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## **Algorithms of using GIS means in the specialized tasks of managing graphical objects of forestry** <sup>[1]</sup>

**Supported platforms:**

- Windows

**UI Languages:**

- Українська

**Technologies:**

- VBA
- MS SQL

### **Description:**

The Degree project “**Algorithms of using GIS means in the specialized tasks of managing graphical objects of forestry**”. A part of the software complex developed in the *Institute of Problems of Mathematical Machines and Systems of the National Academy of Sciences of Ukraine* for a government production association “Укрдержліспроєкт” (*Ukrainian state forest management production association*).

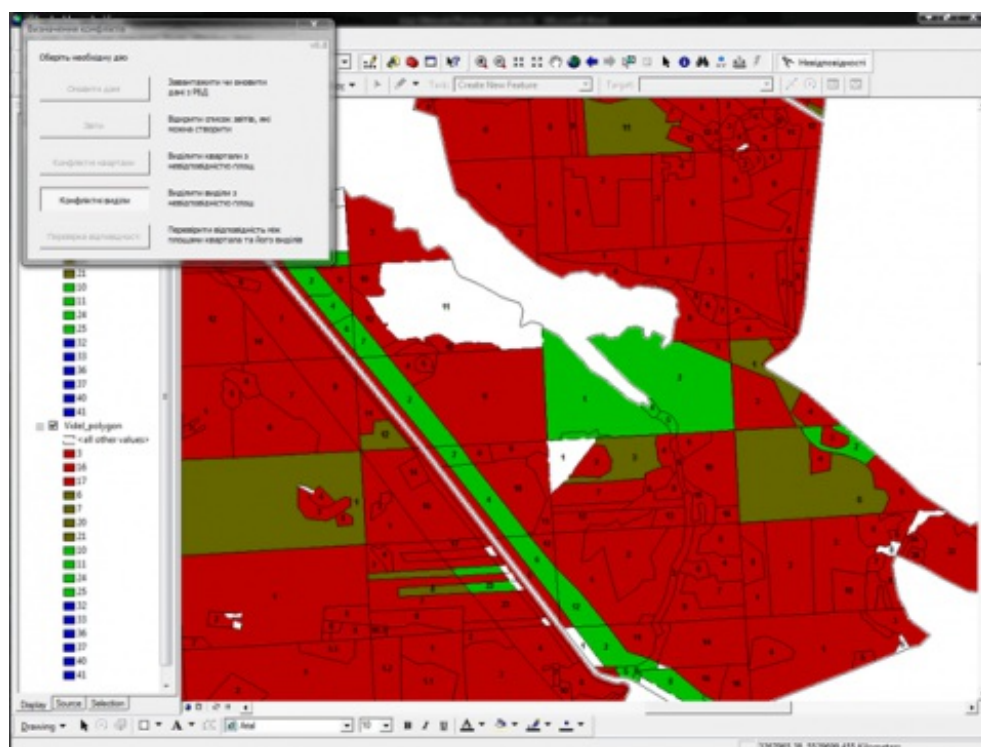
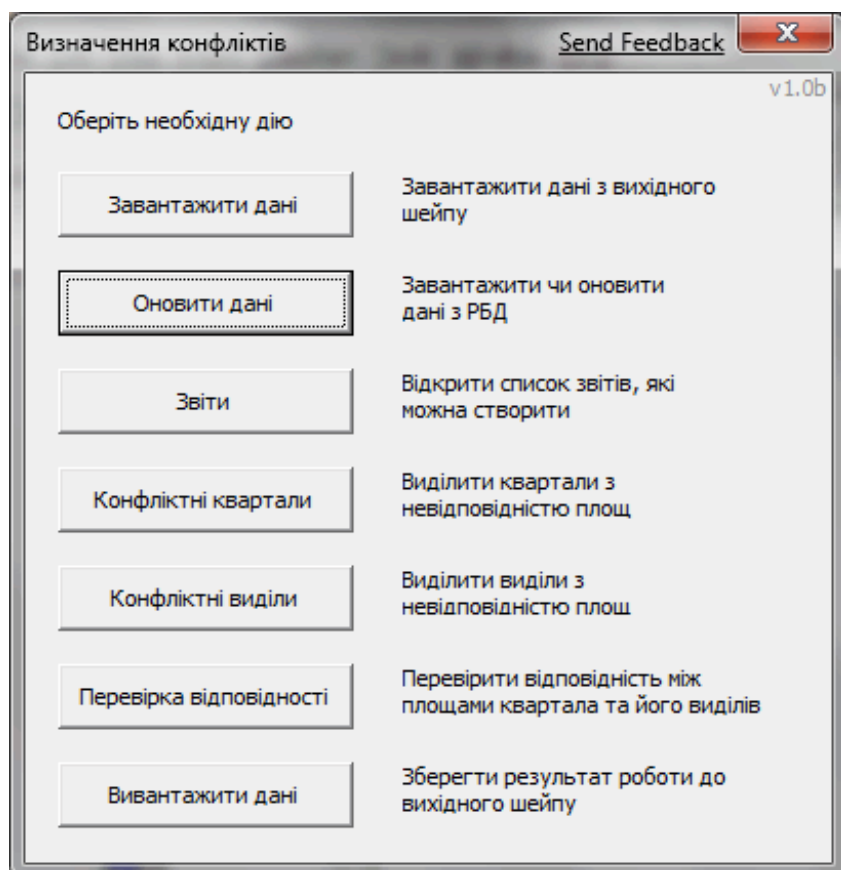
This project was used to detect conflicts in the forestry database:

- finding sections and quarters of the forestry map that overlapped;
- finding sections and quarters that had different sizes recorded in the forestry database (MS SQL Server) and in the forestry map (ArcMap);
- finding sections that contained quarters, where total size of quarters wasn't equal to the section size;
- generating HTML reports based on the detected conflicts.

### **My contribution:**

The Degree project was developed together with my classmate: my focus was on the code and his — on the documentation. Implemented as VBA add-in for ArcMap component of ESRI ArcGIS Desktop.

### **Screenshots:**



Редагування

Квартал № 76

Список виділів квартала

Виділ	Площа КБД	Площа РБД	Пл. корист.
3	0,4	0,3	0,3
8	0,6	0,6	0,6
10	3,3	3	3
9	0,8	0,8	0,8
15	4,3	4,2	4,2
14	2,4	2,2	2,2
17	0,7	0,8	0,8
16	3,1	2,5	2,5
13	3,3	3,2	3,2
7	4,4	3,6	3,6
5	3,3	3,2	3,2
12	5	4,1	4,1
11.1	0,6	0,5	0,5
11	1,3	1,3	1,3
1	20,4	18	18

Редагування квартала:

Площа КБД: 55.6 >

Площа РБД: 51 >

Площа, визначена користувачем: 51 ~

Редагування виділу:

Площа КБД: 2.4 >

Площа РБД: 2.2 >

Площа, визначена користувачем: 2.2 ~

☐ Остаточний результат

Сумарна площа виділів: 50.5

Зберегти Скасувати ☐ Остаточний результат

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#### Links

[1] <https://oleksii.name/en/projects/archived/degree>