CZECH REPUBLIC
DEVELOPMENT COOPERATION

Česká geologická služba

Czech Geological Survey

95 LET | ANNIVERSARY

Geological Documentation

Geological documentation is a **record of data** needed to compilation of geological map/report

Archive documentation

Field documentation

Exploration/mining documentation

Laboratory documentation

Why field documentation?

Geological mapping is the process of making observations of geological phenomena in the field and recording them.

The information recorded must be factual, based on objective examination and made with an open mind.

Documentation is a base for compilation of the geological map and serves for checking of the map.

Field documentation

Documentation in a topographic map

Field notebook

GPS documentation

Photo-documentation

Documentation in a topographic map

Traversing is a basic method of geological mapping.

Traversing is made by walking a more or less predetermined route from one point to another, plotting the geology on the way.

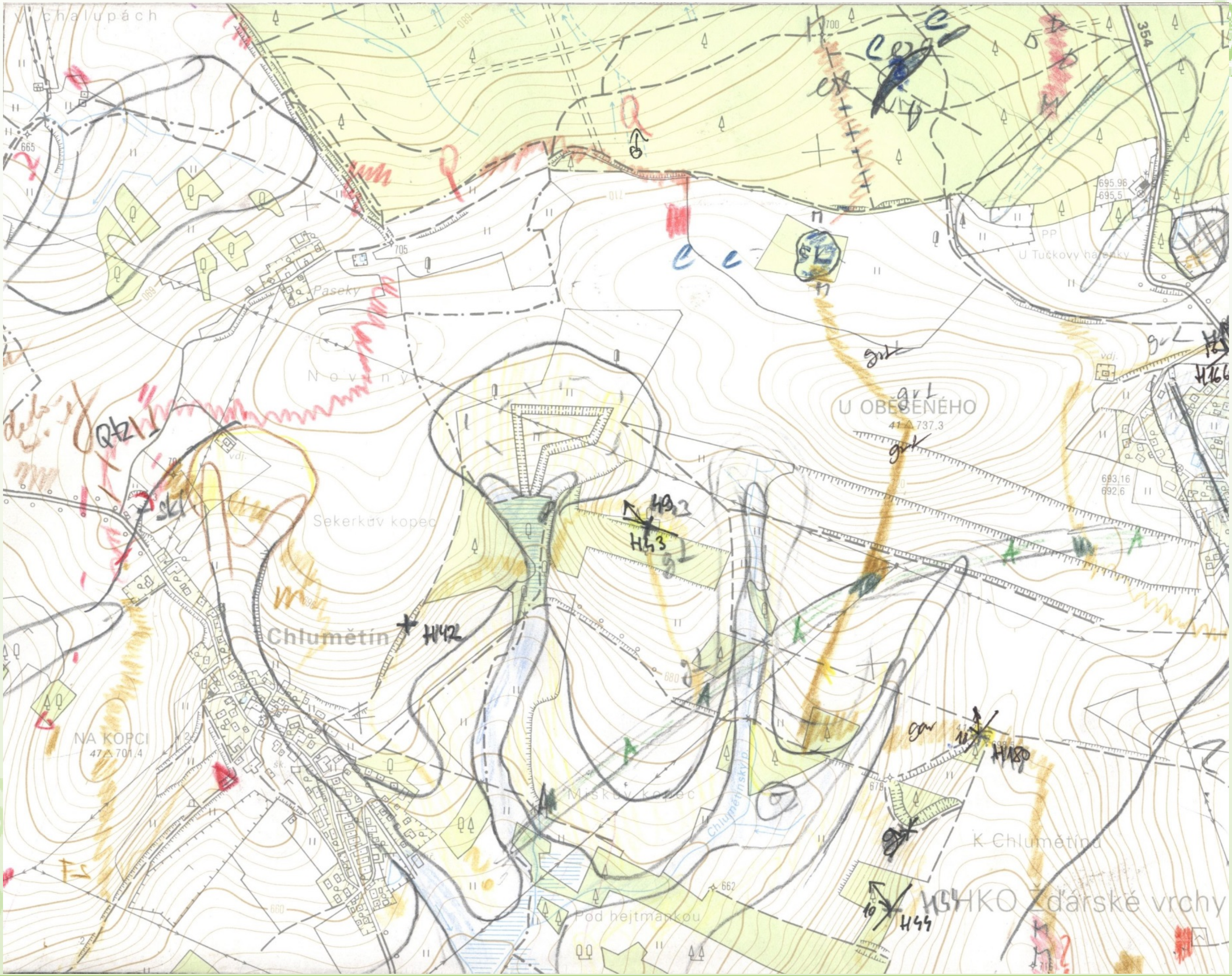
The rocks are marked to topographic map by colours or agreed symbols and are completed by position of reference point, tectonic symbols and supplementing informations.

Alternatively, traverse could be saved as a track in GPS or using applications in SmartPhones

Geological field maps are records of factual observations made in the field.

They are not interpretative maps!

