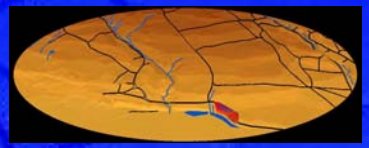

DATA ACQUISITION AND GIS SUPPORT IN SYSTEMATIC ARCHAEOLOGICAL RESEARCH

Assistant Lecturer PhD. student eng. TUDOR BORSAN
Assoc. Prof. PhD. LEVENTE DIMEN
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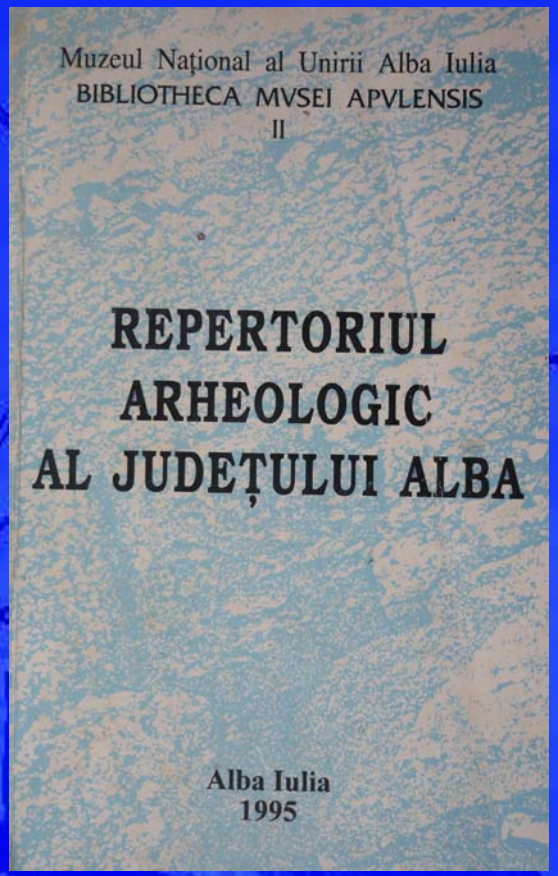
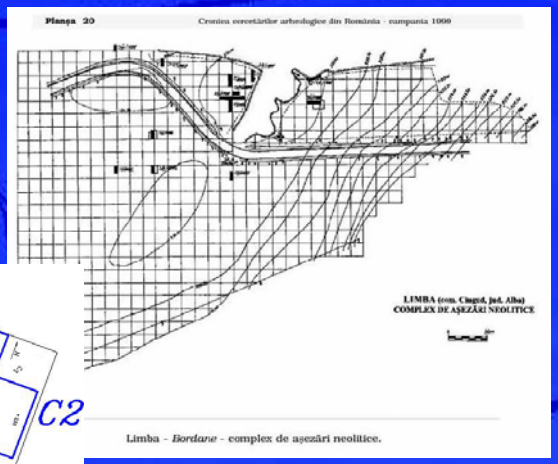
Assistant Lecturer PhD. student eng. GEORGE EMANUEL VOICU

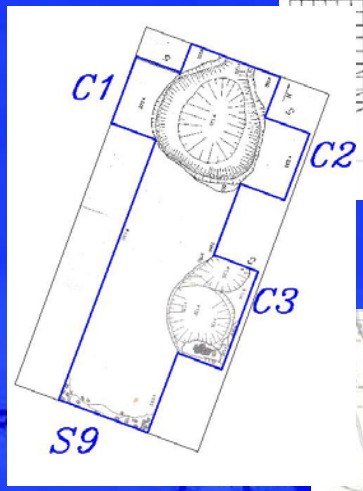
ARCHAEOLOGICAL SITE "LIMBA"

BIBLIOGRAPHICAL REFERENCES



CARTOGRAPHICAL REFERENCES





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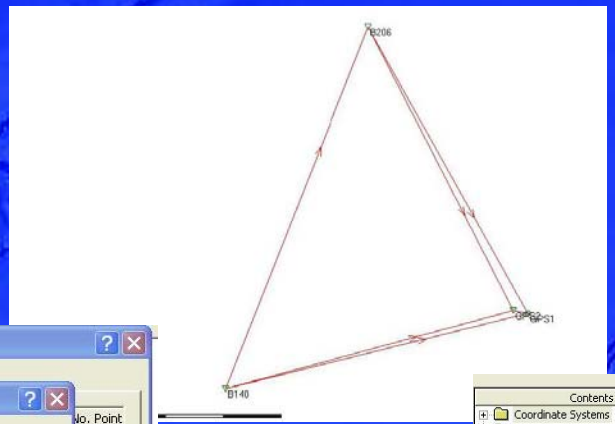

