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Abstract: Being one of the International Terrestrial Reference System (ITRS) combination centers of the International Earth rotation and Reference Systems service (IERS), DGFI-TUM computed a new realization of the ITRS called the DGFI Terrestrial Reference Frame DTRF2014. In this new realization, non-tidal loading corrections had been applied a posteriori in order to account, to a certain extend, for geophysically caused periodic non-linear station motions. The new realization contains observations of the four space geodetic techniques GNSS, SLR, VLIB and DORIS covering a time interval from 1979 until 2014 (35 years!!). In this paper, we will present the different products of the DTRF2014 realization and the way they are accessible. Beside the conventional offset and velocity representation, we will also introduce the correction time series such as non-tidal loading corrections, epoch-wise transformation residuals and translational corrections common to all stations derived from SLR observations. We will present the final solutions and explain the way how they should be used. Additionally, we will show selected examples of the application of the DTRF2014 solutions to
standard VLBI and SLR processing and discuss their impact on estimated parameters.