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Backward evaluation and developments for routine near real-time ZTD estimation

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Routine near real-time zenith total delay estimation from GPS network has been performed at Geodetic observatory Pecny since 2001 within the European projects COST-716 and TOUGH. The goal is to support the meteorological users with zenith total delays within a specified timeliness. The user requirements were more or less already achieved. Nevertheless, a backward evaluation of the zenith total delays from near real-time processing over a whole period, gives us some new information about the product long-term stability and the problems related to bias and occurance of daily and seasonal cycles. New developments in GOP based on such evaluation will be summarized as well as the developments for further efficient data and processing extension. The advantages of applying a new Bernese GPS software (V5.0) is additionally introduced.