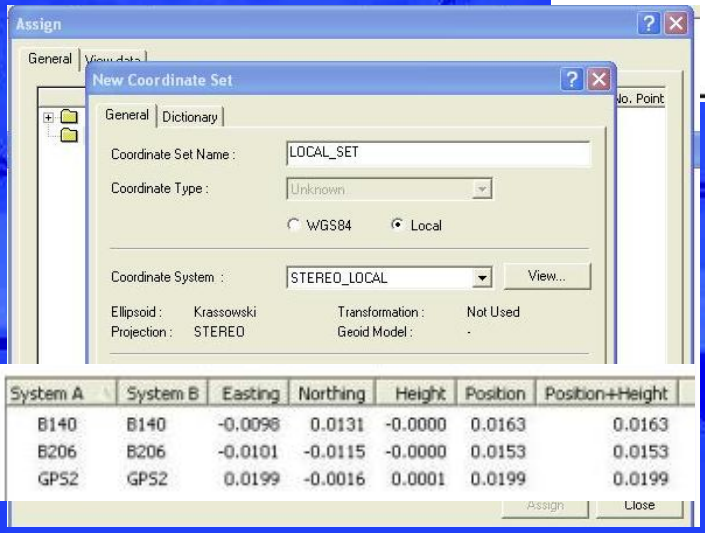

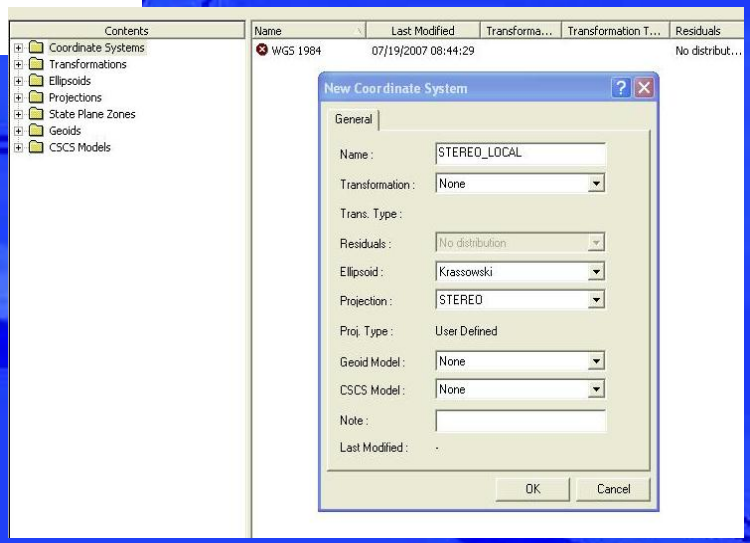

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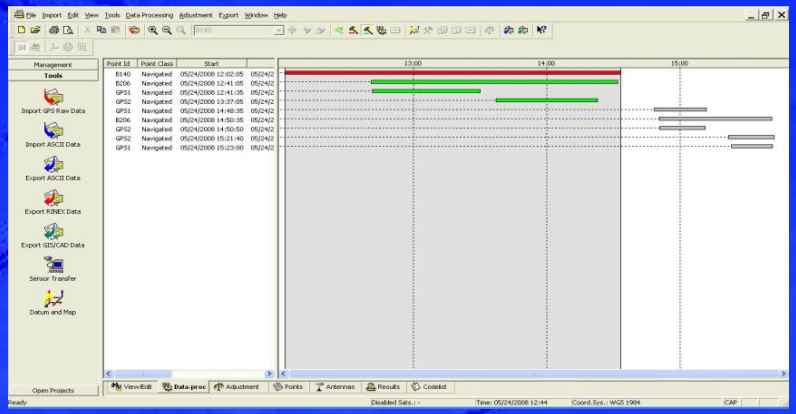