Hand made pencil remarks in field map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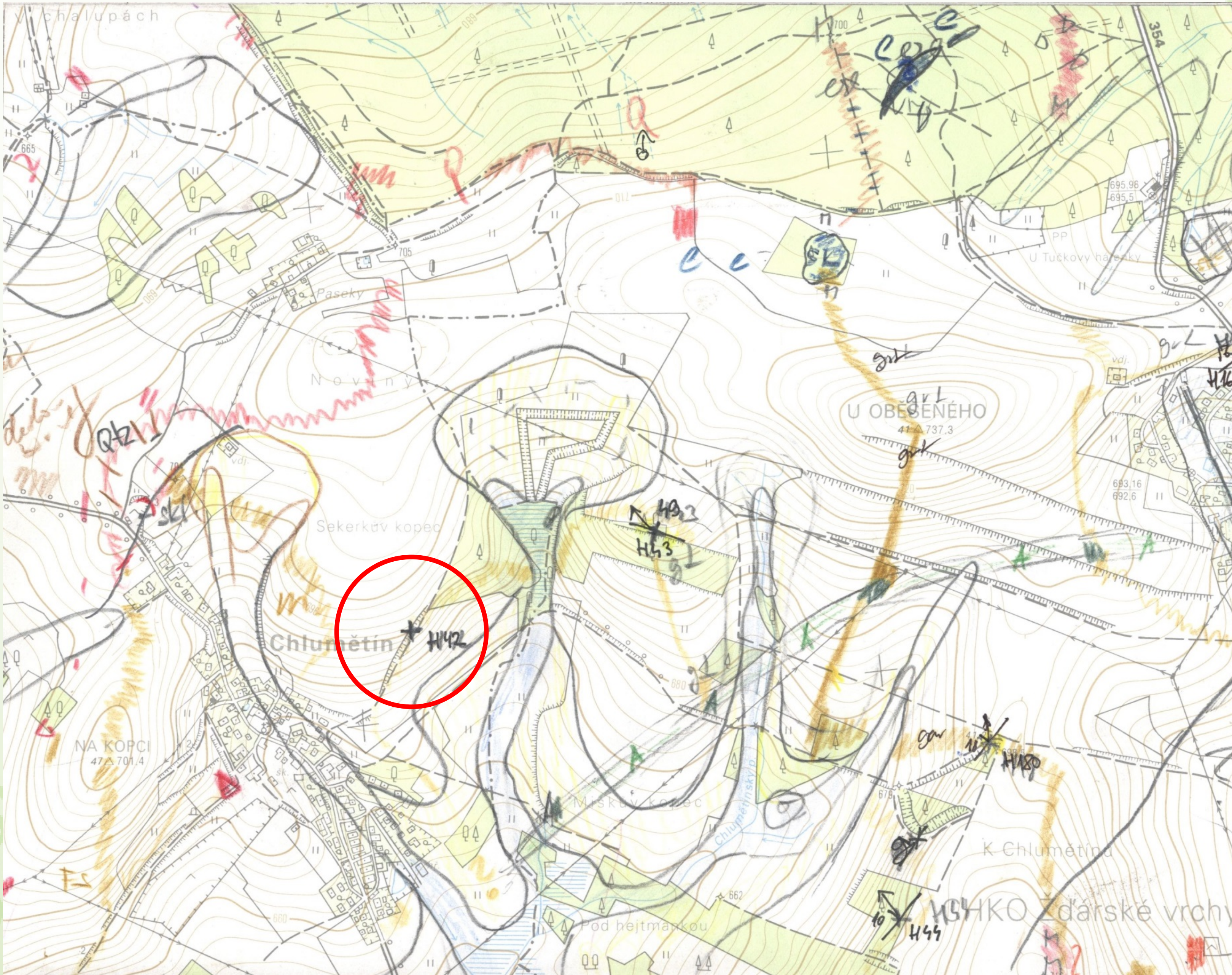
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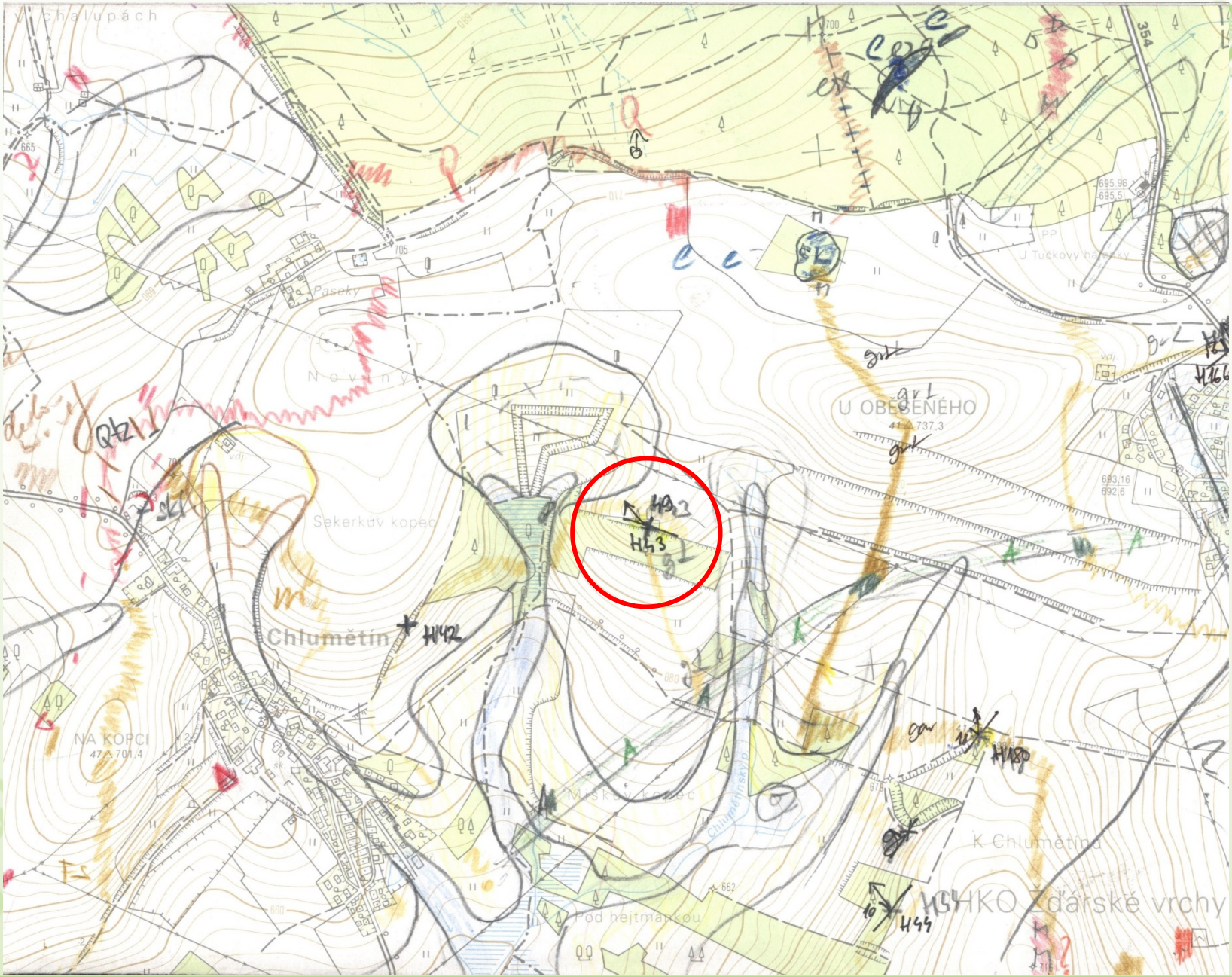
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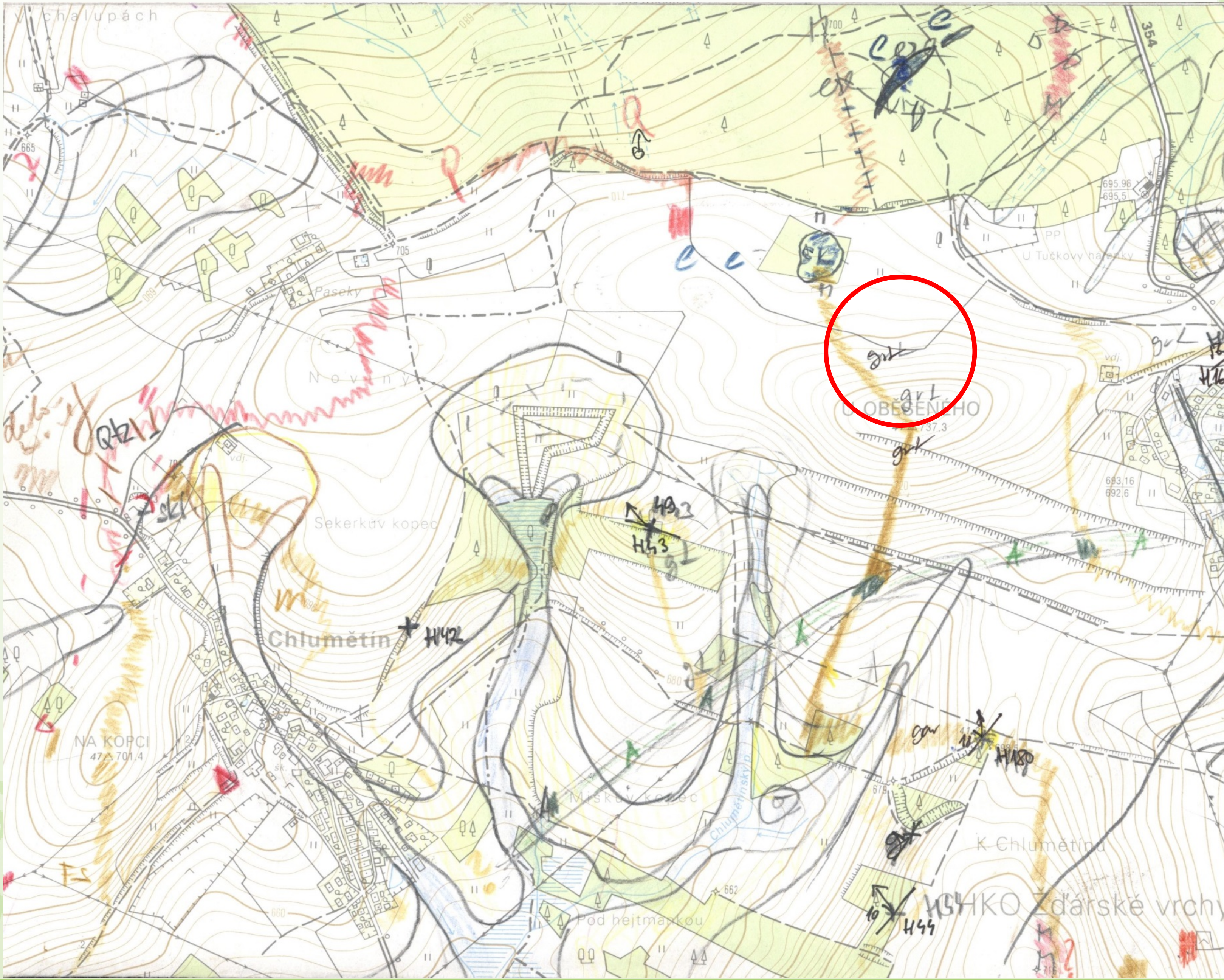
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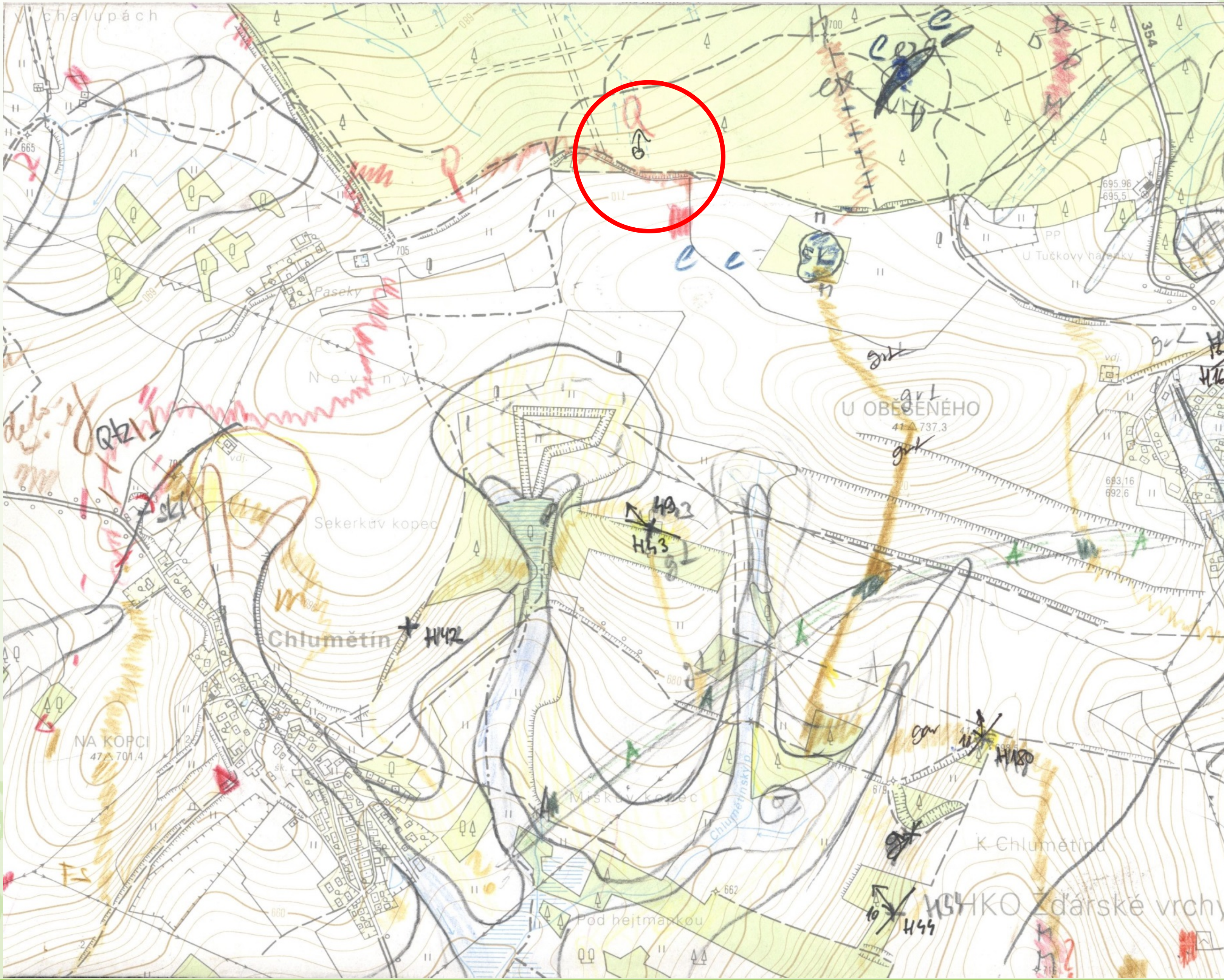
