

degrees. The wind at 10 A.M., (mean local time) was from the N.E. by E., with a clear sky, from which time light *cirrus* clouds began to form in the higher region of the atmosphere, passing from W. to W.S.W., in a direction contrary to the lower current of wind (N.E. by E.) At 10h. 38m. a slight halo was seen round the sun, and at 10h. 45m. it presented a very rare and beautiful spectacle. The sun, bright and *white*, was in the centre of a halo or circle of 44 degrees in diameter, its lower or southern limb being about 37 degrees above the horizon; this circle was a bright halo of light, white and bright at its outer edge, and which was shaded inwardly and towards the sun of a pale orange colour, and an occasional tint of blue and red ray nearly 2 degrees in breadth. Both the lower limbs of this halo on the edge next the sun were more broad than elsewhere, giving the appearance of a crescent on each side. This halo or bright circle was filled in as it were with a dark ground, consisting of *cirrus* clouds, which passed quickly and constantly across from a westerly direction.

Another circle of a white colour and less bright, was also seen. The circumference of the wheel was in the centre of the bright halo, or more properly in the sun itself; the ring extended beyond the zenith, and exceeded the brighter one considerably in diameter. Another smaller circle was enclosed between the bright northern limb of the halo and the last mentioned circle, which on approaching its periphery separated somewhat, and crossed each other from right to left, extending east and west for a short distance, and the breadth of these circles were from $1\frac{1}{2}$ to 2 degrees.

Lower down, nearer the horizon, on either side of the halo, were arcs or broken portions of an imperfect circle, somewhat resembling inverted rainbows, with distinct prismatic colours which varied both in brightness and extent. These appearances decreased and ceased at 12h. 40m. P.M. The wind veered in the S.E. by E. with an increase of temperature and a cloudy sky. The following day at 11 A.M., another halo appeared round the sun, but unattended with any of the peculiar appearances as above noticed.

The other solar and lunar haloes and coronæ, although more frequent than usual, offered no peculiarities.

Observations on the *Solar Spots* still form a part of the records at this place.