THE

NATURAL HISTORY

o F

ANIMALS, VEGETABLES,

AND

M I N E R A L S;

The Theory of the Earth in general.

La Clare (G1) Translated from the FRENCH Of Count de BUFFON.

Intendant of the Royal Gardens in France; Member of the French Academy, of the Academy of Sciences, and of the Royal Societies of London, Berlin, &c.

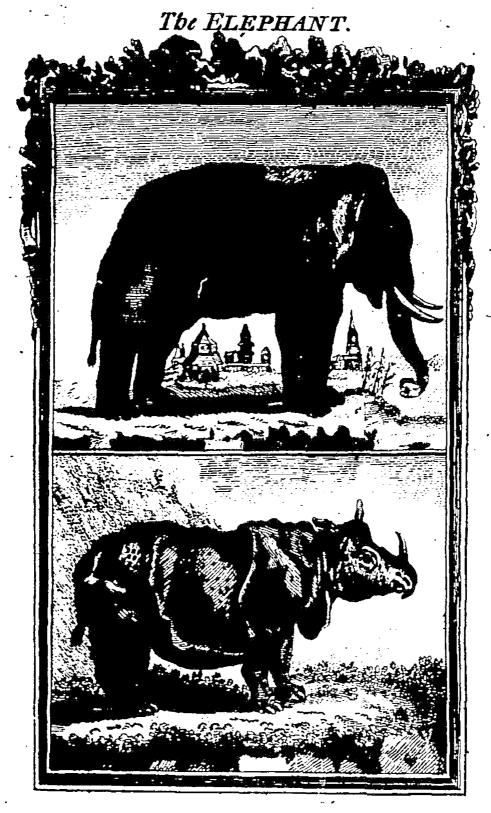
By W. KENRICK, L.L.D. and OTHERS.

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M DCC LXX V.



The RHINOCEROS.

naturalists, that these big bones had belonged to an animal much larger, whose species was lost or destroyed. But it is certain, as it has been mentioned before, that some elephants exist who are sourceen feet high, that is, fix or feven times bigger (for the bulk is in proportion to the cube in height) than the elephant, the skeleton of which we have spoke of, and which had but seven feet and a half in height: it is certain, besides, from the observations of Wir. Daubenton, that the age changes the proportion of the bones, and when the animal is adult, they grow confiderably bigger, though they are come to their full growth: in fine, it is certain, according to the relations of travellers, that some of the elephants' tulks, weigh each of them one hundred and twenty pounds. From these observations, we cannot doubt that those tusks and bones belonged to the elephant. Mr. Sloane was of that opinion, but he had not proved Mr. Gmellin faid it still more affirmatively; he has given us on this subject various facts; but Mr. Daubenton is the first who has proved them unquestionably by exact measures and comparisons, and reafons founded on the great knowledge that he has acquired in the science of anatomy.

The RHINOCEROS.

AFTER the elephant, the rhinoceros is the most powerful of all quadrupeds; he is at least twelve feet in length, from the extremity of the shout to the tail; six or seven feet in height, and the circumference of the body very near equal to his length. He is therefore, like the elephant in bulk; and if he appears much smaller, it is because his legs are much shorter in proportion to those of the elephant; but he differs widely from that sagacious animal by his natural faculties, and his intelligence; having received from

from Nature merely what the grants in common to all animals; deprived of all feeling in the skin, having no organ answering the purpose of hands, nor distinct for the sense of sceling; he has nothing instead of a trunk, but a moveable lip, in which centers all his dexterity. He is superior to other animals, only in firength, bigness, and the offensive arm which he carries upon his nose, and which is peculiar to him: this arm is a very hard horn, folid throughout, and placed more advantageously than the horn of ruminating animals; these only protect the superior parts of the head and neck, whilst the horn of the rhinoceros defends all the exterior parts of the fnout, and preferves the muzzle, the mouth, and the face, from inmit; so that the tiger attacks more readily the elephant, in feizing his trunk, than the rhinoceros, which he cannot attack in front without running the danger of being killed; for the body and limbs are covered with an impenetrable skin, and this animal fears neither the claws of the tiger and the lion, nor the fire and weapons of the huntsman: his skin is a black leather of the same colour, but thicker and harder than that of the elephant; he does not feel the sting of flies; he cannot contract his skin: it is only folded by large wrinkles on the neck, the shoulders, and the buttocks, to facilitate the motions of the head and the legs, which are massive and terminated into large feet, armed with three great claws. He has the head larger in proportion than the elephant, but the eves fill imaller, which he never opens entirely: the upper jaw projects above the lower, and the upper lip has a motion, and may be lengthened fix or feven inches; it is terminated by a sharp edge, which gives to this animal more facility than to other quadrupeds, to gather the grafs and divide it into handfalls as the elephant does with his trunk. This mufcular and flexible lip is a fort of trunk very incomplete, but which is equally calculated for firength and

and dexterity. Instead of those long ivory teeth which form the tulks of the elephant, the rhinoceros has his powerful horn, and two strong incifive teeth to each jaw: these incitive teeth, which the elephant has not, are placed at a great distance from each other in the jaws of the rhinoceros; they are feated one by one to every corner or angle of the jaws : the under jaw is cut in a square form before; and there are no other incifive teeth in all the interior part which covers the lips; but, independently of these four incifive teeth, placed before to the four corners of the jaw, he has besides twenty-four smaller teeth, six on each fide of each jaw: his ears are always erect; they are for the form, like those of a hog, only they are larger in proportion to his body; they are the only hairy parts of it. The end of the tail is, like that of the elephant; furnished with a tuft of large briftles very hard and very folid.

Mr. Parsons, a celebrated physician in London, to whom the republic of letters is indebted for several discoveries in natural history, and to whom I have myself singular obligations for the marks of esteem and friendship he has honoured me with, has published, in 1744, a Natural History of the Rhinoceros, of which I shall give an extract much more willingly, that whatever Mr. Parsons writes, seems to deserve credit

and attention.

"Though the rhinoceros was seen several times at the speciacles at Rome, from Pompey to Heliogabale, although many have been transported into Europe in these last ages; and that Bontius, Chardin, and Kolbe, have drawn his figure in the Indies and Africa; he was so badly represented, and his description was so imperfect, that he was known very imperfectly, and at the fight of those who arrived in London in 1739 and 1741, the errors or caprices of those who had published figures of this animal were very visible. That of Albert Durer, which is the Vol. III.

first, is one of the best conformable to Nature; that figure has, nevertheless, been copied by most naturaliffs, and even tome have overcharged it with false drapery, and foreign ornaments. That of Bontius is more timple and more true; but the inferior part of the legs is badly delineated. On the contrary, that of Chardin represents naturally the foldings of the Ikin and the feet; belides, it does not refemble the animal. That of Camerarus is not better, no more than that which has been drawn after the rhinoceros which was in London in 1685, and which was published by Carwitham in 1739. Those which were engraved on the pavement of Proeneste, 'or on the medals of Domitian, are very imperfect; but, at least, they have not the imaginary ornaments of that of Albert Durer. Mr. Parlons has taken the trouble to draw himself this animal, before, behind, and in profile; he has also delineated the exterior parts of the generation of the male, and the fingle and double horns, as well as the tail of other rhinoceros's, the parts of which were preferred in the cabinets of Natural History. The rhinoceros who arrived in London in 1739, had been fent from Bengal: although he was young, being but two years old, the expences of his food, and of his voyage, amounted to near one thousand pounds Rerling; he was fed with rice, fugar, and hay: they gave him daily feven pounds of rice, mixed with three pounds of fugar, which they divided into three parts: he had also a great quantity of hay and green grass, to which he gave the preference. His drink was nothing but water, of which he drank at one time a great quantity; he was of a quiet disposition, and let his manager feel him on all the parts of his body: he grew unruly when he was struck, or was hungry, and in both cases he could not be appeared without giving him fomething to eat. When he was angry, he leaped forwards with impetuolity to a great height, in beating furiously the walls with his head, which he

he did with a prodigious quickness, notwithstanding his heavy appearance and massive corpulence. "I have been often witness (says Mr. Parsons) of those motions which produced impatience, or anger, especially in the morning before his rice and his sugar was brought to him; the quickness and celerity of the motions of this animal made me judge (said he) that he is absolutely untameable, and that he would easily overtake in running, a man who should have given him offence."

This rhinoceros, when he was two years old, was not much higher than a young cow who has not yet bore young; but his body was very long and very thick: his head was very big in proportion to his body, taking it from the ears to the horn of the nose, it formed a crooked concave, the extremities of which, that is, the fuperior end of the fnout, and the part near the ears are very high; the horn had but an inch in height, it was black and fleeked at the end, but concave in the basis, and directed backwards. The under lip is like that of an ox, and the upper lip resembles that of a horse, with that difference and this advantage, that the rhinoceros can lengthen, direct, and double it, in turning it around a flick, and feize by these means the bodies which he wants to bring to his mouth. The tongue of this young rhinoceros was fost like that of a calf: his eyes had no vivaciouincis, they are like those of a hog for the form, and are placed very low, that is, nearer the opening of the The ears are large, thin towards the end, and bound up with a fort of wrinkle at the origin. The neck is very fhort; the skin forms on this part two large foldings which furround him. The shoulders are very big and very thick; the skin makes to their joint another folding which comes under the fore legs. The body of this young rhineceros was very thick, and refembled that of a cow ready to bring forth a calf. There is another folding betwixt the body

body and the buttocks; this comes under the hind legs. In fine, there is another folding which furrounds transversally the lower part of the buttocks, at some distance from the tail; the belly was very big, and hung down to the ground, especially the middle part of it; the legs are round, thick, itrong, and all crooked behind in the joint, which is covered by a remarkable folding, when the animal lies down, but it disappears when he is standing. The tail is thin and thort, comparatively to the volume of the body; that, of this rhinoceros had not above feventeen inches in length: it is little wider at the extremity, which is covered with hard, short, and thick hair. The yard is of an extraordinary form; it is wrapped in a fort of preputium case like that of a horse; and the first thing which appears outwardly in the time of crection, is a tecond prepuce of fiesh-colour, from which issues out a hollow pipe in form of a funnel like a fleur de luce, which forms the extremity of the yard; it is of a paler colour than the fecond prepuce: in the ffrongest action, the yard extended no more than eight inches out of the body. It was very easy to procure him that state of extension in rubbing the animal upon the belly with bunches of straw, when he lay down. The direction of this member was not thraight, but crooked, and backwards. He piffed in that direction, like a cow, from whence one can inzer, that, in the act of copulation, the male does not cover the female, but they couple mutually by the buttocks. The female has the exterior parts of generation made and disposed like those of the cow, and resembles perfectly the male for the bigness and the firm of the body. The skin is thick and impenetrable: in taking the foldings with the hands, it feels Lke a wooden plank half an inch thick. "When it is tanned (fays Dr. Grew) it is excessively hard, and thicker than the skin of any other terrestrial animal, it is every where more or less covered with a crusta-CIOUS-

ceous-like, tuberous scales, which are small on the fummit of the neck and the back, and which by degrees become bigger down the fides: the largest of all are on the shoulders and the buttocks, the thighs, and around the legs down to the feet; but betwixt the foldings the skin is penetrable, and even tender, and as foft as filk, while the outward part of the folding is as rough as the rest: this tender skin which is found within the folding is of flesh colour, and the skin of the belly is very near of the same colour and confidence; but those tuberous scales cannot be compared to scales, as have done several authors; they are a mere callofity of the skin, irregular in its figure, having no fymmetry in their respective positions: the suppleness of the skin in the foldings, gives to the. rhinoceros the facility of moving his head, his neck, and his limbs: the whole body, except the joints, is inflexible like a cuirafs. Mr. Parfons fays, that he has observed a very particular quality in this animal; he hearkened with a fort of continual attention to the beaft's noise; fo that, if he was even fleepy, employed in eating, or in fatisfying other urgent wants, he awoke instantly, raised up his head, and gave attention, till the noise had ceased.

