Abstract

In this study photographs of sky, which included the asteroid

Ceres and reference stars on the same film, were taken. A camera with

350 mm lens was attached on a 16-inch telescope which was used to track

stars. The photographs were taken several time a night for some night

its movements were searched by means of a pair of

succesively to show the movements of the Ceres among the stars.

projectors. A travelling microscope was used to measure the diameter

the negative images of stars and the Ceres. A photometor was used to

determine the density of the negative images of these stellar objects.

Ceres by Photographic Method

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From these parameters, the diameters and the density of negative images of stars and the Ceres, were use to plotted two calibation curves against the visual magnitude of the reference stars to determine the visual magnitude of the Ceres and the results were compared.

The travelling microscope was also used to measure the positions of the reference stars and the Ceres on films and then the resuls were calculated to determine the celestial coordinates of the Ceres.