Vienna VLBI Software VieVS - Version 1 released

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A new VLBI data analysis software (called Vienna VLBI Software, VieVS) is developed at the Institute of Geodesy and Geophysics in Vienna. Recently, VieVS Version 1.0 was released and put at free scientific disposal via ftp for registered users. Written in Matlab, VieVS is characterized by a distinct source code, easy handling due to attractive graphical user interfaces, and implementation of the most recent IERS Conventions to the highest degree. VieVS is perfectly suitable for research work, as the many built-in tools in Matlab as well as its modular structure make it easy to expand and adopt the software for specific tasks. On the other hand the new software should attract people who have not been dealing with VLBI analysis before (e.g. students), since several conversion and plotting tools enable even less experienced users to achieve attractive results. While VieVS was made ready for outside users during the last year, the software was intensely tested and successfully endured comparisons with results of other analysis packages (Calc/Solve, Occam). Despite the completely new modelling strategy of VieVS, calculated values agree with those of Occam to the 1-2 mm level over 10 years before entering the least-squares adjustment. Another important feature is the parameterization and estimation of the variables as piece-wise linear offsets at integer hours. This is a giant step towards a coherent comparison and combination with other GGOS products.

The poster outlines the performance, characteristics, and handling of the first release of VieVS. The basic workflow is depicted and features available at this time are shown. Additionally, we give an insight into most recent developments and future plans for this software.