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PreAnalyseExtended: A graphical tool for (geophysical) time series analysis

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Time depending records of different geophysical and geodetic measurement systems require screening and post-processing, often combining the primary observable with additional measurement quantities from other external sensors or geophysical models. The ring laser 'G' located at the Geodetic Observatory Wettzell for example observes rotational ground motions depending on the sensor orientation. Hence tilt effects need to be corrected from the raw measurements of rotation. While the local tilt is taken from an independent time series of an auxiliary sensor, solid Earth tides and polar motion are corrected based on appropriate models.
PreAnalyseExtended is a powerful software tool that combines the screening and processing of geophysical measurements of a variety of input sensors with a unique set of at least seven fully included models. This talk provides an introduction the important features of this open source tool.