

Wettzell SLR: The first year of operating two SLR systems in one place

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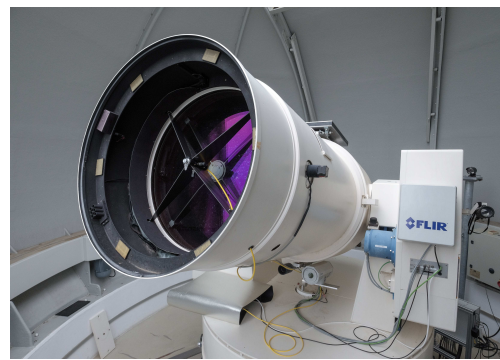
Wettzell Laser Ranging System (WLRs)

Technical Parameters

- Neodym-YAG laser
- 20 Hz (200 Hz) repetition rate
- 10 ps pulse width
- 80 mJ (20 Hz, 1064 nm) pulse energy
- 1064/532 nm wavelength
- monostatic

Capabilities

- SLR (LEO-HEO)
- Radioastron
- ELT (time transfer)
- Space debris
- Moon (test phase)



75 cm Zeiss telescope ▲

◀ WLRs operation building with combination target



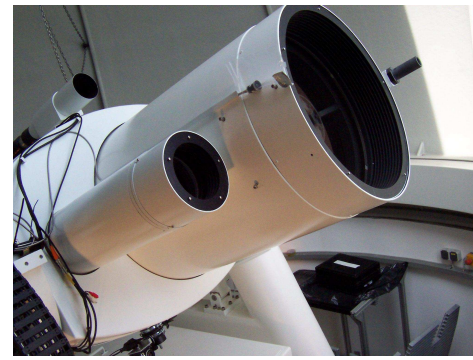
Satellite Observing System Wettzell (SOS-W)

Technical Parameters

- Titanium-Sapphire laser
- 1 kHz repetition rate
- 40 ps pulse width
- 1.5 mJ (1 kHz, 850 nm) pulse energy
- 850/425 nm wavelength
- bistatic

Capabilities

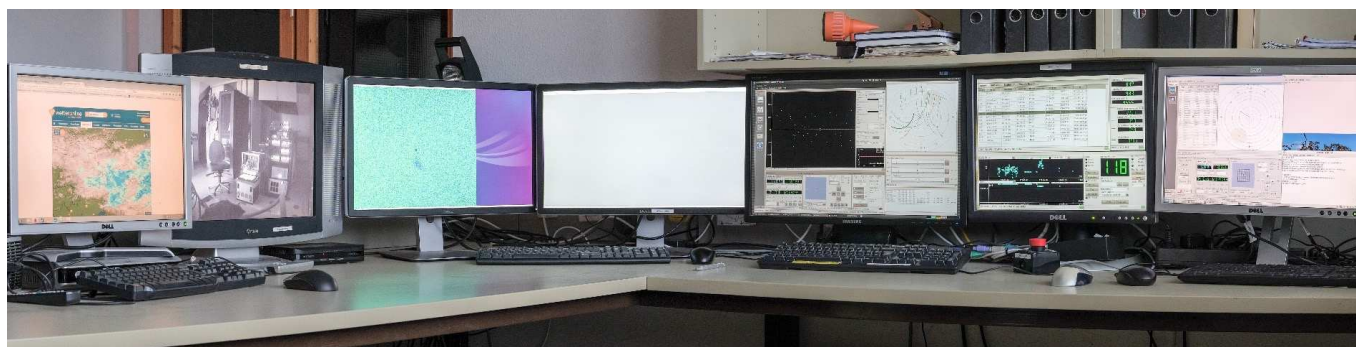
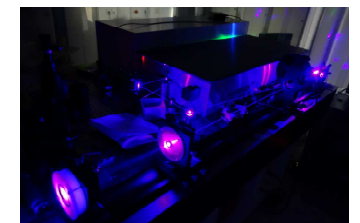
- SLR (LEO-HEO)



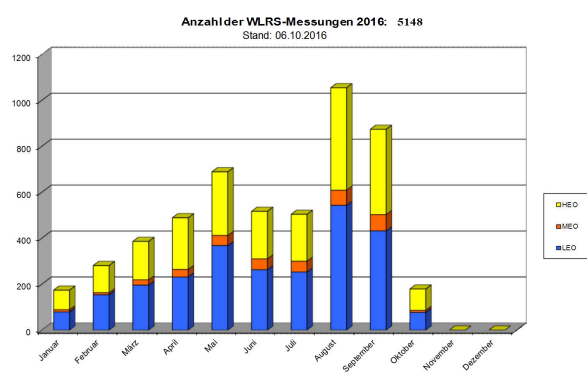
15/50 cm Zeiss telescope ▲

SOS-W operation building

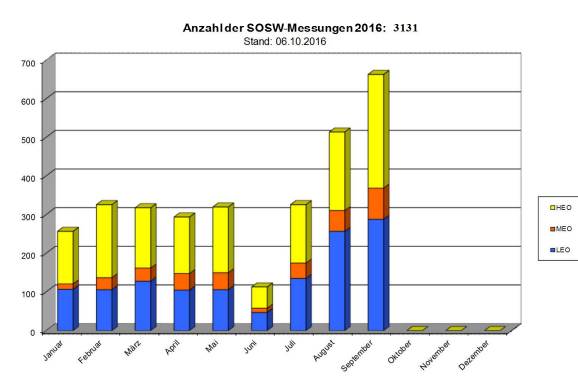
Titanium-Sapphire laser ▶



Common operation room for both SLR systems, WLRs and SOS-W



WLRs observation statistics for 2016



SOS-W observation statistics for 2016

A total number of approx. 2000 satellite passes were observed simultaneously with both systems.