

1 Abstract

Due to recent developments, GNSS-based centimeter scale positioning is affordable in everyday use. We look into the area of this software-based RTK (real-time kinematic) GNSS positioning that uses raw receivers. In contrast to commercial RTK GNSS solution on the market, only one frequency is used. This limitation might lead to a reduced performance that needs to be investigated. We compare several raw receivers on the AstaZero proving ground in combination with the RTKLIB software and we got surprisingly accurate results. In this demonstration, we will focus on stationary positioning and show satisfying results that offer affordable solutions for applications that require sub-decimeter accuracy.