

Daily Appeal.

MEMPHIS.

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THE NORTHERN LIGHTS.

On Thursday night last, about 12 o'clock, the heavens were suddenly lit up as with a half dozen moons. The cry of fire was heard on every street, and the fire bells of the city were rung, arousing our whole population. When the truth revealed itself it appeared that Old Nature had only lit up her own chandelier, in order, as it might be, to reveal the wickedness going on at the dead hour of night. "It's an Aurora Borealis," said some, and Aurora Borealis it was—one of the most brilliant ever witnessed in this latitude, and one which will not be probably witnessed in an age or a life time hereafter.

The circumstance has awakened attention, and for the satisfaction of our readers, we transfer to our columns from the American Encyclopedia, the entire article on the Aurora Borealis:

Aurora Borealis, also called Northern Lights, streamers, luminous appearances, occasionally seen in the sky of the temperate latitudes during the absence of the sun, and more frequently and in greater brilliancy, in the polar regions. Instead of northern lights they should therefore be called polar lights. They appear in the northern hemisphere at irregular intervals, generally soon after sunset, and often like a twilight continued late into the night, but changed in position more to the north; and again they appear in the form of a cloud, which is sometimes dark with its upper edge fringed with a flickering light. This extends along the northern horizon, parallel, it may be, with it, or arched like a rainbow. Its appearance is often like a bank of fog. As the night advances the light becomes brighter. From the edges of the cloud pencils of light, in diverging rays, begin to be sent upward, or to issue in groups from portions of the arch in the lines that would meet at its center. The northern sky gradually becomes overspread with streamers of light, the motions of which become more and more perceptible, as they shoot upward or appear here and there in unexpected places. Bodies of light, from which radiate flickering beams, appear and disappear in different parts of the heavens. The white sky is alive with an unsteady motion, or undulates rapidly with a motion like that of grass waving in the wind. So swift is the movement, that it passes from the horizon half way to the zenith in half a second of time. In a still summer night upon one of our great northern lakes, and more especially upon Lake Superior, these phenomena may be observed in great perfection. Floating in a small boat remote from the shore one seems to be enveloped in the meteor as in a fog. Nothing is visible but the unearthly light, strangely flickering, appearing here and there, filling the whole atmosphere, and keeping it all in tremulous movement. The effect is bewildering. One's ideas of space, distance, progress, and direction, are as confused as if floating among dense clouds in a balloon. Often this continues through the night, disappearing with the early dawn of day. But the appearances of the aurora are too varied for description to convey a clear idea of them. The lights at times assume various colors, as different shades of orange, green, gray, and red. When they meet at the zenith and form a corona, this has been seen of green, blue, and purple colors. The red tinge has been known to overspread a large portion of the sky, giving it at the color of blood, and when the ground was covered with snow, imparting both to the same hue. Such appearances in ancient times were regarded with great horror; and, indeed, in our own country, during the great aurora of 1822, the strange light was very generally a source of terror to the ignorant. The streamers of light are converted by the imagination into the form of familiar objects in motion. The inhabitants of the north of Scotland call them fiery dragons. The ancient Greeks and Romans regarded their appearance as portents of great events, and saw in their varying forms

differentSorts of fate, over the earth.

In rocks, sea-monsters, and right form of war.