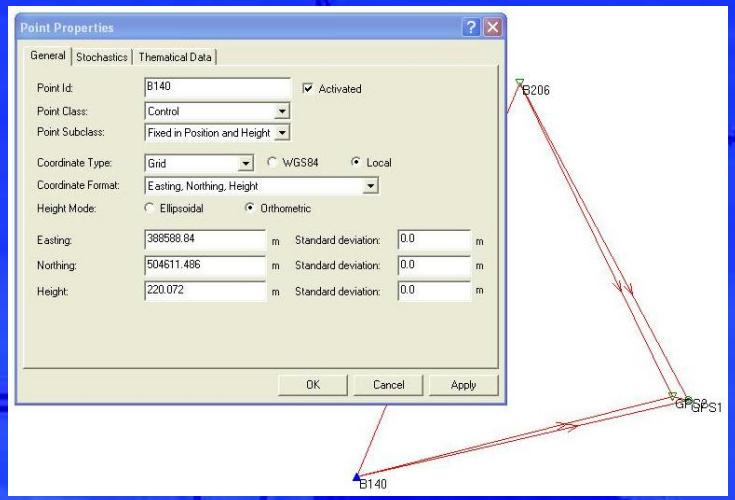

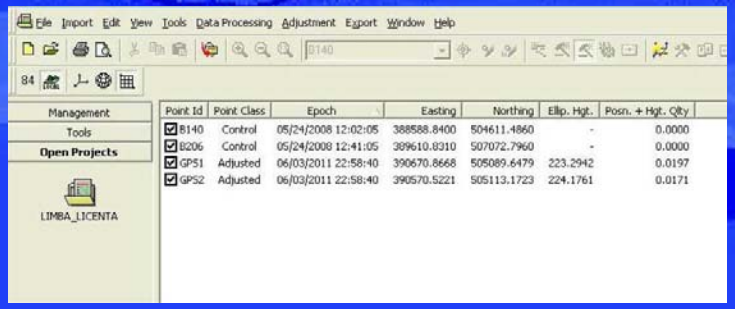

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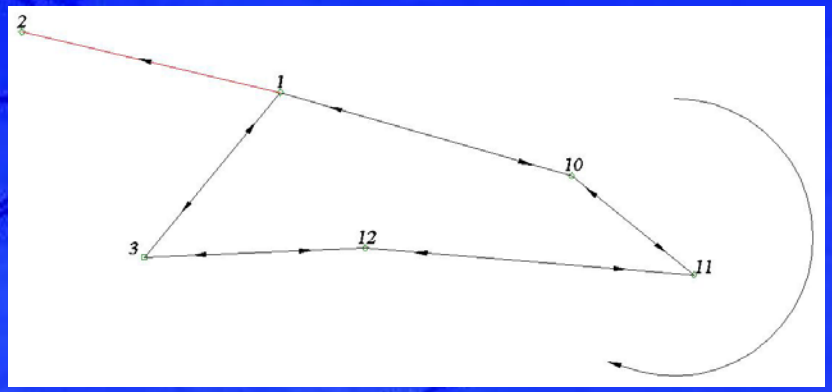
