

Philosophical Transactions

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I. An Account of Animals and Shells Sent from Carolina to Mr James Petiver, F. R. S.

Sect. I. The Crustaceous Animals are,

1. He Thorny-edged CAROLINA Crab.

Cancer CAROLINIANUS marginibus spinosis. an Guaja alia species Marcgr. 182. fig. 183 1? an Pagurus Reidjungan Rumph. Hist. Nat. Amboinæ p. 11. c. 8.

Tab. 7. Fig. R?

Each side of this Crab is arm'd with a strait and strong Thorn, the Edges from thence to its Mouth is befet with many Smaller, as are Some parts of the Claws, particularly next the Body; its Back is variously ponne't with Sand like Warts. which, with other particulars, will be best understood by its Figure, which I design in my 3d, if not in my 2d Book of Decades. This Crab our Worthy Friend Dr Lifter, her Marefly's Physician, was pleased to give me.

2. The red blotted CAROLINA Crab.

Cancer CAROL. lituris eleganter rubris GAZO-PHIL. NAT. Tab. Fig. an Cancer, marinus lævis Rumph. Hist. N. Amboin. p. 10. c. 7. 1. Tab. 6. Fig. N? The variable spots on the back of this are more easily known by the Figure I have given of it than can be exprest in words.

3. Cancer an CAROL ruber, vermiculis quali, maculif. que pallescentibus. Its Back is red like a boiled Lobster, and intersperst with small pale spots, and intorted ramifications, resembling our White Falmouth Corall, but muchlesser,

tho in some places more branched. I take this to be a Carolina Crab, but are not certain, however in the interim it may be distinguished by the name of the Vermicular Red Crab.

4. The 5 holed CAROLINA Sea-Urckin or Fritter: E.

chinus compressus CAROL. &c. Musei Nost. 125. Fig.

This is a very singular Animal, having 5 oblong perforations thro the body of the Shell, viz. 4 against as many points of a 5 ray'd Star, lying in the midst of the Shell; the other is placed between two of its beams. as may be plainly seen and understood by my Figure: these are of different magnitudes, having seen them from less than 2 inches to almost 4 diameter, and this last, in the midst, where its thickest exceeds not half an inch, and gradually to its edges, which are thinner than a Shilling.

I am obliged to my very generous Friend Dr Lister for the first of these wonderful Animals, and very lately to Madam Williams, a Gentlewoman whom I am also highly obliged to.

for most of the following Shells, viz.

Sect. II. Bivalves, of which kind are Schollops, Cockles, Oysters, Muscles, &c. in mentioning these and other Tribes, I shall follow the accurate Order of Dr Lister's History of Shells.

5, Mytulus CAROLIN. latus striis rugosis-

An Petunculus strijs planis & doutatis insignitus Lister Hist. Conchyl. L. 16. 3. Tab. 242. Fig. 79? These vary in bigness; a valve of the largest, which was 2 inches long and three quaarters broad, weighed Ziijs. The Nose lies in the midst of its hinge; the Strike are flat and milled, like the edges of a new Shilling: each Valve is flattish at one end, and composed of about 8 surrows. My late kind Friend Mx Robert Ruthersord I am obliged to for the sirst of these Shells.

6. Mytulus JAMAICENSIS Pecuinculi nostri esculenti facienobis. Pectunculus dense striatus, margine fere ina-

quali & sinuola List. Conch. L. 3. Tab. 229. Fig. 64.

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This is distinguisht from the last in being less, having smaller Serie and smooth (much resembling our common Cockle, Mus. Nost. 835) but particularly in being Ear-nosed, viz. inclining more towards one end of the hinge, whereas the last was in the middle. I take the native colour of this Shell to be Chestnut, but the dead ones change black or white, as they are either dy'd in the Mud, or blancht by the Sun on the Shore.

7. Chama CAROL, levis & lævis.

All of this kind were dead chells, so that I can say nothing of their Colour; a value of the largest tho 2 inches and 1 long and about an inch and 3 broad, and 1 inch high, weigh'd-but 23 and 4 and 6 grains, i. e. in all 81 grains, yet some of the same dimensions weighed a sew grains heavier.

