

SLR Station Riga 1884, Status Report

J. Kauliņš (1), K. Salmīns (1), J. del Pino (1), V. Silamiķelis (4), M. Abele (1), A. Meijers (1)
(1) Institute of Astronomy, University of Latvia, Riga, Latvia; (4) Institute of Atomic Physics and Spectroscopy, University of Latvia, Riga, Latvia

The poster covers the SLR station upgrades and results since 2018.

Among them:

A new SLR detector unit was installed, including a second channel with a new HPD photodetector.

Upgraded visual guiding channel, using the Andor iXon Ultra EMCCD camera and a computer-controlled filter wheel for photometry. We have started photometric observation (up to 10 Hz).

A new upgraded local ties network determination, replacing the 1996 solution. Redetermination of the SLR system delay using the new local ties monuments as external targets.

New computer-controlled optical channel switching system, laser beam divergence unit and receiver FOV control installed. The Telescope drive has been upgraded with COTS components.

Testing of new Event Timer models has started.

Due to the repairs, upgrades and COVID regulations, the total number of observations has been affected during the period 2020-2022.