

APPENDIX II.

I.—FOSSIL SHELLS COLLECTED BY THE AUTHOR FROM VARIOUS LOCALITIES OF THE NEWER PLIOCENE FORMATION IN SICILY; NAMED BY M. DESHAYES.

N. B. Those which are marked with an asterisk in this and the following lists are unknown as recent.

FOSSIL SHELLS FROM THE FLANKS OF ETNA, IMMEDIATELY ABOVE THE BAY OF TREZZA.

In clay and volcanic tuff. (See p. 79.)

Mactra triangula, <i>Broc.</i>	Natica Dillwynii, <i>Payr.</i>
Corbula nucleus.	„ Guillemini, <i>Payr.</i>
Astarte, unnamed.	„ glaucina.
„ ditto.	Trochus magus.
Venus Brongniarti, <i>Payraudeau.</i>	„ conulus.
„ radiata.	„ Adansoni, <i>Payr.</i>
„ species doubtful.	Turbo rugosus.
Cytherea exoleta.	Monodonta Viellotii, <i>Payr.</i>
„ lincta.	Turritella terebra, <i>Broc.</i>
Cardium edule.	Cerithium sulcatum.
„ sulcatum.	Pleurotoma, new species.
Arca antiquata, <i>Lamk.</i>	Cancellaria cancellata.
„ barbata, <i>Lamk.</i>	Fusus, new species.
Pectunculus glycymeris.	„ new species.
„ pilosus.	„ craticulatus, <i>Blainv.</i>
Nucula, new species.	„ strigosus.
„ margaritacea.	„ lignarius.
Chama unicornis.	Murex trunculus.
Pecten ornatus.	„ Brandaris.
„ an, new species?	„ erinaceus.
„ Bruei, <i>Payr.</i>	Triton an pileare?
„ opercularis.	Rostellaria pes pelicani.
„ unicolor.	Cassidaria echinophora.
„ Jacobæus.	Buccinum musivum, <i>Broc.</i>
Ostrea edulis.	„ mutabile.
Anomia ephippium.	„ maculosum.
Dentalium entalis.	„ unnamed.
„ * new species.	„ Calmelii.
„ strangulatum, <i>Desh.</i>	* „ semistriatum.
„ novem costatum.	Colombella rustica.
Pileopsis Ungarica.	Mitra lutescens.
Calyptrea Chinensis.	Conus Mediterraneus
Natica millepunctata.	

VILLASMONDE. (See p. 65.)

Mactra lactæa.	Natica glaucina.
Corbula nucleus.	„ canrena.
Pecten opercularis.	Rostellaria pes pellicani
Dentalium novem costatum.	

MILITELLO. (V. DI NORO.) (See p. 65.)

Cytherea chione?	Pecten opercularis.
Cardium edule.	Ostrea edulis.
Arca antiquata.	* Dentalium, new species.
Pecten Jacobæus.	Buccinum prismaticum?
„ varius.	An Turbo rugosus???

GIRGENTI.—(In limestone and clay.—See p. 65.)

Corbula nucleus.	Pecten opercularis.
Mactra triangula? Broc.	Dentalium entalis.
Pectunculus pilosus.	Natica millepunctata.
Modiola, species doubtful.	* Turritella tornata.
Pecten Jacobæus.	* Buccinum semistriatum.

SYRACUSE. (See p. 67.)

Thracia pubescens.	Pecten coarctatus, Broc.
* Tellina?	„ varius.
Cardium sulcatum.	Ostrea edulis.
„ edule.	* Dentalium, new species.
„ echinatum.	„ strangulatum, Desh.
Isocardia cor.	„ sexangulare, Broc.
Arca antiquata.	Haliotis tuberculata.
Pectunculus pilosus.	Trochus conulus.
„ glycymeris.	Turritella terebra.
Pecten, an nodosus?	Murex trunculus?
„ Jacobæus.	* Buccinum semistriatum.
„ Audouini, Payr.	Cypræa rufa.
„ opercularis.	Conus Mediterraneus???

CALTANISSETTA.—(In clay and yellow sand.—See p. 67.)

Lucina lactea?	Natica Guillemini, Payr.
Venus multilamella.	„ millepunctata.
Cardium echinatum.	Turritella subangulata, Broc.
„ edule.	* „ tornata, Broc.
Arca antiquata.	„ terebra.
Pecten Jacobæus.	Cerithium vulgatum.
Ostrea edulis.	Fusus lignarius.
* Dentalium, new species.	Rostellaria pes pellicani.
„ fossile.	* Buccinum semistriatum.
„ sexangulare.	Mitra lutescens.

CALTAGIRONE. (See p. 67.)

