

USAGE OF THE GPS MEASUREMENT DETAILED REAL TIME (RTK) IN TRACING HIGHWAYS**CIOLAC V.*, BABUCA N.I.*, POPESCU C.*, OKROS A*, SPILCA M.***

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ABSTRACT – Usage of the GPS measurement detailed real time (RTK) in tracing highways

The RTK topographic surveys were accomplished by using 5 Leica GPS 1200 receivers – 1 reference station and 4 rovers.

For every RTK session, after assembling the reference station on a type A landmark, a type B landmark was occupied by a rover receiver in order to compare the new obtained RTK coordinates of the landmark with the previous coordinates, determined STATICALLY. The difference between the coordinates were maximum of 2 cm per after maximum 10 seconds of occupancy.

Keywords: RTK survey, static measurement, reference station

REZUMAT

Ridicările topografice RTK s-au efectuat utilizând 5 receptoare Leica GPS 1200 – 1 stație de referință și 4 rovere. Pentru fiecare sesiune RTK, după montarea stației de referință pe o bornă de tip A, o bornă de tip B a fost ocupată cu rover receptorul, pentru a compara coordonatele RTK nou – obținute ale bornei cu coordonatele anterioare determinate STATIC. Diferențele de coordonate au fost maxim 2 cm pe xyz după maxim 10 secunde de ocupare.