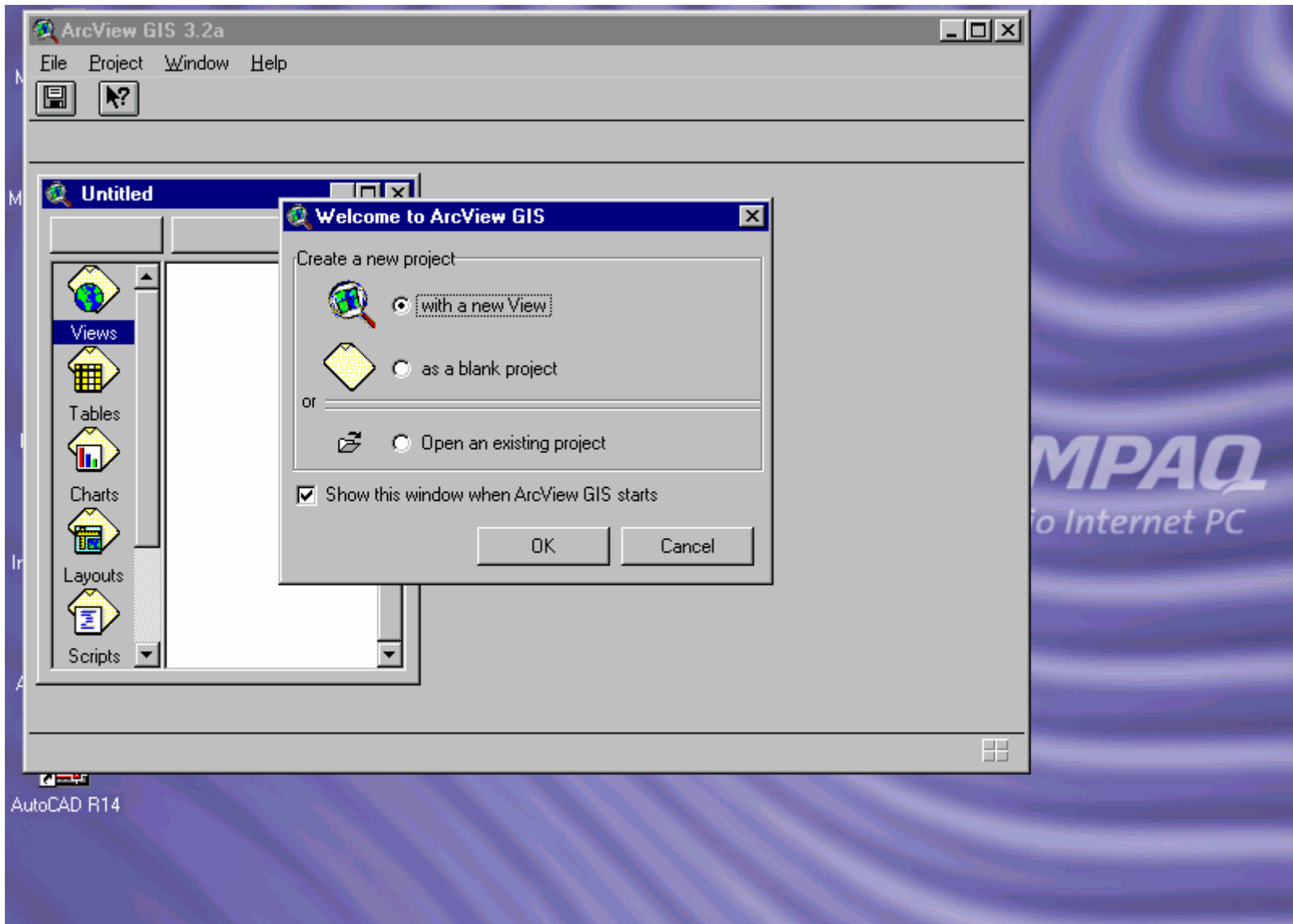


Aplicação de SIG ao Morro da Cruz, Florianópolis

