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Consistency tests of earth rotation parameter and station position series

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Earth rotation parameter (ERP) series, when compared to geophysical excitations, typically exhibit a number of anomalous periodical signals with periods ranging from weeks to years. Similarly, station solution series often show small nonlinear, often periodical signals in the same period range. The paper attempts to examine the corresponding ERP and station position series in the spectral domain, in order to compare and possibly explain some of the anomalous signals seen in ERP and position solution series. Several consistent ERP and station position series are examined, ranging from individual analysis centre solutions to single technique and multi-technique combination series.