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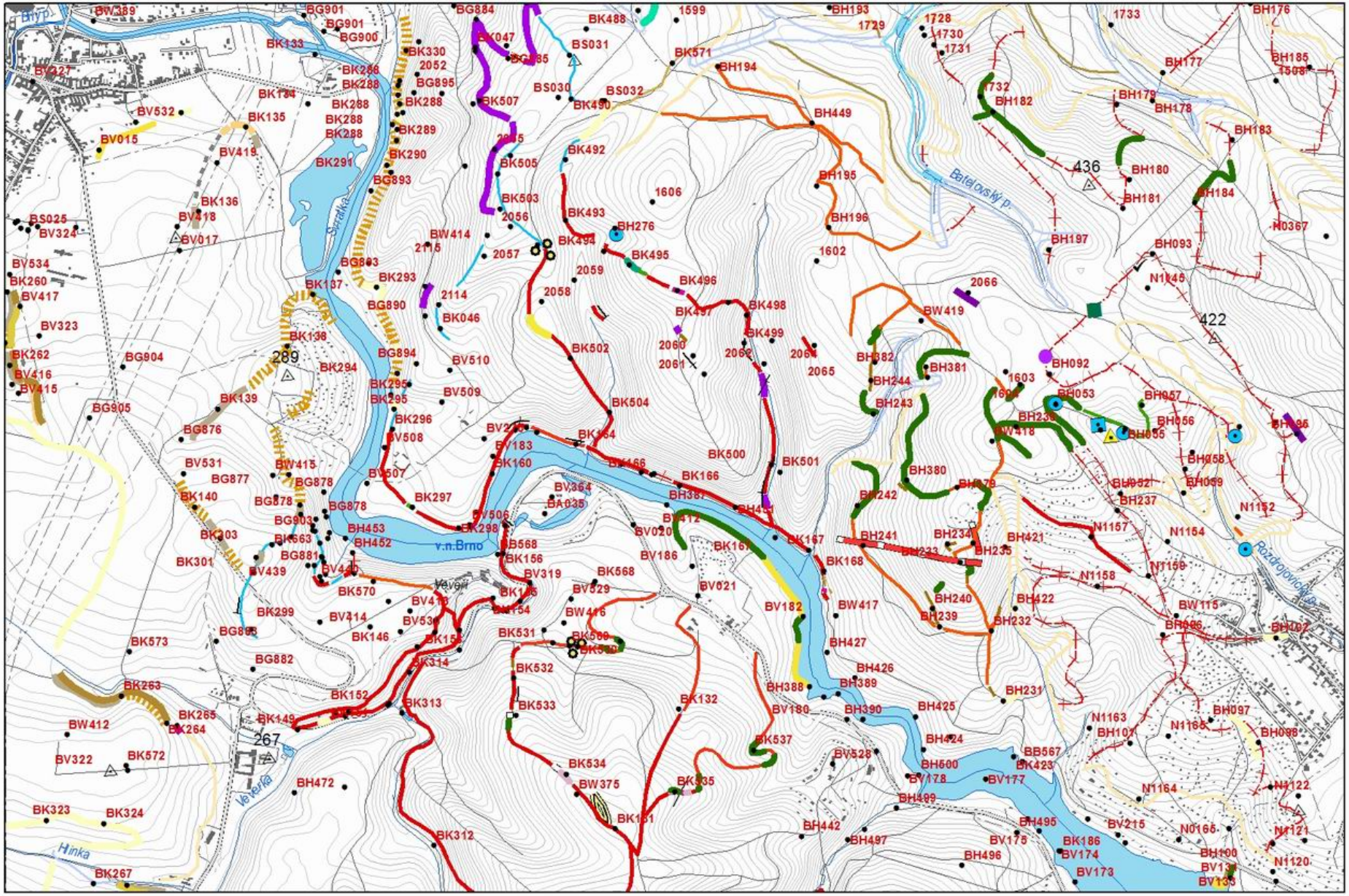
Remarks done by GPS or mobile GIS device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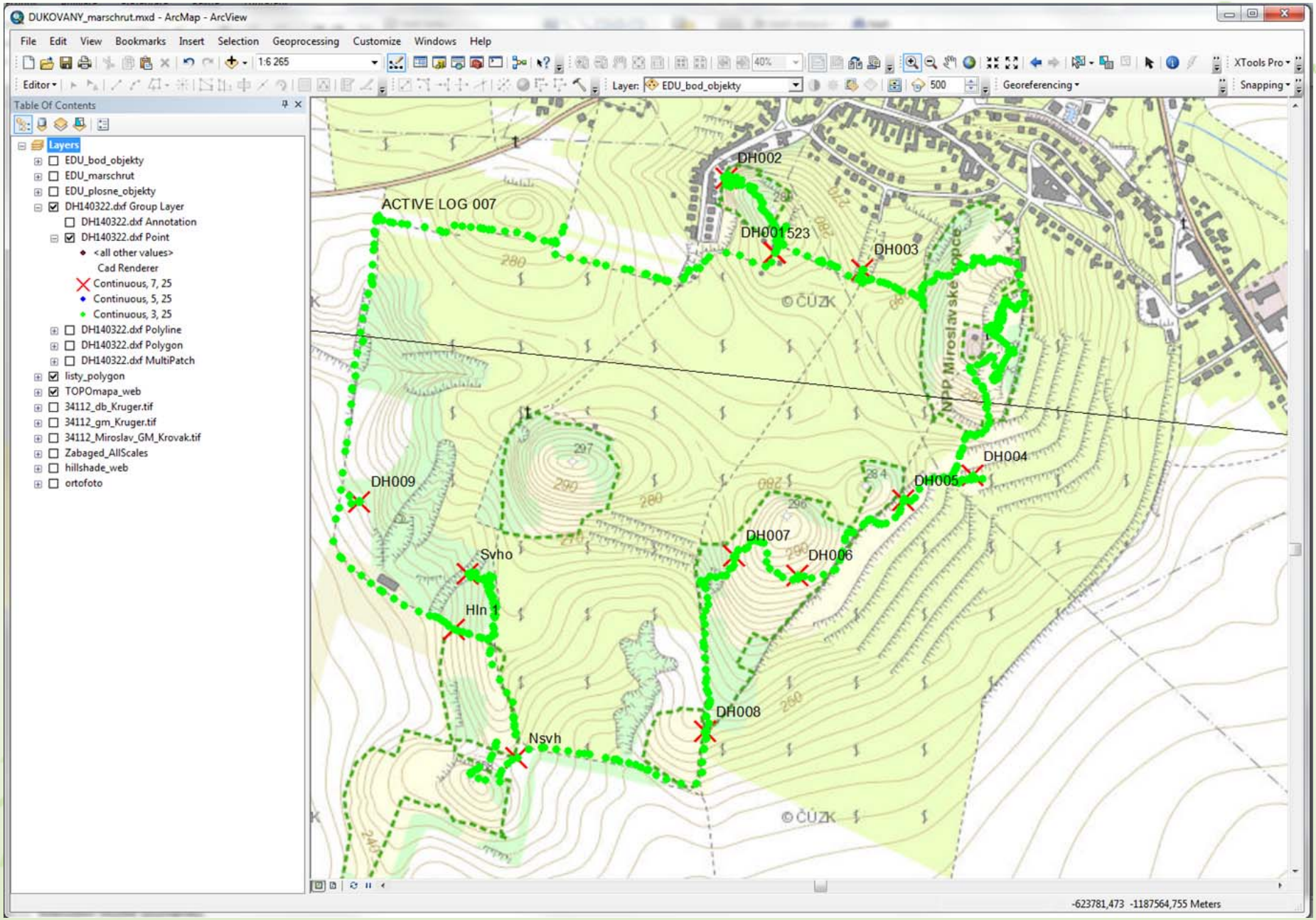
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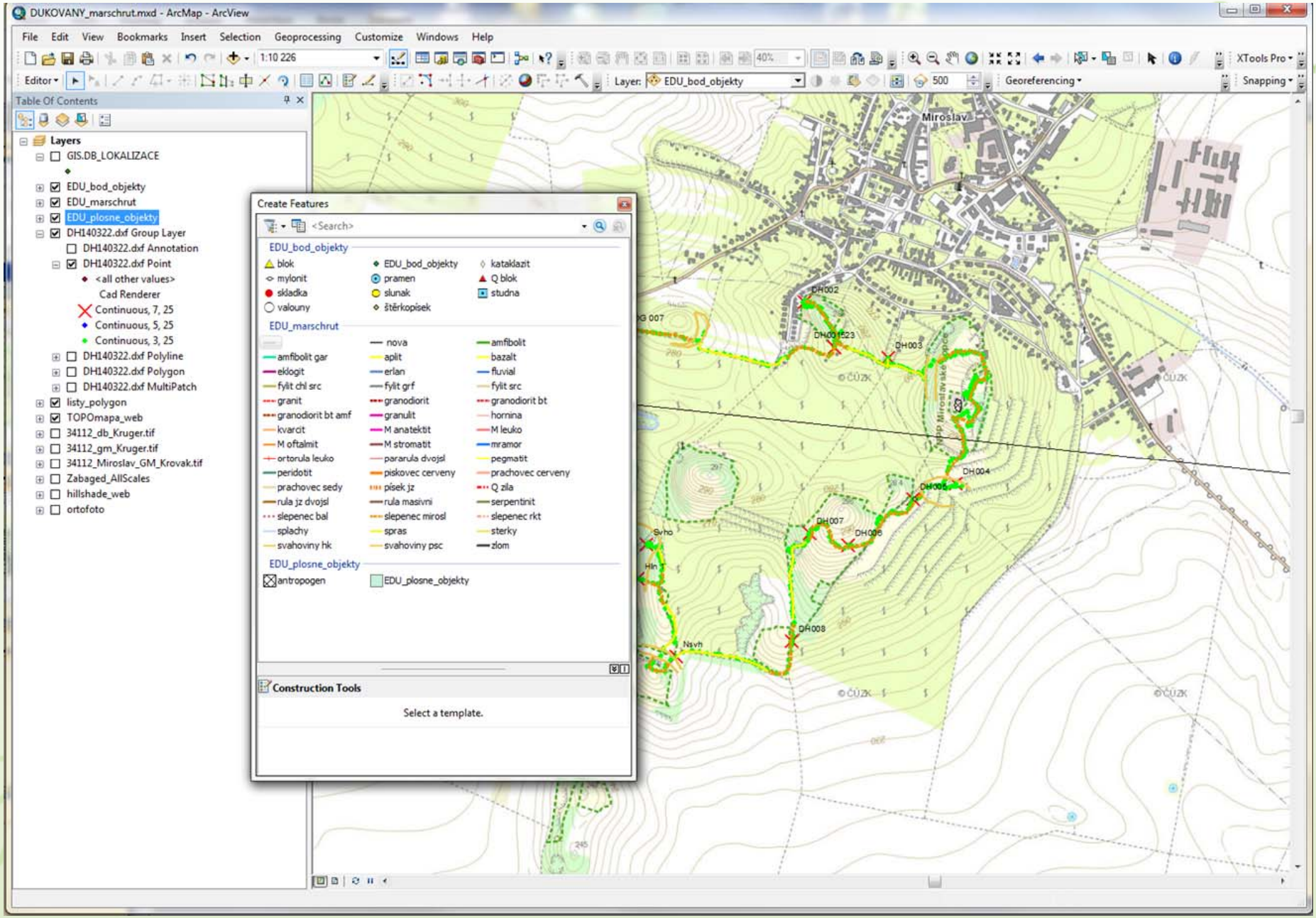
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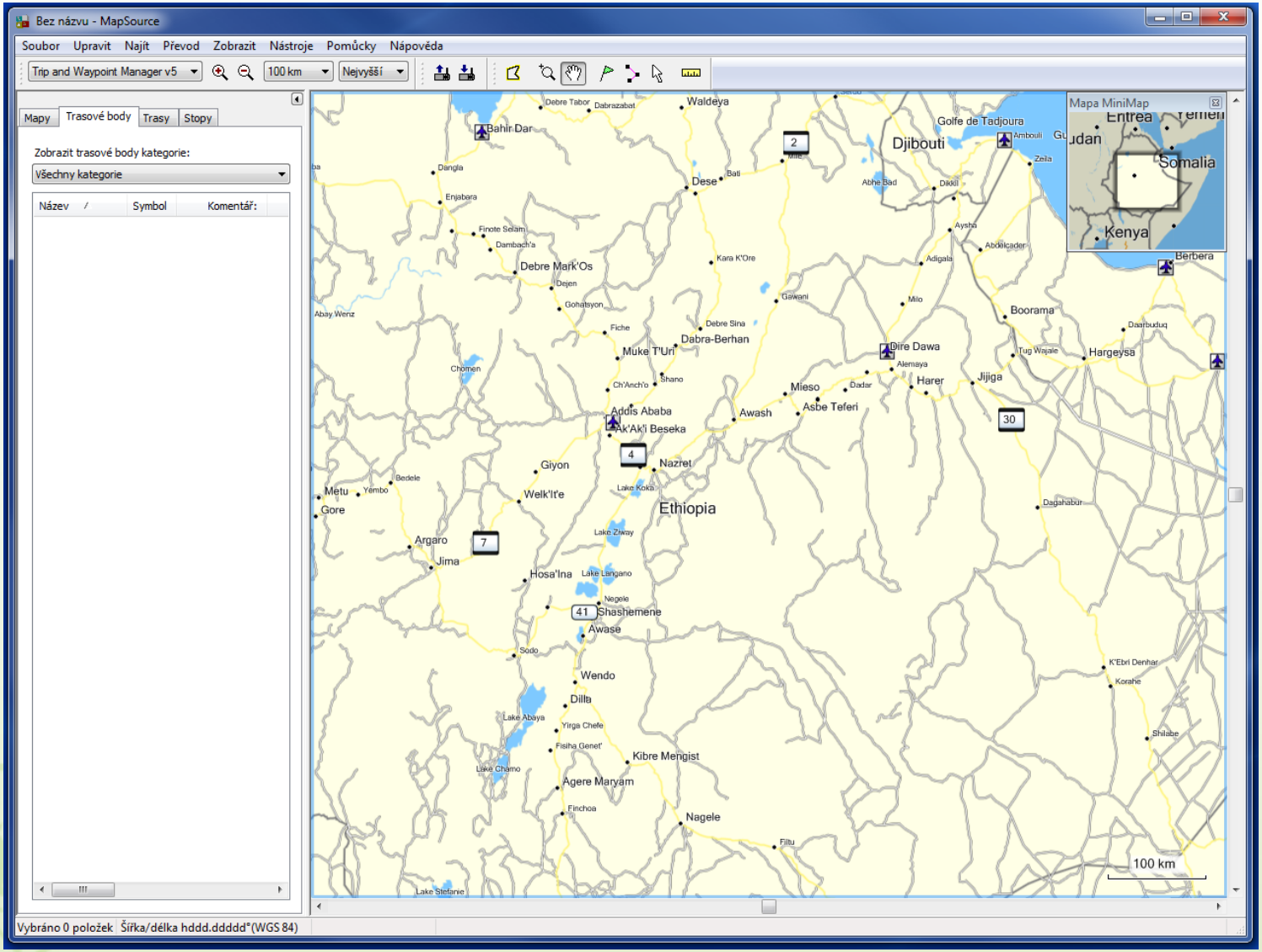
How to get GPS data to ArcGIS?

