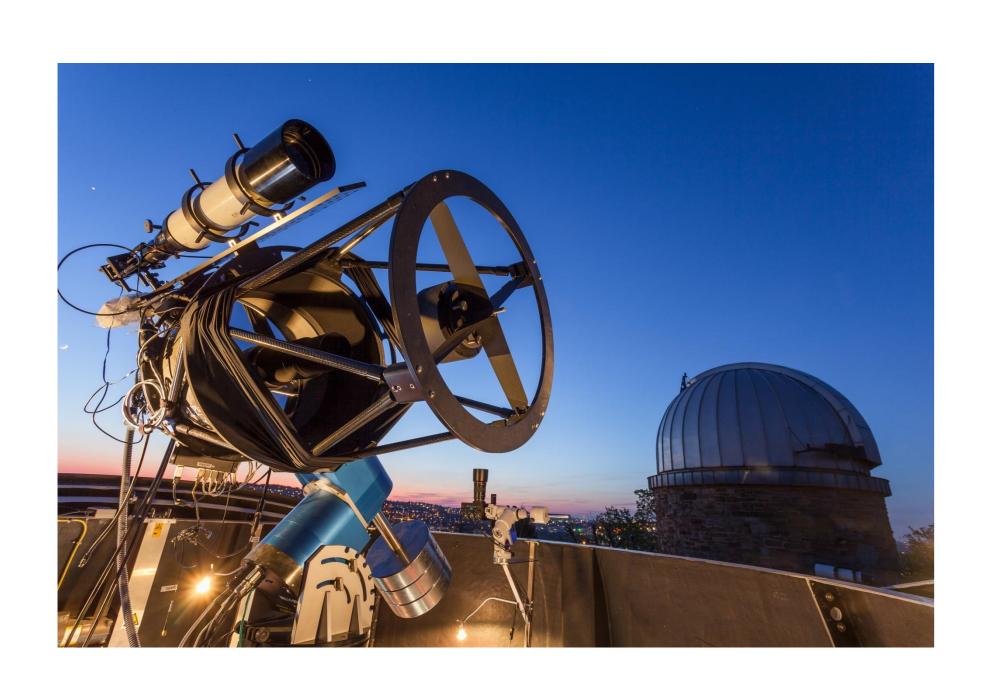
# Stuttgart SLR stations

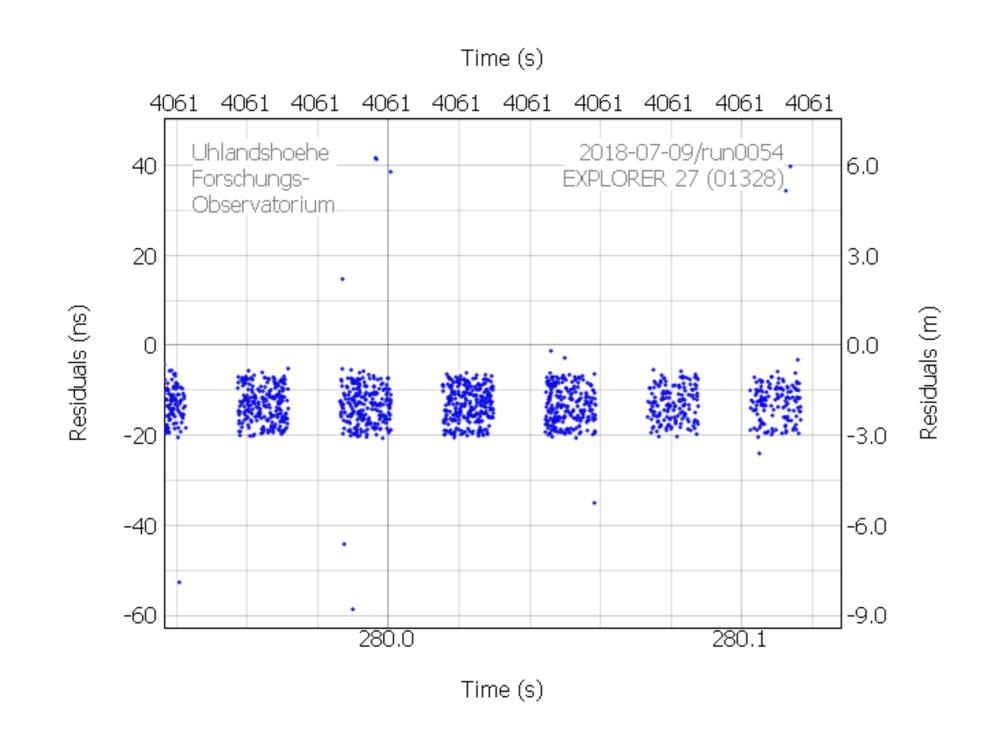
## **Uhlandshöhe Observatory (UFO)**



**Status:** Experimental operation Capabilities: LEO to GNSS, night only

UFO is the first SLR station in Stuttgart, STAR-C (surveillance tracking and MiniSLR is designed to be a small, dedicated to the evaluation of new ranging container) is developed affordable and flexible SLR system "intechnologies for satellite laser ranging. specifically for space debris laser a-box". It runs fully autonomously and It is housed in one dome of the city's ranging. It is completely integrated into will be sealed and weather-proofed for historic observatory, and has seen first a standard 20ft container and can thus use in remote locations. A small multiechoes in early 2016. It is part of the be transported easily to suitable kHz laser will be integrated on the ILRS as engineering station (UROL). observation sites.

