

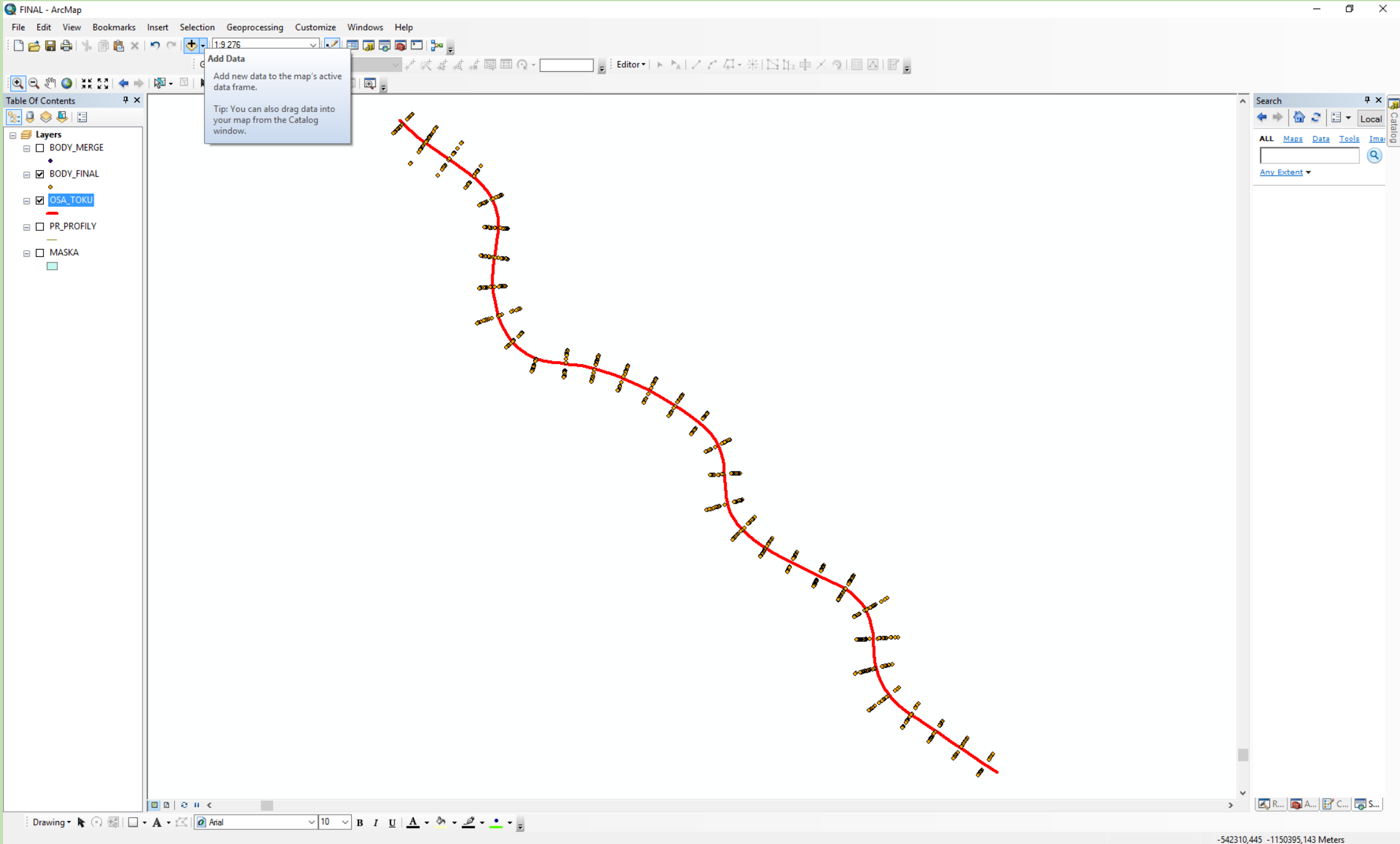
Z2011METODY GEOGRAFICKÉHO VÝZKUMU

Něco málo z GISu

Data Online

Atributová tabulka

Model Builder



Add Data

Add new data to the map's active data frame.

Tip: You can also drag data into your map from the Catalog window.

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- Layers
 - BODY_MERGE
 - BODY_FINAL
 - OSA_TOKU
 - PR_PROFILY
 - MASKA