Mactra triangula, <i>Broc.</i>	Natica Dilwynii, <i>Payr.</i>
Amphidesma, new species.	„ Valenciennesii, <i>Payr.</i>
Corbula nucleus.	„ Guillemini, <i>Payr.</i>
Psammobia angulata (Tellina, <i>Lin</i>)	Scalaria tenuicostata, <i>Mich.</i>
Cytherea lincta.	Turritella terebra.
Venus multilamella.	Cerithium Latreillei, <i>Payr.</i>
Cardita sulcata, <i>Brug.</i>	* Pleurotoma, new species.
„ squamosa.	„ vulpecula, <i>Broc.</i>
Cardium echinatum.	„ craticulata, <i>Broc.</i>
Arca antiquata.	Fusus craticulatus, <i>Blain.</i>
* Nucula Italica, <i>Def.</i>	„ lignarius.
Pecten opercularis.	„ rostratus.
„ Bruei, <i>Payr.</i>	Murex Brandaris.
Dentalium, new species.	Rostellaria pes pelicani.
„ entalis.	* Buccinum semistriatum.
„ novem costatum.	„ mutabile.
Fissurella costaria, <i>Desh.</i>	„ prismaticum, <i>Broc.</i>
Calyptrea chinensis.	* „ turbinellus, <i>Broc.</i>
Bulla lignaria.	Mitra lutescens.
Natica canrena.	Cypræa oryza, <i>Duclos.</i>

CASTROGIOVANNI. (See p. 67.)

Lucina lactea.	Pecten opercularis.
* Nucula Italica, <i>Def.</i>	Natica Guillemini, <i>Payr.</i>
Pecten Jacobæus.	

VIZZINI.

Murex Brandaris.

PIAZZA.

Ostrea edulis.

VAL DI NOTO.

Pectunculus glycimeris.	Pecten opercularis.
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PALERMO.—(In limestone and clay.—See p. 65.)

* Clavagella bacillaris, <i>Desh.</i>	Tellina Donacina.
Solen coarctatus, <i>Broc.</i>	„ new species.
Panopea Aldrovandi.	Lucina radula.
Thracia corbuloides, <i>Desh.</i>	„ new species, a lupinus? <i>Broc.</i>
„ pubescens, <i>Desh.</i>	„ lactea.
Lutraria solenoides.	Astarte, new species, an incrassata?
Corbula nucleus.	„ new species.

PALERMO—continued.

- Cytherea rugosa, *Broc.*
 " exoleta.
 " Chione.
 Venus radiata, *Broc.*
 " species doubtful.
 Cardita squamosa.
 Cyprina Islandicoides.
 Cardium sulcatum.
 " edule.
 " echinatum.
 " Deshayesii, *Payr.*
 Isocardia cor.
 Arca antiquata.
 Pectunculus pilosus.
 Nucula, new species.
 " margaritacea.
 Chama gryphoides ?
 " unicornis.
 Pecten ornatus.
 " coarctatus, *Broc.*
 " an, new species.
 " opercularis.
 " new species.
 " Jacobæus.
 " varius ? ?
 " pleuronectes.
 Ostrea cornucopiæ ?
 " edulis.
 " Virginica.
 " hippopus.
 Terebratula truncata.
 " ampulla.
 * Dentalium, new species.
 * " fossile, *Lin. Var.*
 " strangulatum, *Desh.*
 Patella bonnardii, *Payr.*
 Emarginula curvirostris, *Desh.*
 Fissurella, species doubtful.
 " Græca.
 Pileopsis Ungarica.
 Bulla lignaria.
 Auricula buccinea.
 Natica millepunctata.
 " Guillemini, *Payr.*
- Natica Canrena.
 " Valenciennesii, *Payr.*
 Scalaria communis.
 " pseudo scalaris.
 Solarium stramineum ?
 Trochus magus.
 " agglutinans.
 " cingulatus, *Broc.*
 " Adansoni, *Payr.*
 " conulus.
 " cinereus.
 Turbo rugosus.
 Turritella terebra.
 Cerithium tricinatum.
 * " margaritaceum.
 * " new species.
 Pleurotoma Cordieri.
 " Caumarmondi, *Mich.*
 " new species.
 Fasciolaria tarentina.
 Fusus sinistrorsus, *Desh.*
 " strigosus.
 " rostratus.
 * " clavatus.
 " craticulatus.
 * " new species.
 " lignarius.
 Ranella gigantea.
 * " lævigata.
 Murex Brandaris.
 " trunculus.
 Triton unifilum, *Bon.*
 Rostellaria pes pelicani.
 Cassidaria echinophora.
 Cassis saburon.
 Dolium pomum.
 Buccinum prismaticum, *Broc.*
 " new species.
 " new species.
 * " semistriatum.
 " new species.
 " mutabile.
 Conus Mediterraneus.

2.—FOSSIL SHELLS COLLECTED BY THE AUTHOR IN ISCHIA, AND NAMED BY M. DESHAYES. (See p. 126.)

