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The 1884 SLR Station in Riga: A Review of the Current Situation

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The SLR station 1884 Riga started in 2021 a process of upgrading several components of the SLR system and adding new components and capabilities. The new local ties, has been measured, replacing the 1996 solution. A full recalibration of the SLR system was done using the latest local ties. The new ITRF2020 coordinate solution for the SLR 1884 Riga is significantly improved in relation to the ITRF2008 and ITRF2014 solutions. This is a consequence of the new hardware introduced, the improvement of operation procedures, both software and operators training, and the full and regular system calibrations carried out since 2014. The 2023 results show that our system currently has a range bias of the order of 1 cm, precision of <5 mm and current normal point RMS is 3mm. Our station is now at the ILRS global network top third in the range bias long- and short-term stabilities and normal point precision. We present an overview of the latest developments in satellite photometry and event timing.

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