Search

Local

ALL Maps Data Tools Images

Any Extent

Search: základní

Arranged by Relevance

25 Results

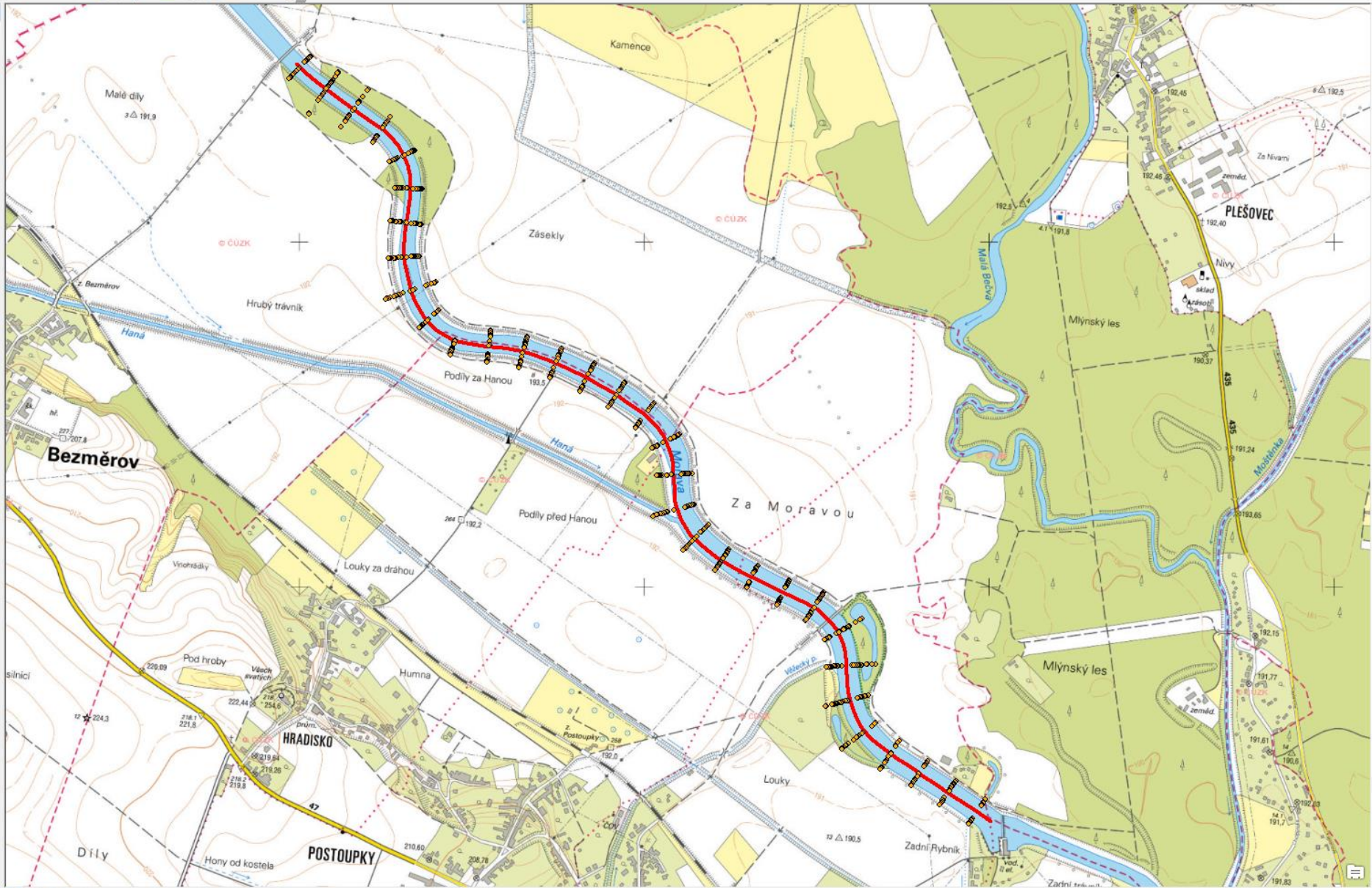
Základní mapy České republiky - službaMap Service by [Czech_user_community](#) 12.11.2014 [Details](#) [Add](#)**Základní mapy České republiky - služba**Map Service by [zem_urad](#) 11.11.2014 [Details](#) [Add](#)**Základní mapy ČR**Map Service by [bromova_JcK](#) 16.06.2015 [Details](#) [Add](#)**Základní mapy ČR - Web Mercator**Map Service by [bromova_JcK](#) 16.06.2015 [Details](#) [Add](#)**Stromy v Opavě - seskupení podle rodu**

Feature Service vygenerovaná funkcí agregace bodů

Feature Service by [mvtich@arcdata](#) 07.04.2015 [Details](#) [Add](#)**Základní mapa ČÚZK**Map Service by [marcelsip](#) 11.02.2015 [Details](#) [Add](#)

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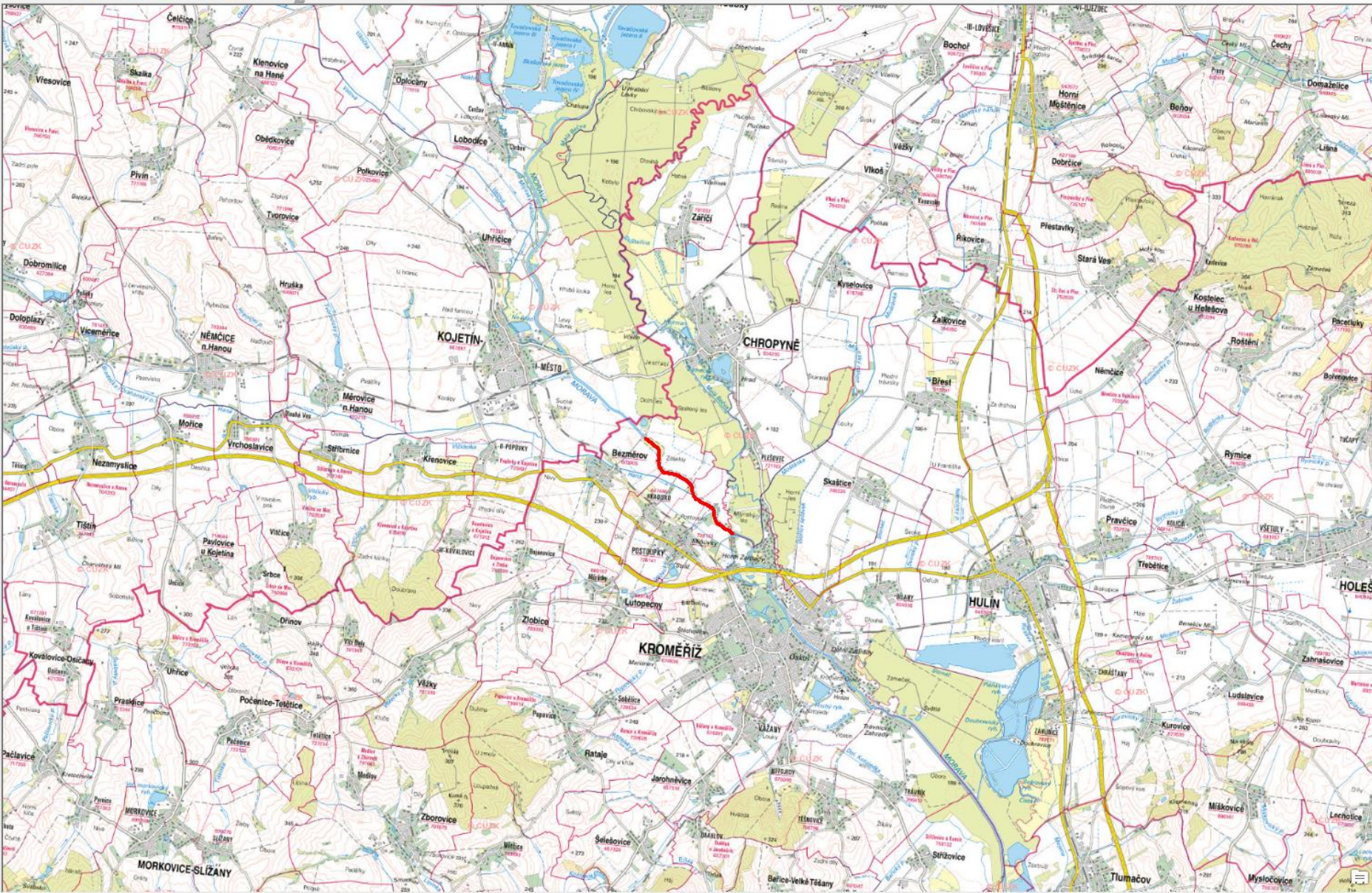
Local

