



First SLR Operation in Korea using TROS (Chinese Transportable Ranging System)

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Background



☐ TROS Status from 2005 to 2008

- Upgrades for KHz laser ranging (2005 2007)
 - √ KHz laser system
 - ✓ FPGA including range gate generation, servo system, event timer, time and frequency reference
 - ✓ Experiments of KHz laser ranging in Beijing (April 2008)

■ Korean SLR Project from 2008

- First development of SLR system in Korea
- Needs of TROS operation
 - Get operation experience for the future Korean SLR system
 - ✓ Understand technologies related to SLR system
 - ✓ Laser tracking for Korean satellite(STSAT-2) with LRA which will be launched in 2009

■ TROS operation in Korea

- Contract MoA (June 2008)
 - ✓ KASI (Korea Astronomy Space Science Institute) and ISCEA (Institute of Seismology, China Earthquake Administration)
 - ✓ Mission : collaborative operation of TROS
- TROS movement from China to Korea (Aug. 21, 2008)
- TROS operation in KASI headquarters (Daejeon city) from Aug. 2008 to Aug. 2009