



First experiences with GPS+GLONASS data analysis in a regional network of GPS and GPS+GLONASS receivers

C. Bruyninx

Royal Observatory of Belgium, Belgium (C.Bruyninx@oma.be / Phone: +32-2-3730392)

The European regional GPS network, the EPN, consists of more than 180 permanent GPS stations from which about 25 are also tracking GLONASS satellites. Up to now, the EPN processing has not included the GLONASS data in its regional EUREF solutions. With the growing number of GPS+GLONASS stations, the recent revitalization of GLONASS and the fact that the IGS orbits for GALILEO and GPS have now a similar delay, it has become worthwhile to investigate the pros and cons of adding GLONASS data to the routine data analysis of the EPN network. Since the EPN uses a distributed data processing, we will investigate the necessity of redesigning the EPN analysis subnetworks. Special focus will go the practical handling of the individual GPS and GLONASS satellite orbits in the common GPS+GLONASS data analysis. Last we will compare the results obtained using a GPS-only, a GLONASS-only and a GPS+GLONASS processing.