8. Chama CAROL. parva, fascijs fere lævibus.

This Shell resembles our Nut-Muscle. Mus. nast 831. but is thicker and one end pointed; we have an English S a Shell like this, which I may in a little time have an occasion to speak of.

9. Chama CAMPEACHEANA alba, fasciata tennis.

Petiunculus albus tenuis rhomboides, ratioribus afcijs exasperatus Lift. H. C. L. 3. Tab. 308. Fig. 141. The

white Campeachy Spoon-Muscle.

This Shell is so thin and brittle, it rarely comes to us whole. The curious Dr Lister gave the first of these, 4 sugust 19, 1697. and my kind Friend Mr Fisield, Surgeon, has since brought it me from the Island of Triss, and Macan Williams has now sent me one of the largest and fairest I have yet seen, the Valve 3 inches long, 2½ broad and 1 deep, yet weighed not 3 ij and 3 ij.

10. Musculus BARBADENSIS exiguus, cardine serrato.

Musculus parvus, subluteus, angustus, leviter striatus

List. H. C. L. 3. Tab. 365. Fig. 205. The small Barbadees

Muscle. This is a deep, thin, light, small, sinely straited

Shell; a pair of the largest was but an inch long, inch broad,

and both valves not inch deep, weighed scarce 6 grains; by

these

hese marks and its long notcht hinge, it's easily known from most others

11. Musculus CAROLIN. albus, fasciatus.

The Figure of Dr Lister's Jamaica Tellina tenuis ad umbonem extra maxima rubescente L. H. C. 1. 3. Tab. 397. Fig. 236. in bigness, shape, thinness and fasciæ very well resembles this Shell, which is somewhat narrower, and I meet with none of that redness he speaks of; the most lively have a yellowish cast within A Valve of 3 inches and \(\frac{1}{2}\), long and near 1\(\frac{1}{2}\) broad, weighs but little more than a dram; it's very shallow, viz. about \(\frac{1}{2}\) of an inch deep.

12. Musculus albus JAMAICENSIS spiendens radiis ru-

bris.

Tellina magna albida ex rubro late radiata L. H. C. I. 3.

Tab. 393. Fig. 240. The red Beam'd Jampica Muscle.

This elegant Shell Mr Charles Dell sent me ence from the Lands-end of Cornwal, after that Major Halstead brought it me from Carolina, and Mrs Rachel Chapman lately from Antegoa. I have a fair little pair, which weighs but 7 grains, and the half of another, viz. one Valve, which weighs 127. This last is near 3 inches and \(\frac{1}{2}\) long, \(\text{1}\) and \(\frac{1}{2}\) broad, and little more than \(\frac{1}{2}\) inch deep: 1 he dead Shells are white and shining, the others have red beams, which shoot from the hinge, and are broader at the edges; these are sometimes more conspicuous within than without; the last red, that decays in this Shell, is the Nose of its Hinge.

13. Musculus CAROLIN. angustus. an Tellina alia Bra-

filiana Bonan. Conchyl. p. 163. Fig. 352?

This seems to be very well exprest in Dr Lister's History under the name of Chama angustior ex altera parte sinuosa L. H. C. I. 3. Tab. 421. Fig. 275. who had it from Barbadoes. I have not yet seen it from thence, but have this to say of ours, viz. I find it of differing sizes, the common or middling is 3 inches long and above one broad, (I always mean where widest) the depth of a single Valve not in all of which size weigh more than 31, some heavier, but none less.

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14. CAROLINA Dish Cockle, Muf. Nost. 383. I ift. H. C. TM:

1. 2. Tab. 228. Fig. 165.

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I have a fair pair of these, near 4 inches between the sides: and 4 from head to tip, the Shell 3 inches and I high yet weigh'd not 6 Ounces. A single Valve of a larger I have which weighs 31, and will contain half a pint of Water ; it may con--veniently be used for a drinking Cup or Porringer, and the a thin light Shell, yet not easily broken.

