**SLR Latin American Network and its contribution to the ITRF 2014**

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**Abstract**

SLR technique is a proven geodesic-astronomical discipline, with significant potential in terms of its contribution to the definition of Reference Systems (celestial and terrestrial), Monitoring of Earth Rotation, Time Scales, Geodynamics and other applications.

Within the ILRS (International Laser Ranging Service) global network, continental subnets that carry out various scientific projects coexist. In particular, in South America there are four SLR stations well located in the area; being the Arequipa Station in Perú the oldest one in the Southern hemisphere, code ILRS 7403 (set up in 1989). The ILRS 7407 Station in Brasilia is operational since 2014, and finally two stations in Argentina are operational as well, one of them, ILRS 7406 in San Juan and the other one ILRS 7408 in La Plata, Buenos Aires, set up in 2006 and 2015, respectively.

This presentation shows in detail the four SLR stations (included in the current international reference frameworks ITRF 2008 and ITRF 2014) and the next challenges for this satellite technique in Latin America, considering future network projects.

Keywords: SLR Network, IERS, SIRGAS