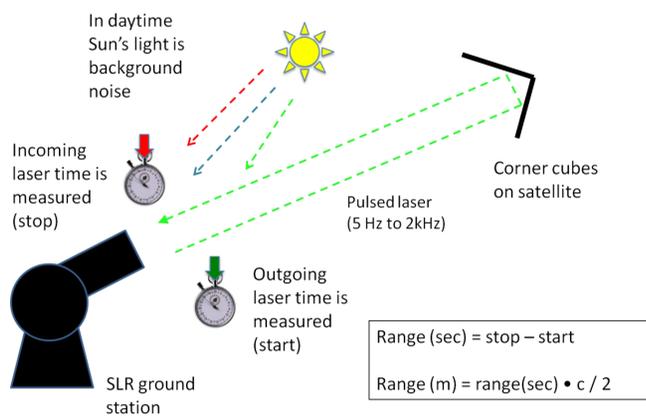


NASA's Satellite Laser Ranging

The Goddard Space Flight Center is the birthplace of Satellite Laser Ranging. On October 31, 1964 the world's first satellite laser ranging measurements were made at the Goddard Geophysical & Astronomical Observatory (GGAO).

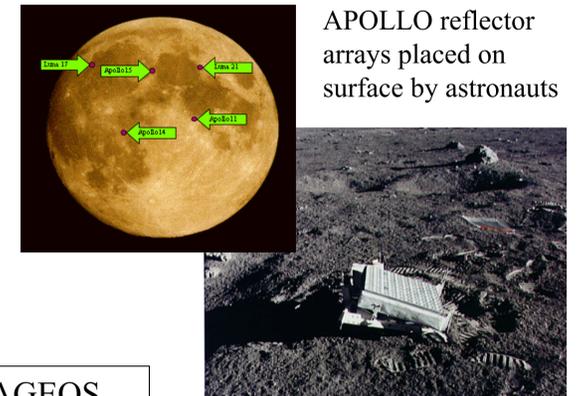
THE SLR TECHNIQUE



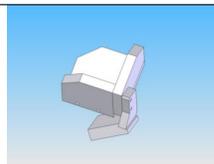
CURRENT SATELLITE RETRO-REFLECTOR ARRAYS (Solid glass corner Cubes)



LUNAR LASER RANGING



HOLLOW CORNER CUBES (the future of SLR arrays)?



LAGEOS SATELLITE

GGAO (area 200 at Goddard)



PAST, PRESENT & FUTURE OF NASA SLR SYSTEMS



SLR PAST: First laser ranging measurement in 1964

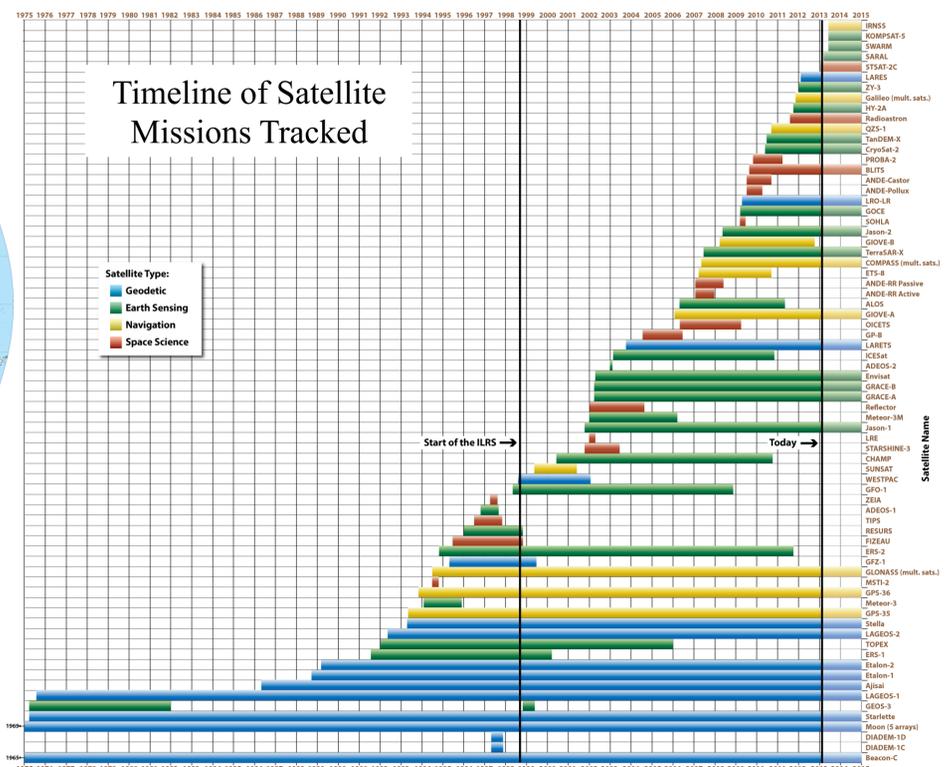


SLR PRESENT: MOBLAS-7 built in 1978 and still operating



SLR FUTURE: NGSLR - prototype in final development

NASA IS PART OF THE GLOBAL NETWORK OF SLR STATIONS WHICH CURRENTLY TRACKS ~ 30+ SATELLITES



For more information on SLR and the ILRS, please go to:
<http://space-geodesy.nasa.gov>
<http://ilrs.gsfc.nasa.gov>

Space Geodesy Project's Satellite Laser Ranging contacts:

Dave McCormick, Jan McGarry, Carey Noll