15. CAROLINA Egg-Cockle. From its shape, smooth. ness and colour, the largest of these may be somewhat bigger than a Hens Egg, and decline gradually to the smallness of a Nutmeg. They are pretty flick white Shells, and may ferve for Dram Cups, &c. Mrs Rachel Chapman brought me this from Antegoa; they are also found on the other Islands, as well as on the Continent, from whence Major Halstead bath obliged me with it. Mus. Nost. 840. L. H. C. l. 2. Tab. 249. Fig. 82.

16. VIRGINIA Fritter Cockle. Mnf. nost 842.

Dr Lister in bis Hist. Conchyl. L. 3. Tab. 288. bas given a very exact Figure of this shell; it's round, flat and fine girdled; the common fize is of the following dimensions, viz. from head to the opposite edge 2 inches and i, and from side to side 2 3. The whole Shell wants of 31 and 1, and is not an inch high.

17. Pectuncellus BRASILIANUS, albus, undis capillaceis 17 majoribus. Pestunculus parvus albus, profundior tenuiter undatus L. H. C. l. 3. Tab. 301. Fig. 142. an Tellina Brafiliana lactea Bonan. Hist. Conchyl. 163. Fig. 349. The

white Brafile File.

I have not yet seen them so large as Bonanni's Figure reprefent. Dr Lifter's Icon, which is very good, is as big as me generally meet them; this is distinguished from the next in being somewhat a thicker and bush r Shell, the undulated Strix much larger and very coal

18. Pestuncellus JAMA C. rabesceis, undis capillaceis tenuissimis. Pestunculus tenuis subruper, minutissimis **firiis**

striis undatis exaratus L. H. C. l. 3. Tab. 339. Fig. 176. The fine blush Jamaica File.

This Shell must be strongly viewed to discover the elegant fineness of its waved strix, resembling the finest File I ever

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19. Tellina parva radiata &c. GAZOPHYL. NATUR. Tab. 18. Fig. 4. The Dominico Tellen. From the plenty of them on the South part of that Island, where Mr James Penman found them, and it was the only Shell that Shoar abounded with. They rarely exceed an inch in longth. half that in breadth, and such a Value weighs but 38. The fair ones of these are pretty Shells, and frequently found in Rock-work.

20. Pholas CAMPECHEANUS angustus, muriculatus, cardine foraminoso nobis. Pholas angustus albus, strijs tenuibus exasperatus L. H. C. l. 2. Tab. 432. Fig. 275. whose Figure represents the right Valve, viz. that, that holding the outer part upwards, has its hinge, as you look on it in that posture, against your Right hand; but what is strange, I have not one Shell on that fide the 1con represents it, among ft 20 others, and therefore probably the Dr's Figure may be reversed from one of these. The largest Valve I have yet met with is about 4 inches and \frac{1}{2} long, and I and \frac{1}{4} where the broadest, viz. cross the hinge, whose external holes in one of this proportion takes up an inch exactly, and they are generally about 12 in most sizes & internally from the midst of this, a thin furrowed lappet exerts itself near + of an inch from the side of the Shell, by reason of which standing out, it's easily broken, and therefore not always met with. This Valve wanted about AB of 2 drams. They are very thin, and no less brittle.

21. Pholas VIRGINIANA. Lift. H. C. l. 3. Tab. 434.

fig. 277.

This is as thin as the last, tho much larger, viz. One which Mr Parke brought me from Virginia was 5 inches and a half long, and 2 cross the hinge broad, yet weigh a not quite 33. This has the internal cardos hanging like the **Үууууууууу 2**

last, but herein it chiests differs, that it's lunular Murices ar much larger, and in the place where the outer hinge was per-

forated, this is supplied by one channel.