MapSource

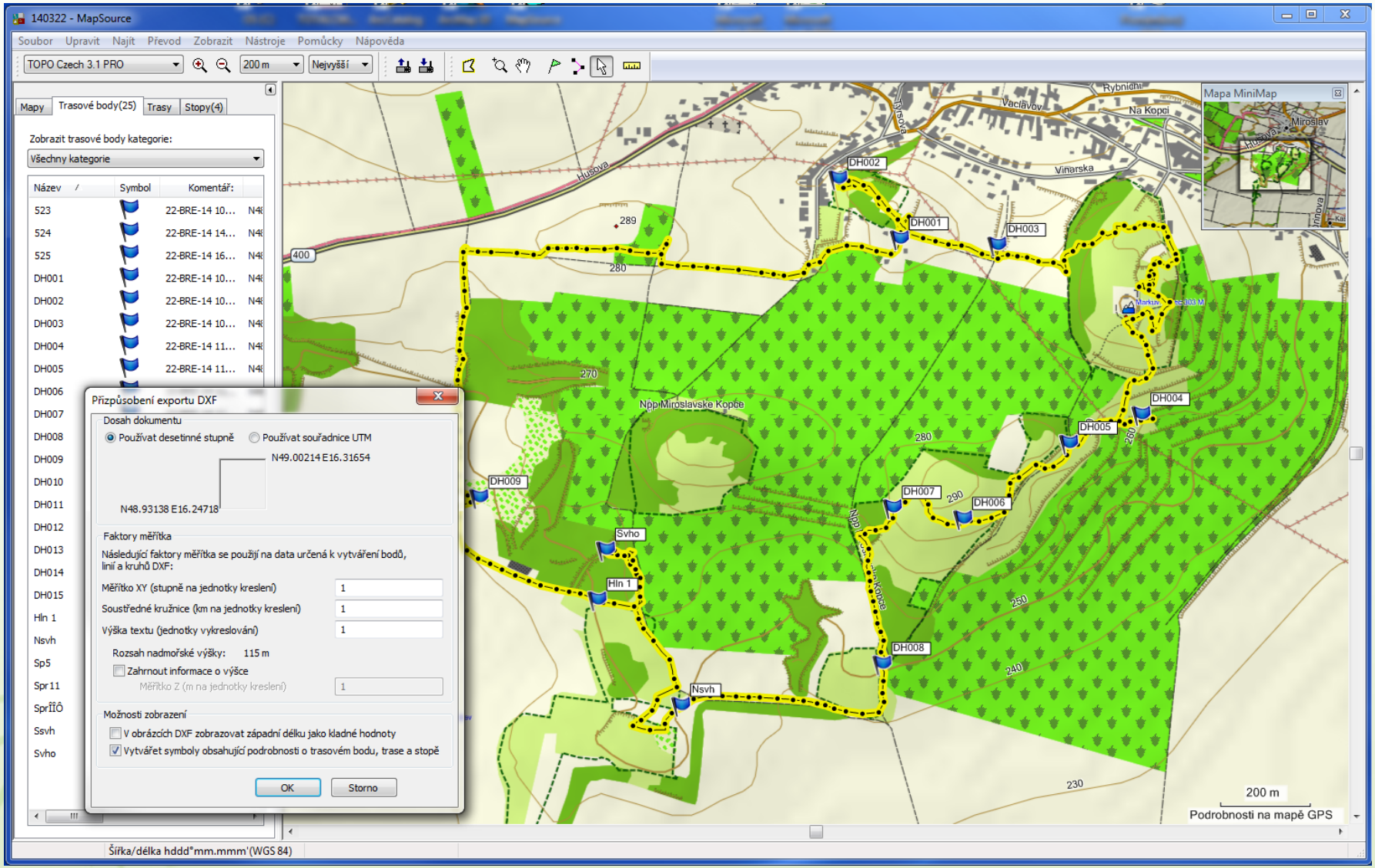
BaseCamp

QGIS

Garmin MapSource



Save as DXF


140322 - MapSource
Soubor Upravit Najít Převod Zobrazit Nástroje Pomůcky Nápověda
TOPO Czech 3.1 PRO
Mapy
Trasové body(25)
Trasy
Stopy(4)
Zobrazit trasové body kategorie:
Všechny kategorie
Název
Symbol
Komentář:
Přizpůsobení exportu DXF
Dosah dokumentu
Používat desetinné stupně
Používat souřadnice UTM
N49.00214 E16.31654
N48.93138 E16.24718
Faktory měřítka
Následující faktory měřítka se použijí na data určená k vytváření bodů, linií a kruhů DXF:
Měřítko XY (stupně na jednotky kreslení)
Soustředné kružnice (km na jednotky kreslení)
Výška textu (jednotky vykreslování)
Rozsah nadmořské výšky: 115 m
Zahrnout informace o výšce
Měřítko Z (m na jednotky kreslení)
Možnosti zobrazení
V obrázcích DXF zobrazovat západní délku jako kladné hodnoty
Vytvářet symboly obsahující podrobnosti o trasovém bodu, trase a stopě
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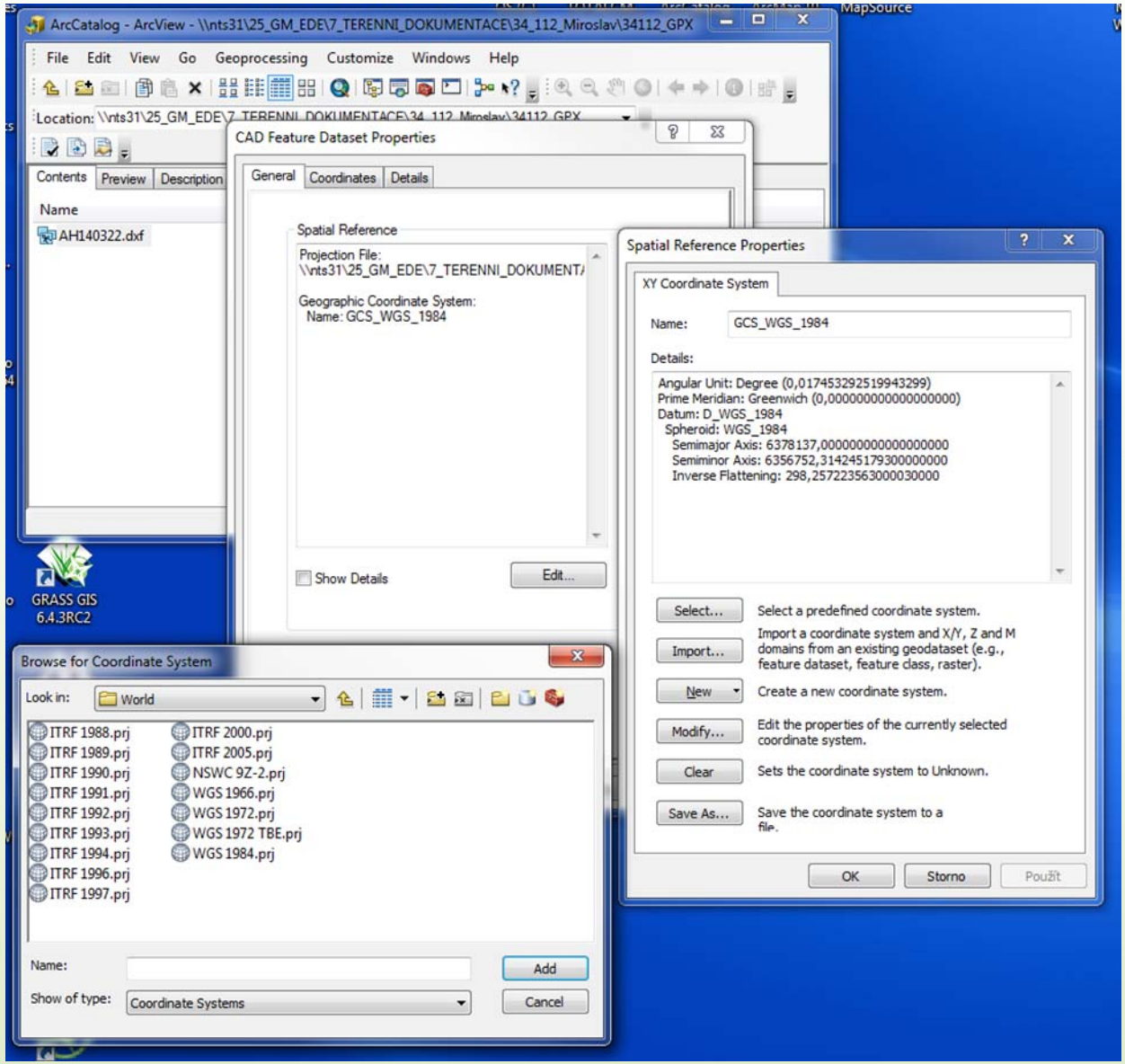
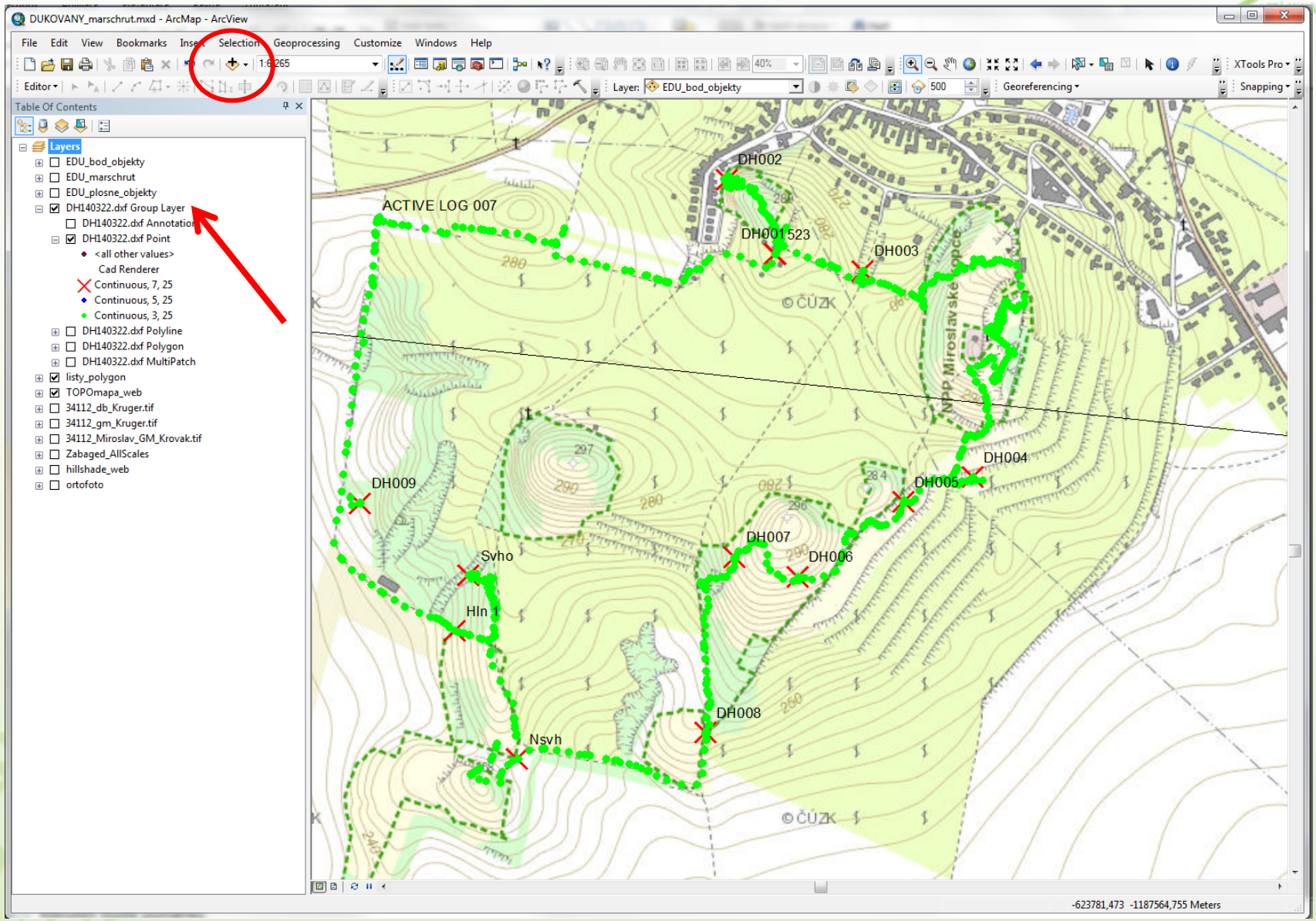
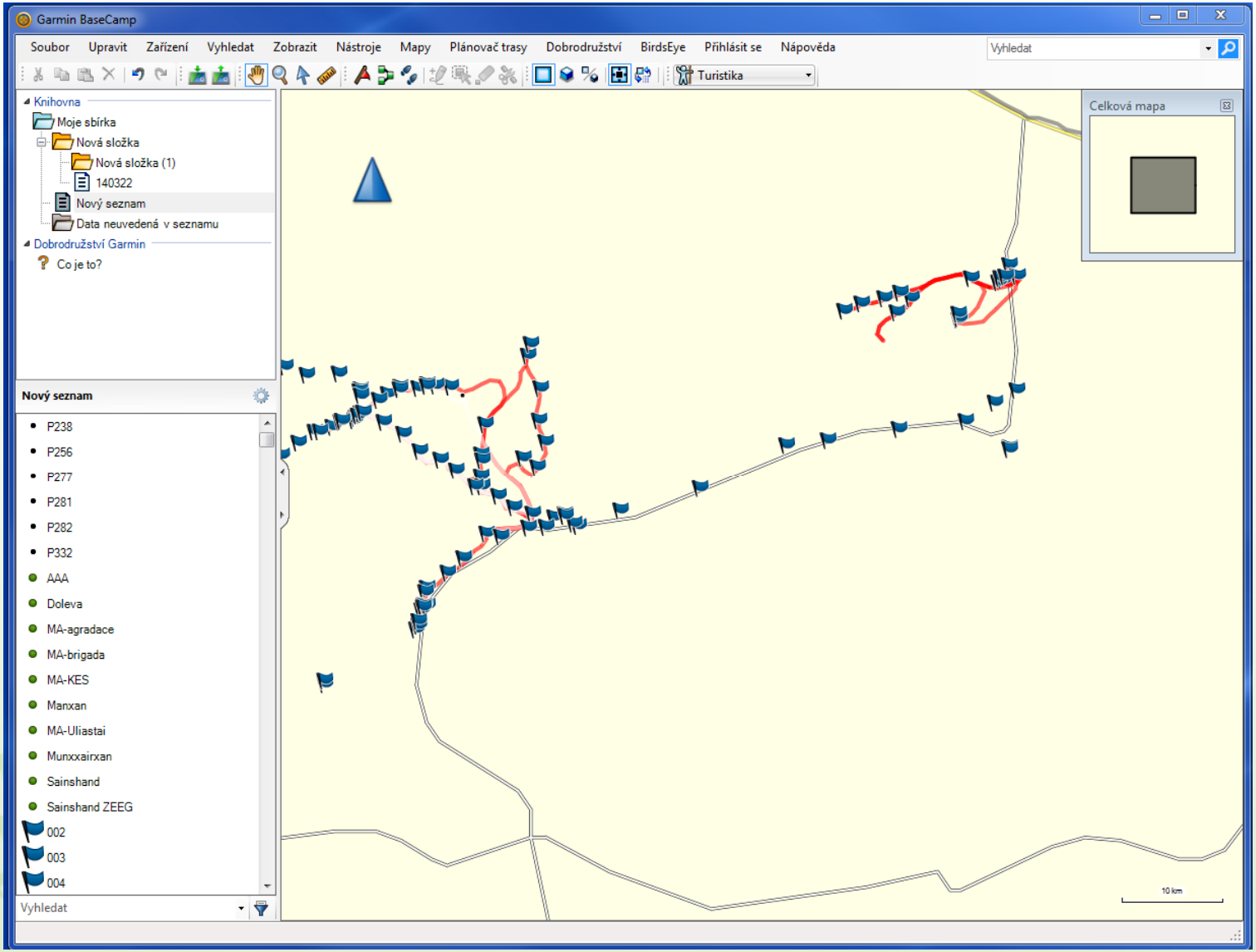
Setting a coordinate system in ArcCatalog