They even imagined that sounds of trumpets and arms came from them. Nor is Pliny the only authority for the statement that sounds are emitted by aurora. So many at later times have described a noise of rumbling, bellowing, muttering, and crackling, as coming from the meteors, that it is not altogether improbable that sounds may be at times sent forth from them, though these have not been heard by the most distinguished arctic travelers who have treated upon the subject. Dr. Richardson, who gave particular attention to the aurora in the arctic land expedition of Captain Franklin, heard no sounds, but admits that the united testimony of the different native tribes, and of the oldest residents at the European ports, induced him to believe that its sounds are sometimes audible. Henderson remarks that in Iceland, where the auroras are particularly quick and vivid, a crackling noise is heard, like that of the sparks cast off from an electrical machine. Biagden and Gancia, Naire and Cavalle, all speak of this crackling from the aurora. This last, however, is but a well-tempered question. The times of appearance of the aurora, so far as they are recorded, appear to have been very irregular. The earliest accounts are those of Aristotle, who well describes the peculiar phenomena resembling those mingled with smoke seen on calm nights, or like fainting stables seen star off, and presenting purple, bright red, and blood-colored hues. In many of the ancient classics an occasional reference is made to it, and in the chronicles of the middle ages. It is frequently mentioned in the superstitious descriptions of the gleaming swords of the fighting aerial hosts. In 1580, according to authentic description, it was seen in London in the form of burning vapors. In 1574 it was seen by Stewart November 12. He states in his account, "that strange impressions of fire and smoke were seen in the air to proceed forth from a black cloud in the north toward the south; that the next night the heavens from all parts did seem to burn marvellous raging, and over our heads the flames from the bottom round about rising did meet, and these double and roll one in another, as if it had been in a clear furnace." The next year (1585), it was twice seen in Holland, and the following description of its second appearance is given by Cornelius Gemma, a professor in the university of Louvain: "The form of the aurora of Sept. 25, following immediately after sunset, was indeed less dreadful, but still more confused and various, for in it were seen a great many bright arches, out of which gradually issued spears, cities with towers, and men in battle array; after that there were evolutions of smoke every way, waves of cloudy and batlike, mutually pursued and fled, and wheeling round in a surprising manner." In 1584 a work was published by M. de Maran, entitled *Histoire des phénomènes de l'Univers*, in which he collected the various recorded observations of the phenomenon from the year A.D. 300. From this it is seen that in the latter half of the 17th century its appearance suddenly increased in an extraordinary degree, and so continued very frequent in the year 1745, when it suddenly diminished for the next nine years. On the whole, however, it is probable that no period has furnished more brilliant displays of the aurora than the last hundred years, and the most interesting portion of this period in this country, was in the years 1822, 1830 and 1832. In northern Europe, Sweden, Norway, and Denmark, it is of very common occurrence, and as seen and described by Mr. Bayley Taylor in the winter of 1835 and 1837, of wonderful beauty; and it is said that prior to the year 1716 it was considered a great rarity by the inhabitants of Uppsala; and Torfus, the histories of Denmark, and an Icelander, writing in 1706, speaks of his recollection of the time when the meteors were an object of terror to his native island. In the eastern parts of Asia, on the contrary, it is said to have become less frequent and less brilliant in recent times. In the summer months, according to the treatise of M. de Maran, it is comparatively of rare occurrence, and the greatest number of recorded observations are in the months of October, March and September. Professor Olmstead, of New Haven, who has, in several of the volumes of the American Journal of Science, and in the 51st volume of the contributions of the Smithsonian Institution, furnished many important papers upon this subject, distinguishes the appearance of the aurora as occurring in secular periods, at intervals of sixty to sixty-five years, and continuing either more than twenty years. For the first ten years the displays increase in intensity, and afterward decline, to the termination of the period. Such a period he regards as having commenced on August 27, 1822. But there have certainly been many displays of the phenomenon in recent years beyond the limit he has assigned to each period. The preceding period was from 1790 to 1821. Of the appearance in the southern hemisphere there are but few recorded observations. It was discussed by Mr. Foster, who made the voyage around the world with Captain Cook, and who witnessed it in February, 1770, in lat. 58° S. He and some other later observers agreed in its appearing there of a whitish color, and without the various tints which distinguished it in northern latitudes. This has since been described in the English works as distinguishing the austral aurora from the northern lights; but Commodore Wilkes, of the United States exploring expedition, makes frequent mention of as beautiful colored displays of the aurora in the antarctic regions as have been witnessed in the arctic. At midnight of February 9, 1840, in lat. 60° S., and long. 120° 10' E., was a splendid display of the austral aurora, extending all around the southern horizon from W. to E. N. E. Before its appearance a few clouds only were seen in the S. E., on which the setting sun cast a red tint that barely rendered them visible. The horizon, with this exception, appeared clear and well defined. The rays of light frequently reached the zenith, converging in a point near. Although no clouds could be seen in the direction of the aurora before or after its appearance, yet when it was first seen there appeared clouds of the form of masses cloud, tinged with pale yellow, orange, and yellow tints, streaming upward in innumerable radiations, with all the shades that a combination of these colors could afford. In its most brilliant state it lasted about twenty minutes...." On March 17, in lat. 58° S. and long. 79° 30' E., the magnificence of the sky previous 58° 21' evidently between eleven and twelve at night, was another exhibition of the same character. "It exceeded anything of the kind I had before witnessed; its activity was inconceivable, darting from the northern horizon, in all directions, in the most brilliant concrections; rays, proceeding as if from a point in the zenith, dashed in brilliant pencils of light like sparks of electric fluid in excess, and reappearing again to vanish, forming themselves into one body, like an umbrella or fan opening; again emerging to fit across the sky with the rapidity of light, they showed all the grandeur of intense space, or in quick succession. So

