

Grosheva E.A., I.S. Izmailov, E.V. Khrutskaya (Pulkovo Observatory, Russia):

Title: Mobile Device for Digitizing of photographic plates: the first results.

Abstract: The first results of astrometrical reduction for 24 plates with observations of Saturn's satellites and for 40 plates with images of selected asteroids are presented. Digitization of plates have been made using Mobile Digitizing Device (MDD) based on 21.1-megapixel full-frame CMOS digital single-lens reflex camera Canon EOS 5D Mark II. The speed of digitizing is 60-70 plates per hour. Random error of measurements for the same plate is 0.7-0.8  $\mu\text{m}$ . The matters of calibration of MDD are discussed.