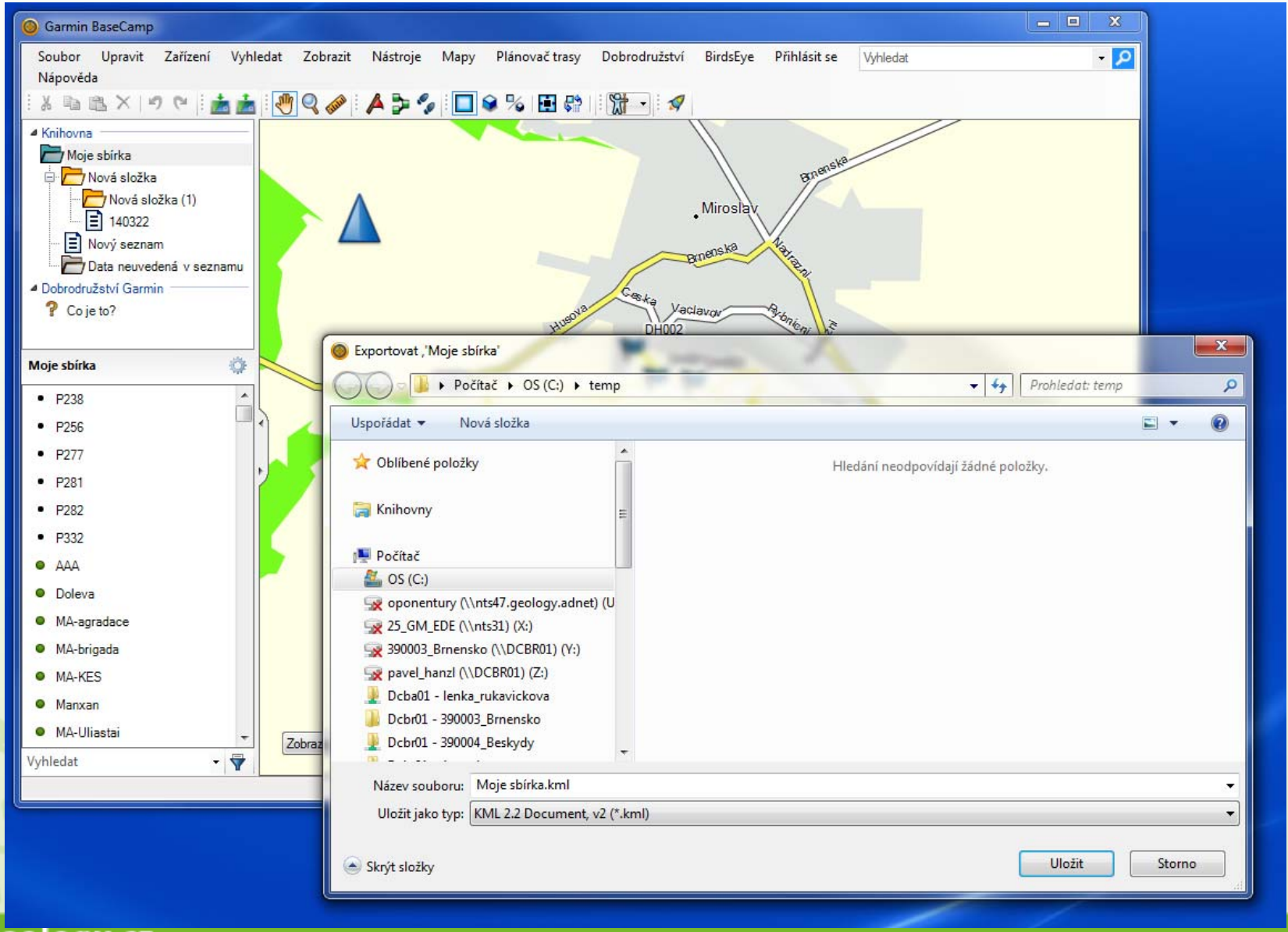
Add to ArcGIS project by „yellow +“



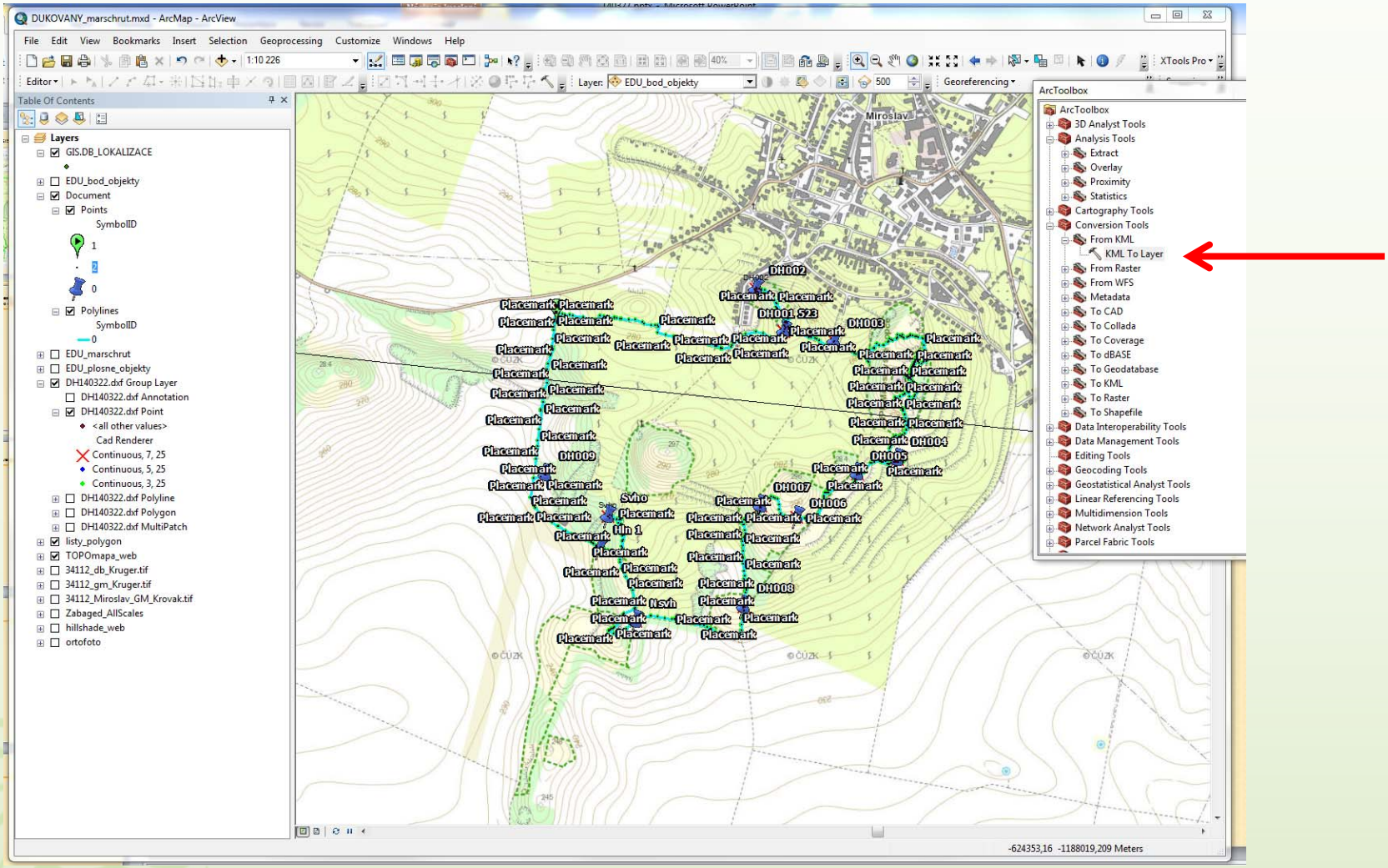
Garmin BaseCamp

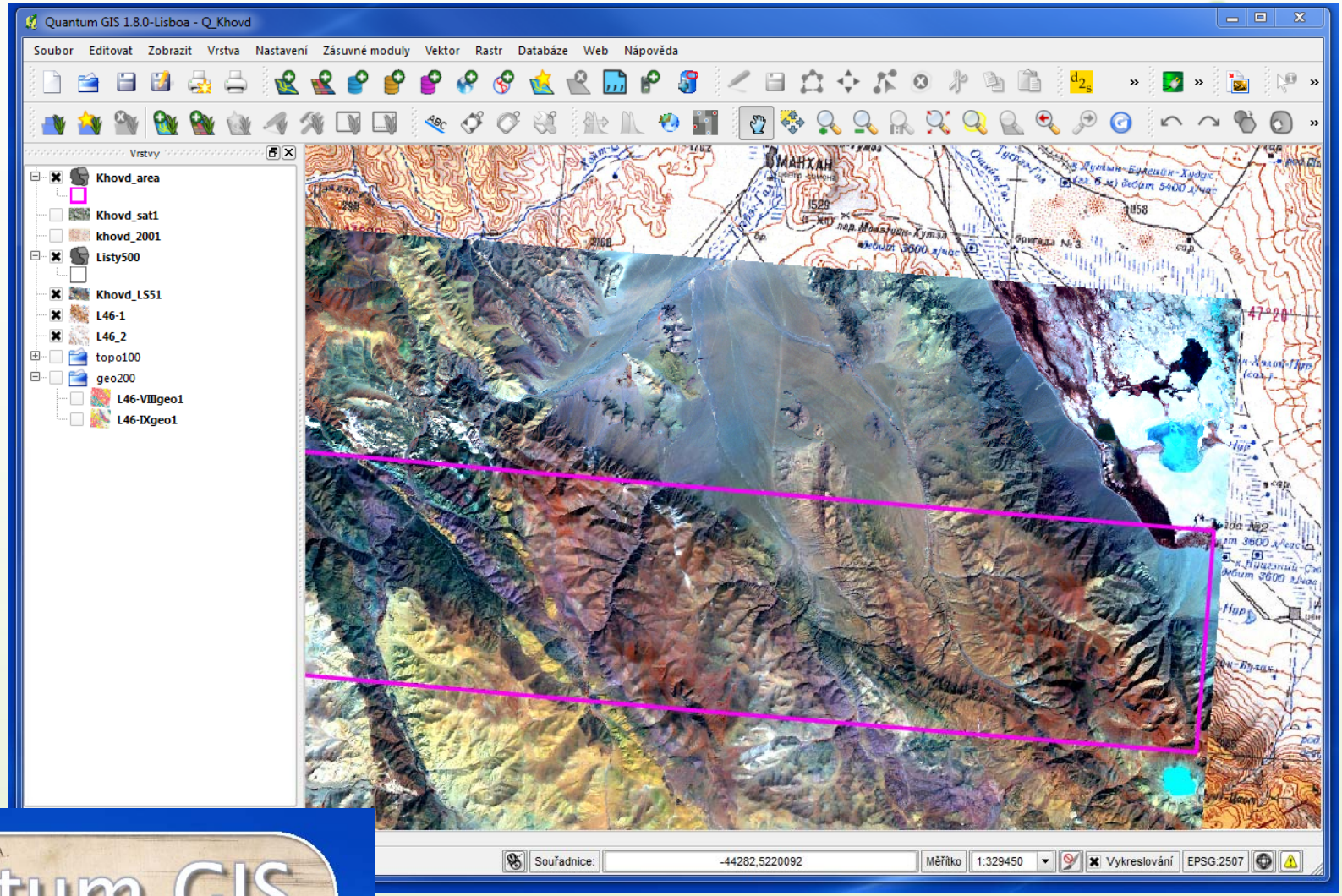


Export to KML



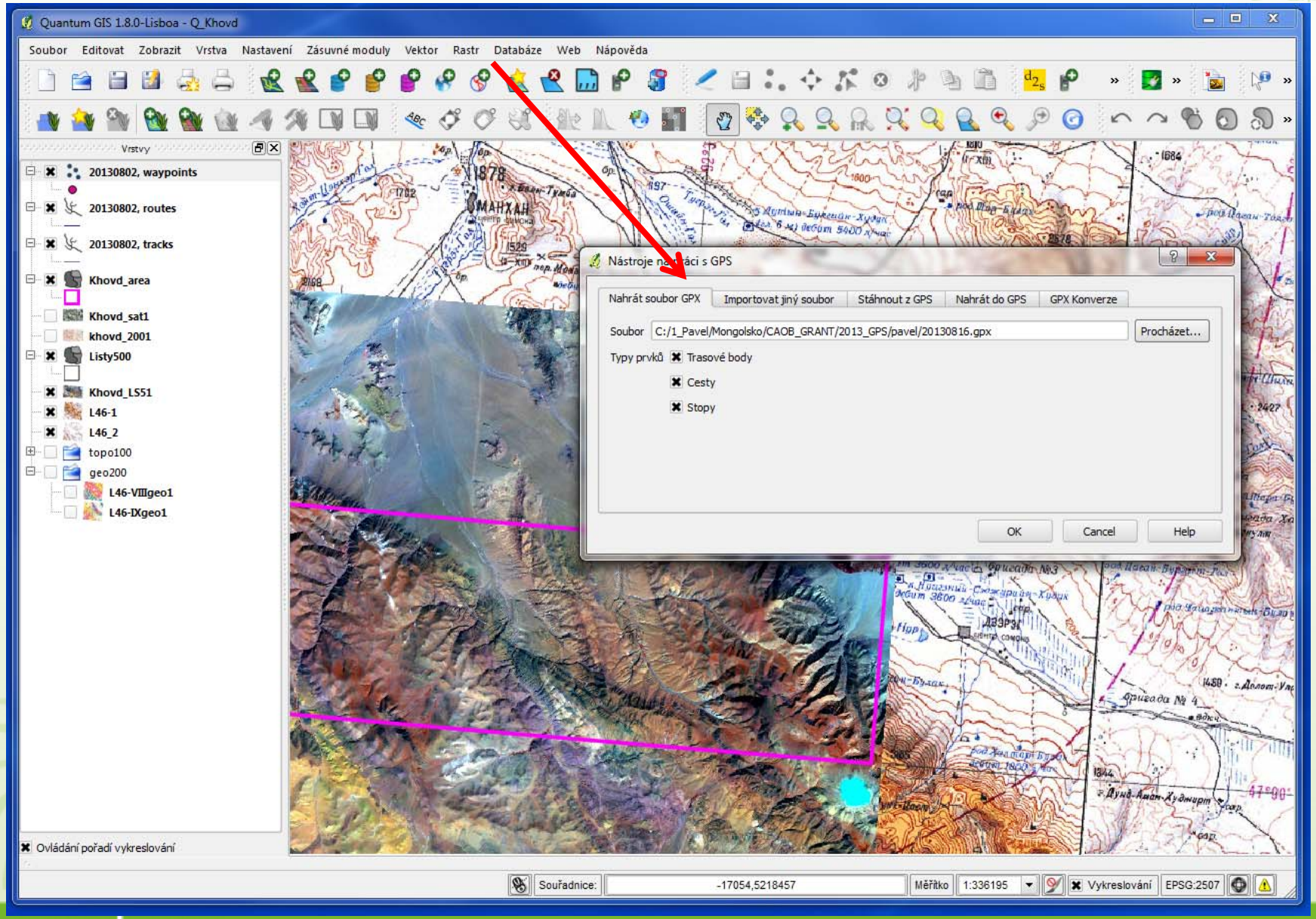
Open KML file in ArcGIS using ArcTool Box