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22. Pholos CAROLIN. e capite tantum muricatus, cardine terè bidente. Nob. an Pholos albus angustus ad dimidium fere dorsi lævis List H.C. 1. 3. Tab. 431 Fig. 274? Whose name better agrees with this Shell than the magnitude of its Figu; this has no lappet, as bad the two last, but instead thereof a double-toothed hinge, which lies much nearer the end than either of the aforegoing, from which part for near one third, the outer Shell is guarded with 6 or 8 more elevated lines than the rest of the Shell, whose other Striæ are thicker set, and very little; by which, and its smallness, it's from the others easily distinguishable, the largest Valve I have yet met with wants of 2 inches in length, and exceeds not 4 where broadest, and weighs but 15 grains.

23 Pinna CAROLIN. maxima lara, muricibes plurimis lunulatis Dr Litter has given a very exact Figure both for shape and magnitude of this elegant Sicil, Tip. 372. Fig. 213. A Value of which Major Halftead brought me from Catolina; it's very large, viz. 9 inches long, and 5 where broadest, yet weighs but 2 ounces and 4, being very thin and brittle, these lunular protuberances hold a sort of circular or fasciated order, and at the same a striated one also, these decay, as most others of this kind do where they approach the tip or hinge; the outer Coat of this is apt to peel off, which under it discovers a dark shining Mother of Pearl, like that within, and only the remains of the exterior pertuberances are to be seen: I have lately received a Mediterranean one from Father Bonanni at Rome, much refembling this, yet in some particulars differing, which I may have occasion suddenly to shew.

24. Pinna CAROL. minor prætenuis, tubulis lunulisque majoribus armata. This is lesser and thinner than the last, it's externally piped towards the Mouth, and above these lunulated, they are thinner set, as the Striæ are; brought me by the same band with the last.

25. Pinna

25. Pinna CAROL. crassior, sulcata.

This is apt to peel as No 23. especially the dead Shells, what its outward coat may be I am yet to learn. Madam Williams, from whom I received this, will I hope by the next send me them entire, and then I shall be the better able to say more of them.

Sect. III. The following are fingle Shells.

26. Patella lingualis CAROL. major lævis. an Patella cretic. macolis exiguis rutis diffincta List. H. C. 1. 4. S. 1. Tab. 545. 112. 33? The first and largest of this kind was soveral years since given me by Mrs Danson, who told me she had it from the West Indies, and I believe from her Father Mr John Archarde my very good Friend, who was then Governour of Carolina, and I am the rather inclined to believe it, because Madam Williams has now sent me several of the same tho less, from that place.

I add Linguis to this fort of Patella (till others give it a B. N. better Epithet) to distinguish it from the common sorts, because this has a conque like intersepanentum almost covering half the inside of the shell, resembling the head of a Canow.

27. Patella lingualis CAROL. compressa. an Patella alba compressa lævis L. H. C. J. 4. S. 1. Tab. 545.

Fig. 37?

This is a leffer and much flatter Shell than the lost, and the Tongue more elevated; I have observed this with some Ballani, sticking to a large Heterostrophon Shell brought me from the Island of Trits in the West Indies.

28. Cochlea CAROL. aurita, tasciis catenatis nigricantibus, undis sulcis interpositis. an C. sulca, cuius lineas spirales aliquot albicantes intersecant characteres quidam nigri L. H. C. I. 4. S. 5. Tab. 560. Fig. 4. operculo eius itriato? an Rumph. Tab. 19. Fig. 5? The Welsh-pot Shell. The fairest and largest I ever yet saw, my hearty Friend Mr Edm. Bohun brought me from Carolina, it weigh'd above 5 drams, whereas

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whereas the common size weigh not two; its spots and waves very much resembles the colours on the common Welsh-ware or Pots.

29. Cochlea CAROL aure magno, fusco.

This is distinguisht from all others I have yet met with, by the largeness of its Ear, viz. a protuberance resembling that part, in the Navel of the Shell, which in all live ones shew that part more or less brown, the big gest I have yet met with weigh'd near 3vi; the common size about half the weight.

30. Persicoides CAROL. claviculà, gyrà altè in-

cifà.

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The Shell most nearly resembling this in all Dr Lister's History is Figur'd in his 4th Book and 13th Section, No 1. were it not that the Clavicula of ours is much statter and shorter, with a deep indented coyl.