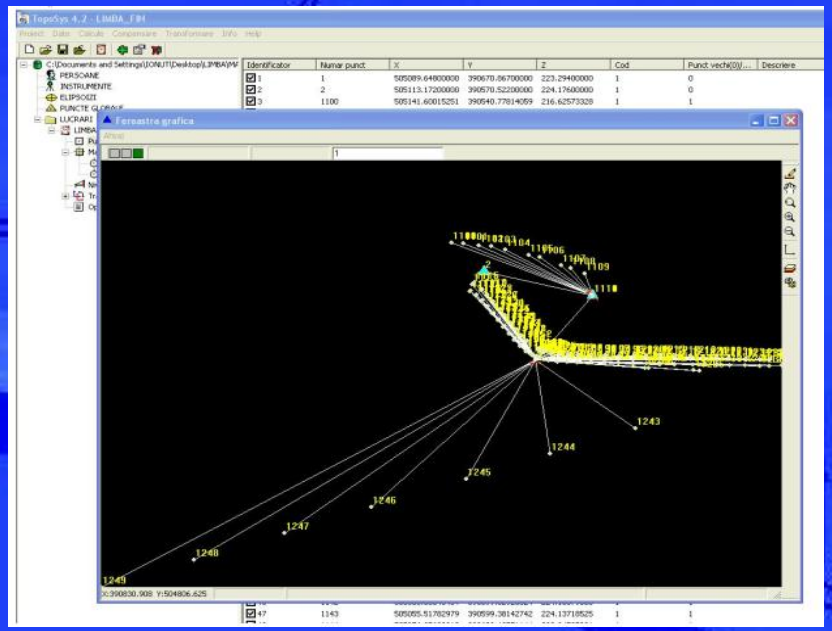
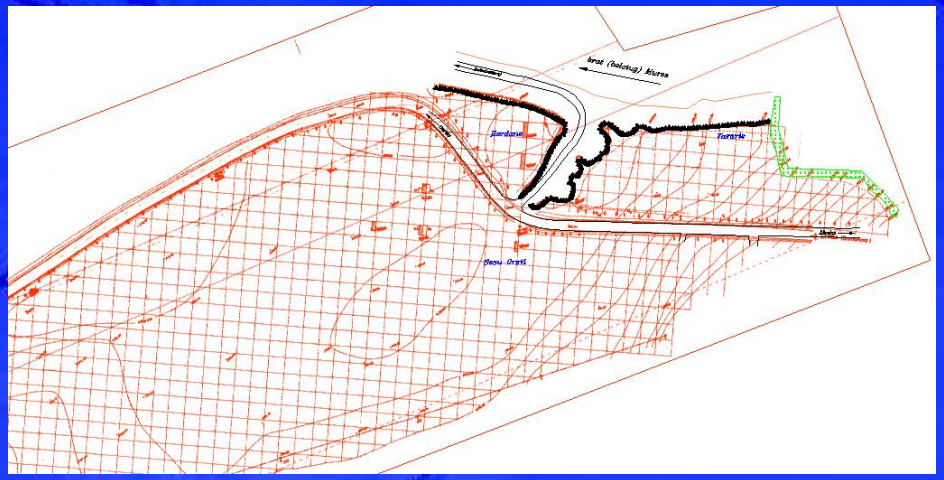
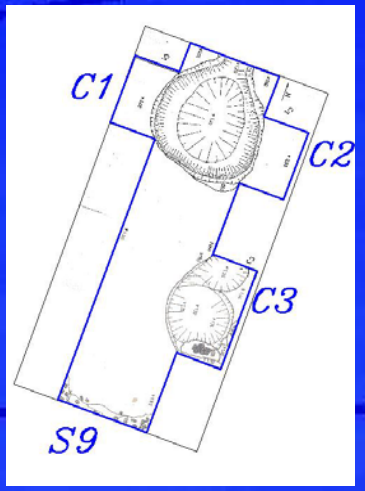
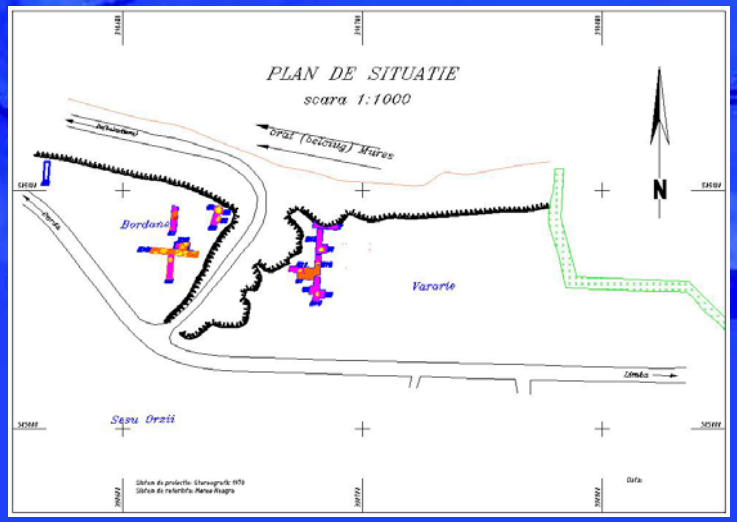


