CCD DRIFT SCAN OBSERVATION ON NIKOLAEV AMC

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CCD observations in drift scan mode have been carried out with the AMC since 2002 to create wide calibrated fields around ecliptic. The size of one strip was 3deg x 24arcsec or 8000x1093; 1094 pixels in 2002 year, then length of strip was increased up to 13000 pixels in 2003 year, and up to 20000 pixels in 2004 year.

The AMC2002 and AMC2003 catalogues have been obtained from observations made in 2002 and 2003 years. The UCAC2 was used as a reference catalogue during the reduction of observations. All reductions were made by using SurfAstro; software package, which was developed in our observatory. This package includes determination of the rectangular coordinates for star-like objects, identification of stars in the system of reference catalogue, and calculation of the equatorial coordinates for given objects.

The AMC2002 catalogue consists of positions for about 11000 stars in declination zone of -7 degree. The mean number of observations for one star is 5.3. Catalogue accuracy is 30 mas in right ascension and 48 mas in declination for stars of 9-12 mag, 45 - 52 mas for stars of 12-13.5 mag, and up to 120 mas for stars of 14-15 mag.

The AMC2003 catalogue contains more than 13000 stars in ecliptical zone around extragalactic radio sources. The mean number of observations for one star is 4.5. Catalogue accuracy is about 50 mas in rigth accention and 60 mas in declination for stars of 9-10.5 mag and 80 - 120 mas for stars of 14-15 mag.