ALL Maps Data Tools Imagery

Any Extent

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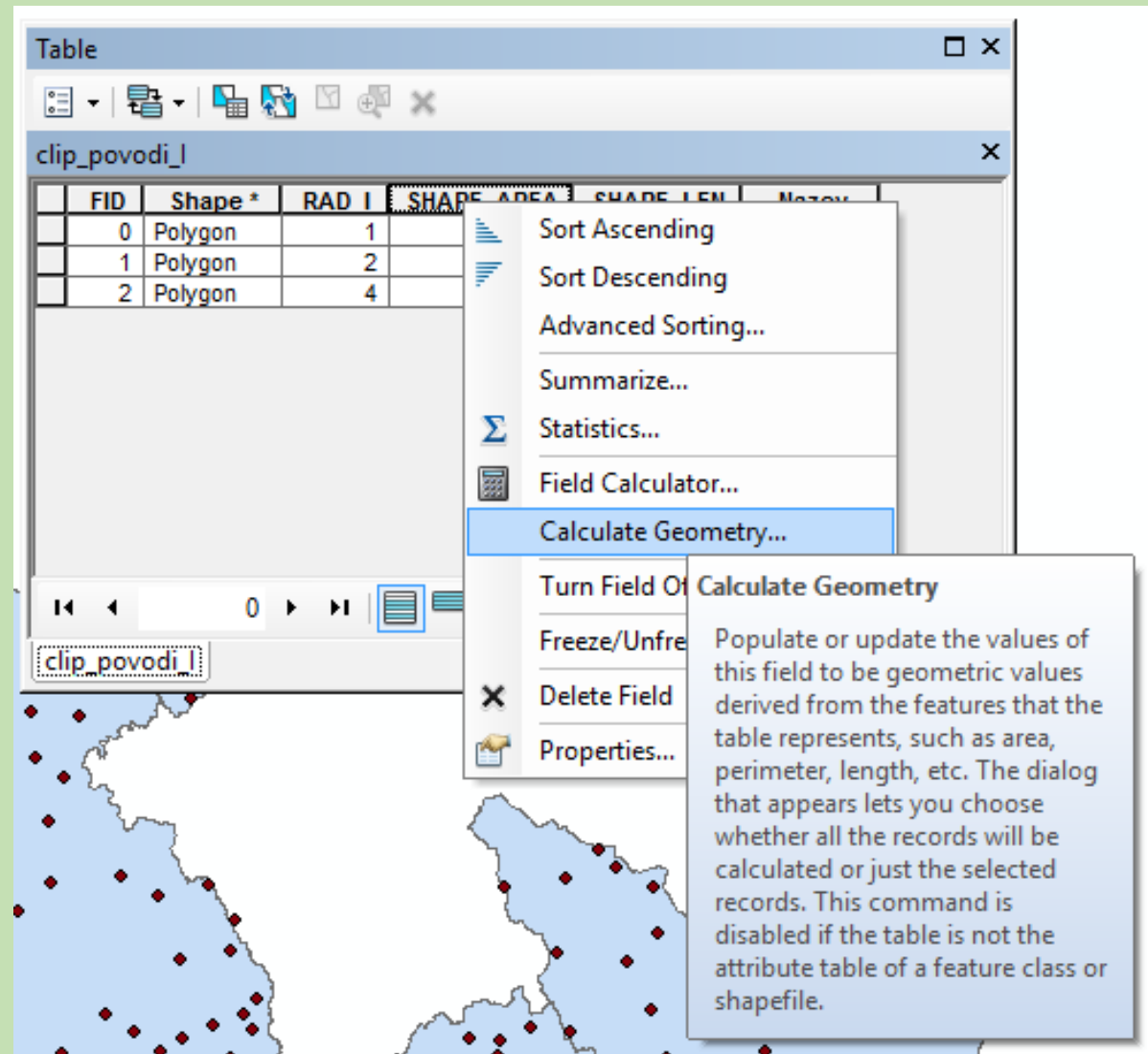
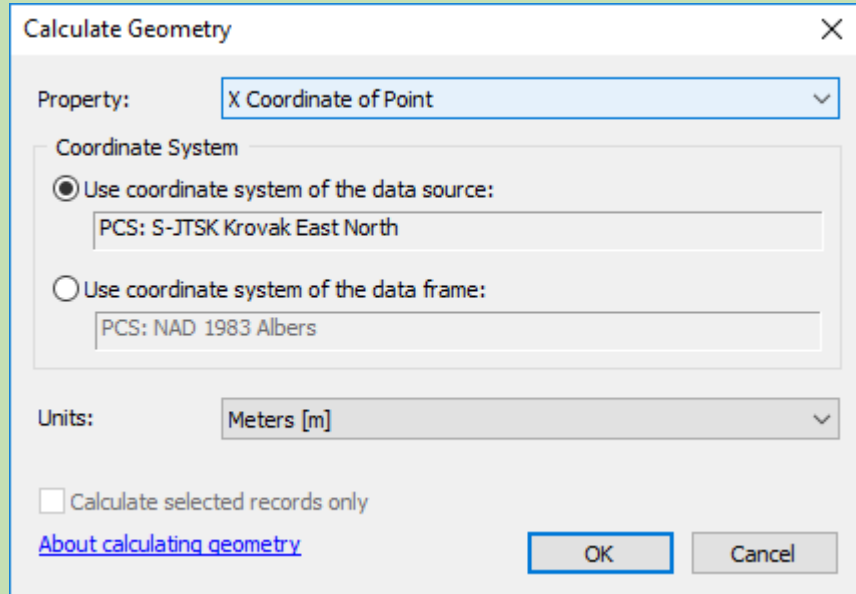
Local

ALL Maps Data Tools Imagery

Any Extent

VÝPOČET PLOCHY

- „Calculate geometry“
 - Výpočet délky
 - Výpočet plochy
(ve zvol. jednotkách)



Calculate Geometry

Property: Area

Coordinate System

Use coordinate system of the data source:
PCS: USA Contiguous Albers Equal Area Conic

Use coordinate system of the data frame:
PCS: NAD 1983 Albers

Units: Square Meters [sq m]

Calculate selected records only

[About calculating geometry](#)

OK Cancel

Calculate Geometry

Property: Area

Coordinate System

Use coordinate system of the data source:
PCS: USA Contiguous Albers Equal Area Conic

Use coordinate system of the data frame:
PCS: NAD 1983 Albers

Units: Square Meters [sq m]

Calculate selected records only

[About calculating geometry](#)

OK Cancel

Calculate Geometry

Property: Length

Coordinate System

Use coordinate system of the data source:
Unknown

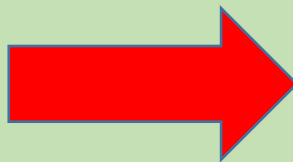
Use coordinate system of the data frame:
PCS: NAD 1983 Albers

Units: Unknown Units

Calculate selected records only

[About calculating geometry](#)

OK Cancel



POUŽITÍ FIELD CALCULATORU

- Obdobně jako v Excelu je možné provádět některé početní i logické operace...

