APPLICATION OF GSC CATALOGUE TO MINOR PLANETS PLATE REDUCTION

López Garcia A.[(1)], *Yagudin L.*[(2)], *Martínez Usó M.J.*[(3)]
(1) Astronomical Observatory
Department of Applied Mathematics and Astronomy
University of Valencia, Spain
(2)Pulkovo Observatory, Russia
(3) Department of Mathematics
University Jaume I of Castellón, Spain

GSC catalogue, corrected of systematic and plate Schmidt errors is applied to compare more than a thousand minor planets observation with previous PPM catalogue reductions. One gives differences of right ascension and declination and internal, external and mean error values for PPM-GSC (non corrected)-GSC (Corrected).

We apply an automatic reduction process to minor planets observations obtained at the Valencia Observatory, using both PPM and GSC catalogues.

Finally, standard and corrected O-C stars have been applied to small plate field reductions in order to simulate CCD results.