

Geologic Maps of Japan

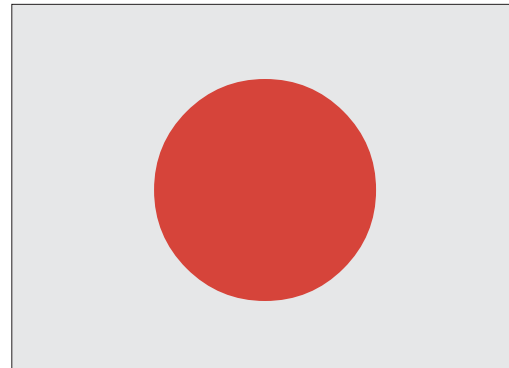
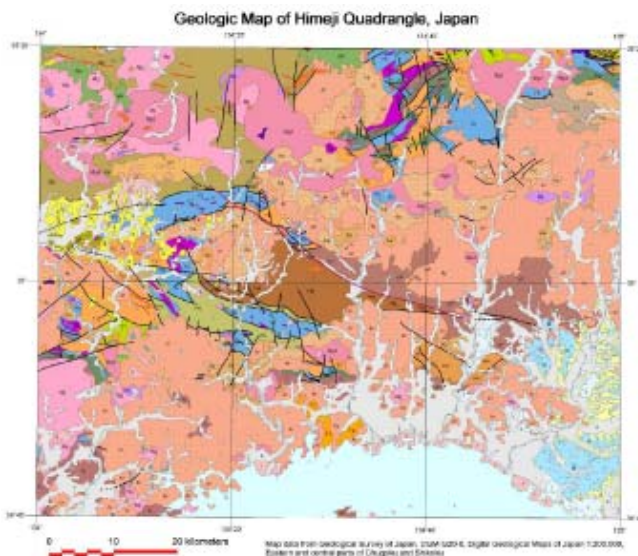
Another Large Project Completed Using TNTmips

Geological Survey of Japan created 124 digital maps at 1:200,000



Using TNTmips, the GSJ project team:

- scanned paper geologic maps and converted to vector form,
- edited tabular content to reconcile all classification units to current schema,
- edited vector content to match at edges of individual maps, and
- added styles to map units, strike, dip and other special symbolism and Japanese and English labels.



The maps are distributed on CD in files using the TNT native format as well as versions exported to ESRI shapefiles and USGS DLG files.

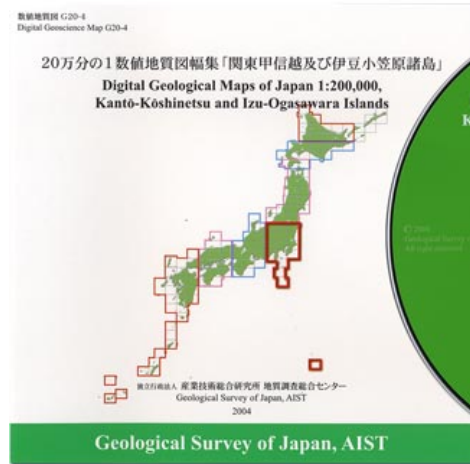
For more information and to order these maps on CD, please see www.gsj.jp/Map/EN/dgm.htm



The attached color plate entitled Digital Geological Maps of Japan illustrates one of these digital map files.

Digital Geological Maps of Japan

The Geological Survey of Japan AIST has released a set of digital geologic maps that cover virtually all of Japan at 1:200,000 scale. Each map quadrangle covers an area of 1 degree of longitude by 40 minutes of latitude projected to the UTM coordinate reference system. These digital maps were compiled and prepared in TNTmips after conversion to vector form from scans of the original paper maps. The maps were edited in TNTmips