Ranging wavelength	1062 nm
Pulse energy	50 μJ
Repetition rate	100 kHz
Apertures	42 cm / 10 cm
Light transmission	Optical fibre



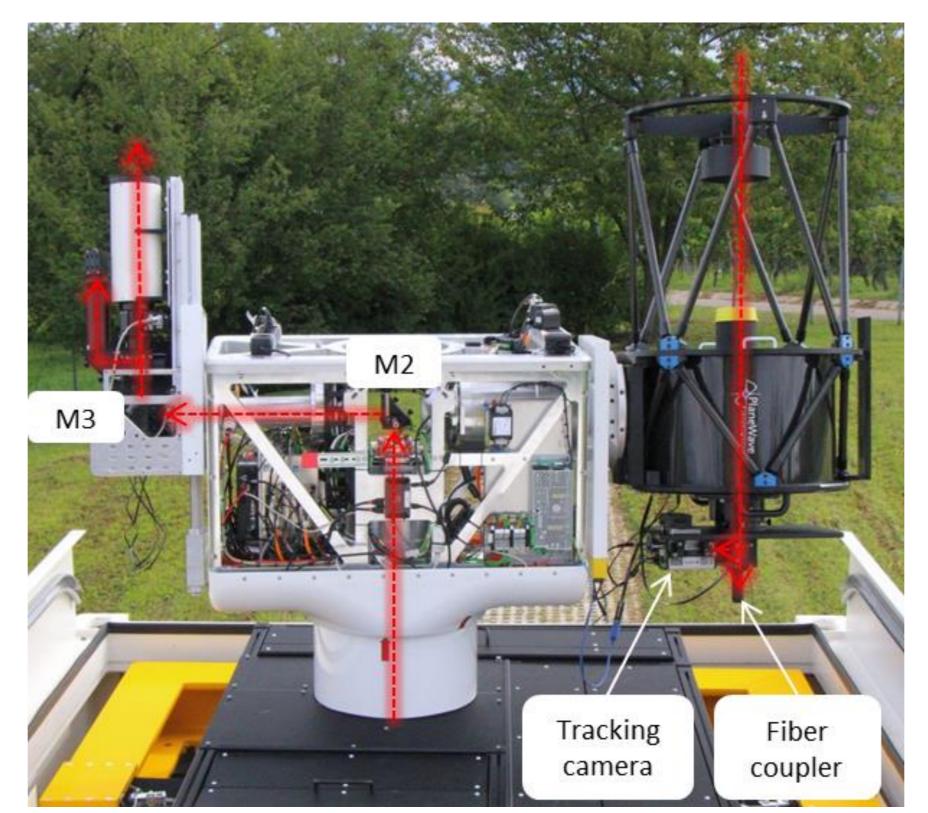
Short section of a ranging plot recorded at UFO, showing the returns from a burst mode run at 100 kHz.

### STAR-C



**Status:** Under construction Capabilities: Space debris (< 1 m<sup>2</sup>)

Ranging wavelength	1064 nm
Pulse energy	50 mJ
Repetition rate	1 kHz
Apertures	42 cm / 10 cm
Light transmission	Coudé path



Coudé path mount on the observation platform.

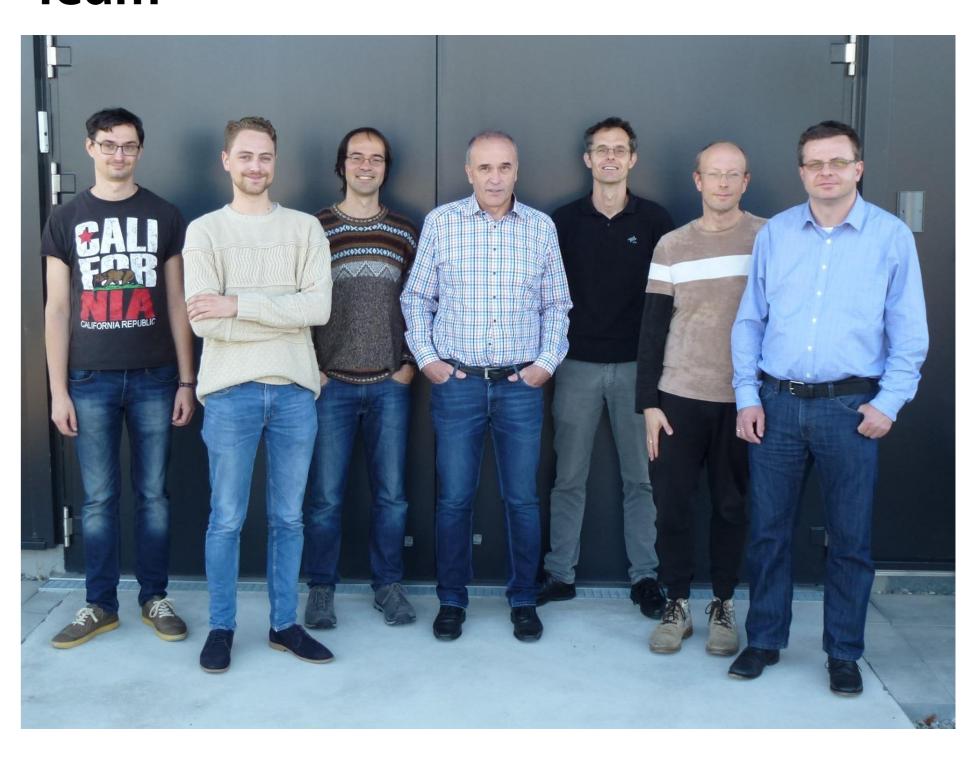
#### miniSLR



**Status:** Under construction Capabilities: LEO to GNSS

mount.

#### Team



From left: Paul Wagner, Ewan Schafer, Daniel Hampf, Wolfgang Riede, Jens Rodmann, Stefan Scharring, Gerd Wagner





Wissen für Morgen