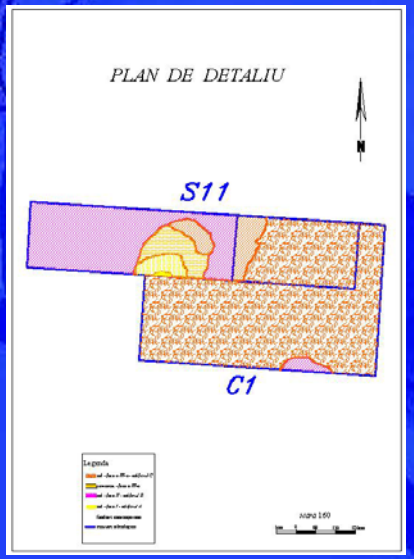


CREATING TOPOGRAPHICAL MAPS

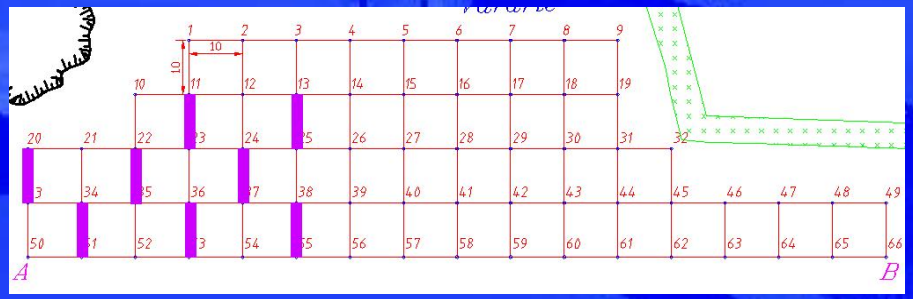




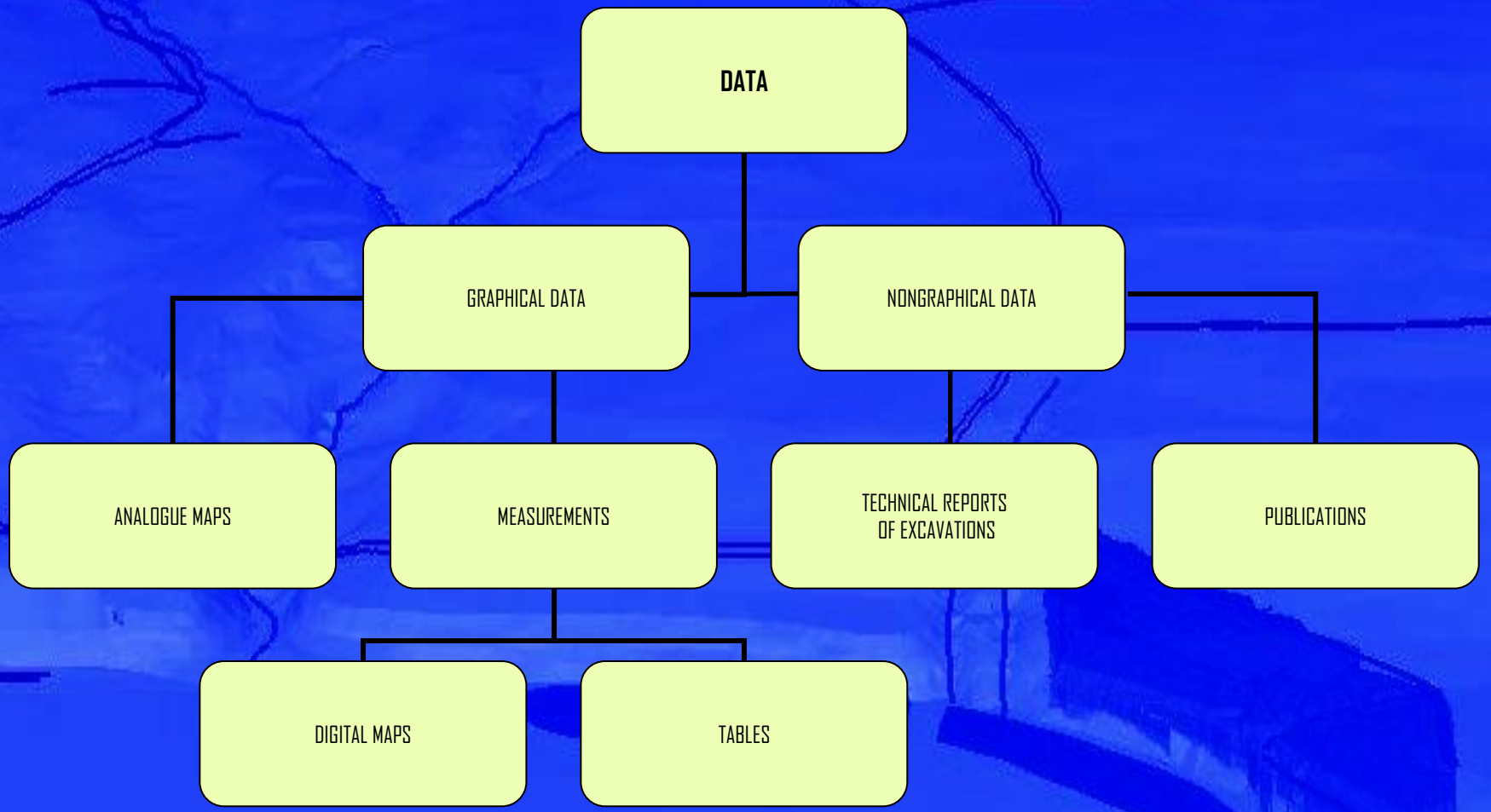




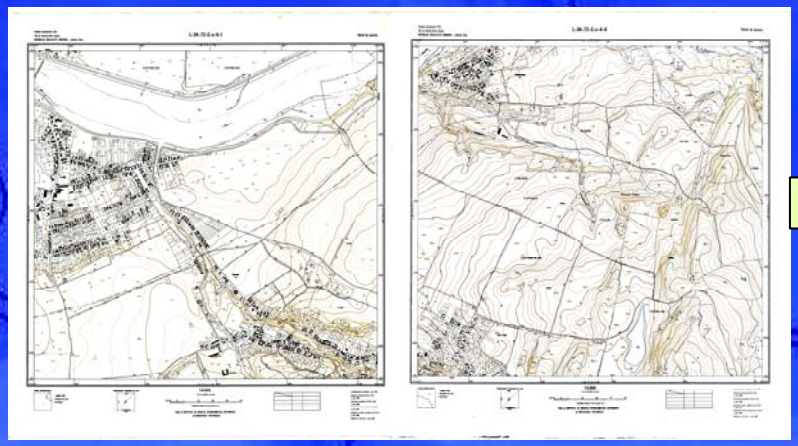
TOPOGRAPHICAL SUPPORT

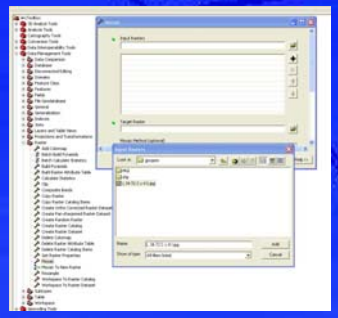


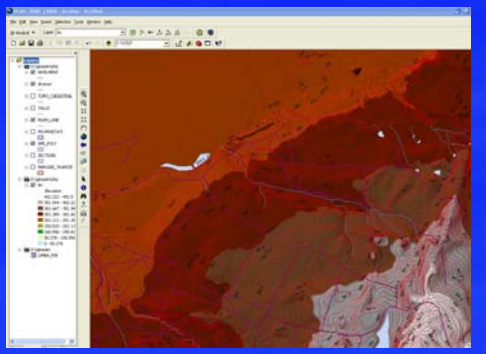
INTEGRATED DATA IN GIS ENVIRONMENT

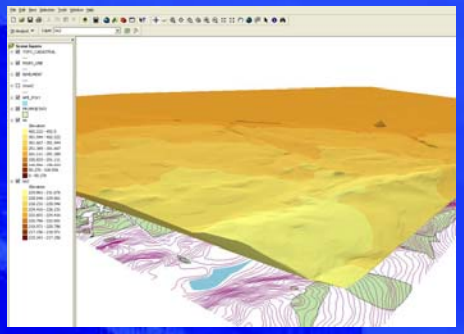


GIS SUPPORT - USING ANALOGUE MAPS FOR EXTRASITE ZONE

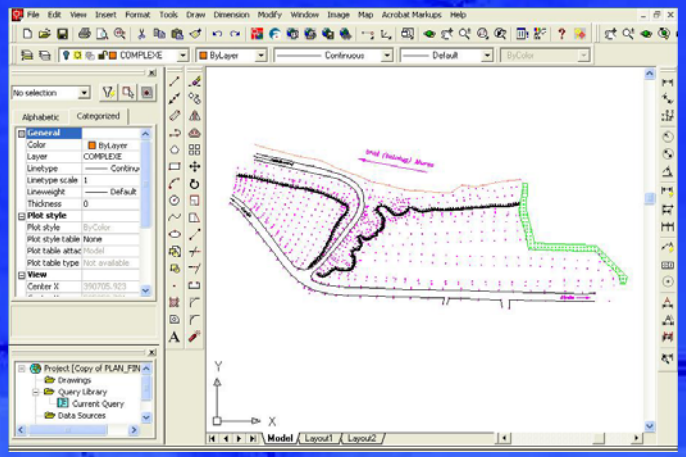


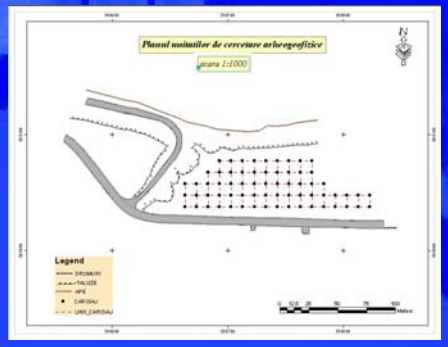






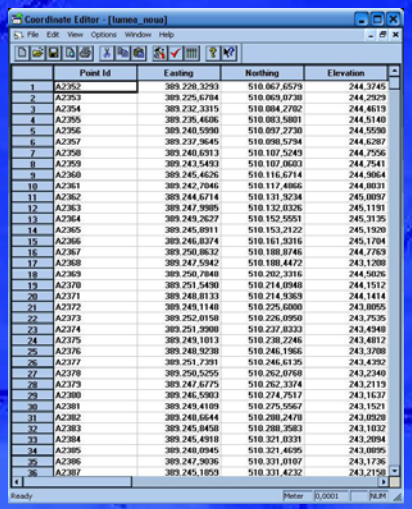
GIS SUPPORT - VECTOR FORMAT USE TO ACHIEVE THEMATIC MAPS

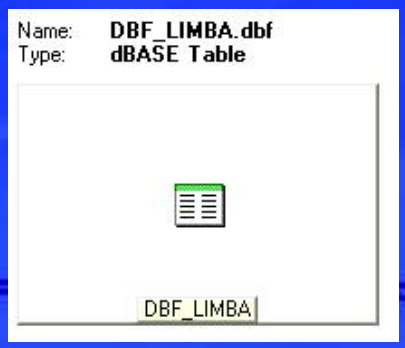


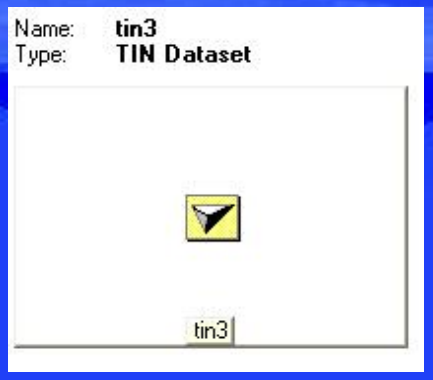


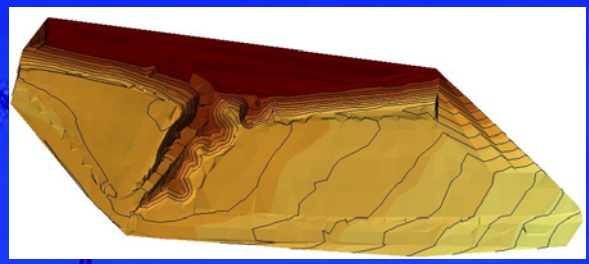
THEMATICAL MAPS

