

THE CABLE

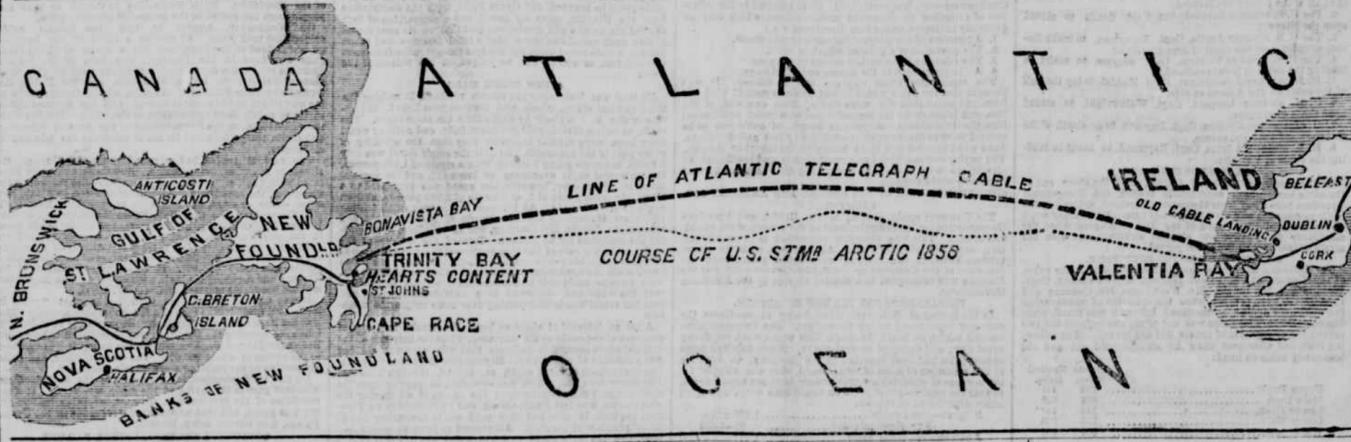
THE ATLANTIC CABLE

Arrival of the Great Eastern
The Cable Successfully Laid.

Constant Communication Through Its Entire Length.

Dispatches from Cyrus W. Field.

DETAILS OF THE EXPEDITION.



GREAT REJOICINGS AT ITS SUCCESS

Dispatches from President Johnson, Sec. Seward and the Directors of the Telegraph Company.

History of the Atlantic Cable.

Biographic Sketch of Cyrus W. Field.

A NEW SUBMARINE CABLE.

THE FLEET ENTERING THE BAY OF HEART'S CONTENT.

Special Dispatch to the N. Y. Tribune.

HEART'S CONTENT, Friday, July 27-7:30 A. M.

Dispatches from Cyrus W. Field.

HEART'S CONTENT, Saturday, July 28, 1866.

HEART'S CONTENT, Sunday, July 29, 1866.

HEART'S CONTENT, Monday, July 30, 1866.

HEART'S CONTENT, Tuesday, July 31, 1866.

HEART'S CONTENT, Wednesday, August 1, 1866.

HEART'S CONTENT, Thursday, August 2, 1866.

HEART'S CONTENT, Friday, August 3, 1866.

HEART'S CONTENT, Saturday, August 4, 1866.

HEART'S CONTENT, Sunday, August 5, 1866.

HEART'S CONTENT, Monday, August 6, 1866.

HEART'S CONTENT, Tuesday, August 7, 1866.

HEART'S CONTENT, Wednesday, August 8, 1866.

HEART'S CONTENT, Thursday, August 9, 1866.

HEART'S CONTENT, Friday, August 10, 1866.

HEART'S CONTENT, Saturday, August 11, 1866.

HEART'S CONTENT, Sunday, August 12, 1866.

HEART'S CONTENT, Monday, August 13, 1866.

HEART'S CONTENT, Tuesday, August 14, 1866.

HEART'S CONTENT, Wednesday, August 15, 1866.

HEART'S CONTENT, Thursday, August 16, 1866.

HEART'S CONTENT, Friday, August 17, 1866.

HEART'S CONTENT, Saturday, August 18, 1866.

HEART'S CONTENT, Sunday, August 19, 1866.

HEART'S CONTENT, Monday, August 20, 1866.

HEART'S CONTENT, Tuesday, August 21, 1866.

HEART'S CONTENT, Wednesday, August 22, 1866.

Valencia Dispatches.

July 13.—A telegram from Valencia of July 13, says: The following message has been received from the Great Eastern...

July 14.—The following telegram has been received from the Great Eastern, dated July 16, noon. Lat. 52° 6' N., long. 20° 36' W. cable paid out 420 miles. Distance run 276 miles. Weather fine, all on board well.