remarkable were the phenomena that even our sailors were constantly examining in admiration of its brilliancy. The best position in which to view it was by lying flat upon the deck and looking up. The electrometer was tried, but no effect perceived. The star Canopus was in the south at the time, and though visible through the aurora, was much diminished in brightness." Various estimates have been made of the height of the aurora above the surface. It has been supposed from its not changing its position with the rotation of the earth, that it belongs to the atmosphere, and is carried along with it. But, from the great surface of the country over which it has been visible at the same time, with the same general appearance, Dr. Hally and others have been disposed to ascribe it to a prodigious height. When the aurora assumes a distinct form, like that of a corona, or of an arch, as it sometimes does, and this is visible at different points upon the surface, its height can be calculated from observations carefully made at these places. Such an arch was observed on March 29, 1826, in a line crossing the magnetic meridian at right angles; and from its position in relation to Whitehaven and Washington, two places in England, eighty-three miles distant from each other on this meridian, its height was calculated by Mr. Dalton, of Manchester, to be nearly one hundred miles above the surface. Similar observations have been made in this country by Professor Olmstead, Professor Alexander C. Twining, and others, in 1836 and 1838. In August of the latter year the two gentlemen named, being at points twenty-two miles apart, observed peculiar forms of the aurora, which they regard as the same objects seen by both. The height, calculated by the angles of elevation, was 1444 miles. The observations of Prof. Twining, made with others in December, 1833, indicate the height to have been certainly not less, and probably much more, than forty-two and a half miles, and in May, 1836, to have exceeded one hundred miles, and probably to have amounted to the result obtained at the same time by Professor Olmstead, of one hundred and sixty miles. The conclusion at which Professor Olmstead arrives is that the auroral arches seldom, if ever, fall below an elevation of seventy miles, and do not often exceed one hundred miles. The arctic traveler, Dr. Richardson, Captain Franklin and Parry, and Lieut. Hood, regarded the position of the aurora as low in the atmosphere—below the hazy form of cloud which produces a fog bank in the horizon. Dr. Richardson also frequently observed the lower surface of the clouds illuminated by the polar lights, which could not be if these lights were at such an extremely high elevation as many have supposed. Captain Franklin, too, noticed the passage of a brilliant mass of light, variegated with the prismatic colors, between the earth and a cloud, concealing the latter until the occupation had passed by. Ross, Parry, and others also saw a bright ray of the aurora shoot downward from a northern light they were admiring, till it intersected the view of the land, which was less than two miles distant. This is an interesting feature connected with the aurora, and ought to receive the particular attention of any who are fortunate in being observers of its most remarkable displays. The discretion and apparent height of the object may easily be noted and recorded, the former as taken by the compass, or better, by its position in relation to particular stars, which will also determine the height. An isolated observation of this kind will have no value; but, in connection with those made by other persons, in other places, may prove of great interest. When the aurora appears in the form of an arch, the position of its boundaries ought also to be noticed, as they appear among the stars. The position of the arches at right angles to the magnetic meridian, crossing it as parallels of latitude round the magnetic axis, is a subject of especial interest, on which moderate inquiry is desirable. The line of this axis in any region is the north and south line indicated by the magnetic needle. Every marked change in the appearance should be noted, with the exactitude of its occurrence, and as many particulars in relation to the clouds as may be. The British Association has called the attention of observers to the recording of these phenomena, and published recommendations as to the points particularly important to be noticed, in volume four of its reports. It is observed that the magnetic needle is affected by the polar lights under some circumstances; it is violently agitated; it oscillates, and is deflected to the east or to the west, when the beams or fringes of light are in the same plane as the dip of the needle, and moreover, is directed toward that point where the rays from the horizon concentrate. This fact connects the phenomena directly with magnetism, which is developed by the electrical action taking place in the atmosphere. While the northern lights continue brilliant, the air appears to be highly charged with electricity. An experiment with the electrical machine shows, moreover, a singular resemblance in the phenomena developed in those we witness in the heavens, and still more the condition of the atmosphere, as to density favorable for the development of the aurora. A glass tube three feet long, hermetically sealed, and partially exhausted of air, laid along the conductor of an electrical machine, becomes illuminated from end to end, and continues so for a considerable time after it is removed from the conductor. When, after this, it is drawn through the hand, the light becomes intense throughout its length, and will continue for some time a spark from it at intervals, if the tube be held steadily by one extremity. If grasped by the other hand, flashes of light will dart from one end to the other, and so continue for a considerable time. But the experiment will not succeed except the air be of the proper degree of density. Such phenomena, seeming to connect the aurora directly with electrical excitement in the atmosphere, and this requiring more density than that of its upper strata for such excitement to take place, the estimated heights of the northern lights with incredulity. Professor Olmstead considers that he has removed the objection by assigning to the phenomenon an interstellar or cosmical origin, though the exhibitions take place in the upper regions of the atmosphere. The nebulous matter, like that which furnishes the material of the meteoric showers, the nebulae, the light, and is known to exist in the planetary spaces, probably the cause of the auroral displays. The periodic return of the phenomena indicates such a position, as, too, its rapid motion, which exceeds that of light or electricity; and again, the extent of surface, covering many degrees in longitude, over which the phenomena is seen at the same time. The light he regards as emitted by the friction of the earth ploughing, with its atmosphere, through the vapor, the velocity being sufficient, notwithstanding the rarity of the materials, to develop this luminosity; and the magnetic phenomena he explains by supposing, with Biot and Dalton, that the vapor is metallic, probably ferruginous, a supposition to which the stones of iron precipitated upon the earth in the form of serpentine lead some plausibility; as also the fact that by the intense heat generated by the hydro-oxygen blowpipe, the metal is volatized into vapor of extreme rarity. It was suggested by Maran, in his work, before referred to, that the nebulae light might afford a material of the aurora, and of meteoric showers. It has been observed by operators of the Cais or chemical telegraph, that very singular effects are produced by the aurora upon the telegraph wires. The atmospheric electricity generated during thunderstorms passes from the wire to the chemically prepared paper, emitting a bright spark, and a sound like the snapping of a pistol. It never remains long upon the wires, though it travels sometimes 40 to 50 miles before it discharges itself. But the electricity produced by this aurora passes along the wires in a continuous stream, with no sudden discharge—effecting the same result as that by the galvanic battery. A colored mark upon the paper is made by the positive pole of the battery; the negative current, on the contrary, produces a bleaching effect. Preceding the appearance of the aurora, faint blue lines appear on the paper, which gradually become stronger and darker, as to burn through several thicknesses of it. The effect disappears, and is soon followed by the bleaching process, which entirely extinguishes the artificial current of the batteries. When these effects have been observed, the aurora follows, and presents some of the most brilliant displays along the lines of these telegraphs; and so familiar have the operations become with the disturbances which the aurora causes, that they can predict its appearance with much certainty. They regard the electrically generated battery as precisely that of the electro-galvanic battery, which is distinguished by its voluminous current, without intensity of action, differing from atmospheric electricity, or the kind developed by friction, which may be dissipated by placing wire conductors, leading to the ground, in close proximity to the line of wires.

