

all the ramifications of business, and of love and pleasure, would stand still twenty-four hours! Well, and what? How do we get along in the winter when the steamers are stopped? How did we manage when we had scarce a single steamboat, no railroad, no telegraph, no Atlantic steam navigation? We met a man yet who would say when on his good faith that he would suffer uniformly by the stoppage of the mails on board. Incommoded we admit, but did he—enjoyed a little perhaps—but dare plead such an excuse for Sunday recreation?—

General Miscellany.

ESSENTIAL EFFECTS OF THE ATMOSPHERE.—Influence is essential to the germination and growth of plants, to the preservation of water in a state of fluidity, to the existence of life and heat, to the respiration of all kinds of animals, the process of evaporation and the production of rain and dew; to support the clouds, and to buoyancy to the feathered tribes. It is the medium of the winds—the vehicle of smells—the medium of sounds—and the source of all the pleasures we derive from the harmonies of music. The cause of that universal light and splendor which are diffused around us, and of the auroras we derive from the morning and evening twilight; and all these advantages are more secured by the transparency of its particles by its being rendered incapable of being condensed into a solid body. What, then, would be the consequences were the earth to be deprived of its atmosphere? Were the hand of Omnipotence to detach this body of air from our globe, could we suppose living beings at the moment to exist, the landscape of the earth would be robbed of all its vegetable beauties, and not a plant or flower would be seen over the whole of nature; the springs and rivers would cease to flow, even the waters of the mighty deep would be dried up and its lowest caverns exposed to view, like frightful and hideous deserts—fire nor heat would cheer the abode of man, by day or by night, no rain nor dew would refresh the fields, no gentle zephyrs would blow, aromatic perfumes be wafted from blossoming plants. The birds would no longer wing their way on high, nor would their warbling be heard among the groves. No sound whatever would be heard throughout the whole expanse of nature, universal silence would remain undisturbed throughout the world, and the delights of life be forever unknown. The morning would no longer ushered in by the dawn, nor be distracted by the evening twilight. All would gloom and obscurity by day, except in the interior of the heavens where the sun appeared, no artificial light nor flame could be procured to cheer the darkness of the night. The whole surface of the globe would present one prospect of barrenness and desolation without a single object of beauty to relieve the gloom of the scene; and this earth, which now presents to the beholder so many objects of sublime and lovely, would appear as if it had sunk into the primitive chaos whence it arose. But as we are certain that, according to the present economy of the animal system, no creature could exist in such a state of things, could be an inevitable consequence of the annihilation of the atmosphere, that all the myriads of living beings which now people the earth, would sink into irremediable desolation, and the great globe we inhabit be transformed into one immense sepulchre, without element, motion, or life.—*London Workmen's Ad.*

with the escape of the party, they all had been hauled on deck, he called Mr. Flinn, and made him take command of the boat. A loud huzza from the mad captain, whom the incident had collected on deck, and who were throwing up their hats in honor of Flinn's good fortune, arrested Lord Nelson's attention. There was something significant in the tone of their cheer which he immediately recognised; and putting up his hand for salutation, and leaning over to the crowd of midshipmen, he said with a good natured smile on his face, "Stop young gentlemen. Mr. Flinn has done a gallant thing to-day—and he has done many gallant things before—for which he has not his reward; but mind, I'll have no more making lieutenant for servants falling overboard."—*Memories of Dr. Scott, Nelson's Captain.*

ENDURANCE OF HEAT AND COLD.—We find the body capable of resisting a temperature sufficient to decompose dead matter. Animals, as well as men, have been exposed to a degree of heat exceeding that of boiling water, and without injury; when at the same time a thermometer placed under the tongue has indicated an elevation of a few degrees only above the natural standard. The power of resistance is but of short duration; for the nervous influence is exhausted by an extraordinary demand. Chemical agents come into play, and matter is resolved into lifeless form. As regards cold, the same law prevails, the limits are the same. However great the power may be of resisting it, as soon as the nervous energy is exhausted, the system is subject to injury. I have witnessed the effects of cold too long endured upon the little postillions, who are barbarously exposed to it during the winter season, at St. Petersburg. The ladies bear it for a time, as they sit on their horses, clapping their hands, and singing to keep up their courage; but this fails them by degrees, and finally benumbed, they fall from their saddles in a state of torpor which nothing but rolling them in the snow will overcome. There is seldom a severe snow at St. Petersburg, in the extreme of cold weather, that occurrences of this sort are not recorded. In very cold nights the centres are frequently frozen to death, if not relieved at short intervals. As long as nervous excitement can be kept up, the resistance of cold is very great. Gen. Broukly informs me that in the expedition to Khiva, notwithstanding the intensity of the cold, the soldiers marched along singing with their breasts of their coats open, but only as long as they were flushed with the hope of success. Where there is nothing to excite, and where exposure to the cold takes place only in the common routine of parade, its depressing effects are lamentably felt by these long exposed troops. In the time of the Grand Duke Constantine's engagement of horse going from St. Petersburg, a distance of twelve miles and upwards, was made at their head at a foot pace all the way. He had worn a red Hussar's coat, and smeared his face over with oil. It was the graduation of a man when to expose the soldiers to a great degree of cold. They arrived at the square before the palace, and were dismissed to their barracks. On following day one third of the regiment was in the hospital, attacked by nervous fever of which many died. There was no stimulus of necessity in this case, but it is the moral feeling aggravated by the physical suffering.—*Sir G. Balfour's History for the Services.*

