



Česká geologická služba  
Czech Geological Survey



# COMPIlation OF GEOLOGICAL MAP

by

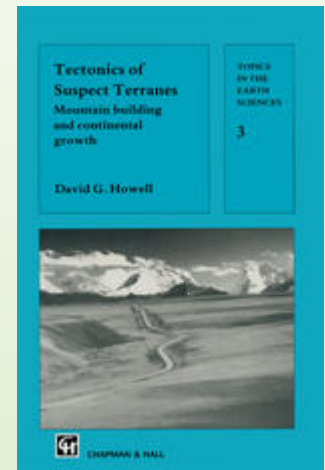
Pavel Hanžl



# Without a map, where are you?

## LOST !

*David G. Howell (1989): Tectonics of Suspect Terranes: Mountain building and continental growth*







## Aim of lecture

To describe and characterize geologic map and its parts

To resume steps of map compilation

- preliminary preparation

- field work

- legend (key) compilation

- database

- data processing

- drawing a map

- compilation of text explanations (geological report)

To exercise and discuss presented techniques





# Geological mapping and map compilation is step by step process

Preparation work

Field work

Interpretation of  
data

Compilation of map





# Program

Definition of geological map sheet and its parts

Legend to geological map

Geological documentation

Map compilation

Content of the Final report





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**Editor in chief of geologic maps (since 2008)**

Graduated at Charles University Prague (1990)

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*Digital unification of the geological maps of the Czech Republic at the scale 1 : 50,000*

*Geological mapping of the Protected Area Žďárské vrchy at the scale 1 : 25,000.*

*Geological survey of the Trans-Altay Gobi at the scale 1 : 200,000*

*Geological survey of the Mongolian Altay at the scale 1 : 50,000*

*Lithogeochemical and geological mapping on the scale 1 : 10,000 of porphyry copper and volcanogenic gold deposits (Azerbaijan)*

*The regulation for compilation of the Geological Base Map of the Czech Republic at a scale of 1:25 000*





Source materials:

<http://www.usgs.gov/>

<http://www.bgs.ac.uk/>

<http://www.stratigraphy.org/>

<http://www.structural-geology.org/Home.html>

<http://www.sqa.org.uk/sqa/46757.html>

<http://earth.leeds.ac.uk/geology.html>

