

SESSION 4: SLR Techniques (Monday Evening)

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New developments in SLR techniques are mainly focused in the KHz repetition rates, but there are other developments.

- KHz and station upgrades
 - Kunming station upgraded to 1KHz. A new rotational shutter was also implemented.
 - Metshähovi upgraded from the old 1Hz to 2KHz. New hardware acquired (laser generator, spad, time devices). But a new software had to be built from scratch. The good news: it will be accessible for the laser stations community.
 - Graz: still developing for higher repetition rates, up to 10 KHz. Pulses up to 2KHz remain at 400 μ J, additional pulses at 80 μ J. New Riga ET needed to replace the Dassault based. A limit for the repetition pulse increase is imposed by the overlap.

- Related to laser generators.
 - 10 Hz to 2 KHz laser generator equipments shown by High Q Laser .
 - Diode- or lamp-booster modules from Innolas Laser allows to get up to 1 J for 10Hz repetition rate.
- No related to KHz, but linking SLR and GNSS, beyond the ranging:
 - Russian device to be implemented in the new GLONASS satellites, useful to monitor satellites time and frequency but also to time transfer between Russian SLR stations.