The screenshot shows a GIS application window with a table named 'clip_povodi_1'. The table has columns: RAD I, SHAPE AREA, Nazev, UHRN, and SOUCIN. The data rows are:

RAD I	SHAPE AREA	Nazev	UHRN	SOUCIN
1	49891,754779	Elbe r.	553	
2	7248,77795	Odra r.	675	
4	21725,933901	Danube r.	512	

A context menu is open over the 'SOUCIN' column, with 'Field Calculator...' selected. A tooltip for 'Field Calculator' is displayed, stating: 'Populate or update the values of this field by specifying a calculation expression. If any of the records in the table are currently selected, only the values of the selected records will be calculated.'

Editor

Georeferencing

Table

clip_povodi_l

	RAD_I	SHAPE AREA	Nazev	UHRN	SOUCIN
	1	49891,754779	Elbe r.	553	0
	2	7248,77795	Odra r.	675	0
	4	21725,933901	Danube r.	512	0

Field Calculator

Parser
 VB Script Python

Fields:
FID
Shape
RAD_I
SHAPE_AREA
Nazev
UHRN
SOUCIN

Type:
 Number
 String
 Date

Functions:
Abs ()
Atn ()
Cos ()
Exp ()
Fix ()
Int ()
Log ()
Sin ()
Sqr ()
Tan ()