July 15.—The following telegram has been received from the Great Eastern, dated July 16, noon. Lat. 52° 6' N., long. 20° 36' W. cable paid out 420 miles. Distance run 276 miles. Weather fine, all on board well.

July 16.—The following telegram has been received from the Great Eastern, dated July 16, noon. Lat. 52° 6' N., long. 20° 36' W. cable paid out 420 miles. Distance run 276 miles. Weather fine, all on board well.

July 17.—The Great Eastern, July 17, noon. Lat. 52° 15' N., long. 23° 48' W. cable paid out 537 1/2 miles; distance run 495 1/2 miles; all going on well.

July 18.—The report of the progress of the Atlantic Cable from the Great Eastern was highly favorable. At noon to day 62 miles of the cable had been paid out and everything was working finely.

July 20.—The news from the Great Eastern continues satisfactory; 100 miles have been paid out.

Latest from Aspy Bay.

NO MORE DISPATCHES FROM THE CABLE—THE NEWS YACHT RETURNS TO THE NEWFOUNDLAND SHORE—SHE WILL BRING LATER ADVANCES ON MONDAY MORNING.

ASPY BAY, C. B., July 29—8:30 P. M.

All dispatches from Europe via Heart's Content and Port au Basque, being merely relative to the successful laying of the cable, have been forwarded by telegraph from this point, and the news yacht sailed this afternoon on her return to Port au Basque. Another vessel will arrive tomorrow (Monday) morning from Port au Basque with further advices from the cable and Europe. The telegraph lines are in good working order.

Rejoicings Over the Successful Laying of the Cable.

WASHINGTON, July 29, 1866.

The intelligence of the successful laying of the Atlantic telegraph cable occasions much rejoicing throughout the city, and has attracted those who had predicted a failure of the enterprise. The President of the United States and the Secretary of State were the first in Washington to be apprised of the fact, and promptly sent responses to Cyrus W. Field, GREAT EASTERN.

LOUISVILLE, July 29.—There was great excitement here to-day at the announcement of the reception of foreign news through the Atlantic cable.

Cyrus W. Field.

To the indomitable energy and perseverance of Mr. Cyrus W. Field, the joining, by electricity, of the old and new world is due, under the most adverse circumstances and in the face of such opposition that would have deterred many a less determined man. Mr. Field, by his dogged resolution, overcame all difficulties, and has succeeded in perfecting one of the greatest undertakings ever conceived by the mind of man.

Mr. Field was born in Stockbridge, Mass., November 30, 1819. At an early age he came to New York, and commenced his business life as a clerk in a counting-house down town. So ambitious a youth could not long remain in such a position, and in a few years he became the head of a large and prosperous house of business. As a mercantile man he was eminently successful, so much so that in 1853 he was enabled to retire from active business pursuits.

After spending six months in South America, he turned his attention to the subject of oceanic telegraphs. This became his hobby, and the plan of laying a cable across the broad Atlantic was his aim. In 1854, he succeeded in procuring a charter from the Legislature of Newfoundland, granting him an exclusive right for 50 years to establish a telegraph from the Continent of America to that colony, and thence to Europe. After this Mr. Field's whole time was taken up and given to the furtherance of this undertaking. He was actively engaged in the construction of the land line of telegraph in Newfoundland, and in the two attempts to lay the submarine cable between Cape Ray and Cape Breton.

In 1854 and 1856 he visited England for the further prosecution of his schemes, which were so far successful that in 1857 an attempt was made to lay a cable across the Atlantic ocean, which failed through the antagonism of the elements. Notwithstanding, Mr. Field at once set to work to prepare himself for another trial. Defeat could not dishearten him. He knew his project was feasible and he clung to it with tenacity. This was not so with the Directors of the Company; they were for abandoning the enterprise, but upon the arrival of Mr. Field at London, whether he at once repaired, he set before the Directors the prospects and condition of the enterprise. New hope was infused into the company, and arrangements were immediately entered into to renew the attempt the following summer.

In 1858, after an experimental trip in the Bay of Biscay, a second attempt was made, which was also unsuccessful. A third attempt was made in 1859, and this was successful. The fourth was triumphant, and America and England were neighbors. Messages were sent to and from Queen Victoria congratulated the President, and the President congratulated Queen Victoria. But, alas! this did not last; news came that continuity was destroyed, and to all intents and purposes the cable was useless.

Even this did not deter Mr. Field from making another attempt, but it was after a lapse of seven years. During the whole of this time he had been working energetically for this object, which was so far crowned with success that in the summer of 1865 the laying of the cable was again attempted, but resulted disastrously.