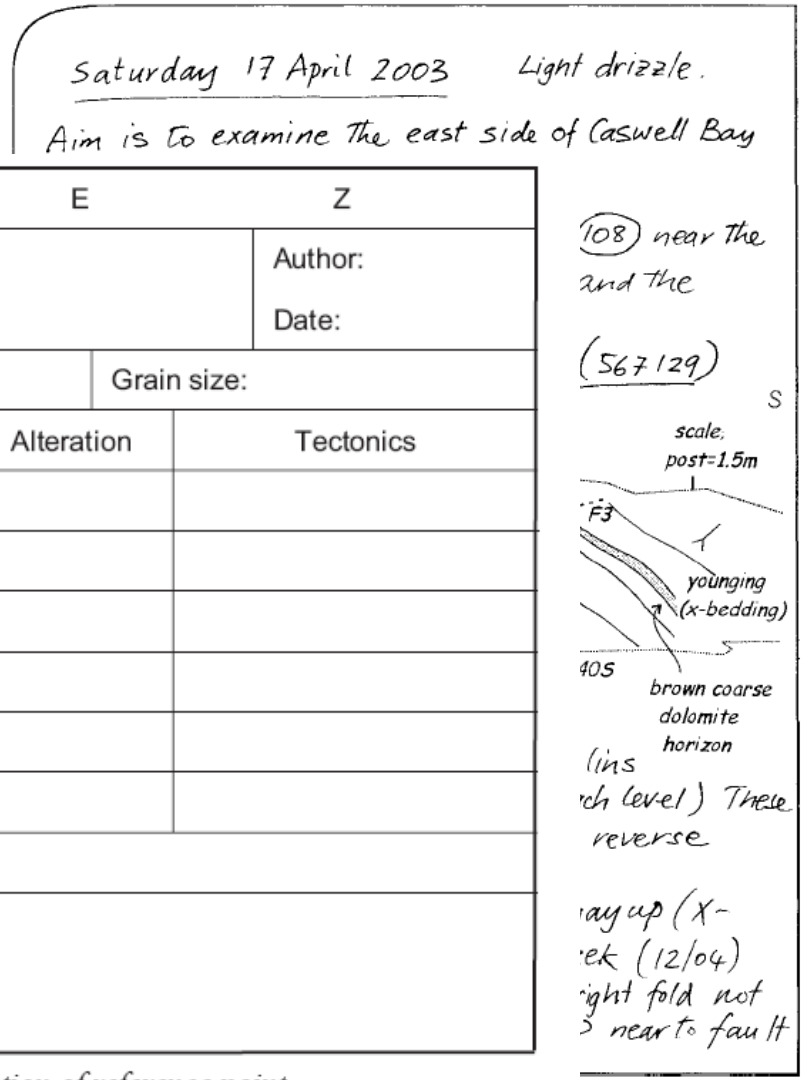
Using QGIS free software

Open GPX file could be directly saved as SHP



Exercise with GPS data

Description of reference point
Field notebook



Sheet No.	Point No.	N	E	Z
Type of outcrop:		Localisation:		Author:
Type of sample:				Date:
Valley:		Stream gradient:		Grain size:

Fm.	Rock	Grain size	Composition	Alteration	Tectonics

Ore minerals:	Fossils:
Other observations:	

Fig. 1.2-1. Documentation card for the record of the field description of reference point.

Steps (parts) of description of exposure

Localisation

Rocks

Tectonics

Samples

Suplementary remarks

Illustration

Photograph

Localisation

Point in the field map with number

GPS coordinates (in proper format and coordinate system)

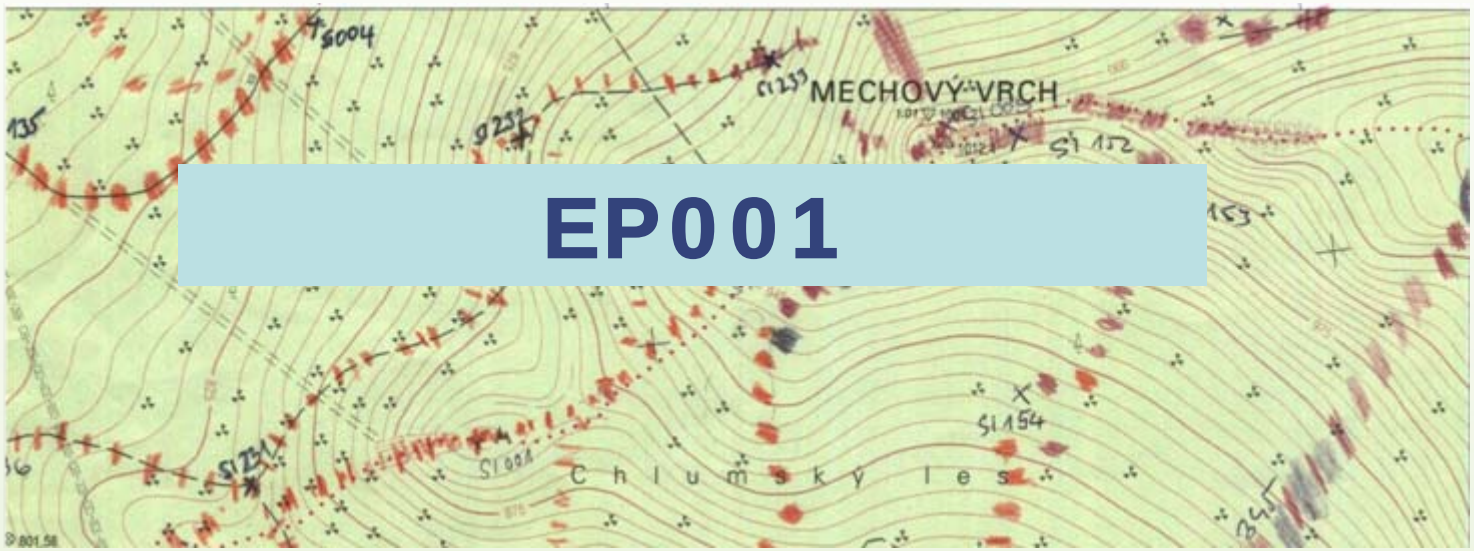
Verbal description

Type of outcrop

Name of geologist

Date

Label of reference point must be unique in the map sheet or in the mapping area.

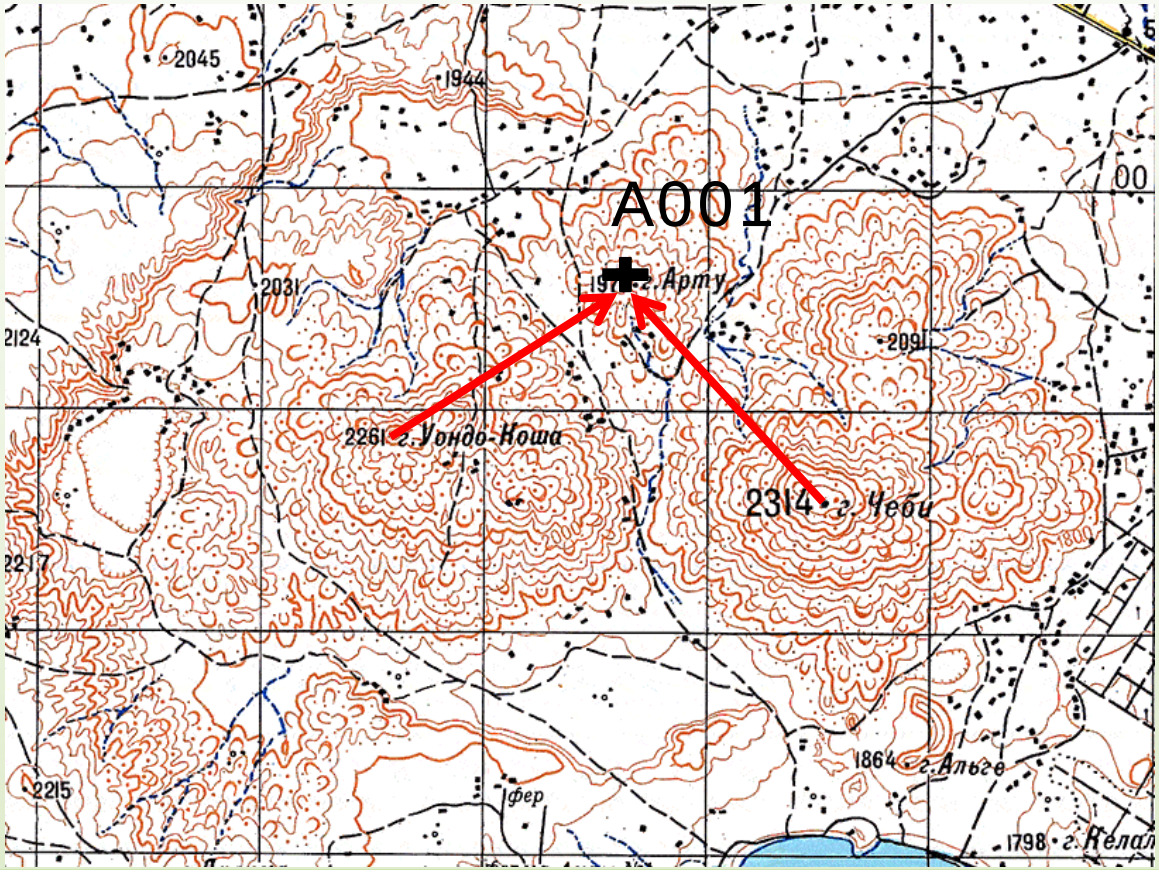


RP No is expressed as combination of letters and numbers, which indicates name of geologist and/or map sheet and ordinal number of point.

GPS coordinates - WGS84 dd.ddddd, Adindan UTM 37 N

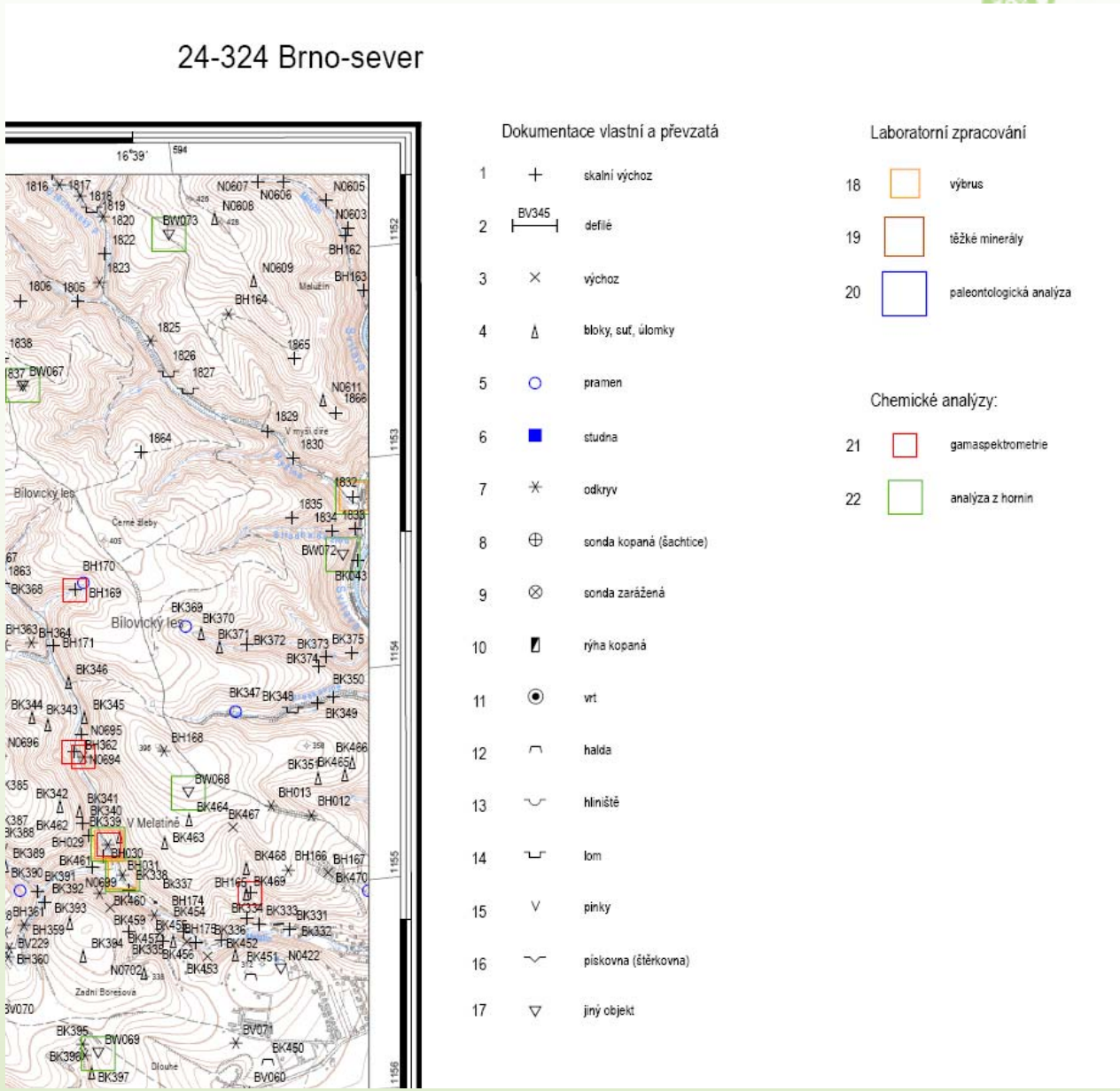
Verbal description – distance from two points on topographic base

2300 NE from spot height 2314 m Tschebi, 1950 m from spot hight 2261 Yondo-Nosha



Type and size of the outcrop

Rock
Block
Cut of road
Quarry
Sand pit
Borehole
Bank of river
...



Rock(s)

Field name – descriptive, will be specified according to thin sections

Colour – subjective

Grain size – massive, fine, medium, coarse-grained

Texture – various for sedimentary, magmatic and metamorphic rocks

Mineral composition – additional qualifiers

Alteration

Mineralisation

Tectonics

Plane elements – bedding, cleavage, foliation, fault, joint, axial plane, limb…

Linear elements – lineations, flute cast, ripple marks, fold axis, striae…

Samples

Petrography, geochemistry, petrophysical properties, mechanical properties...