Solen coarctatus, <i>Broc.</i>	<i>Melania Cambessedesii, Payr.</i>
Lucina lupinus, <i>Broc.</i>	<i>Natica Guillemini, Payr.</i>
Venus radiata, <i>Broc.</i>	" <i>Valenciennesii? Payr.</i>
" <i>verrucosa.</i>	<i>Trochus magus.</i>
Cardium sulcatum.	" <i>conuloides.</i>
" <i>edule.</i>	" <i>new species.</i>
Pectunculus violacescens.	<i>Turritella terebra.</i>
Arca, new species, An arca quoyi? <i>Payr.</i>	<i>Cerithium Latreillei, Payr.</i>
Nucula margaritacea.	" <i>new species.</i>
Pecten varius.	" <i>vulgatum.</i>
" <i>Jacobæus.</i>	" <i>doliolum, Broc.</i>
" <i>Dumasii, Payr.</i>	<i>Rostellaria pes pelicani.</i>
" <i>opercularis.</i>	<i>Buccinum prismaticum, Broc.</i>
Dentalium novem costatum.	<i>Cypræa lurida.</i>

The four following shells have since been sent to me from Ischia. They are all of recent species:—

<i>Pectunculus pilosus.</i>	<i>Trochus crenulatus.</i>
<i>Natica glaucina?</i>	<i>Turritella duplicata.</i>

FOSSIL SHELLS FROM THE WESTERN BORDERS OF THE RED SEA, COLLECTED BY MR. JAMES BURTON; COMMUNICATED BY G. B. GREENOUGH, ESQ., P.G.S.

<i>Lutraria solenoides?</i>	<i>Cypricardia.</i>
" <i>plicatella??</i>	<i>Chama lazarus.</i>
<i>Maetra stultorum?</i>	<i>Tridacna squamosa.</i>
<i>Corbula.</i>	<i>Arca scapha.</i>
<i>Psammobia.</i>	" <i>antiquata.</i>
<i>Tellina lingua felis.</i>	" <i>Noæ.</i>
" <i>rugosa.</i>	<i>Pectunculus pectiniformis.</i>
" <i>virgata.</i>	<i>Pecten maximus.</i>
" <i>rostrata.</i>	" <i>pes felis.</i>
<i>Lucina globosa.</i>	<i>Spondylus gaderopus.</i>
<i>Cyprina.</i>	<i>Parmophorus elegans.</i>
<i>Cytherea tigerina.</i>	<i>Fissurella Græca.</i>
" <i>picta.</i>	<i>Bulla ampulla.</i>
" <i>castrensis.</i>	" <i>solida.</i>
" <i>erycina.</i>	<i>Helix desertum.</i>
" <i>scripta?</i>	<i>Nerita.</i>
<i>Venus geographica.</i>	<i>Natica melanostoma.</i>
" <i>reticulata.</i>	" <i>mamillaris.</i>
" <i>ovata??</i>	" <i>mamilla.</i>
" <i>paphia.</i>	" <i>Græca.</i>
<i>Cardium rugosum.</i>	" <i>alba.</i>
" <i>Æolicum?</i>	<i>Haliotis tuberculata?</i>
" <i>retusum.</i>	" <i>striata?</i>
<i>Cardita turgida.</i>	<i>Tornatella.</i>
" <i>calyculata.</i>	<i>Pyramidella.</i>

RED SEA SHELLS—continued.

Solarium perspectivum.	Dolium pomum.
Trochus maculatus.	Buccinum coronatum.
" virgatus.	" arcularia.
" Mauritanus.	" senticosum.
Monodonta tectum.	Terebra crenulata.
" Pharaonis.	" subulata.
" Ægyptica.	" myosurus.
Turbo chrysostomus.	" maculata.
" petholatus.	" duplicata.
Turritella	Colombella turturina ?
Cerithium nodulosum.	Mitra striatula.
" sulcatum.	" coronata ?
" virgatus.	Cypræa mappa.
Pleurotoma virgo.	" Arabica.
Turbinella lineolata.	" talpa.
Cancellaria contabulata.	" caurica.
Fasciolaria trapezium.	" vitellus.
Pyrula abbreviata.	" erosa.
" rapa.	" carneola.
" citrina.	" turdus ?
" reticulata.	" lurida ?
" francolinus.	" flaveola ?
Ranella granifera.	" nucleus.
" crumena.	" stercus muscarum ?
Murex crassispina.	" caput serpentis ?
" scorpio.	Ancillaria.
Triton variegatum.	Oliva erythrostoma.
" lampas.	Conus arenatus.
" pileare.	" generalis.
" maculosum.	" literatus ?
Strombus gigas (young).	" betulinus.
" bituberculatus.	" striatus.
" lineolatus.	" episcopus.
" gibberulus.	" tessellatus.
" terebellatus.	" textile.
Cassis vibex.	" nussatella.
" saburon.	" clavus.
" erinaceus.	" terebra ? ?
Ricinula arachnoides.	" capitaneus.
Dolium perdx.	Terebellum subulatum.

