miniATV goes WinterSIM
Test1- Alignment: Data entry table (full size)

Measurement point	Time and date of measurement (= rosbag file name)			Distance to Landmark1	Distance to Landmark2	Distance to Landmark3	Notes
	GNSS #1	GNSS #2	GNSS #3				
ap 6	2023-08-24 -18-26-09 .bag	2023-08-24 -18-35-16 .bag	2023-08-24 -18-44-43 .bag	nearest lantern left (north ahead) 8.2075 m	heating pole in front of nearest lantern to the right 9.190m (to beton footing)	closest edge of the closest white parking line in direction of landmark 2.040m	The ground is very uneven
ap 3	2023-08-24 -19-48-42. bag	2023-08-24 -20-01-30 .bag	2023-08-24 -20-05-49 .bag	nearest lantern 2.560 m	next lantern in same direction than Landmark1 10.560m	(edge of grass patch not discernible) closest distance to far side of white line 1.410m	Is the asphalt disturbing the compass a bit? edge of grass patch overgrown
AMK1	2023-08-28 -14-07-42. bag	2023-08-28 -14-16-12 .bag	2023-08-28 -14-23-32 .bag	nearest corner of white blue building 8.200	corner between tile & asphalt in front of the main door 11.700m	grass patch corner which is not overgrown 15.730m	In the grass patch * Measuring distance to landmarks in this part of the map is nearly pointless, be uneven ground, grass, absence of details in WinterSIM equivalent
50502	2023-08-28 -14-33-18 .bag	2023-08-28 -14-40-02 .bag	2023-08-28 -14-47-54 .bag	nearest corner of white blue building 8.990m	far corner of white blue building 16.930m	AMK1 9.870m	

The next day, the 3-month permission to use the NLS RTK service ran out

Phone ran out of battery due to hotspot & taking photos

The GNSS antenna is weatherproof, but the carrier board is not. First it was cloudy but sunny - It is getting cloudier and it might start to rain soon, I will prioritize the GNSS measurements and then the distance measurements

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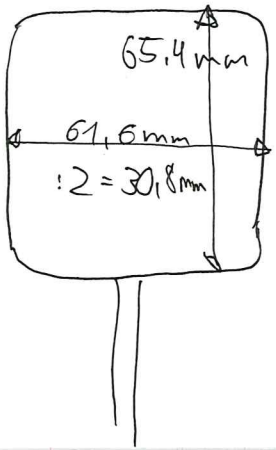

Further Notes:

Measurement point itself is magnetic ⇒ Don't put compas directly ontop of it!

Listen first to the /atr_gps topic to see if the accuracy is reasonable (an unreasonable accuracy would be 421km f.ex.)

50m measuring tape has 0,5cm increments as the minimum scale

*AMK1: The point already had a faint marking of north which was accurate. The compass is more stable on the grass than the asphalt (is the asphalt slightly magnetic?) Marking the sensor placement was not possible with chalk, used stones pressed into the earth instead. Removed high grass for an clear view of the sky. First, ~~the RTK stream could not get any~~ no RTK data were received, I marked the next spot in the meantime. Apparently the new RTK access was not immediately accessible, but 20 min later it was.