Each sample should be related to the RP No. and rock and should be well labeled

L408B
Basalt
Paleomag

Suplementary remarks

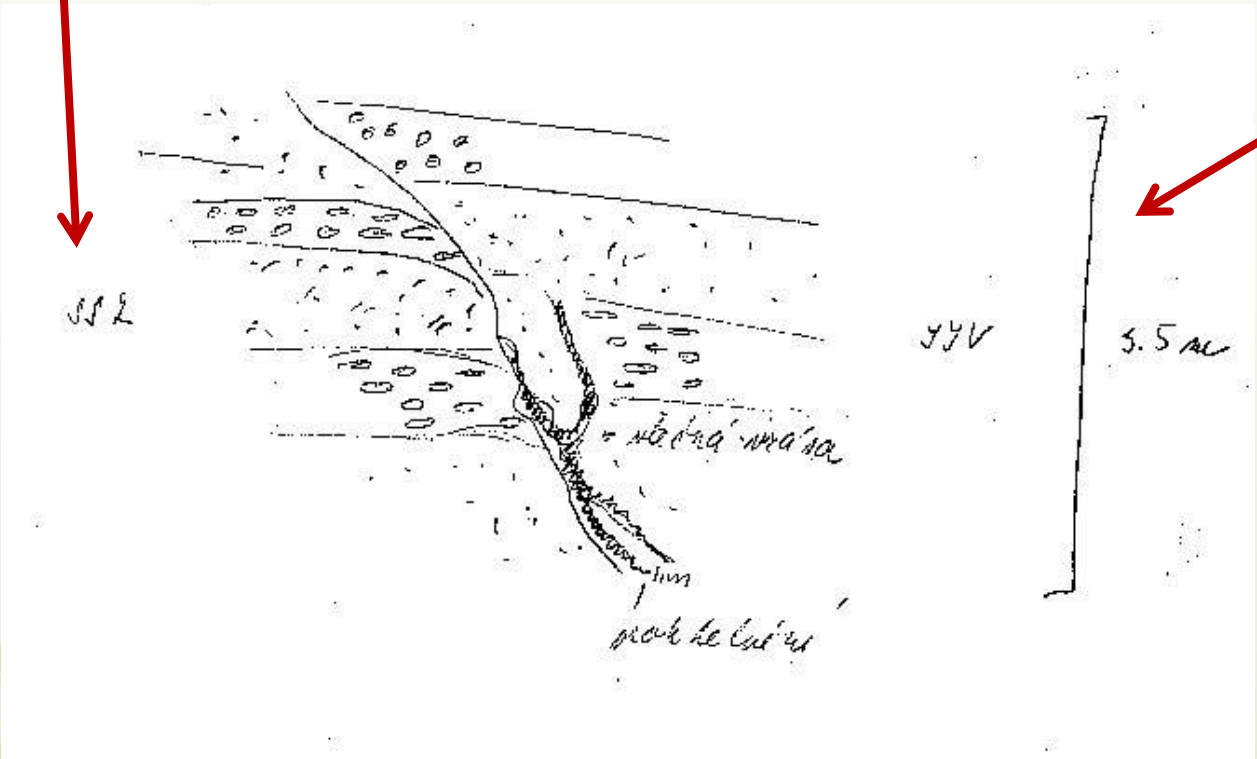
Relation of rocks
Relation of tectonic elements
Presence of water
Paleontology
...

Should be completed by illustration and photodocumentation

What is important to be on illustration?

orientation

scale



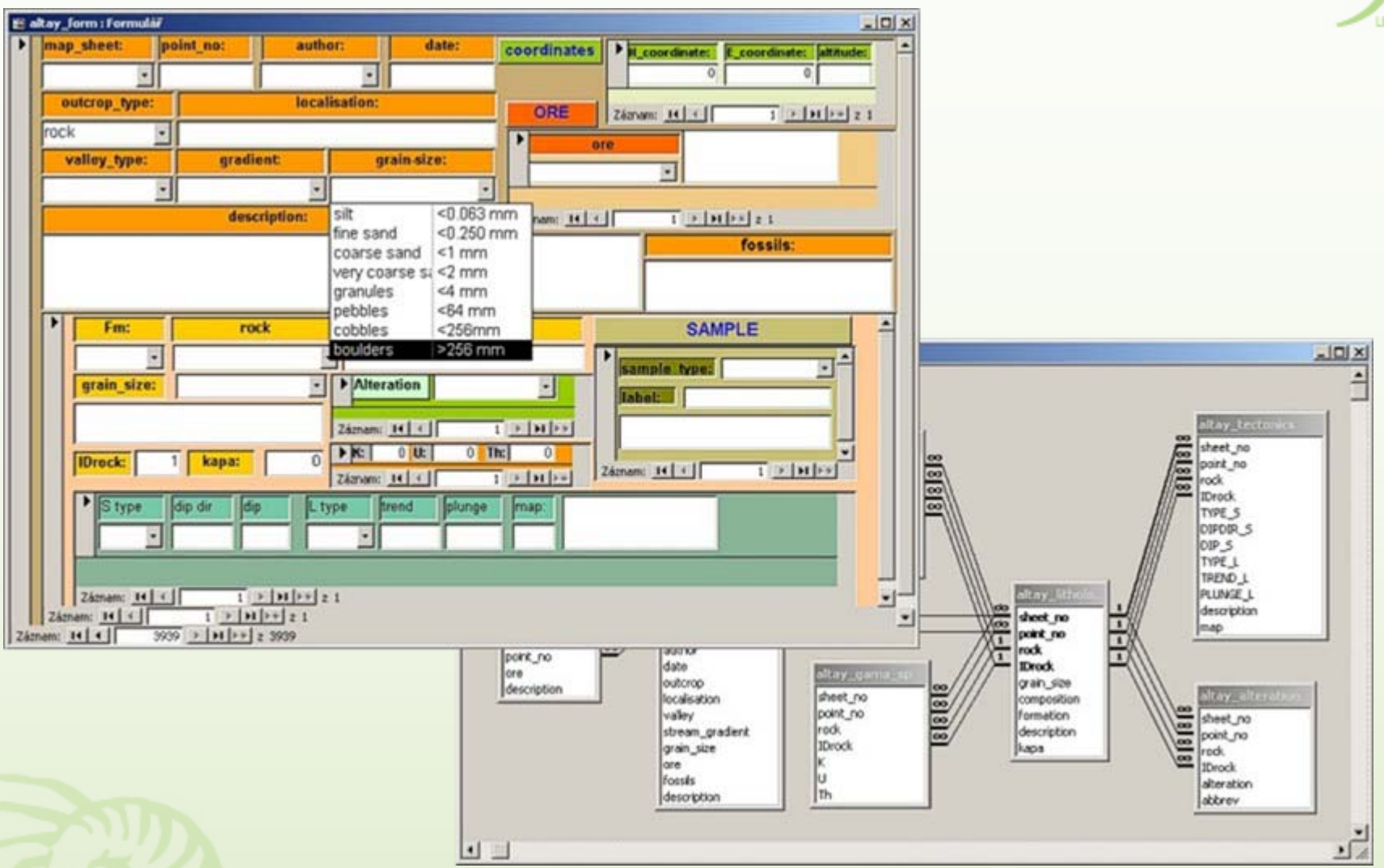
Storing of field data

Archive of documentation cards or field notebooks

Scanned coppies of field notebooks

Databases


INGRESOS
Y
EGRESOS
IXTEPEC
1944
1954
INGRESOS
=IXTEPEC=



Desktop version – MS ACCESS

Kód dokumentačního bodu **BH117** Číslo mapového listu (ZM) **24-324** Geologické mapování

Nejbližší geogr. název/polohopis Jinačovice Autor Hanžl Pavel

Lokalizace

Výkop na elevaci nad erozní rýhou jv. od obce

Popis

spraše lokálně přesucovány granodioritovým eluviem, mocnost spraší v erozní rýze min. 5 m.

Typ výchozu výkop (jáma) Zvodnění

Význam Č.význ.lokality (vysvětlivky)

Rozměr [m] 20*5*8 Č. listu mapy 1:10000

Instituce

Poznámka

Číslo úkolu Původní kód u revidované dok.

Dokumentace vlastní **Datum dokumentace v terénu:** 14.03.2010 (tvar DD.MM.RRRR) Datum přibližné

(pro přibližné datum uvádějte 1. v měsíci je-li znám měsíc, případně 1.1., je-li znám pouze rok)

Uložit **Kopie** **Odstranit**

1. spraš SXQP - pleistocén, XX - nerozlišeno, Z2 - kvartér akumulačních oblastí Českého masivu

Nová hornina

Přílohy k dokumentaci BH117

popis

bh117
14.03.10

Altay project
Online field database

Search: Submit

Logged in as pavel (Logout)

You are here: Sites :: P430 :: View My Profile Change Password

navigation

Sites
Units
Structural types
Rocks
Samples
Structural data
Photos

details list find

new record show all copy set delete update set import records

Found 1787 of 1787 records in table Sites
Now Showing 1 of 1787

Current Record: P430

view edit photos rocks history

P430

Coarse grained bt orthogneiss alternates with with bt gneiss (to migmatite) containing calc-silicate lenses, S 278/86, L 6/61 b 9/49 AP//S, b 192/10 AP 260/80, S 328/61 L 356/47

Last updated Thursday, October 09, 2014 - 5 days ago

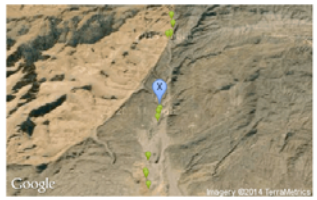
Rocks see all
orthogneiss
migmatite

Photos see all
P420.JPG
P430a.JPG
P430b.JPG
P430e.JPG

Samples

Details
Site starts P
SiteID 1599
Site Name P430
Longitude 94.709106
Latitude 45.545815
Description Coarse grained bt orthogneiss alternates with with bt gneiss (to migmatite) containing calc-silicate lenses. S 278/86, L 6/61 b 9/49 AP//S, b 192/10 AP 260/80, S 328/61 L 356/47
Last modification Thu Oct 9 20:26:54 2014
Author pavel

Map view



Show in Google Maps

Neighbouring sites

V417	305 m
Z436	393 m
K421	394 m
V418	605 m
K420	1974 m
V416	1976 m
V411	2202 m
Z442	2353 m
V415	2546 m
Z435	2605 m
L420	2617 m
P431	2714 m
P429	2974 m
Z441	2989 m

Submit

pavel (Logout)