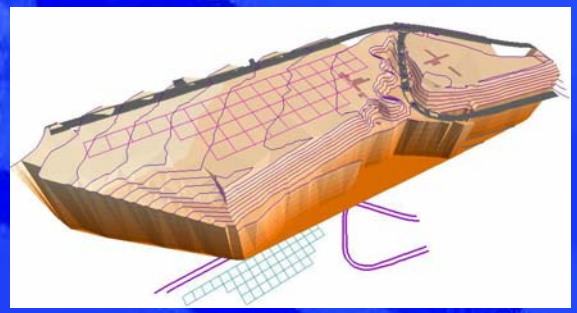
GIS SUPPORT - USING TABLES TO DIGITAL DEVELOPMENT MODELS



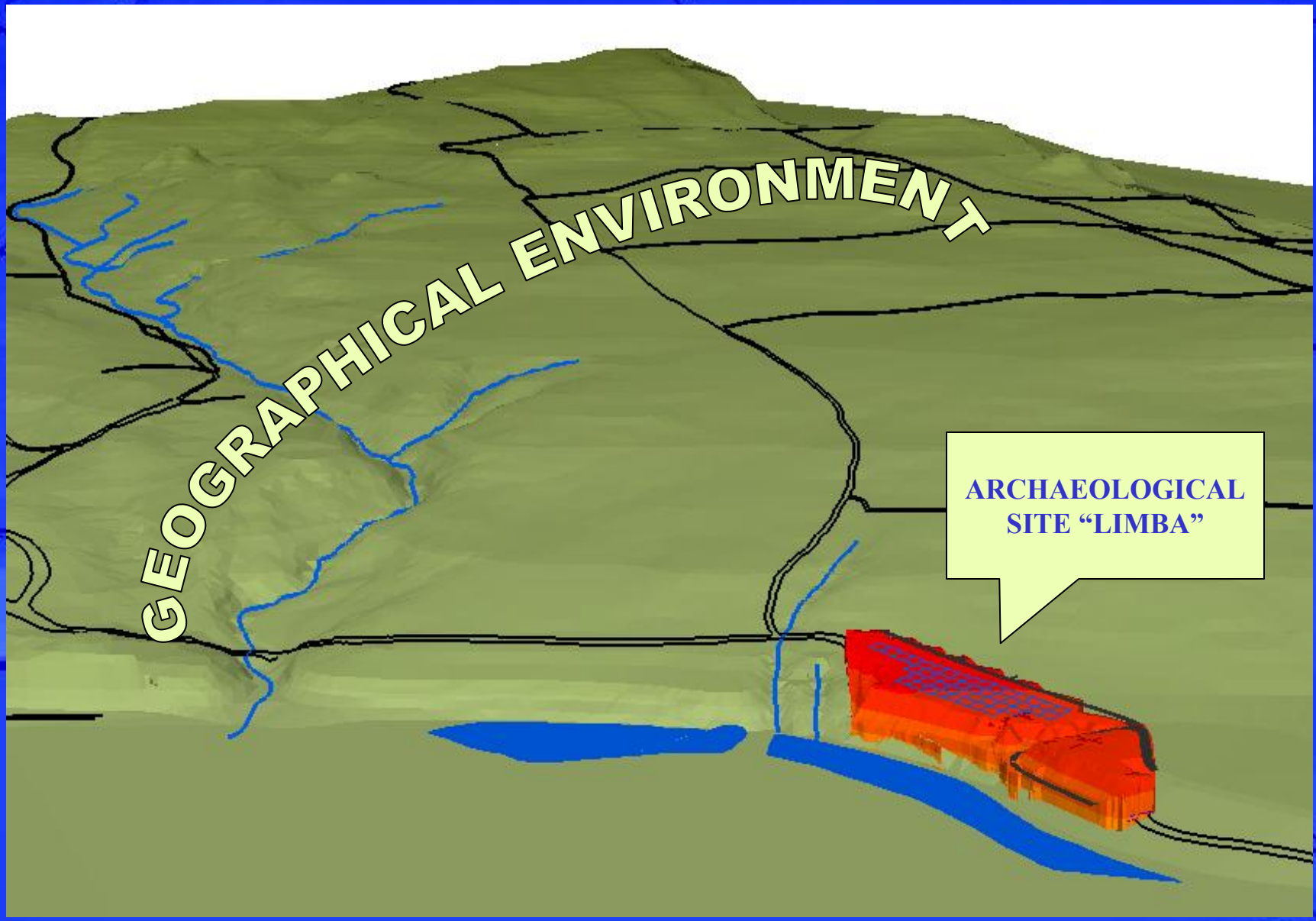








ARCHAEOLOGICAL SITE INTEGRATED IN GEOGRAPHICAL ENVIRONMENT



CONCLUSIONS

The research would be advisable to continue in an interdisciplinary manner, with the results materialised in a more complex GIS project, following subsequent archaeological work on the spatial distribution of a type of object discovered and correlations between objects found on different treading levels, percentage analyses regarding the presence of objects or archaeological clusters on layers, on spread levels or areas, analyses to determine the limits of an archaeological site, through digging, drilling, geophysical prospecting, geological and soil analyses, proximity analyses resulting in the source areas of materials.

