SINGLE AND MULTISTATION DGPS SYSTEMS COMPARISON IN THE RELIABILITY ASPECT BASED ON BERNOULLI MODEL OF RTCM TRANSMISSION.

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The paper presents signal reliability analysis for DGPS single and multi-station systems. It focuses on mathematical model of RTCM message transmission, bit error ratio modeling. The Bernoulli process was used for numerical analyses. Differences between single and multistation systems were obtained in the aspect of: RTCM 9-3 message types, bound rate and bit error ratio.