ISLANDS OF THE EAST.—Between Australia and the main land of India lies an island region that bears the palm of beauty from all other regions of the world. It is at once in its splendour, its wealth, its green isles, without number, its blue canals and its forest waters, in its diversity of outline, hue, and aspect, now separated by broad and sweeping seas, now clustered together, and only divided by narrow windswept channels. Coasts clothed with the diversity of studied with bow and handkerchief, meet every eye. To the navigator's view. Lofly mountains, and blue, rest themselves into the air; immense valleys and sloping pasture lands stretch to the sea, and the primeval forest grows on the hills and hills, where the traveller's foot has never left its impress. Beautiful rivers flow through these green and abundant lands, where the fruits and flowers flourish in a profusion only known in Eastern soils. Every variety of magnificence, every form of beauty is to be met in all the world no more splendid region than the home of the Indian Islanders, in its beauty and glowing East.—*Nature's Magazine.*

THE WINDMILL.—The windmill is one of the most interesting objects to be seen in the country, and is a fine specimen of the art of the miller. It is a very old building, and is now used as a windmill. It is a very fine specimen of the art of the miller, and is a very interesting object to be seen in the country.

Just as it extinguishes revenge, it commensurate a spirit of purity and uprightiness to inferior magistrates, it makes the great good by taking away cupidity; it banishes fraud, covetousness, and avarice, and teaches men that the law is their right. Truth is its standard, freedom is its child, peace is its companion; safety walks in its steps, victory follows in its train; it is the brightest emanation of the Gospel, it is the greatest attribute of God; it is the centre round which human motives and passions turn; and Justice, sitting on high, sees Genius and Power, and Wealth and Birth, revolving round her throne; and teaches their paths and marks out their orbits, and warns with a loud voice, and rules with a strong arm, and carries order and discipline into a world, which but for her would only be a wild waste of passions. Look what we are, and what just laws have done for us—a land of piety and charity—a land of churches, and hospitals, and altars—a nation of good Samaritans; a people of universal compassion. All lands, all seas, have heard we are brave. We have just availed that sword which defended the world; we have just laid down that buckler which covered the nations of the earth. God blesses the soil with fertility; English blooms labour for every climate. All the waters of the globe are covered with English ships. We are softened by fine arts, civilized by human literature, instructed by deep science, and every people, as they break their feudal chains, look to the founders and fathers of freedom for examples which may animate and rules which may guide.—*Rev. Sydney Smith.*

THE MEDITERRANEAN SEA.—A distance of some 2,000 miles separates the Straits of Gibraltar from the coast of Syria; but not more than eighty miles intervene between the south point of Sicily and the northern point of Africa. By reference to this scale the eye will at once inform us of the small spaces which separate Rome from Malta, Constantinople from Athens, Antioch from Jerusalem. The Mæra is not much larger than Yorkshire and Lancashire together. Palestine is not half the size of Scotland. We see how appropriate a place this Mediterranean was, for the lessons of early navigation, for testing the results of political experiments, for the first rudiments of sacred truth. This sea was the school of the human race. Here civilized man was detained, till he had learned his Latin and his Greek, and his religion too; his Old and New Testament lessons. I hope we are in no danger of letting this be forgotten. For here in the Mediterranean it was that the Greek and Latin languages, which have ever since been the educators of the highest human intellects, were formed and perfected. These waters earned the ship of Judah from Joppa, and floated down from Tyre King Hiram's beaks of cedar wood. By the sea side on one of the shores St. Peter preached, on one of those islands St. Paul was wrecked. Across this sea lightning sailed to his martyr's tomb at Rome; at Hippo, the Carthaginian saint Augustine wrote those volumes, which have instructed the Christian centuries. To it which gives school its unity, so that it is a little world which prepares for the great world; and that which is the dignity and glory of the Mediterranean, is not that it is a navigable expanse of water covering out the globe, but that it was ordained to be the school of the human race.—*Rev. J. S. Henson's Lectures.*

For Farmers.
Pulverized Wood for Cattle.
The following new thing in the way of food for cattle is furnished by a Mr. Duncanson to Chambers' Journal. He says—"About three years since, I had occasion to send my cart-horses frequently through a piece of coppice wood, and I whenever it happened that they stopped within reach of the rods, they would greedily devour every tough they could come at. This I noticed many times. At last I was led to examine the rods on which I had seen them feeding, and found them completely stripped of their branches, some of which were of a very considerable thickness. This led me to suppose that there must be some good qualities in the wood, and this consideration induced me to get some pulverized, and given to my cart-horses, which experiment was repeated at several different times, until I was fully satisfied that it did not injure any subject on them. After this, I was no longer content with my cart-horses, but gave them a quantity of pulverized wood to my cow, and my pig, and was very much pleased to find that they both improved by it. I have since given it to my sheep, and my poultry, and they all improved by it. I have also given it to my horses, and they all improved by it. I have since given it to my cows, and they all improved by it. I have since given it to my pigs, and they all improved by it. I have since given it to my sheep, and they all improved by it. I have since given it to my poultry, and they all improved by it. I have since given it to my horses, and they all improved by it. I have since given it to my cows, and they all improved by it. I have since given it to my pigs, and they all improved by it. I have since given it to my sheep, and they all improved by it. I have since given it to my poultry, and they all improved by it. I have since given it to my horses, and they all improved by it. 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