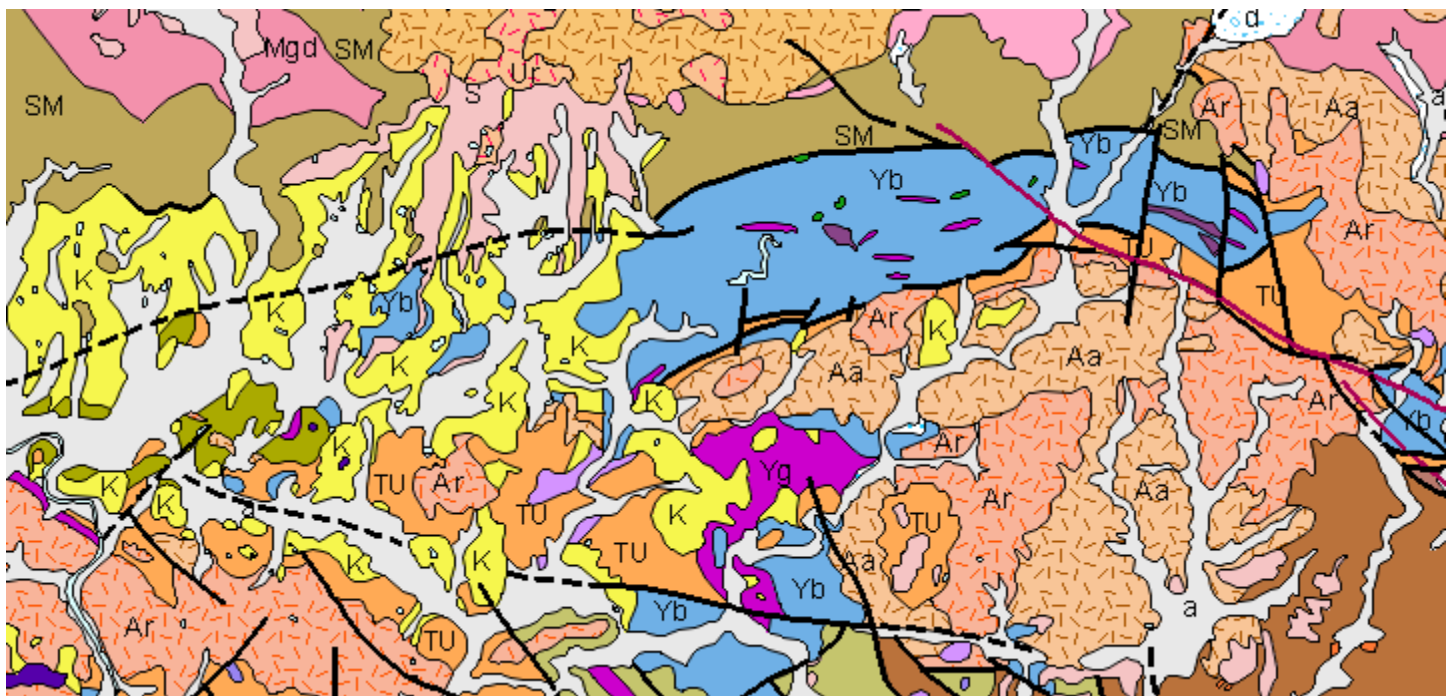


to update them with the latest geological information and to reconcile discordances along quadrangle boundaries. Line attributes were also unified across all of the maps. The 124 quadrangle datasets were produced over a period of 4 years beginning in 2001.

The vector maps are provided in TNTmips Project Files and as USGS Digital Line Graph and shapefile formats exported from TNTmips. Two TNT vector objects are provided for each quadrangle: one containing styled geologic map polygons and one with styled lines depicting faults. The illustration below shows a subarea of one quadrangle at the native map scale of 1:200,000 with the styling provided with

