BIGF RINEX data usage notes – scientific models

Keywords: ocean tide loading model; atmospheric models

For the most demanding applications, such as the long-term monitoring of vertical ground movement, where accuracies of a few millimetres are sought, scientific rather than commercial software packages should be used.

Scientific packages include Bernese (Astronomical Institute, University of Bern, Switzerland), and GIPSY-OASIS (Jet Propulsion Lab., USA).

These enable the mitigation of all known systematic biases and errors, including tropospheric delay, antenna phase centre variations, solid earth tides and ocean tide loading.