REFERENCES

- **Borsan T., Voicu G. E. –** ***Sisteme informationale geografice – Aplicatii*****, Seria Didactica, Universitatea „1 Decembrie 1918" Alba Iulia, 2008;**
- **Borsan T., Voicu G. E. –** ***GIS Utilisation for the Evidence of Archaeological Sites*****, Universitaria Simpro, Topografie si cadastru, Editura Universitas, Petroşani, Lucrările ştiinţifice ale simpozionului internaţional multidisciplinar „Universitaria Simpro", Editura Universitas, Petroşani, 2008;**
- **Borsan T., Dimen L., Ienciu I., Ludusan N. -** ***Archeológiai ásatások GIS reprezentációja*****, GISOPEN 2008, Szekesfehervar, Ungaria, www.geo.info.hu/gisopen/gisopen2008/ppt, 2008;**
- **Breazu M.,** ***Borsan T.*****, Maican I. -** ***Aplicatii ale tehnicilor si metodelor moderne in cadrul cercetarilor arheologice de salvare – topografia digitala*****, Patrimonium Apulense, IV, Editura Altip Alba Iulia, 2004;**
- **Ciuta B., Florescu C., Gligor M., Mazare P., Suteu C., Varvara S, Breazu M., Lipot S., Toth C. –** ***Ceramica neolitica- O lectie de istorie – catalog de expozitie, Cultura Vinca, p. 34-41*****, Editura Aeternitas, Alba Iulia, 2007;**
- **Paul I., Ciuta M.,** ***Raport sinteza asupra cercetarilor arheologice din complexul de situri preistorice de la Limba*****, Acta Praehistorica et Archaeologica Transilvaniae, I, 2000;**
- *****,** ***Repertoriul arheologic al judeţului Alba*****, Alba Iulia, 1995, p. 92 – 93;**
- **http://www.cimec.ro**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