Show Codeblock

SOUICIN =

```
[SHAPE_AREA] * [UHRN]
```

[About calculating fields](#) Clear Load... Save... OK Cancel

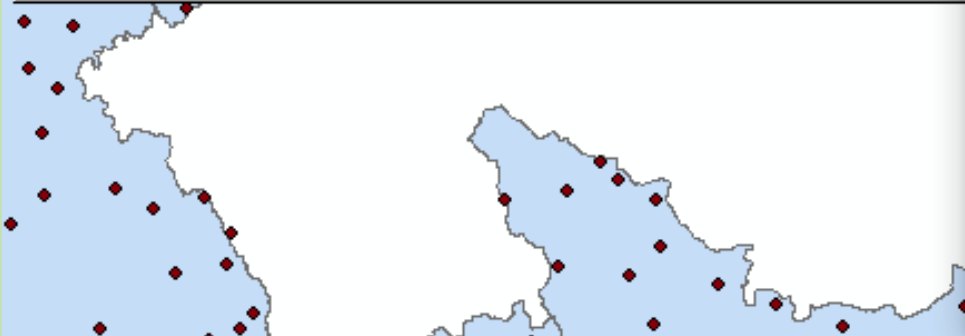


Table □ ×



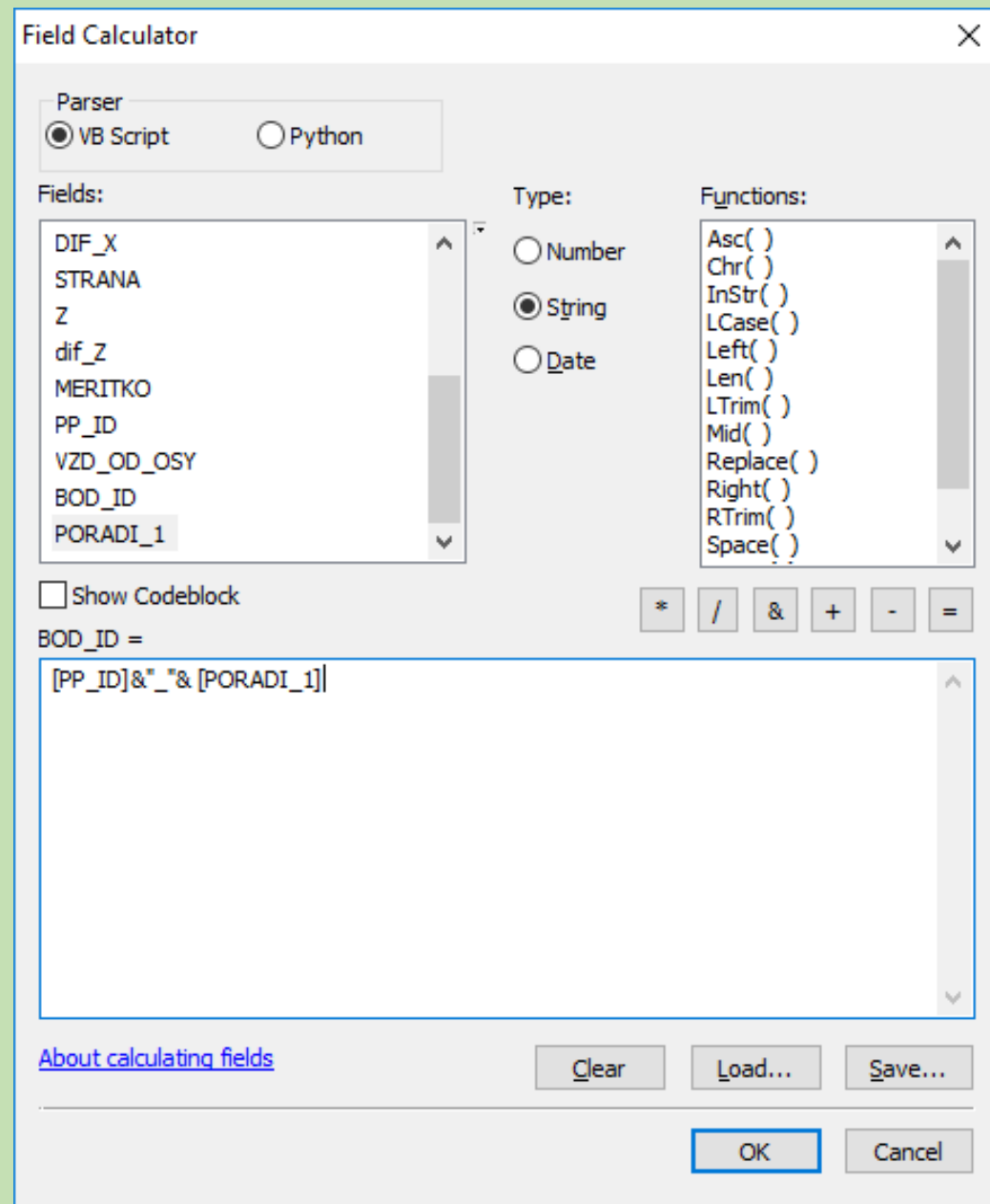
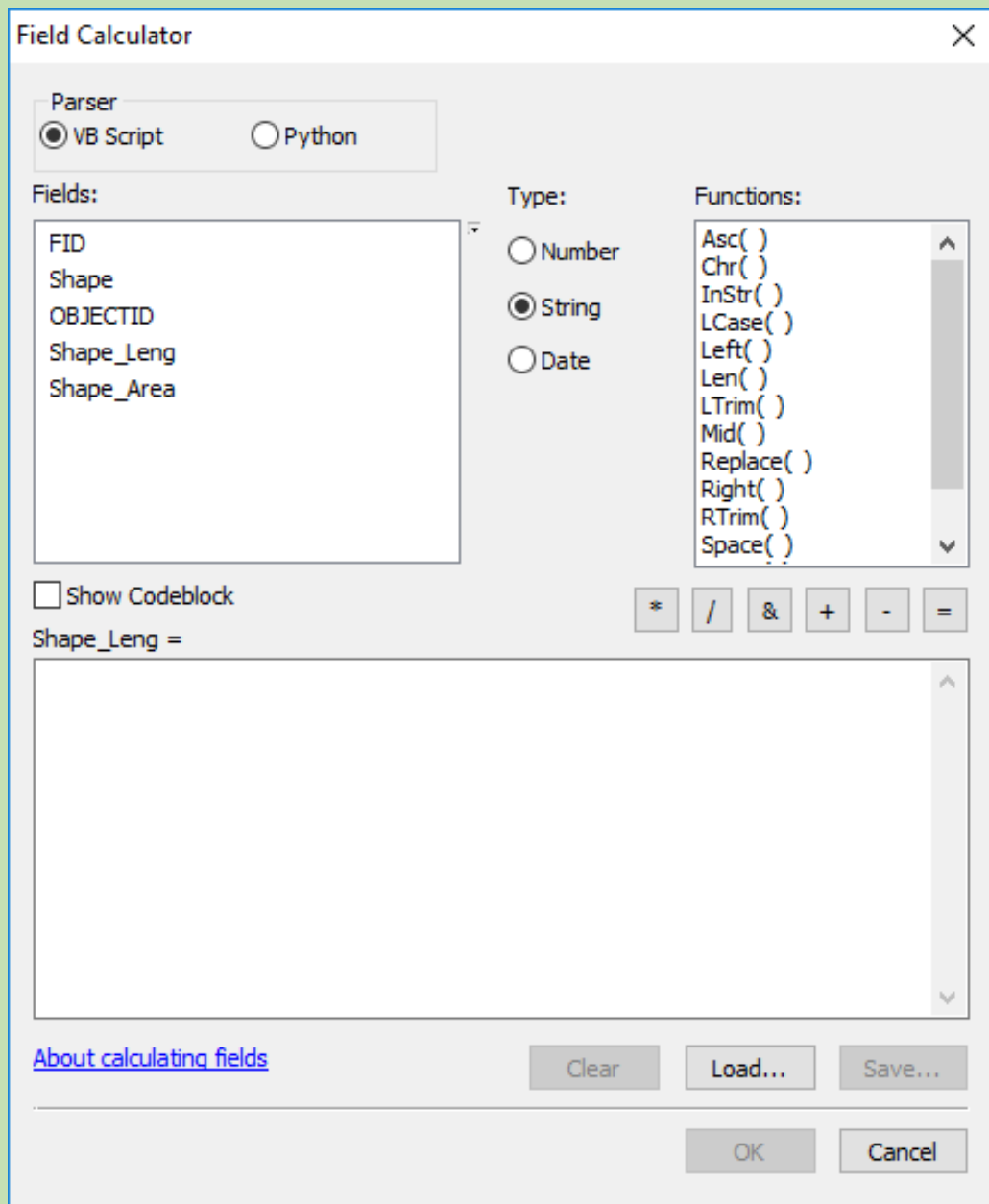
clip_povodi_l ×

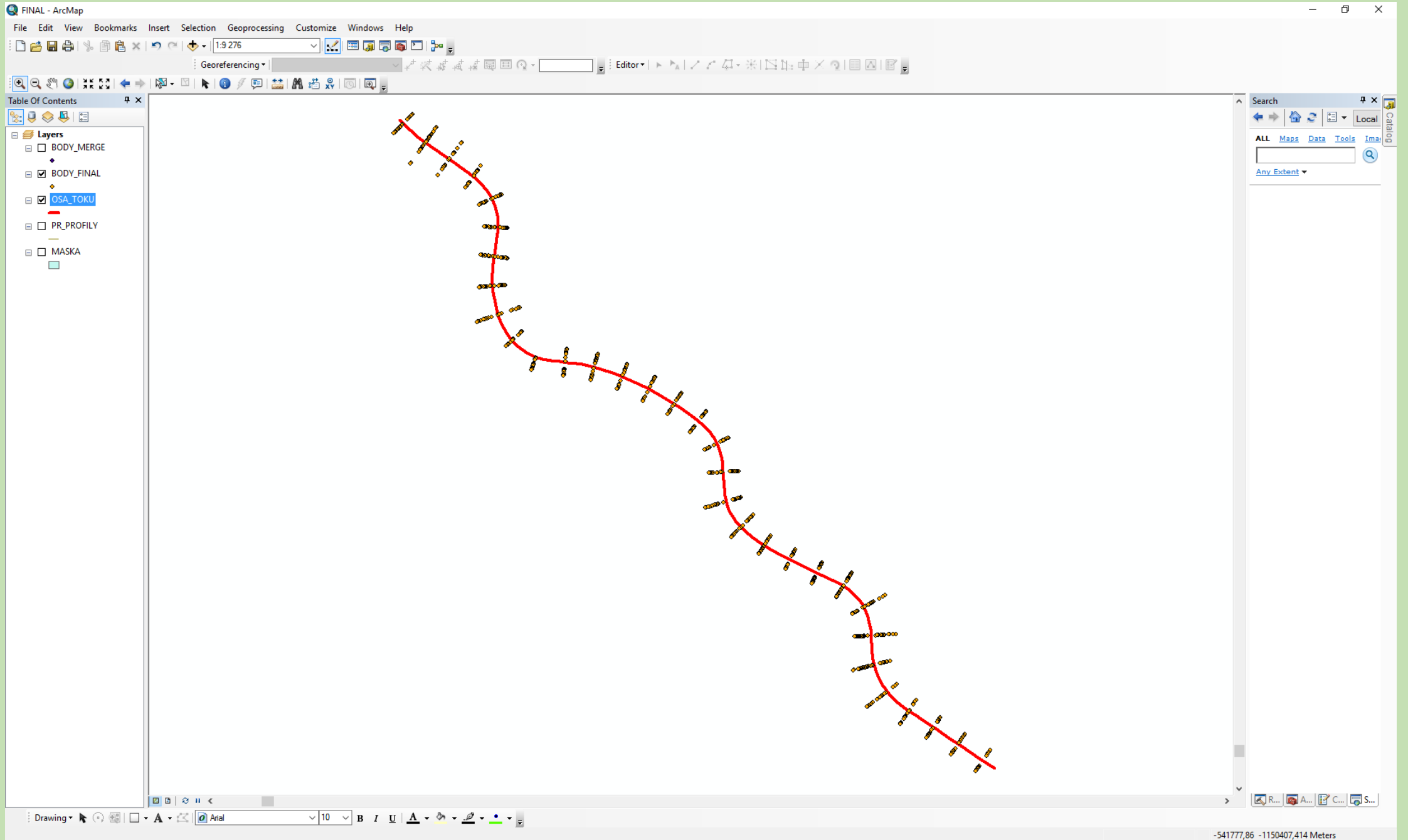
	RAD I	SHAPE AREA	Nazev	UHRM	SOUCIN
	1	49891,754779	Elbe r.	553	27590140,3931
	2	7248,77795	Odra r.	675	4892925,11614
	4	21725,933901	Danube r.	512	11123678,1575