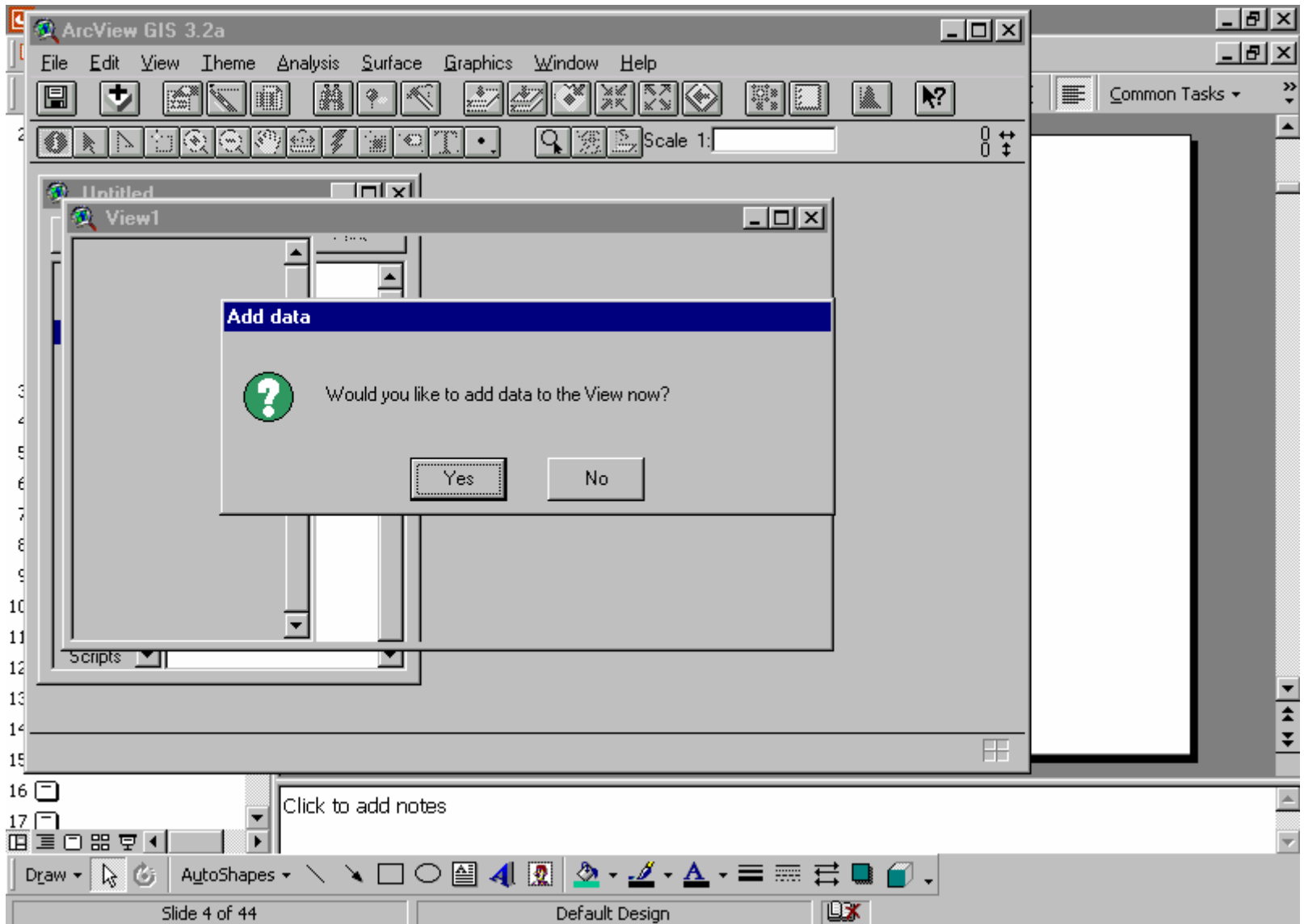
Pós-Graduação em Arquitetura e Urbanismo
Universidade Federal de Santa Catarina