It has already been observed, that one of the most interesting periods of the display of the aurora was during the years 1835, 1836, and 1837. The most brilliant exhibitions in this period were on November 17, 1835, April 22, 1836, January 25 and November 14, 1837. Prof. Olmstead observes of the first, that "it was distinguished for exhibiting on a grand scale nearly all the varieties of the aurora, ever observed in our climate, including the bark of auroral vapor in the north—the sterners—the arches—the corona, formed around the magnetic pole of the dipping needle—and the manifestations of merry dances; while the whole were set off by that peculiar display of crimson light, which usually attends the most remarkable displays of the aurora. The second, that of April 22, was distinguished above all others which I have witnessed for the auroral waves. They began to be observed before the end of twilight, and continued nearly all night, following each other with astonishing celerity. The aurora of January 25 was the most magnificent of all. (This was published previously to the occurrence of November 14, 1837.) It resembled that of November 17, 1835, in many particulars, but its colors were brighter and more diversified, and its columns arranged with more symmetry around the magnetic pole, supporting a canopy of unrivaled grandeur. On February 18, of the same year, the northern lights appeared in great beauty in London, Belfast, Paris, Gettlingen, and other places in Europe, and the same evening was noticed also from New Haven, illuminating a portion of the heavens toward the N. N. E. with a beautiful rose red light. In Europe, as at New Haven, the magnetic needle was observed to be sensibly deflected and agitated during the continuance of the phenomenon. On the morning of November 13, occurred one of the periodic returns of the meteoric showers, such as had been annually witnessed for the six preceding years. The next day a fall of snow at the north covered the surface of the country, as observed by the same writer, quoted above, with a mantle of the purest white. In the evening, "about six o'clock, while the sky was yet dark with falling snow, all things suddenly appeared as if dyed in blood. The entire atmosphere, the surface of the earth, the trees, the tops of houses, and, in short, the whole face of nature, were tinged with the same scarlet hue. The glow of fire was given, and our vigilant firemen were seen parading the streets in their gaudy uniform, which assumed the general tint, seemed in excellent keeping with the phenomenon. Such was the appearance exhibited over a large portion of the country, where the clouds were not so dense as to obscure the auroral display. The false alarm of fire was given, and our vigilant firemen were seen parading the streets in their gaudy uniform, which assumed the general tint, seemed in excellent keeping with the phenomenon. 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