◀ ◁ 0 ▶ ▷ | (0 out of 3 Selected)

clip_povodi_l





Table



BODY_MERGE

FID	Shape *	OBJECTID	POINT X	POINT Y	poznamka	DIF Y	DIF X	STRANA	Z	dif Z	MERITKO	PP ID	VZD OD OSY	BOD_ID	PORADI 1
0	Point	0	15,083775	28,853695		0	17,335204	L	0	0	0	PP_01	0	PP_01_02	02
1	Point	0	12,763785	28,87361		0	19,655194	L	0	0	0	PP_01	0	PP_01_01	01
2	Point	0	16,796386	28,26623	DLAZBA	0	15,622593	L	0	0	0	PP_01	0	PP_01_03	03
3	Point	0	18,837579	28,096961	DLAZBA	0	13,5814	L	0	0	0	PP_01	0	PP_01_04	04
4	Point	0	20,888729	27,439796	DLAZBA-ZAHO	0	11,53025	L	0	0	0	PP_01	0	PP_01_05	05
5	Point	0	21,366667	27,280483	DLAZBA	0	11,052312	L	0	0	0	PP_01	0	PP_01_06	06
6	Point	0	23,029492	26,852331		0	9,389487	L	0	0	0	PP_01	0	PP_01_07	07
7	Point	0	32,418979	26,961858		0	0	O	0	0	0	PP_01	0	PP_01_08	08
8	Point	0	42,137049	26,872245		0	9,71807	P	0	0	0	PP_01	0	PP_01_09	09
9	Point	0	43,262194	27,29044		0	10,843215	P	0	0	0	PP_01	0	PP_01_10	10
10	Point	0	44,327597	27,29044	ZAHOZ	0	11,908618	P	0	0	0	PP_01	0	PP_01_11	11
11	Point	0	45,393	27,748464	ZAHOZ	0	12,974021	P	0	0	0	PP_01	0	PP_01_12	12
12	Point	0	46,09995	27,838078	ZAHOZ-DLAZB	0	13,680971	P	0	0	0	PP_01	0	PP_01_13	13
13	Point	0	47,832475	28,415586	DLAZBA	0	15,413496	P	0	0	0	PP_01	0	PP_01_14	14
14	Point	0	48,947663	28,793953		0	16,528684	P	0	0	0	PP_01	0	PP_01_15	15
15	Point	0	50,411347	28,793953		0	17,992368	P	0	0	0	PP_01	0	PP_01_16	16
16	Point	0	51,347309	29,182278		0	18,92833	P	0	0	0	PP_01	0	PP_01_17	17
17	Point	0	13,211852	24,114145		0	18,868588	L	0	0	0	PP_02	0	PP_02_01	01
18	Point	0	15,452186	24,094231		0	16,628254	L	0	0	0	PP_02	0	PP_02_02	02
19	Point	0	17,204624	23,476895	DLAZBA	0	14,875816	L	0	0	0	PP_02	0	PP_02_03	03
20	Point	0	18,230199	23,108484	DLAZBA	0	13,850241	L	0	0	0	PP_02	0	PP_02_04	04
21	Point	0	19,444958	23,048742	DLAZBA	0	12,635482	L	0	0	0	PP_02	0	PP_02_05	05
22	Point	0	20,858858	22,45132	DLAZBA-ZAHO	0	11,221582	L	0	0	0	PP_02	0	PP_02_06	06
23	Point	0	21,516022	22,530976	ZAHOZ	0	10,564418	L	0	0	0	PP_02	0	PP_02_07	07
24	Point	0	22,053702	22,331835	ZAHOZ	0	10,026738	L	0	0	0	PP_02	0	PP_02_08	08
25	Point	0	22,720824	22,212351	ZAHOZ	0	9,359616	L	0	0	0	PP_02	0	PP_02_09	09
26	Point	0	25,359439	22,122738		0	6,721001	L	0	0	0	PP_02	0	PP_02_10	10
27	Point	0	26,175916	21,983339		0	5,904524	L	0	0	0	PP_02	0	PP_02_11	11
28	Point	0	28,316679	22,01321		0	3,763761	L	0	0	0	PP_02	0	PP_02_12	12
29	Point	0	29,272555	21,91364		0	2,807885	L	0	0	0	PP_02	0	PP_02_13	13
30	Point	0	32,08044	22,132695		0	0	O	0	0	0	PP_02	0	PP_02_14	14