The above shells were named by Mr. GRAY, F.R.S., and Mr. Frembley.

FOSSIL SHELLS COLLECTED BY THE AUTHOR FROM
THE LOESS OF THE VALLEY OF THE RHINE.

(See p. 151.)

Helix obvolvata, <i>Drap.</i>	Helix striata, <i>Drap.</i>
" ericetorum, <i>ib.</i>	Succinea elongata.
" carthusianella, <i>ib.</i>	Cyclas palustris, <i>Drap.</i>
" plebeium, <i>ib.</i>	" lacustris, <i>ib.</i>
" pomatia.	Valvata piscinalis.
" nemoralis, <i>ib.</i>	Limnea ovata, <i>Drap.</i>
" fruticum, <i>Drap.</i>	Paludina impura.
" arborum.	

SIENNA. (See pp. 160 and 163.)

- Serpula arenaria.*
 * „ ditto, var.
 * „ new species.
 * „ glomerata.
Mactra triangula.
Tellina complanata.
 * *Cytheræa rugosa, Broc.*
Cardita intermedia.
 * „ new species.
Cardium edule.
Arca antiquata.
Pectunculus pilosus.
 * „ nummarius.
 * „ auritus.
Nucula margaritacea.
Pecten Jacobæus.
 „ opercularis.
 * „ striatus?
 * „ laticostatus.
Ostrea edulis, Lin.
 „ edulis? junior.
 * „ (nobis incognita).
Dentalium sexangulare.
 * „ fossile.
Auricula buccinea, Desh.
Melanopsis buccinoides.
Natica glaucina.
 „ punctata.
 „ Marochiensis.
Trochus fermonii, Payr.
 * „ new species, with its colour.
Turbo rugosus.
Turritella terebra.
 * „ imbricataria, *Broc.*
 „ subangulata.
 * „ tornata.
 * „ varicosa.
Cerithium vulgatum.
 „ doliolum.
 * „ tricinctum.
 * „ new species.
 * „ new species.
 * *Pleurotoma cataphracta.*
 * „ interrupta, *Broc.*
 * „ oblonga, *Broc.*
- * *Pleurotoma rotata, Broc.*
 * „ reticulata, *Broc.*
 * „ textilis, *Broc.*
 * „ turricula, *Broc.*
 * „ dimidiata, *Broc.* (dentata, *Lamk.*)
 * „ dimidiata, var.
Cancellaria cancellata.
 * „ varicosa.
 * „ Lyrata.
Fusus lignarius
 * „ mitræformis.
 „ subulatus.
 * „ longiroster.
 * „ thiara, *Broc.*
 * *Ranella bimarginata.*
Murex cornutus, var.
 * „ tubifer.
 * „ horridus.
 * „ spirispina.
 „ pomum.
 * „ bracteatus, *Broc.*
 * „ new species.
Triton unifilosus, Bonelli.
 * „ reticularis, *Broc.*
 * „ new species.
Rostellaria pes pelicani.
 * *Strombus Bonelli, Brong.*
Cassis saburon.
Buccinum clathratum? Broc.
 * „ serratum, *Broc.*
 * „ costulatum.
 * „ gibbosulum.
 * *Terebra plicaria.*
 * „ duplicata.
 * *Mitra pyramidella, Broc.*
 * „ scrobiculata.
Marginella cypræola.
 * *Conus antediluvianus, Broc.*
 * „ ponderosus.
 * „ mercator.
 * „ pyrula, *Broc.*
 * „ betulinoides.
 * „ virginalis.

SECONDARY FOSSIL SHELLS.

FOSSIL SHELLS COMMON TO THE MAESTRICHT BEDS
AND THE WHITE CHALK; COMMUNICATED BY
M. DESHAYES. (See p. 325.)

Catillus (Inoceramus) Cuvieri? (specimens imperfect.)	Crania Parisiensis.
Plagiostoma spinosa.	Terebratula octoplicata.
„ Hoperi.	„ carnea.
Pecten fragilissimus.	„ pumilus (magus, Sow.)
Ostrea vesicularis.	„ Defranci.
„ carinata.	Belemnites mucronatus.

FOSSIL SHELLS COMMON TO THE MAESTRICHT BEDS
AND THE UPPER GREEN-SAND; COMMUNICATED
BY M. DESHAYES. (See p. 325.)

Plagiostoma spinosa.	Belemnites mucronatus.
Ostrea vesicularis.	Baculites Faujasii.
„ carinata.	
