

## THE CATALOGUE OF TRIGONOMETRIC POINTS

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This paper presents The Catalogue of Trigonometric Points.

The research has shown that the trigonometric network at the territory of the Republic of Croatia has been moved eastwards by 15" to 20" (about 400 meters), and in the direction of latitude, the deviations vary from +2" to -5". The network orientation has an error of about 7".

The inner accuracy of the network is also not homogeneous, and the network scale is varying by magnitudes that do not meet current world standards.

In order to provide for the cartographic continuity, GPS survey of the 1<sup>st</sup> order points have been carried out and also parameters for transformation of coordinates from the State Coordinate System into WGS84 System and vice versa have been calculated.

Altitude and positional accuracy of the map and cartographic continuity are directly connected with the amount and quality of the utilized geodetic points, which are used for the calculation of the basic mathematical map.

The Catalogue contains approximately 55.000 trigonometric points of all orders from the territory of the Republic of Croatia and the parts of neighbouring countries.

One catalogue unit, except some border areas, encompasses the area that covers a sheet of the map at the scale of 1:100.000 and contains: tables with the coordinate lists and point altitudes, magnetic diskette-table data base in dBase format and sheets of the map at the scale of 1:50.000.

Second edition contains, as referred to the first edition, also some addition data about the coordinates of all trigonometric points in WGS84 in the database, and on maps or apices of sheets the coordinates are given also in WGS84 in the special colour.

The third edition of the Catalogue is in the process of elaboration. The Catalogue will be completely made in digital form, and the maps, as an integral integral part of the Catalogue, will be transferred into digital form.

Along with data about points, we plan to add other attributive data of various forms (photographs, descriptions of positions and other) for the purpose of implementation of this data base into the

Spatial Informational System of the Armed Forces of the Republic of Croatia.