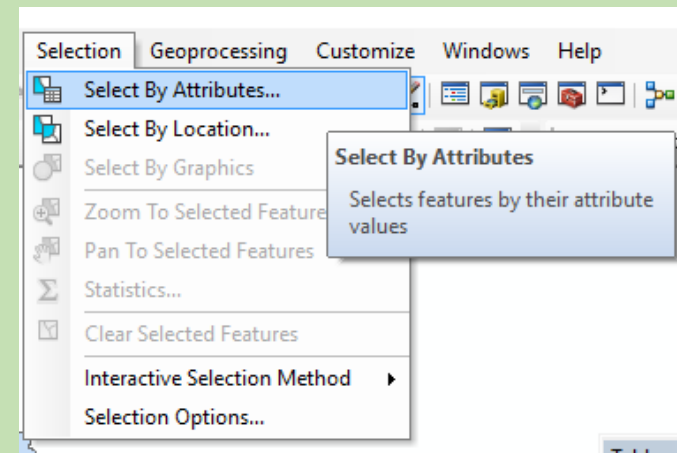
(0 out of 758 Selected)

BODY_MERGE

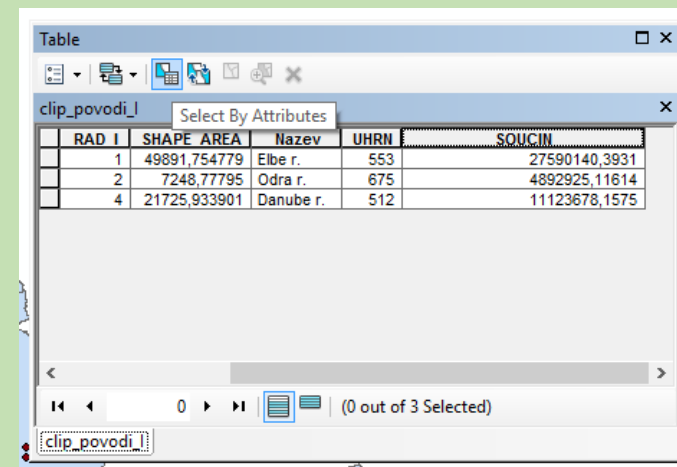
SELECT BY ATTRIBUTES

- Umožňuje vybrat jen ty objekty, které potřebujeme – například chceme vybrat jen plochy s průměrných ročním úhrnem > 600 mm:

- Buď možno pomocí lišty - *Selection*,



- nebo přímo v atributové tabulce.



RAD I	SHAPE AREA	Nazev	UHRN	SOUČIN
1	49891,754779	Elbe r.	553	27590140,3931
2	7248,77795	Odra r.	675	4892925,11614
4	21725,933901	Danube r.	512	11123678,1575

- Další postup už je jednoduchý – zvolíme si vrstvu, s níž chceme pracovat a pak si navolíme své libovolné podmínky jako $>$, $<$, $=$, IS ...

Select By Attributes

Layer: Only show selectable layers in this list

Method:

"FID"
"ID"
"SIRKA"
"DELKA"
"GAUSS1"

= <> Like
> >= And
< <= Or
_ % () Not
Is In Null

Get Unique Values Go To:

SELECT * FROM srazkomerky_final WHERE:

Clear Verify Help Load... Save...
OK Apply Close

- Tady si chci např. vybrat povodí Labe a zároveň chci, aby velikost úhrnu byla > 600 mm.

Select by Attributes

Enter a WHERE clause to select records in the table window.

Method : Create a new selection

"FID"
"RAD_I"
"SHAPE_AREA"
"Nazev"
"UHRN"

= <> Like 512
> >= And 553
< <= Or 675
_ % () Not
Is In Null Get Unique Values Go To:

SELECT * FROM clip_povodi_I WHERE:
"Nazev" = 'Elbe r.' AND "UHRN" > 600

Clear Verify Help Load... Save...
Apply Close

Open the ModelBuilder window so you can make a geoprocessing model.

Press F1 for more help.

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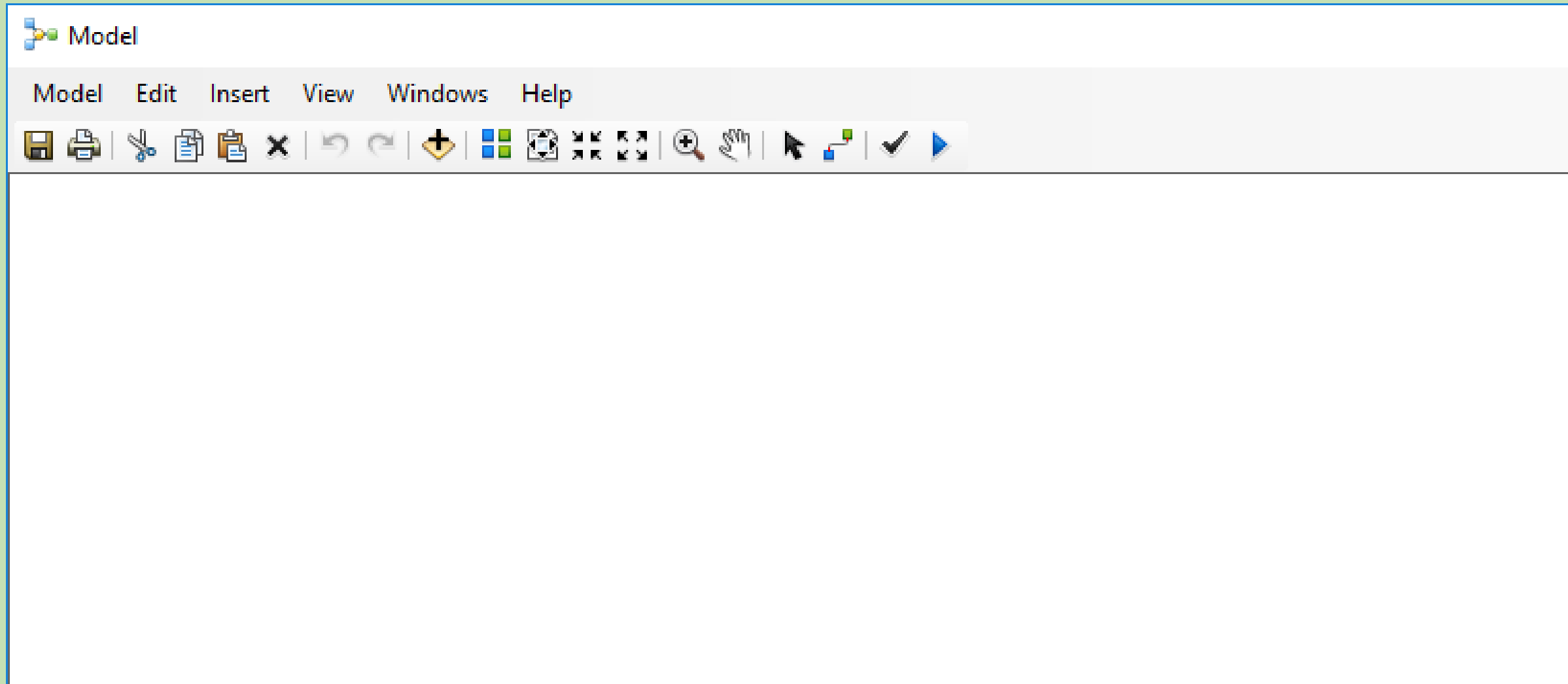


