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## NATURAL HISTORY.

information on each of these subjects.

## SURFACE OF THE BARTH AND OCEAN.

To the physical knowledge of the earth contains, as is said, 198,943,750 square n.iles, land is composed principally of two large the continents of Europe, Asia, and Africa; the other comprehends the continent of Ameasoutherly direction from Asia, is so extensive as to be entitled to the name and chaand smaller masses of land, called islands when taken together, are computed to con- by pipes. tain as much land as the continent of Europe. In reference to maps of the earth, Europe, Asia, Africa and Australia, with he depth of the ocean. By numerous in- it is perfectly overwhelming.

vestigations, it does not appear that the depth is any where much more than two or [Natural Ristory, or the study of the three miles, generally it is a great deal less; works of Nature as the Creator made them, and it might be argued, that, notwithstandembraces a great many subjects and "nings, ing the large surface of the ocean, the body whatever we know about reptiles, ishes, of its waters can only be considered as lying hilds, beasts, men, plants, shrubs, trees, like lakes in the hollows of the land; for the flowers, precious stones, fossils, metals, earth is eight thousand miles in diameter, minerals, rivers, mountains, lakes, seas, and to that huge mass of dense matter the caves and other natural curiosities, and sea bears no proportion in its depth. While many more subjects which might be named, the surface of the land exhibits a variety of is natural history. Philosophers have sum- mountains ranges, hills, vales, and plains, med up all in 4 divisions or departments, 1. so also is the hottom of the sea varied Geology-or the structure of the earth, and in its configuration, abounding in sandwhat it is made of; 2. Botany -or the na- banks, hills, rocks, and reefs, dangerous to tural history of plants; 3. Zoology-or the the marmer; and the islands which rear natural history of animals, and 4. Anthro- their heads above the surface are only the pology-or the natural history of man-we tops of the highest hills and mountains in atend to give our Juvenile readers some the sea. The waters of the ocean, as every one knows, are salt, to a greater or less degree-a quality which is considered necessary to preserve them from putridity; but how this saltness is produced, no one is yet The ship was now falling fast over on her belongs especially the consideration of its able to tell currectly, although, as is gene- beam ends; and directions were given to cut surface and interior. The earth's surface ally conjectured, it must arise from the away her fore and main-mast. Fortunately, abundance of saline substances at the bottom-they fell without injuring the large boat on of which scarcely a third part is dry land; of some parts of the ocean. The cause of the remaining two thirds are water. The springs on the land, from which rivers draw their sources, is also acknowledged to be masses or tracts, one of which comprehends still very doubtful. Some consider they originate from the rains which the earth has imbibed; some allege that they rise from rica. Australia, which lies in the ocean in subterranean lakes by means of capillary attraction; and others say that they are outlets for the water accumulated in higher racter of a fifth division. All the detached parts of the country, which water has found its way through seams of rock, as if carried had got into the pinnace on the booms in

## THE CORAL INSECT.

hese remote quarters of the globe. Great work of insects, whose dimensions are less bottom! liversity of opinion prevails with respect to than those of a house-fly! The thought of

DANGERS OF A NOVA-SCOTIA FOG. Concluded.

The captain who, through the whole scene, continued as composed as if nothing remarkable had occurred, now ordered the guns to be thrown overboard, but before one of them could be cast loose, or a breaching cut, the ship fell over so much that the men could not stand. It was, therefore, with great difficulty that a few guns were fired as signals of distress. In the same breath that this order was given, Captain Hickey desired the yard tackles to be hooked, in order that the pinnace might be hoisted out; but as the masts, deprived of their foundation, were tottering from side to side, the people were called down again. The quarter boats were then lowered into the water with some difficulty, but the jolly boat, which happened to be on the poop undergoing repairs, in being launched overboard, struck one of the stern davits, bilged, and went down.the booms-their grand hope. At the instant of this crash, the ship parted in two between the main and mizen-masts; and, within a few seconds afterwards, she again broke right across, between the fore and main-masts: so that the poor Atalante now formed a mere wreck, divided into three pieces, crumbling into smaller fragments at every send of the swell.

By this time a considerable crowd of men hopes that she might float off as the ship sunk; but Captain Hickey, seeing that the boat was so loaded that she could never swim, These animals ary from the size of a pin's desired some twenty men to quit her; and, their islands, are distinguished as lying in head, or even less, to somewhat more than what is particularly worthy of remark, his the eastern hemisphere; while America, the bulk of a pea; and by the persevering orders which were given with perfect coolwith the West Indies and other islands, are efforts of creatures so insignificant, working ness, were as promptly obeyed as ever. comprehended in the western hemisphere. in myriads, and working through ages, enor- Throughout the whole of these trying mo-The seas which encompass these extensive mous structures are erected. Enormous we ments, indeed, the discipline of the ship aptracts of lands have locally various names; may well call them, when the great coral pears to have been maintained not only withbut the two principal expanses of water are reef of New Holland alone is a thousand out the smallest trace of insubordination but the Atlantic and Pacific Oceans—the former miles in length, and when its altitude, with a degree of cheerfulness which is deseparating Europe, Asia, and Africa, from though yet scarcely fathomed in twenty scribed as truly wonderful. Even when the America on the west, and the latter lying places, cannot range to less than between masts fell, the sound of the crashing spars betwixt the western shores of America and one and two thousand feet! It is a moun-were drowned in the animating huzzars of the eastern shores of Asia. The extensive tain ridge that would reach almost three the undaunted crew, though they were then oceans surrounding the north and south poles times from one extremity of England to the clinging to the weather gunwale, with the are called the Polar Seas, which have not other, with the height of Ingleborough, or sea, from time to time, making a clean been explored sufficiently for us to be able that of the ordinary and prevailing class of breach over them, and when they were exto say whether any large tracts of land lie in the Scottish mountains. And this is the pecting every instant to be carried to the

> As soon as the pinnace was relieved from the pressure of the crowd, she floated off the