 17. f. 3.....	Sutton.		
10.	— <i>subdiaphanus</i> , n. s. ....	Ramsholt.		
11.	— <i>scabrotus</i> , n. s. ? .....	Sutton.		
12.	— <i>tumescens</i> , n. s. ....	Ramsholt...	Sutton.	
13.	— <i>pictatus</i> , n. s. ....	Sutton.		
14.	— <i>tetramerus</i> , n. s. ....	Sutton.		
15.	— <i>striatulus</i> , n. s. ....	Sutton.		
16.	— <i>exoletus</i> , n. s. ?* .....	Sutton.		
1.	<i>Hinnus Dubuissoni</i> , <i>Min. Con.</i> t. 601.	Ramsholt.		
1.	<i>Ostrea edulis</i> , <i>Linn. Syst. Nat.</i> p. 1148.....	Ramsholt...	Sutton.	
2.	— <i>spectra</i> , n. s. <i>Leathes' MS.</i> ...	Ramsholt...	Sutton.	
1.	<i>Anomia ephippium</i> .....	Sutton .....	Sutton.	
2.	— <i>undulata</i> .....	Sutton .....	Sutton.	
3.	— <i>aculeata</i> .....	Sutton.		
1.	<i>Discina Norvegica</i> ? ‡, <i>Lamk. Syst.</i>	Sutton.		
1.	<i>Terebratula variabilis</i> , <i>Min. Con.</i> t. 576 §. ....	Ramsholt...	Sutton.	
2.	— <i>Gervillii</i> ? <i>Woodward.</i> .....	Sutton.		
3.	— <i>cistellula</i> , n. s. ....	Sutton.		
4.	— <i>Psittacea</i> , <i>Turt. Brit. Biv.</i> p. 236. ....			Bramerton.
1.	<i>Lingula fusca</i> , n. s. ....	Sutton.		

\* This may be only a giant monstrosity of the *obsoletus*. I have only one specimen.

† These, like our recent British species, are not well defined; no dependence can be placed upon them.

‡ Only one valve, and that imperfect.

§ This is variable in shape, thin, often compressed and broken; my specimens vary in size from four inches longitudinal diameter to young ones of less than a line. Von Buch, in his Monograph of *Terebratula*, published in the Geol. Trans. of France, part 3, has at p. 222 given as syn. to *T. gigantea*, Schlott., *T. bisinuata*, Desh., Coq. foss. des Env. de Paris, t. 65, f. 1, *T. variabilis*, Sow., *Min. Con.*, t. 576, but I believe these two last to be different shells; reasons for thinking so shall be given in my general descriptions.