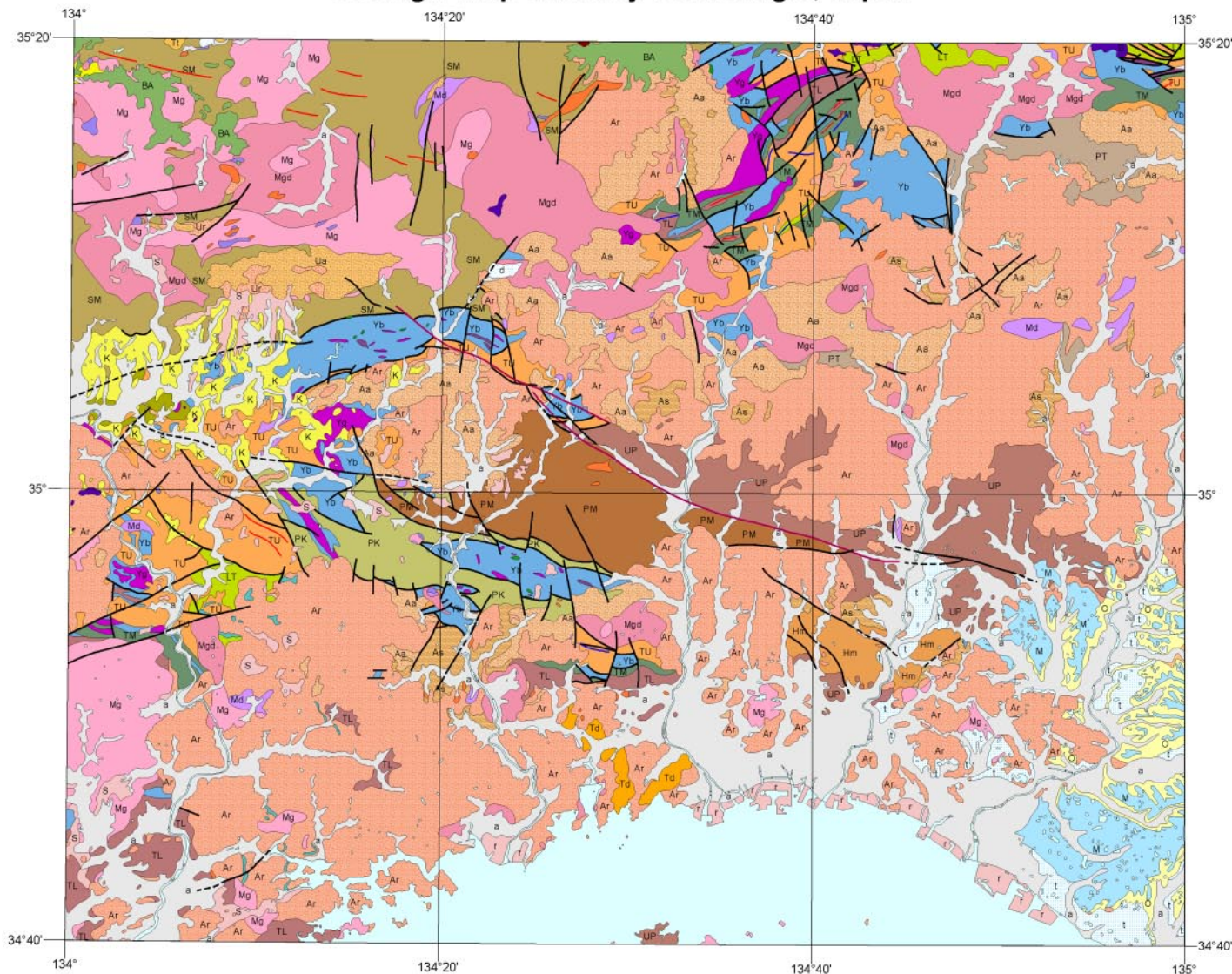
the data. The text labels for the map polygons were auto-generated in the TNT Spatial Data Display process for this illustration. The reverse side of this plate shows a map layout of a full quadrangle map at a smaller map scale with a multi-object legend created using the metadata provided with the maps. Image files (GIF and JPEG) are provided for each quadrangle showing fully styled renderings of the vector map layers with and without a shaded relief background.

These digital geologic maps are distributed on a series of 7 CD-ROMs with geographic groupings of quadrangles. Each CD-ROM is available for purchase separately from the Geological Survey of Japan (www.gsj.jp/Map/EN/dgm.htm).



Sample area from one of the Digital Geologic Maps of Japan. The polygon and line styles shown here are provided with the vector objects in the TNT Project Files. The layers are shown at the same scale as the source maps (1:200,000).

Geologic Map of Himeji Quadrangle, Japan



Map data from Geological Survey of Japan, DGM G20-6, Digital Geological Maps of Japan 1:200,000, Eastern and central parts of Chugoku and Shikoku

Quaternary

- a Alluvium
- d Talus deposits
- t Terrace deposits
- M Meimi Gravel Bed
- B Basic volcanic rocks (Gembudo-type basalt)
- O Lower Part of Osaka Group
- Neogene**
- S Sayo Gravel Bed, Nihombara Formation, etc.
- BA Basic and intermediate volcanic rocks
- N Ningyo-toge Formation
- D Dike
- Kb Kobe Group (Yokawa Formation)
- K Katsuta Group and Kawakami Formation
- Tt Tottori Group (Hokutan Group)
- Cretaceous to Paleogene**
- Td Tenkadaiyama Group

- Mp Granites
- Mg Granites
- Mgd Granites
- Md Diorites
- Mb Gabbros
- Aoi Group**
- Ar Rhyolite and dacite
- Aa Andesite
- As Conglomerate, sandstone
- Hm Hiromine Group
- Ur Unclassified volcanic rocks
- Ua Unclassified volcanic rocks
- I Kanmon Group
- Triassic and Jurassic**
- PT Tamba Group
- Triassic**
- UT Upper
- LT Lower

Permian

- TU Upper and Middle Parts of Maizuru Group
- TM Lower Part of Maizuru Group
- TL Lowest Part of Maizuru Group
- PM Mikazuki Formation
- Yakuno Ophiolite Complex**
- Yu Ultramafic rocks
- Yg Granitic rocks
- Yb Gabbroic rocks
- Ym Metamorphic rocks
- Carboniferous**
- PK Kozuki Formation
- SM Sangun Metamorphic Rocks
- Unclassified Paleozoic**
- UP Unclassified Paleozoic strata
- Other**
- Water
- r Reclaimed land