

Improved consideration of local ties in inter-technique combinations

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Co-location sites are key elements for the integration and combination of different space techniques. In this contribution we present new strategies for the selection and implementation of local tie information using the ITRF2004 input data (i.e., time series of space geodetic solutions with station positions and EOPs). Criteria for the selection are a maximal consistency and a minimal deformation of the combined solution. As common parameters of the different techniques, the EOPs are well-suited to "measure" this consistency, and furthermore they serve as "global ties" to stabilize the rotation datum.