The work provides graphical description of the tide vertical displacements obtained by means of special programmes. An example is given, which vividly demonstrates the differences in the behaviour of vertical displacements under the impact of tide forces at two points in the same longitude. To provide another example, which gives an idea about the nature of the solid Earth tides in the territory of Latvia, 21 LatPos system base stations have been used. The work also provides description of the Earth station displacement calculation, which conforms to the IERS conventions.