Change Password

Structural types
Rocks
Samples
Structural data
Photos

view edit history

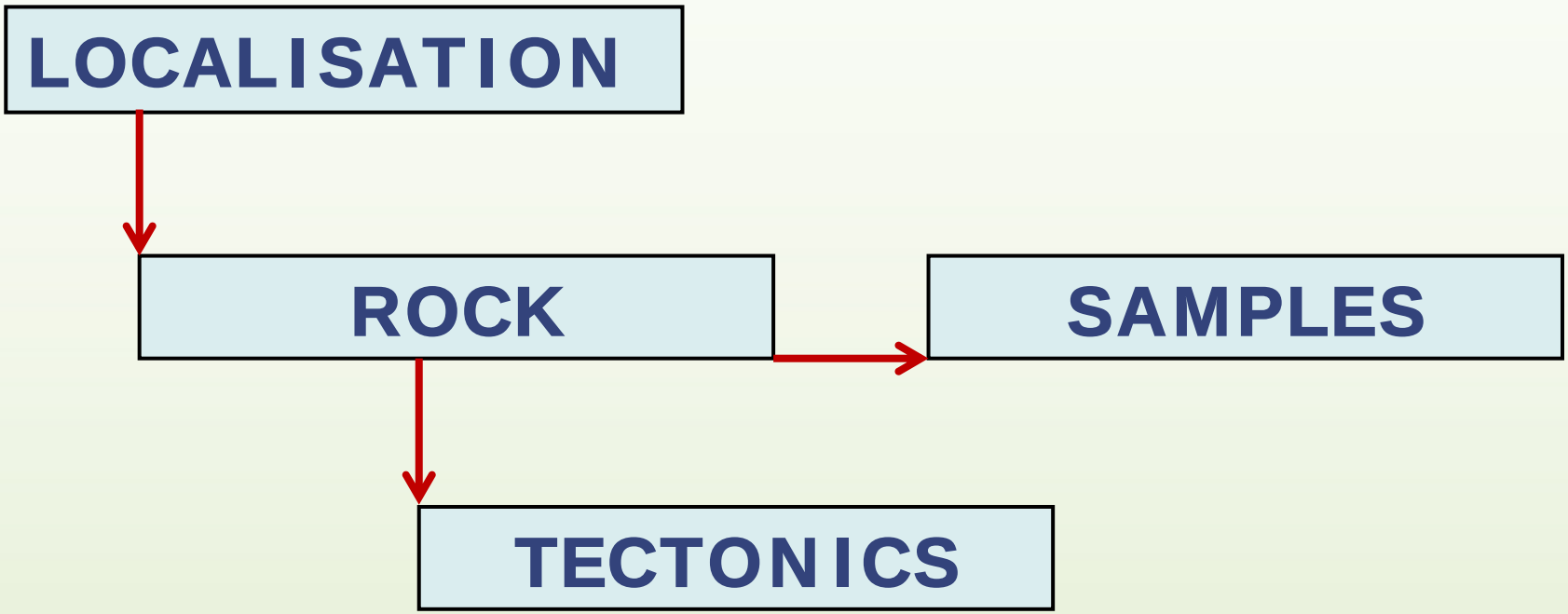
P430.JPG

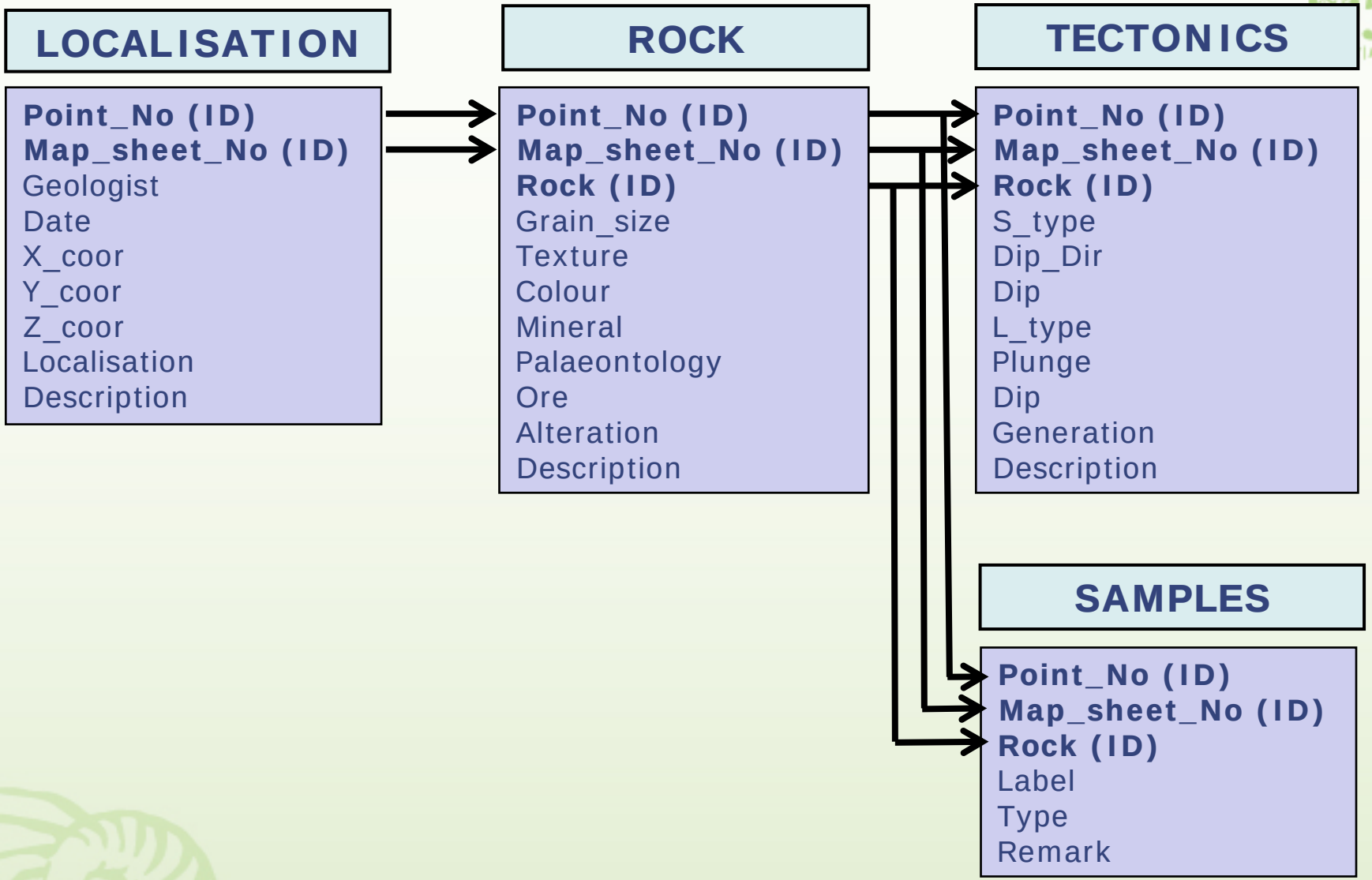
Last updated Thursday, October 09, 2014 - 5 days ago

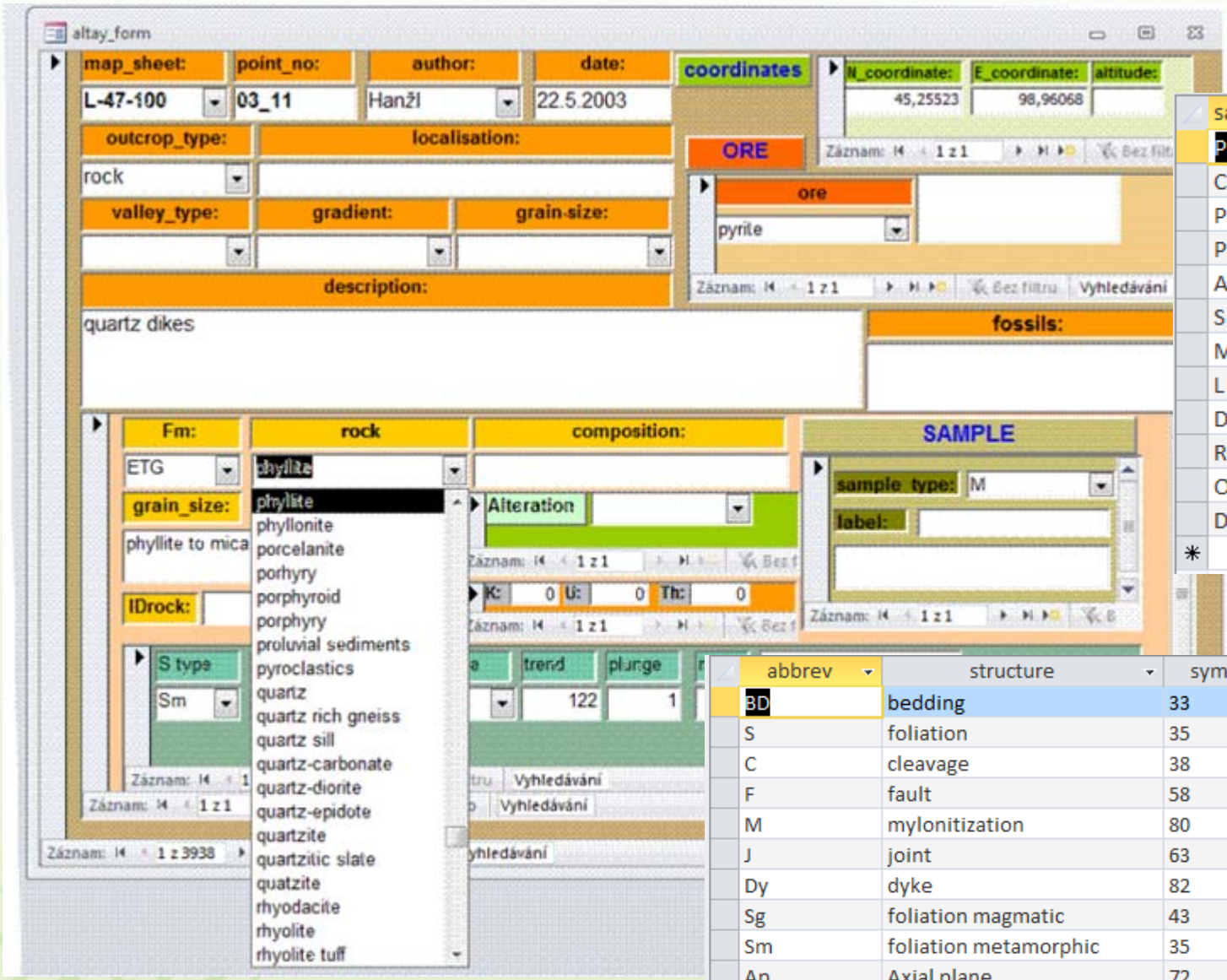
Photo

On-line database

Documentation database - structure

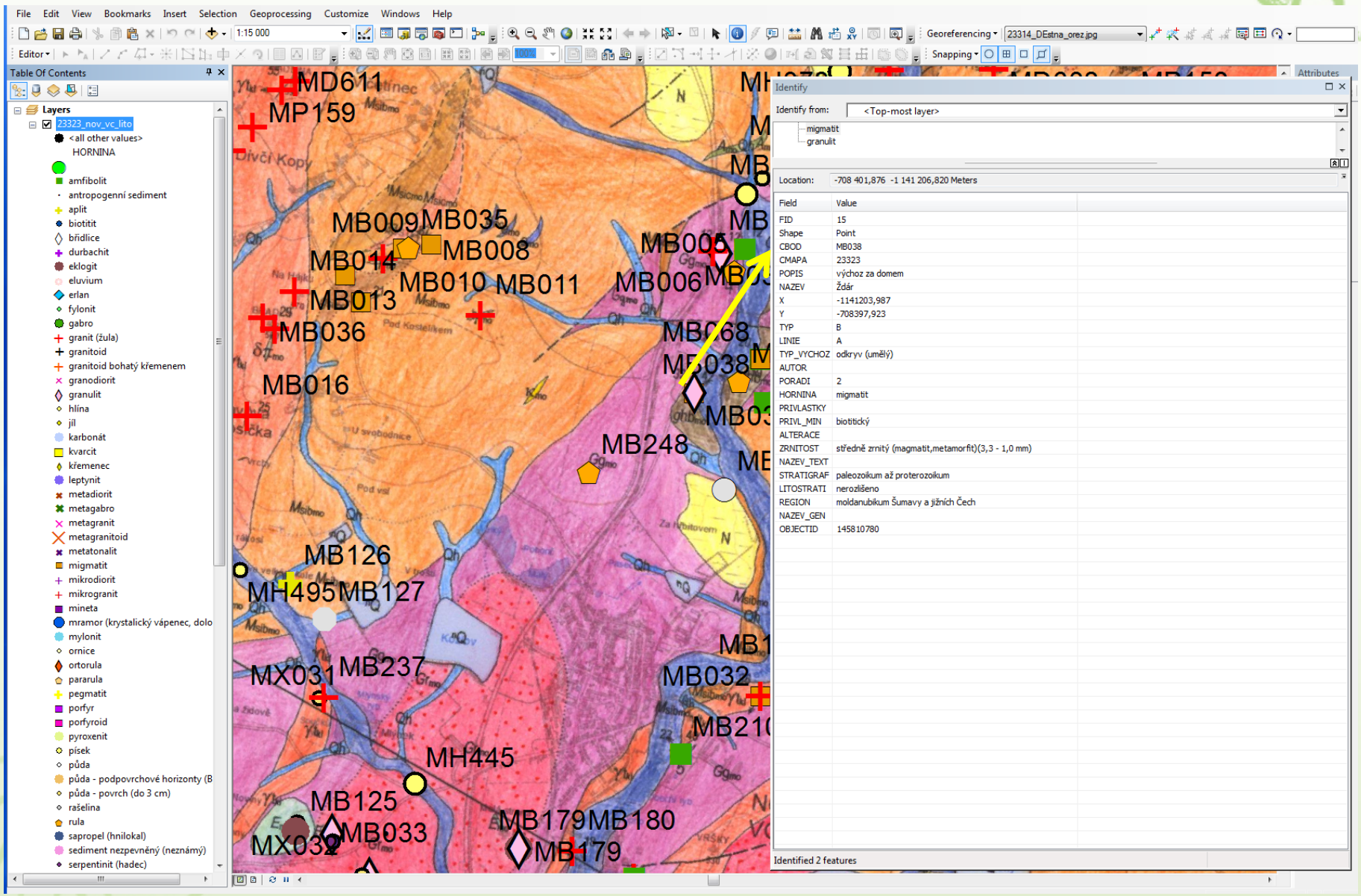



LOCALISATION
Point_No (ID)
Map_sheet_No (ID)
Geologist
Date
X_coor
Y_coor
Z_coor
Localisation
Description
ROCK
Point_No (ID)
Map_sheet_No (ID)
Rock (ID)
Grain_size
Texture
Colour
Mineral
Palaeontology
Ore
Alteration
Description
TECTONICS
Point_No (ID)
Map_sheet_No (ID)
Rock (ID)
S_type
Dip_Dir
Dip
L_type
Plunge
Dip
Generation
Description
SAMPLES
Point_No (ID)
Map_sheet_No (ID)
Rock (ID)
Label
Type
Remark



samp	sample_type
Pe	petrography
Ch	WR geochemistry
Pa	paleontology
PaM	micropaleontology
A	alluvial sample
S	silt (stream) sample
M	soil metalometry
L	lithogeochemistry
D	radiometric dating
R	R-max
O	ore petrography
D	Dickinson
*	

abbrev	structure	symbol	code
BD	bedding	33	2
S	foliation	35	4
C	cleavage	38	32
F	fault	58	3
M	mylonitization	80	5
J	joint	63	2
Dy	dyke	82	9
Sg	foliation magmatic	43	34
Sm	foliation metamorphic	35	4
Ap	Axial plane	72	35
*			


File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
Table Of Contents
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amfibolit
antropogenní sediment
aplit
biotitit
břidlice
durbachit
eklogit
eluvium
erlan
fylonit
gabro
granit (žula)
granitoid
granitoid bohatý křemenem
granodiorit
granulit
hlína
jíl
karbonát
kvarcit
křemenec
leptynit
metadiorit
metagabro
metagranit
metagranitoid
metatonalit
migmatit
mikrodiorit
mikrogranit
mineta
mramor (krystalický vápenec, dolo
mylonit
ornice
ortorula
pararula
pegmatit
porfyr
porfyroid
pyroxenit
písek
půda
půda - podpovrchové horizonty (B
půda - povrch (do 3 cm)
rašelina
rula
sapropel (hnilokal)
sediment nezpevněný (neznámý)
serpentinit (hadec)
MD611
MP159
MB009
MB035
MB008
MB014
MB010
MB011
MB013
MB036
MB016
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granulit
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CMAPA 23323
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Y -708397,923
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LINIE A
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AUTOR
PORADI 2
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PRIVLASTKY
PRIVL_MIN biotitický
ALTERACE
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LITOSTRATI nerozlišeno
REGION moldanubikum Šumavy a jižních Čech
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Identified 2 features
Attributes
Georeferencing
23314_DEstna_orez.jpg
Snapping
Editor
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Questions ?