

THE ECLIPSED SUN.

OBSERVATIONS GATHERED FROM ECLIPSES OF THE SUN.

Conclusions of Eminent Astronomers Verified by Recent Photographs of the Sun's Corona as Seen During the Time That the Solar Body Was Hidden.

When eclipsed, the majestic king of day condescendingly permits the structure of his mysterious appendages to be photographed and analyzed spectroscopically. Never in the whole history of astronomy has a finer opportunity for such work been afforded and so skillfully and completely improved by astronomers as that of the recent eclipse.

M. Flammarion, the French astronomer, after reading the Chilean cable dispatches announcing Professor Pickering's recent eclipse observations, is reported to have said: "They confirm the theory that the sun is surrounded by a luminous atmosphere to a distance equal to one-eighth of the sun's diameter."

Scarcely a quarter of a century ago many astronomers questioned whether the solar atmosphere had any marked extension, and even doubted whether the corona was a solar appendage at all. But in the light of the late eclipse it is not astonishing that an astronomer expresses the opinion that the sun's atmosphere extends outwardly to the distance of 100,000 miles.

The eruptive forces of the sun must be enormous indeed to eject the matter composing the flaming prominences not infrequently observed 40,000 miles broad, with an uprush of 235 miles a second and attaining occasionally an elevation of 400,000 miles.

All prominences, Zollner and Respighi have shown, are originally phenomena of eruption, preceded by reticular jets, either vertical or oblique, ascending to great heights and then seen falling back again toward the sun like the jets of our fountains.

Professor Schaeberle cabled from Chili that his eclipse observations confirm his mechanical theory of the corona, which regards this vast appendage as composed of streams of matter ejected with initial velocities of 250 miles a second from the sun by forces which are most active near the sun spot zones.

Indications of such eruptive activity have been often observed in the higher regions of the prominences. A further confirmation of this theory is that the corona in outline resembled that which Professor Schaeberle predicted some months ago.

As far back as the eclipse of 1874 Mr. Brothers noted that "prominences were most numerous on the side of the sun where the corona was brightest," an evidence that the coronal matter is not less than that of the prominences ejected from the sun.

Mr. Proctor, discussing the observations of that eclipse, concluded: "I conceive we have now clear evidence of a form of action—but whether eruptive, electrical or repulsive is not yet obvious—exerted outward to enormous distances by the sun and with maximum energy at the spot zones, but local, variable and probably intermittent."

It will be seen, then, that Professor Schaeberle's theory, though by no means established, accords with old observations. No other explanation of the corona has been offered save that which attributes it to reflection from myriads of incandescent meteors or comets dust circulating around the sun.

But this hypothesis has never been supported. If the corona were chiefly due to meteoric dust revolving around the sun, we should certainly expect to see it regular, and not as it generally appears, gapped, quadrilateral or four rayed, with immense wings or extensions. There seems, therefore, to be no other inference possible but that which telescopic scrutiny has long suggested—that the corona is originated and maintained by countless ejections issuing from beneath and flung through the photosphere by the sun's vertical or volcanic forces.

If the final study of the coronal photographs obtained sustain this view, scientists will have at least a working hypothesis for the determination of the cyclical variations of solar heat and the corresponding effects upon terrestrial temperature and climates. The theory in question obviously opens up a new and fascinating inquiry into the anomalies of the earth's seasons which are due to variations of solar activity. We seem to be thus happily led to the very threshold of one of the grandest discoveries of modern science, which promises when developed to yield a rich harvest of practical results.

Suggestions For Mary Anderson. Mrs. Mary Anderson-Navarro, sometimes known as "Our Mary," is writing a book of reminiscences. If she goes back far enough and sticks to facts, they will be highly interesting. She should tell how Dr. Hamilton Griffin went on to change in St. Louis and scattered tickets broadcast that the house might be filled. And she should publish the first opinions of the New York critics. Such things do not in the least reflect on her ultimate triumph, but merely show her early luck and confidence in her own ability. Let us have the reminiscences from the beginning.—New York World.

FINANCE AND TRADE.

Stock Exchange Review. New York, June 10.—The speculation at the stock exchange was strong throughout the session today. The advance of the Northern Pacific funding plan, announced by President Oakes, and the belief that the Richmond Terminal and National Cattle reorganization plans would be carried through, all added to the bullish feeling which set in after the excitement in Chicago early in the week. The buying movement was stimulated by favorable reports of railroads. Then again the operators most prominent on the base side have changed front and are pronouncedly bullish on a number of leading specialties. Most all the stocks named sold at the highest points of the week, and closed near the highest points.

Government bonds closed steady. MONEY QUOTATIONS. New York, June 10.—Money on call, nominal 3 per cent. Sterling exchange—steady; bankers' 60-day bills, \$4.85; 90-day bills, \$4.95; 6-month bills, \$5.05; 1-year bills, \$5.15; 2-year bills, \$5.25; 3-year bills, \$5.35; 4-year bills, \$5.45; 5-year bills, \$5.55.

STOCKS AND BONDS. New York, June 10.—Closing quotations were as follows: U. 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