

## **Current Status and Plans for Test and Deployment of the First NASA SGSLR System**

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Over the last decade the Space Geodesy Project has been progressing toward the development and deployment of NASA's next generation network of geodetic stations ( <https://space-geodesy.nasa.gov> ). The Satellite Laser Ranging (SLR) part of this effort is called Space Geodesy Satellite Laser Ranging (SGSLR). Significant progress has been made in the development of SGSLR's nine subsystems, and many of these subsystems are completed or are nearing completion. The next major step will be the Integration and Testing (I&T) of all subsystems into the first SGSLR system which will start before the end of 2022. Verification testing (collocation) with NASA's legacy operational SLR system, MOBILAS-7, is planned for early 2024.

The first SGSLR system is being developed for Kartverket, also known as the Norwegian Mapping Authority (NMA). The system will be installed at Ny-Ålesund in Svalbard, Norway. The planned start of operations is early 2025.

This presentation will give the current status of development, the testing and deployment plans, and the future of NASA's SGSLR global network.

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