GNSS satellite clock estimation

Dach, R.[1]; Schaer, S.[2]; Hugentobler, U.[1]; Meindl, M.[1]; Gaede, A.[1]

[1]University of Bern, SWITZERLAND; [2]swisstopo, SWITZERLAND

CODE provides consistent GNSS orbits for GPS and GLONASS satellites since May 2003. When extending the consistent GNSS processing on the receiver resp. satellite clock corrections intersystem and in the case of GLONASS interfrequency time biases have to be considered when analyzing the pseudorange observations.

In this contribution we discuss the completeness of a potential GNSS satellite clock product including GLONASS. The handling of the GLONASS interfrequency code biases in the analysis has a direct impact on the results, on how to combine the clock corrections, and how to use these products by the users community.

Analogue problems are expected if the upcoming European GALILEO system will be included into the combined multi-system GNSS analysis.