After all these misfortunes, Mr. Field, who apparently is not acquainted with the word "fail," has been successful. America and Europe are now joined. And the stupendous undertaking of laying the Atlantic cable, will forever remain a monument to the fame and honor of Mr. Cyrus W. Field.

A New Submarine Telegraph Cable.

The long-protracted efforts of those engaged in the great enterprise of laying a telegraph cable from Ireland to Newfoundland, the project of having telegraphic communication between this country and Cuba, and other similar projects, have for a long time specially directed the attention of scientific men to all experiments and improvements in submarine telegraphy. The recently-announced successful laying of the Atlantic cable will have a tendency to increase the interest now manifested in the subject of submarine telegraphing, and therefore we deem it well to call the attention of scientific men to the telegraph cable recently patented by Prof. G. B. Sigsbee, of this city.

Whether the present cable between Valentia and Heart's Content shall prove a continued success, or not, Mr. Sigsbee, who has for a long time given his most careful attention to the subject of laying telegraph cables in deep water—believes that this cable and those previously laid or attempted to be laid, are not constructed on the best principle, or that in deep water as on land, and Mr. Sigsbee would so far as a submarine cable is concerned, be in favor of a new cable, which he has recently patented, and which he believes to be superior to any other cable now in use. It is a daily paper has been published on board the Great Eastern.

to be both quick and uncertain. This, in fact, proved to be the case. Several times she dived down with her grappling iron and ropes across just over the line of the buoy, and it seemed impossible to see or get on board of her that she could have been there. However, she did not repeatedly that it was after 10 o'clock before a great strain was seen to come upon her grappling ropes, and the buoy itself began to follow slowly, dodging and dipping about in the form of an S. Directly this was noticed, her paddles were reversed, and the great ship brought to a standstill, and after a deal of shouting and directions from the buoy were sent across, and brought the vessel and her crew, through the hauling-in machine. When this was perfectly secure, and a light grip had of it, the fastening on the buoy was not even, and the buoy, red and rose more than half its length above the water, and went tossing about at random. Nobody, however, troubled himself about the buoy, though some were catching when compared with submarine cables, and it was wished to make the splice at once.

This was rather a long operation, and though done with every speed consistent with safety, occupied nearly four hours before it was completed. Before it was begun the shore end was put in connection with the battery on board, and a message at once dispatched to Mr. Glass at the telegraph house. At the latter place, Mr. Glass, with Mr. Varley and all the staff, had been waiting since dawn for the first signal, that the shore end was found. The marine galvanometer had been washed with impure water for the long-expected signal; but it was muffled and gave no sign till about 11:30, when its stationary light began to move in a rapid zigzag of dash and dot from right to left, which were read as they came with ease, and the message was: "Got the shore end—going to make the splice—"

To this Mr. Glass replied with a few words of congratulation, and for a little time a rapid conversation was kept up between the shore and the buoy, and the shore end was brought to the light stood still and mute for the work of making the splice had begun. This with a cable of such length and importance could not be done in a hurry, and it was necessary to have the most scientific mechanical skill, for a faintly light might delay the working of the wire for weeks. How it was made on board the Great Eastern, however, is not for publication. The end of the cable, stored in the afternoon tank, was brought out, and about six fathoms length of the wire and lamp covering unrolled, and while this was being done the same cable was being unrolled from the buoy, and with the shore end which was picked up from the buoy. In this manner the galvanometer was quite laid here, and then the ship's rigging was cut away for a considerable length of both parties.

The strand of copper conductors was not wound from each end, and the two joined together by a different length, so that to which it was wound, so that no place were any two joints near each other. Every junction, too, was firmly bound round with fine wire, and the wire was covered with gutta-percha. This is the most important work of all, and every step in its long process is watched with the most careful attention. With such a cable, and with such a length of wire, it is not to be thought that an ordinary tape, they employ the conductor in fold after fold, each laid transversely to the other, and each, as it would round, in having edges and corners, and a small space between the folds, and the whole is made to move. This fine-fibered ray of light is thrown upon a graduated scale, about three feet distant from it, so that with its commencement in the light, the light is thrown upon a scale, and a rapid passage of the ray of light to the right or left means, as they pass over the divisions of the scale in front, different letters, and the position of the scale is so arranged, that every particular degree for a second or so means dots, and so by dots and dashes of this flashing ray the signals are read, the work being much facilitated, and the light being over five knots an hour, the light is thrown upon a scale, and a rapid passage of the ray of light to the right or left means, as they pass over the divisions of the scale in front, different letters, and the position of the scale is so arranged, that every particular degree for a second or so means dots, and so by dots and dashes of this flashing ray the signals are read, the work being much facilitated, and the light being over five knots an hour, 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