Ocupação de Encostas – Projeto
Prof^a Sonia Afonso, Aluno Richard Lamb
3º Trimestre 2004

Exemplo de aplicação de SIG

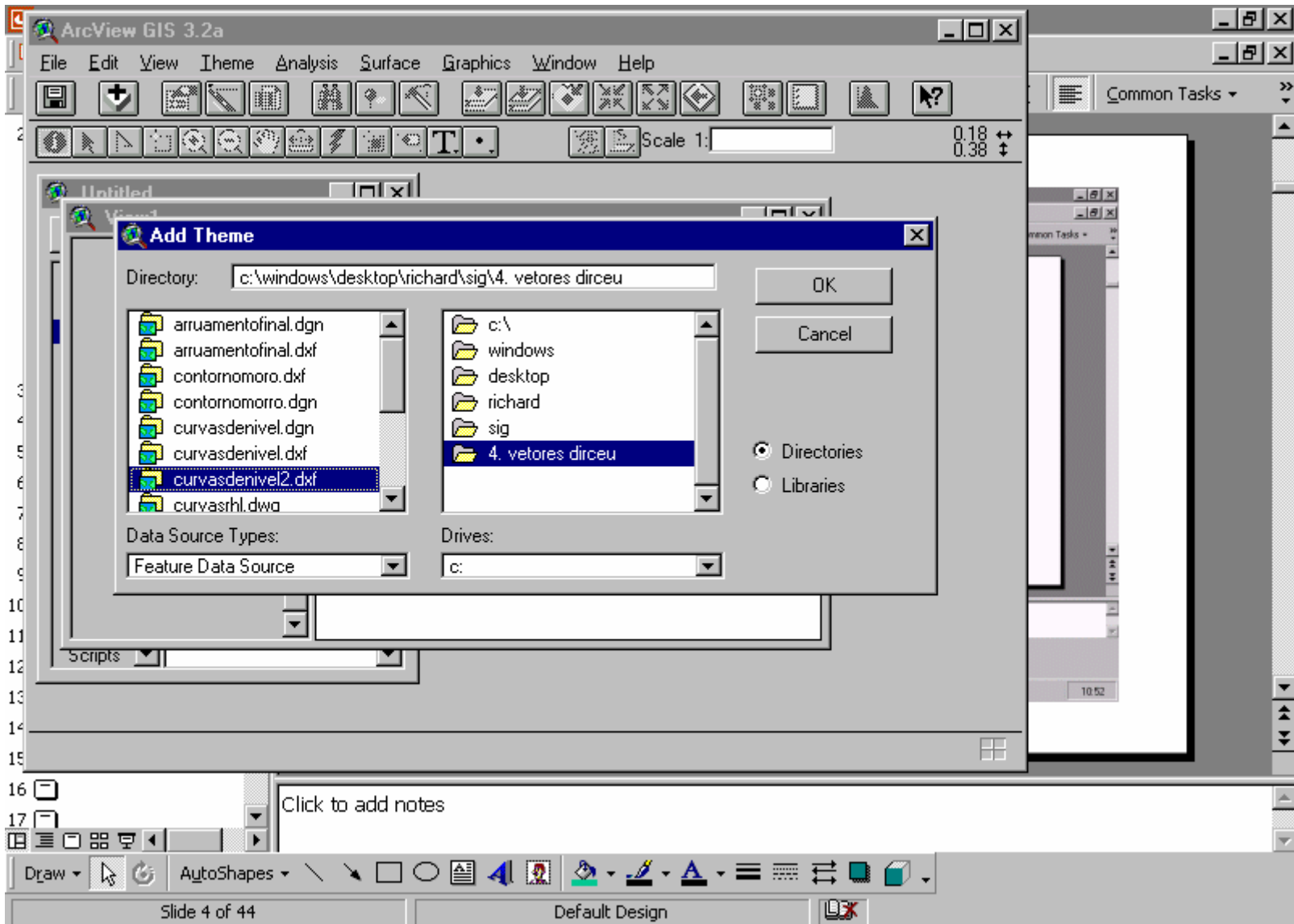
- Coleta e análise de dados do morro da cruz em 3-d

