**Base map of the Czech Republic 1:10 000**

**Organization:**

Zeměměřický úřad (Land Survey Office)

**Organization Address:**

Zeměměřický úřad

Pod sídlištěm 1800/9

Kobylisy, 182 11, Prague 8

**Map Author(s):**

Přemysl Jindrák

**Contact Information:**

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CZECH REPUBLIC

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**Software Used:**

ArcGIS 10.2.2 for Desktop, Enfocus Pittstop Professional

**Data Source(s):**

Vector data - ZABAGED®(Fundamental Base of Geographic Data of the Czech Republic), Geonames (Database of geographic names of the Czech Republic)

**Description**

**Base map of the Czech Republic 1:10 000**

The base map of the Czech Republic at scale 1 : 10 000 (ZM 10) is the basic state map series and is the most detailed base map of medium scale. It shows the entire territory of the Czech Republic in a seamless map layout. It is used by local municipalities and commercial and noncommercial organizations too.

The ZM 10 contains topography, altimetry and labeling. Topography contains settlements and individual objects, communication networks, hydrology, administrative and cadastral boundaries (including territorial technical units), boundaries of protected areas, height and topographic control points, vegetation and soil surface.

Altimetry shows terrain relief as contour lines and terrain steps. Map labeling consists of object type designation, standardized toponymy of objects, standardized geographic nomenclature, contour values, height values, border information and external information. Map sheets contain network of orthogonal and geographic coordinates. The level of generalization is at a level which does not allow merging of individual buildings in to blocks and simplification of shapes. Thus, the map provides a very detailed view of the area shown.

Since 2001, the ZM 10 is produced using digital technology (since 2010 using Esri technology, earlier MicroStation, MGE) from the Fundamental Base of Geographic Data of the Czech Republic (ZABAGED®) and the database of geographic names of the Czech Republic Geonames. The new technology makes process of map actualization faster (approx. 25 000 km2 per year) and with the new technology it is possible to create also seamless maps which are used in web map viewers and web map services.

(<http://ags.cuzk.cz/arcgis/rest/services/zm/MapServer>, [http://ags.cuzk.cz/arcgis/rest/services/zmwm/MapServer](http://ags.cuzk.cz/arcgis/rest/services/zmwm/MapServer)),

<http://geoportal.cuzk.cz/WMS_ZM10_PUB/WMService.aspx>)

**Credit Lines:**

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