## The first results of astrometrical CCD-observations of extragalactic reference sources at Kharkov Observatory.

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A program of astrometric observations of the sky areas of 10.5 x 8.5 in dimension containing optical counterparts of the ERS extragalactic radio sources was launched in 1998 at the observing station of the Astronomical Observatory of the Kharkov National University. The final goal of the program is to state a relation between the optical and radio coordinate systems. Observations are being carried out with the AZT-8 reflector (a diameter of 700mm, focal length of 2819mm) using a ST-6 CCD-camera (375 x 242; 8.6mm x 6.5mm) mounted in the Newton focus of the telescope. The camera and observing process control, as well as data displaying and image preprocessing are fulfilled with the Pentium P-60 computer. First results of observations and preliminary processing of optical counterparts of extragalactic radio sources are presented. The USNO-A2.0 catalogue was used to identify the stars within the frame for the stellar magnitudes up to 20m. As many as 12 reference stars with the magnitudes close to that of an object under consideration and distributed as evenly as possible around the source were being used usually. The accuracy characteristics of observations in the chip frame of reference as a function of stellar magnitude are presented. They demonstrate a sufficiently high inner accuracy of observations being of 0."05 for the stars brighter than 17m. The coordinates of optical counterparts of radio sources will be finally obtained in the system of a reference catalogue which is being created at the Nicolayev Astronomical Observatory on the base of observations with the CCD-axial meridian circle.