



Signal-Strength-Variation on EPN and CEGRN GPS Stations

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Beside the main GPS raw observations of carrier phase the respective signal strength can aid the quality assessment of specific GPS stations and GPS hardware. The results can potentially be used for improving the GPS-processing by weighting the observations appropriately. A sub-set of stations of the European Permanent GPS Network (EPN) and of the Central European Geodynamics Reference GPS Network (CEGRN) provide signal strength measurements on a routinely basis as part of their RINEX data. A part of these data has been analysed. The poster shows the comparison between the signal-strength variations and the corresponding processing results. Based on a statistical analysis of this relation at a number of different stations it is attempted to judge about the suitability and the significance of the signal-strength observable for quality assessments.