31. Buccinum CAROLIN. (an fluviatile) ovale.

I found this Shell among st some Fossils, &c. which my curious Friend Mr Job Lord sent me not long since from Carolina; the same Dr Lister, my worthy Patron, gave me some years since with the proofs of two new Plates to his Appendix ad Histor. Conchyl. in one of which he hath Figured it with this inscription, of his own writing, è Flumine CAROLINE.

32. Buccinum CAROL. ampullaceum, striis castaneis, fas-

ciis muricatis, majus.

Dr Lister has given a Figure, Tab. 880. which seems very much to represent this, excepting that his Murices are not so large as ours; perhaps the Shell from whence he took his Figure might have them worn off, yet sometimes in these bigger Shells you may observe them threefold, one distinctly over the other, which casing is also seen on the right lip of the Shell, as the Dr's Figure has very well observed: Whether these be annual protrusions or growths, I dire not yet determine. The largest of this kind I have yet met with, abated but 31 of a pound.

33. Buccin im CAROL. ampullaceum striis castaneis, fas-

ciis muricatis minus.

In one of the Editions of Dr Lister his curious History of Shells, Lib 4. Sect. 13 be has given an Accurate Figure of this smaller fort, under Cap. 1. De Buccmis amouliacers well-bus aut certe minus Aperis, and indeed while these are young they may deserve that character; amongst several Mad. Williams sent me of divers magnitudes, the least was the most beautiful Shell, its basis white, the edge of each Coat shaded with brown, having a white girdle cross the middle of the upper orb or round: This weighs but zij, and I have traced them to be the same even to the last, which weigh'd near a pound. I observe the largest to be less beautiful, which may proceed from their age and decay.

34. Buccinum ampullaceum strijs Castaneis, fascijs muri-

catis majus heterostrophon, ex Insula Triss.

This differs from the next no otherwise than No 32 did from the last, viz. in bigness, for that reason I insert it here, the I have as yet received it from the Island of Triss only, from whence it was brought me by my Kind Friend Mr Fiteild, Surgeon, now living at Rumtord in Essex: Dr Lister confirms me also in my opinion, by giving a Figure of this great sort, Tab. 908. N 28. and suys it's the same with the less,

viz. the next, this weighs one pound and near 3 grs.

35. Buccinum CAMPEACHIANUM ampullaceum, strijs Castaneis fascijs muricatis, minus, heterostrophon. Buccinum ampull. striatum inuricatum item radiatim ex susco List. H. C. 1. 4. S. 13. Fig. opt. 27. Tab. 907. To which he adds this comment, Purpura marina exotica eaq; sola Cochlea è Marinis est, quantum hastenus vidi quæ, deatra sinistrorsum corquetur. This differs nothing from No. 33. but in the rarity of its Mouth's place, this facing the Right hand, whereas all where Shells (a sew excepted) incline to the Left. The Reverend Mr. Stonestreet sinis gave me this care. Shell, and now Madam Williams another, it being the only one amongst near half a sovre of the other-Mouth'd.

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Sect. IV. The following are Fossils sent me from thence.

36. Glossopetra CAROL. maxima nigrescens ponderosa. This is one of the largest I have yet seen, being above three inches from the tip to the hollow or middle of the Root; this last part is very large and protuberant, the Tecth black, sm. oth on the edges, but in the middle much furrow'd; the whole very weighty.

37. Glossepetra CAROLIN. leviter serrata é nigro rubro-

que èleganter variegata.

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This is almost a straight Tooth, i. e. very little waving to either side, as most of them more or less do, its edges are rather pounc't than notch'd, from tip to the middle of the Root near an inch and half; its Touthy part is finely variegated with red and black.

For these two, with some Fossil Bones, as Vertebræ, &c. and several other Curiosities, I am oblig'd to our ingenious Friend Mr Job Lord, from whom I have receiv'd several Collections; and am suddenly (according to advice) in expectation of more, which the Publick shall have an Account of, with the Reptiles, Lizards, Insects, &c. which Mad. Williams hath also lately sent me: