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Madeira. but they there is reely any of life, which which cannot probably be cultivated here. On the hills walnuts, chefnuts, and apples flourish, almost without culture. Pine-apples, mangoes, guanas, and bananas, grow almost spontaneously in the town. They have corn which is large-grained and fine, and it might be produced in plenty; but for want of being attended to, all they consume is imported from other countries. Beef, mutton, and pork are remarkably good, and the captain took some of the former on board for his own use.

Funchiale (which took its name from Foncho, fignifying fennel in the Portuguese language) is fituate at the bottom of a bay, and though it is extensive in proportion to the rest of the island, it is but poorly built, and the fireets are narrow and badly paved. The churches are full of ornaments, with pictures and images of faints; the first are, for the most part, wretchedly executed, and the latter are dreffed in laced cloaths. The tafte of the convents, especially of the Franciscans, is better: neatness and simplicity being united in most of the designs of the latter. The infirmary also is a piece of good architecture, and one of the most considerable in this place. In this convent is a small chapel, the whole lining of which, both sides and ceiling, is composed of human sculls and thigh bones: the thigh bones are laid across each other, and a fcull is placed in each of the four angles. When we vilited the good fathers, just before supportine, they received us with great civility. "We will not ask you," faid they, "to supper with us, because we are not pre-pared, but if you will come to-morrow, though it is a fast-day, we will have a turkey roasted for you." This polite invitation it was not in our power to accept. There are many high hills in this island; Pico Ruivo in particular is near 5100 feet high. To a certain height these hills are covered with vines, above which are numbers of chefnuts and pine trees; and above these again whole forests of various forts of trees. The Mirmulano and Paobranco which are found among them, are unknown in Europe. The latter of these is very beautiful, and would be a great ornament to our gardens. The number of inhabitants in Madeira are computed to amount to about eighty thousand; and the cultomhouse duties produce to the king of Portugal a revenue of 20,000 l. a year, clear of all expences. But the balance of trade is against the people; for all their money going to Litbon, the currency of the island is in Spanish. This coin consisteth of pittereens, worth about a fhilling; bitts about fixpence, and half bitts worth about three-pence.

On the 19th of September the Endeavour failed from Madeira, and on the 21th we faw the illands called the Salvages, northward of the Canaries. The principal of these was about five leagues to the fouth half west. On the 23d the Peak of Teneriste bore west by south half south. Its appearance at sun set was very firsking; for when most part of the island appeared of a deep black, the mountain still reflected rays, and glowed with a warmth of colour which no painting can express. There is no eruption of visible fire, but a heat issue from the chinks near the top, too strong to be borne by the hand when held near them. The height of this mountain is 15,396 seet, which is but one hundred and sorty-eight yards less than three miles.

On the 30th we faw Bona Vifla, one of the Cape de Verd iflands, in latitude 16 deg. north, and longitude 21 deg. 51 min. well. In our courfe to Tenerifle, we observed numbers of flying tish, which appeared very beautiful, their fides resembling burnished filver.

On the 7th of October Mr. Banks went out in a

On the 7th of October Mr. Banks went out in a boat, and caught what our failors call a Portuguefe man of war; together with feveral field fifthes, or tef-taccous animals, which are always found floating upon the water; and on the 25th this gentleman flot a black-toed gull, not deferibed by Linnaeus, and whofe dung is of a red colour. We had now variable winds, with fome flowers of rain, and the air was fo damp as to damage our utentils confiderably.

On the 25th we croffed the line with the ufual cere monies; and on the 28th when the flip was in the la-

titude of Ferdinand Noronha, longitude 32 deg. 5 min. weft, we began to look out for the itland, and for the floals which are laid down as lying between it and the main; but neither the itland nor thoals could be difcovered. On the 29th we perceived that luminous appearance of the fea mentioned by navigators, which emitted rays like those of lightning. As Mr. Banks and Dr. Solander were not thoroughly fatisfied with any of the causes hitherto affigned for this phænomenon, and supposing it was occasioned by some luminous animals, they threw out a cassing net, in order to try by experiment whether they were right in their confectures. A species of the Medusa was taken, which bore some resemblance to metalline substance greatly heated, and emitted a whitsh light; they caught also some crabs which glittered very much; animals which had not before been taken notice of by the curious researchers into the secrets of nature.

fearchers into the fecrets of nature. As provisions by this time began to grow short, we resolved to put into the harbour of Rio de Janeiro; and on the 8th of November we faw the coast of Upon speaking with the crew of a Portuguese fishing boat, we were informed by them, that the land which we faw was to the fouth of Santo Espirito. Mr. Banks, having bought of these people some sith, was surprized, that they required English shillings: he gave them two which he happened to have about him; for he imagined Spanish filver to have been the only currency, and it was not without fome dispute that they took the rest of the money in pistercens. The fresh fish which was bought for about nineteen shillings, ferved the whole ship's company. We slood off and on along shore till the 12th, having in view fuccessively Cape Thomas and an island just without. Cape Frio, and then made fail for Rio de Janeiro on the 13th in the morning. Capt. Cook fent his first lieutenant in the pinnace before to the city, to inform the governor, that we had put into that port in order to procure refreshments, and a pilot to bring us into proper anchoring ground. The pinnace re-turned, but the lieutenant had been detained by the viceroy, till the captain thould come on fhore. When the fhip had come to an anchor, a ten-oared boat filled with foldiers approached, and rowed round her, but on converfation took place. Afterwards another boat appeared, which had feveral of the viceroys officers on board. They enquired from whence the Endeavour came? what was her cargo? what number of men and guns she carried? and to what port she was bound? which questions having been punctually and trully answered, the Portuguese officers apologized for having detained the lieutenant, and pleaded the cuf-tom of the place in excuse for their behaviour.

On the 14th Captain Cook went on thore, and obtained leave to furnish the thip with provisions; but this permission was clogged with the conditions of employing an inhabitant as a factor, and of fending a foldier in the Endeavour's boat every time the came from thore to the veilel. To these uncivil terms the Captain made many objections; but the viceroy was determined to infift on them, neither would be permit Mr. Banks and Dr. Solander to remain on thore, nor fuffer the former to go up the country to collect plants. Captain Cook conceiving from these and other marks of jealoufy, that the viceroy thought they were come to trade, used all his endeavours to convince him of the contrary; and acquainted him, that they were bound to the South Seas, to observe the transit of Venus over the difk of the fun, an object of great confequence to the improvement of navigation; but the vice-roy by his answer seemed to be entirely ignorant of this phænomenon. An officer was now appointed to attend the captain, which order he was defired to understand as an intended compliment: however, when he would have declined fuch a ceremony, the viceroy very politely forced it upon him.

Dr. Solander and Mr. Banks were not a little chagrined on hearing that they would not be permitted to refide on flore, and fill more fo when they underflood, that they were not even allowed to quit the ship: for