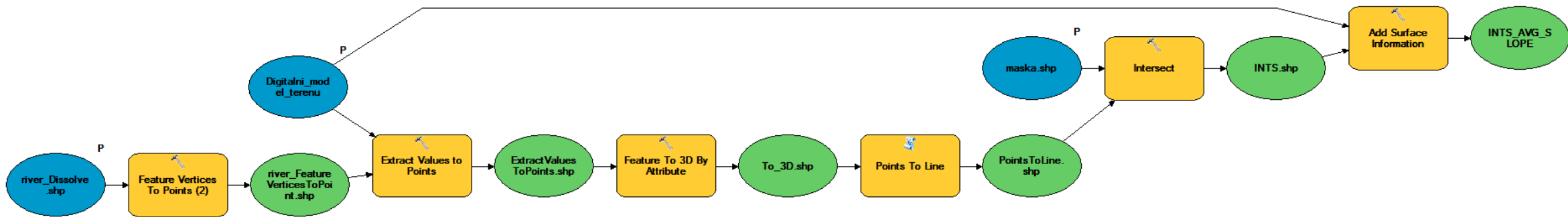
Search

Local

Any Extent

MODEL BUILDER





 PODELNE_PROFILY

Model Edit Insert View Windows Help





Model Edit **Insert** View Windows Help



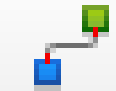
Add Data or Tool...

Create Variable...

Create Label

Model Only Tools ▶

Iterators ▶





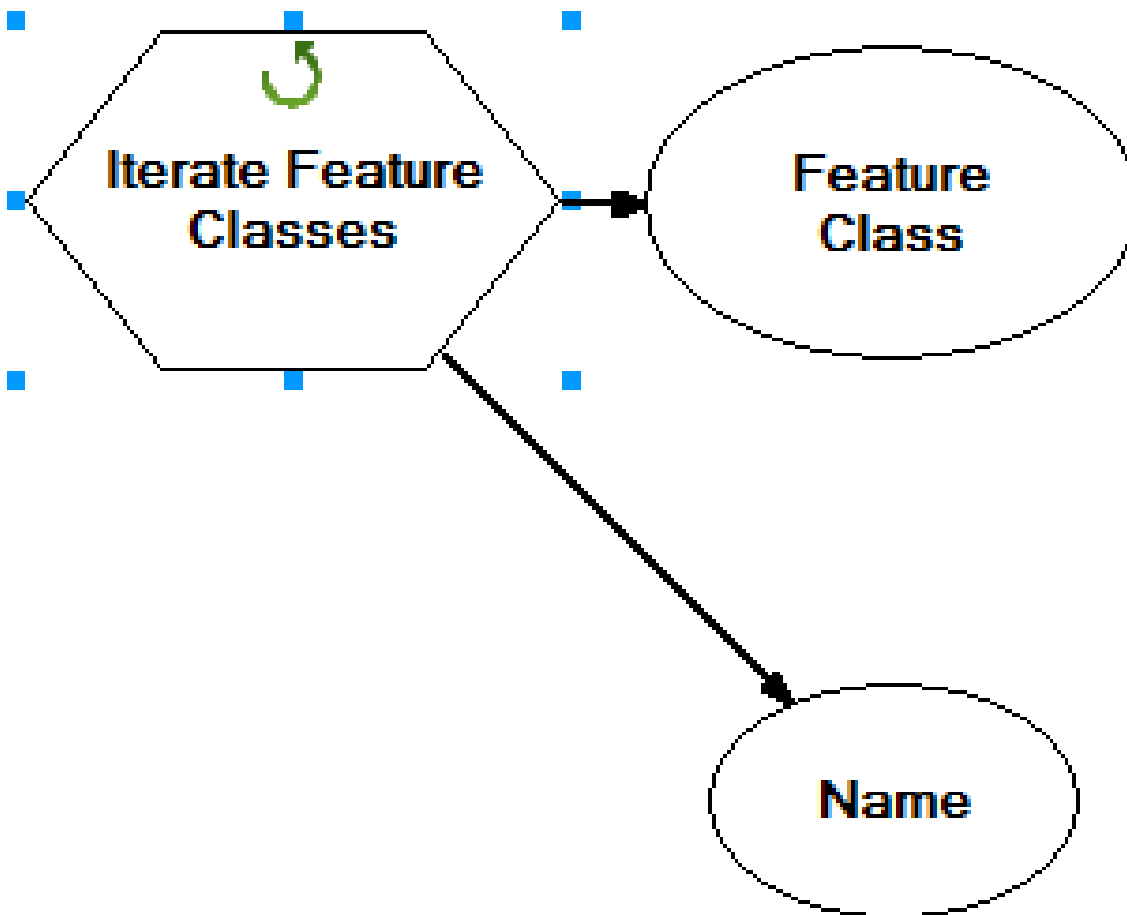
- +
- Add Data or Tool...
- Create Variable...
- Create Label
- Model Only Tools ▶
- Iterators ▶

- ↻ For
- ↻ While

- ↻ Feature Selection
- ↻ Row Selection

- ↻ Field Value
- ↻ Multivalued

- ↻ Datasets
- ↻ Feature Classes
- ↻ Files
- ↻ Rasters
- ↻ Tables
- ↻ Workspaces





Iterate Feature Classes



Workspace or Feature Dataset



Wildcard (optional)

Feature Type (optional)

Recursive (optional)

Iterate Feature Classes

Iterates over feature classes in a Workspace or Feature Dataset.

OK

Cancel

Apply

<< Hide Help

Tool Help



Iterate Feature Classes



Workspace or Feature Dataset

BODY_PP_V_ROVINE



Wildcard (optional)

BODY*

Feature Type (optional)

POINT

Recursive (optional)

Iterate Feature Classes

Iterates over feature classes in a Workspace or Feature Dataset.

OK

Cancel

Apply

<< Hide Help

Tool Help

