

Near Ground Target for 1.2m Telescope SLR System

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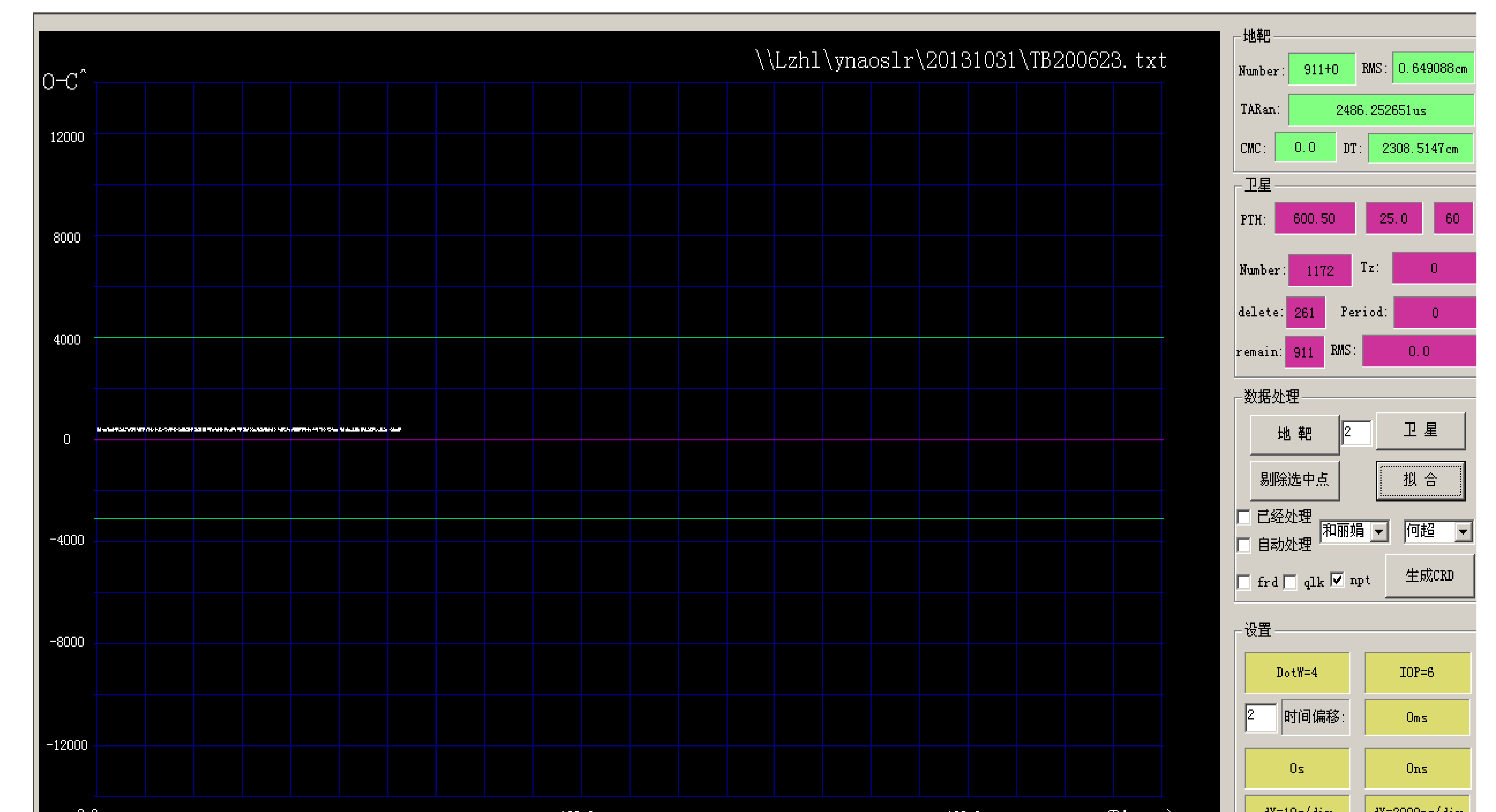
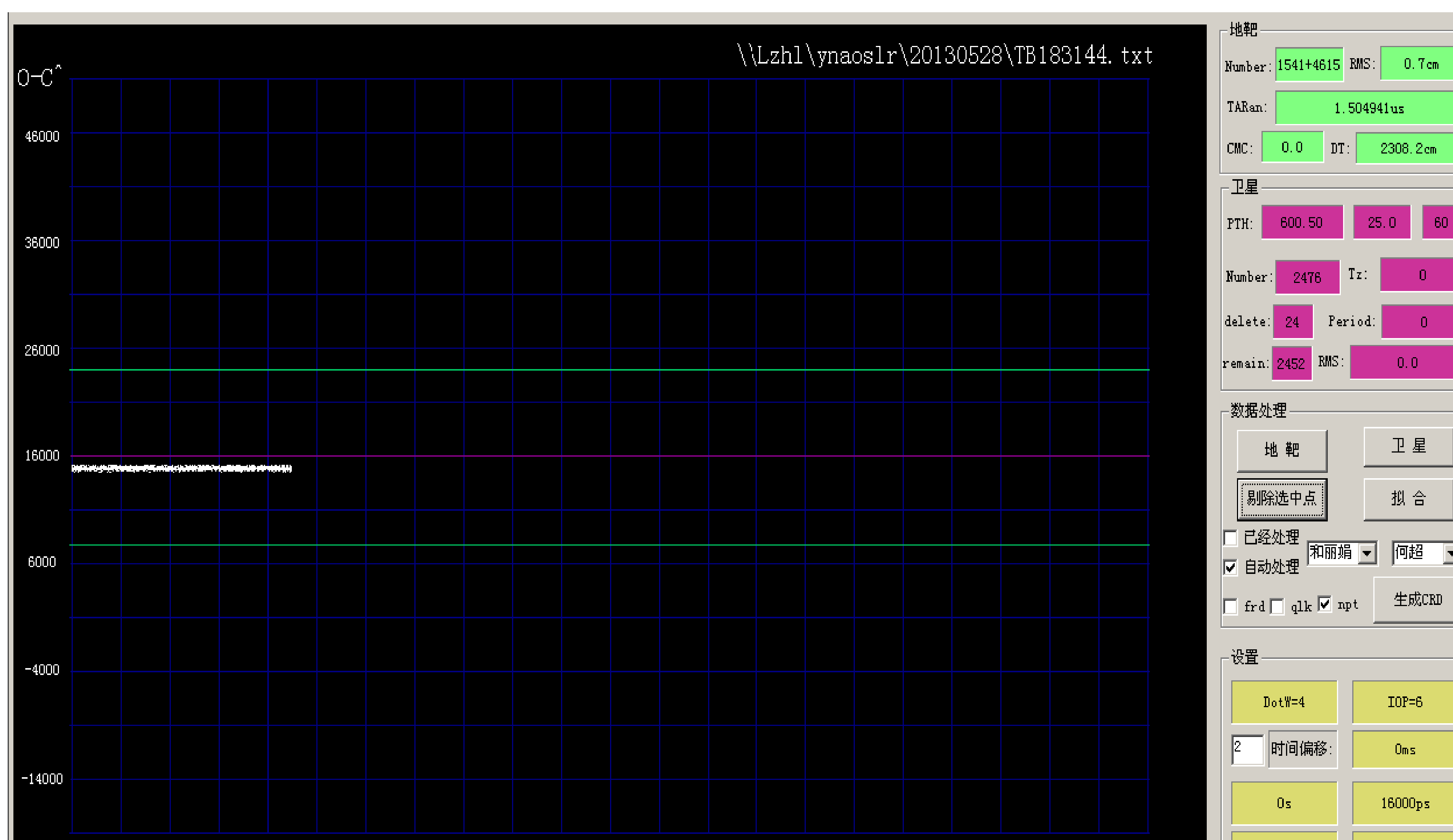
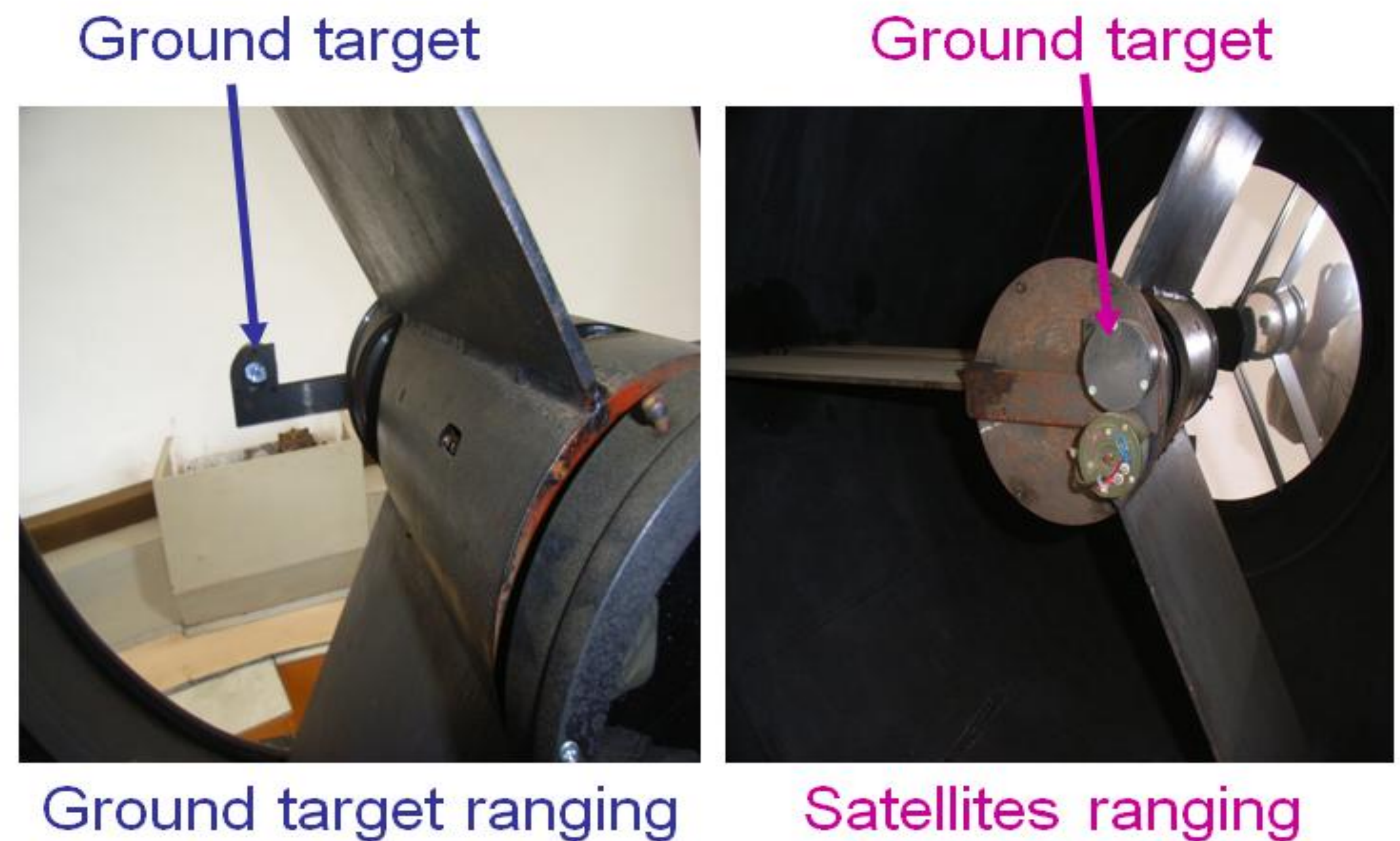
introduction

- Problems:** in 1.2m telescope SLR system of Kunming station, we used a ground target which has about 200m distance with telescope for a long time, but recently we found that the system delay has changed and the accuracy is not very good.
- Reasons:** ground target distance or station coordinate has changed because of earthquake, system delay has changed, etc.
- Solution:** to research and build new nearer ground target for 1.2 telescope co-optical SLR

200m distance ground target



new nearer ground target



Measured data on 200m distance ground target

Measured data on nearer distance ground target

results

Though it is difficult to set a super short distance target for transmitting and receiving common optical path SLR system, we **successfully** did it for our system by many research and experiments.

Super short distance target has some advantages: easy to maintain; affected by little atmosphere; relative stable system delay ; etc.