The Data Base of the Detailed Geological Map of Poland (DGMP) in scale 1: 50.000 : at present and its feature"

Tomasz Bielecki, Waldmar Gogolek, Barbara Jaranowska

Polish Geological Institute

UL. Rakowiecka 4, 00-975 Warszawa, Poland

Fax: (48-22) 849 53 42

E-mail:

tbie@pgi.waw.pl

wgog@pgi.waw.pl

bjar@pgi.waw.pl

The Data Base of DGMP in scale 1: 50.000 has been build in Polish Geological Institute since 1995. The Detailed geological map of Poland is a basic geological country map and has been started   in 1953. This map consists from 1085 sheet map units which cover the whole surface of Poland.

Arc/Info and Oracle systems have been chosen as the best   tools for creating and managing database for The 1:50,000 DGMP. Additionally, some special applications: ArcSMGP and KODA – permanently   developed are essential to facilitate of digitizing, verifying and editing of DGMP and to manage of database.

Up to present, capturing the geological data process in digital form – straight   from the field has been a big problem. Therefore we decided to build a unique application called ArcTeren (ArcField) which is a milestone in production of geological map. AF allows to verify and visualise geological information on the spot. Now, field-geologist is able to make most of work in digital form almost on-line. The project started at the spring and will be constantly improved to lead it for common use in 2001.

The main duties of Data Base is to collect information about: geological structure of country as a vector geological map, evidence of geological research – also as geological vector maps, keeping   three topography layers in raster format and also advanced automatic   technical edition of the map to be printed. That last tool, distinctly allows to speed up edition work. Till the end of 2000 about 443 sheets of map will be printed, including 111 in digital form. From 2001 we expect to print 36 to 44 maps per year. It is expected that the whole edition of Detailed Geological Map of Poland in scale 1: 50.000 will be finished in 2009 and its Data Base in 2014.

The Data Base is and will be unforced with Digital Terrain Model, satellite images, aerial photographs and other thematic maps to create GIS system.