In fine, after having given this exact description of the rhinoceros, Mr. Parsons examines, whether rhinoceroses with a double horn on the nose, exist or not; and after having compared the relations of ancients and moderns, and the monuments of this species, which are found in the collections of Natural History, he concludes, with some probability, that the rhinoceroses of Asia, have commonly but one horn, and those of Asrica, commonly two.

It is certain, that some rhinoceroses have but one horn of the nose, and others two; it is not equally certain, that this variety is constant, always depending on the climate of Africa, or the Indies; so that two distinct species may be established in these kind. of animals, in consequence of this difference. It ieems, that the rhinoceros who have but one horn, have it bigger and longer than those who have two: there are fingle horns of three feet and a half, and perhaps, of more than four feet, in length, upon fix or feven inches in diameter at the basis; there are alfo double horns, which are but two feet in length. Commonly, these horns are brown, or olive-colour, yet fome are grey, and even white: they have only a small concavity, in form of a cup, under their basis, by which they are fastened to the skin of the nose; the remaining part of the horn is folid, and very hard. It is with this arm, that the rhinoceros is faid to attack, and fometimes to wound mortally the biggest elephants, whose long legs give to the rhinoceros, who has them much shorter, an opportunity to strike them with his frout and his horn under the belly, where the skin is tender, and more penetrable; but when he misses to strike the first blow, the elephant throws him on the ground, and kills him.

The horn of the rhinoceros is more valued by the Indians, than the ivory of the elephant: not so much on account of the matter, of which they make several works with the chissel, but for its substance, to which they attribute divers specific virtues, and medicinal properties. The white ones, as the most rare, are also those which they value most. Among the presents which the king of Siam sent to Louis XIV. in 1636, were six horns of rhinoceros. We have seen in the king's cabinet, twelve of different sizes, and one particularly, which, though mutilated, was three

feet eight inches and a half in length.

The rhinoceros, without being ferocious or carnivorous, or even very wild, is, nevertheless, untameable. He is of the nature of a hog, blunt and grunting without intellects, without sentiment, and without tractableness; he must be ever subject to fits of sury, that nothing cancalm; for the rhinoceros which Ema-

nuel,

nuel, king of Portugal, fent to the Pope in 1513, was the cause that the ship, in which he was transported, perished; and that which we have seen at Paris, some years ago, was drowned in the same manner, in going over to Italy. These animals are also, like the hog, very much inclined to wallow, and will throw themselves into the mire; they like damp and marshy places, and seldom leave the banks of They are found in Asia and Africa, in Bengal, Siam, Laos, in the Mogul dominions, in Sumatra, in Java, in Abyssinia, in Ethiopia, in the country of the Anzicos, as far as the Cape of Good Hope. But, in general, the species is not so numerous, and so universally spread, as that of the elephant. The female brings forth but one young, and at a great distance of time. In the first month, the rhinoceros is not much bigger than a large dog; he has not as soon as brought forth the horn on the nofe, although the rudiment of it is feen in the foctus: when he is two years old, this horn is only an inch long; and in his tixth year, it has about ten inches; and as some of these horns are very near four feet long have been feen, it feems, they grow till his middle age, and, perhaps, during the whole life of the animal, which must be long, since the rhinoceros, described by Mr. Parlons, was not come to half his growth when he was two years old, which makes it probable, that this animal lives as a man, feventy or eighty years.

Without being useful as the elephant, the rhinoceros is very hurtful, by the prodigious devastation which he makes inthesields. The skin is the most valuable thing of this animal; his sless is excellent, according to the taste of Indians and Negroes. Kalbe says, he has often eaten it with great pleasure. His skin makes the best and hardest leather of the world; and not only his horn, but all the other parts of his body, and even his blood, his urine, and his excrements, are esteemed as antidotes against poison, or a

remedy

remedy against several diseases. These antidotes, or remedies, extracted from different parts of the rhinoceros, are of the same use in the dispensatory of the Indians, as the treacle is in that of Europe. Probably, all those virtues are imaginary:—But how many things are sought after, which have no value but in

opinion!

The rhinoceros feeds upon herbs, thistles, prickles, thrubs, and he prefers this wild food to the fiveet pasture of the verdant meadows; he is very fond of fugar-canes, and eats also all forts of corn: having no taste whatsoever for stesh, he does not molest small animals, neither fears the large ones, living in peace with them all, even with the tiger, who often accompanies him without daring to attack him: therefore, I doubt, that the battles betwixt the elephant and the rhinoceros, have any foundation; they must, however, seldom happen, since there is no notice for war on either tide: and, belides, no fort of antipathy has been observed between these animals. Some have even been feen in captivity, live quietly together, without giving offence or provocation to each other. Pliny is, I believe, the first who has mentioned these battles betwixt the rhinoceros and the elephant. It feems, they were compelled to fight in the spectacles of Rome, and, probably, they have taken from thence the idea, that when they were free, and in their natural state, they fought as desperately; but, I repeat it, every action without motive is not natural, it is, in effect, without cause, which does not happen, or by mere chance.

The rhinocerofes do not herd together, nor march in troops like the elephant; they are more wild and more folitary, and perhaps more difficult to be hunted and fubdued: they never attack men unless provoked; but then they become furious, and are very formidable: the steel of Damias, the scymitars

of Japan, cannot make an incision upon his skin; the darts and launces cannot pierce him through: his skin even resists the balls of a musket; those of lead become flat upon his leather, and the iron ingots cannot penetrate through it: the only places abfolutely penetrable in this body armed with a cuirafs, are the belly, the eyes, and around the ears; fo that huntimen, instead of attacking this animal standing, follow him at a distance by his track, and wait to approach him for the time that he fleeps or rests himfelf. We have in the king's cabinet a fætus of a rhinoceros which was fent from the island of Java, and extracted from the body of the mother: it was faid, in a memorial which accompanied this prefent, that twenty-eight huntimen had affembled to attack this rhinoceros, they had followed him far off for some days, one or two men walking now and then before, to reconnoitre the position of the animal; by these means they furprifed him when he was afleep, and came so near in silence, that they discharged all at once their twenty-eight guns into the lower parts of its belly.

We have feen, by the description of Mr. Parsons, that this animal has a good ear, and even very attentive: it is also affirmed, that he has the sense of finelling excellent; but it is pretended, he has not a good eye, and fees only before him: his eyes are fo imall, and placed fo low, and fo obliquely, they have fo little vivacity and motion, that this fact needs no other confirmation. His voice, when he is calm, refembles the grunting of a hog; and when he is angry, his tharp cries are heard at a great distance. Though he lives upon vegetables, he does not ruminate: thus, it is probable, that, like the elephant, he has but one stomach, and very large bowels, which supply the office of the paunch: his confumption, though very great, is not comparable to that of the elephant, and it appears, by the thickness of Vol. III. his his skin, that he loses less than the elephant by perfpiration.

The CAMEL and the DROMEDARY.

THESE two names do not include two different species, but only indicate two distinct breed, subsisting from time immemorial in the camel species: the principal, and as may be said, the only perceptible character by which they differ, consists in the camel's bearing two hunches, or protuberances, and the dromedary only one; who is also much less and not so strong as the camel; but both of them herd and copulate together, and the production from this cross breed is more vigorous, and

of greater value, than the others.

This mongrel issue from the dromedary and the camel form a fecondary breed, which also mix and multiply with the first; so that in this species, as well as in that of other domestic animals, there are to be found a great variety, the general part of which are relative to the difference of the climates they are produced in. Aristotle has judiciously marked the two principal breed; the first, (which has two hunches) under the name of the BACTRIAN CAMEL; and the fecond, under that of the ARABIAN CAMEL; the first are called Turkman, and the others Arabian CAMELS. This division still subsists, with this difference only, that it appears, fince the discovery of those parts of Africa and Asia, which were unknown to the ancients, that the dromedary is, without comparison, more numerous and more universal than the camel: the last being seldom to be found in any other place than in Turky, and in some other parts of the Levant; while the dromedary, more common than any other beaft of his fize, is to be found in all the northern parts of Africa, which extends from