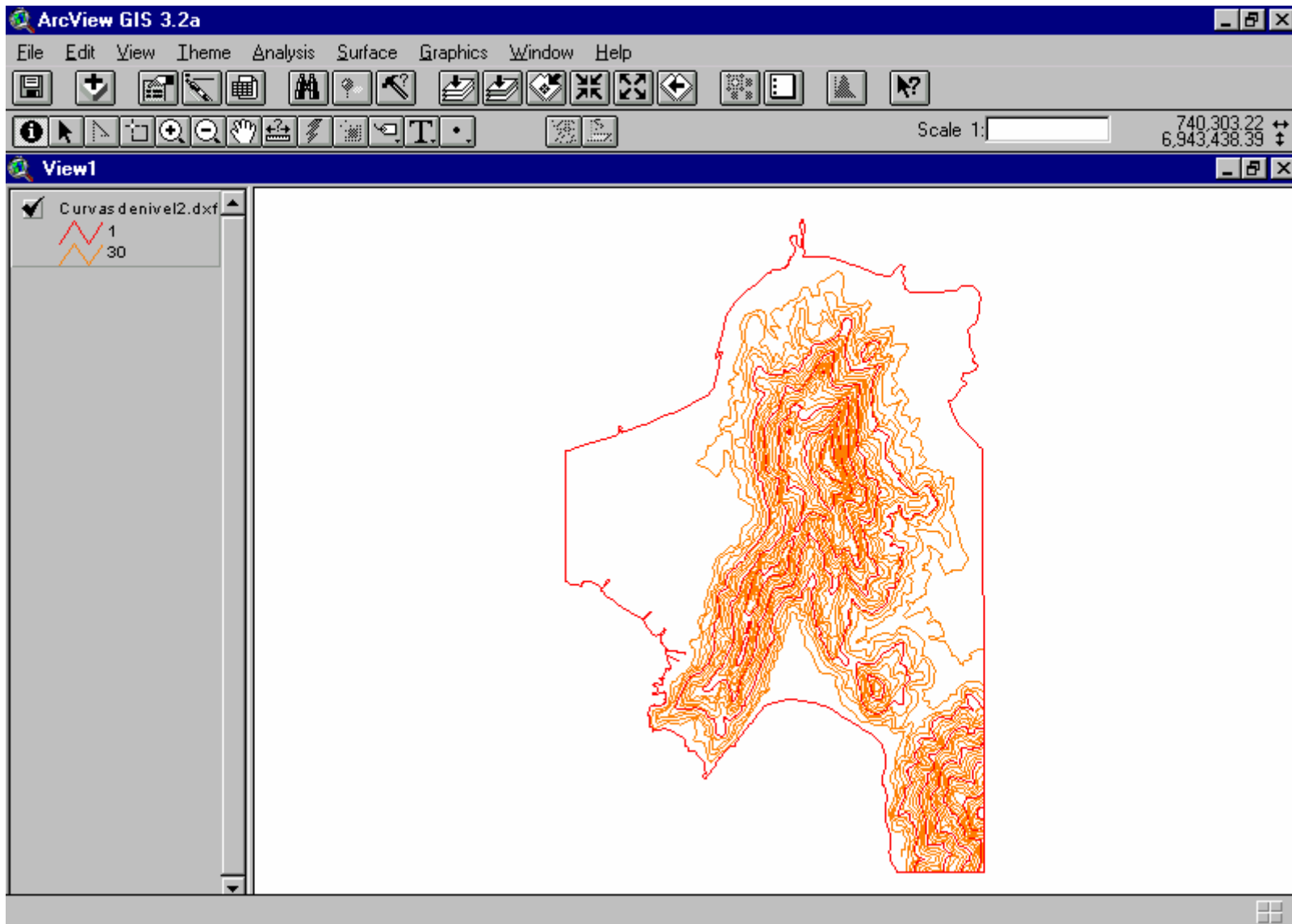


Abrir novo projeto

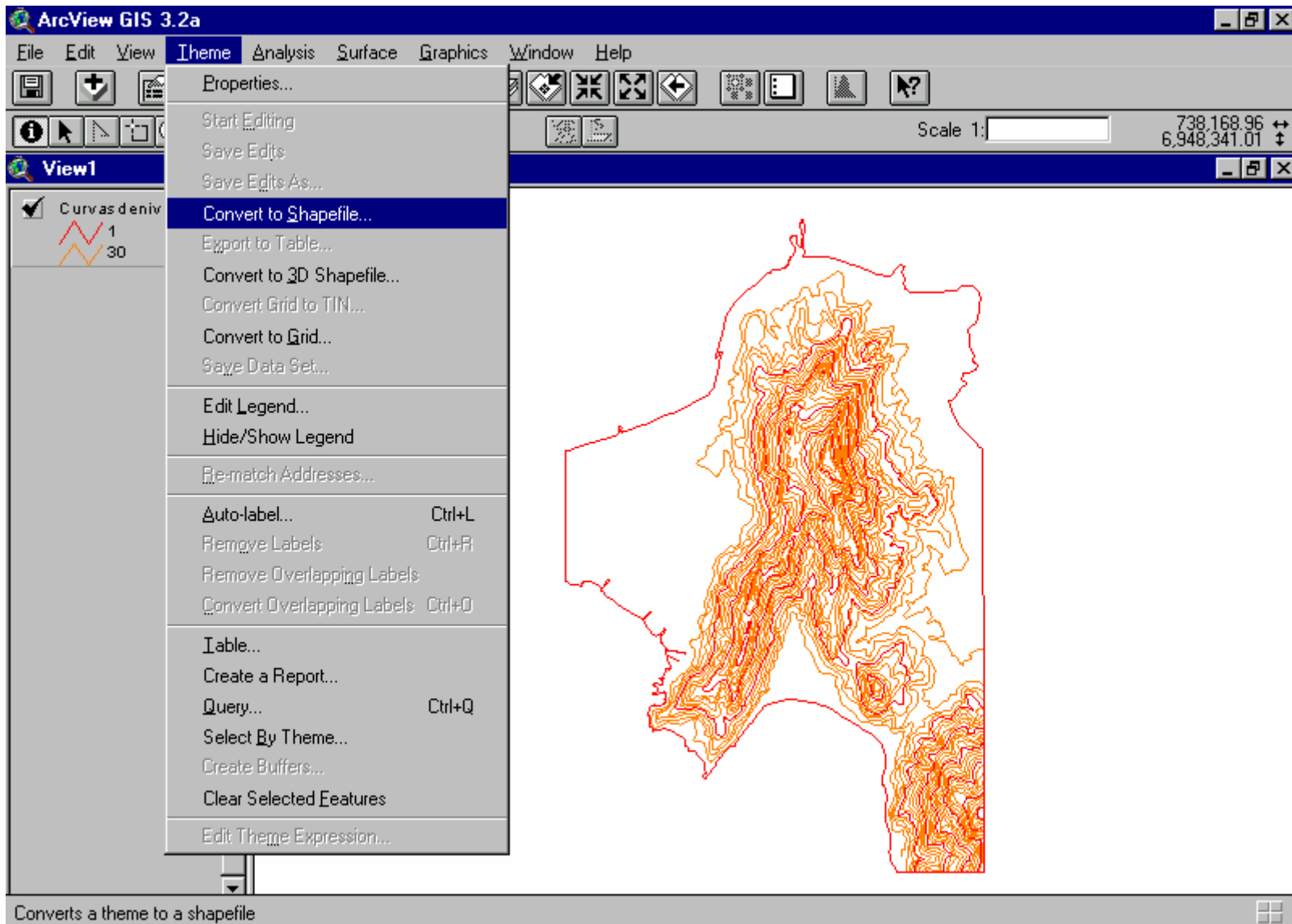


Abrir arquivo de dados

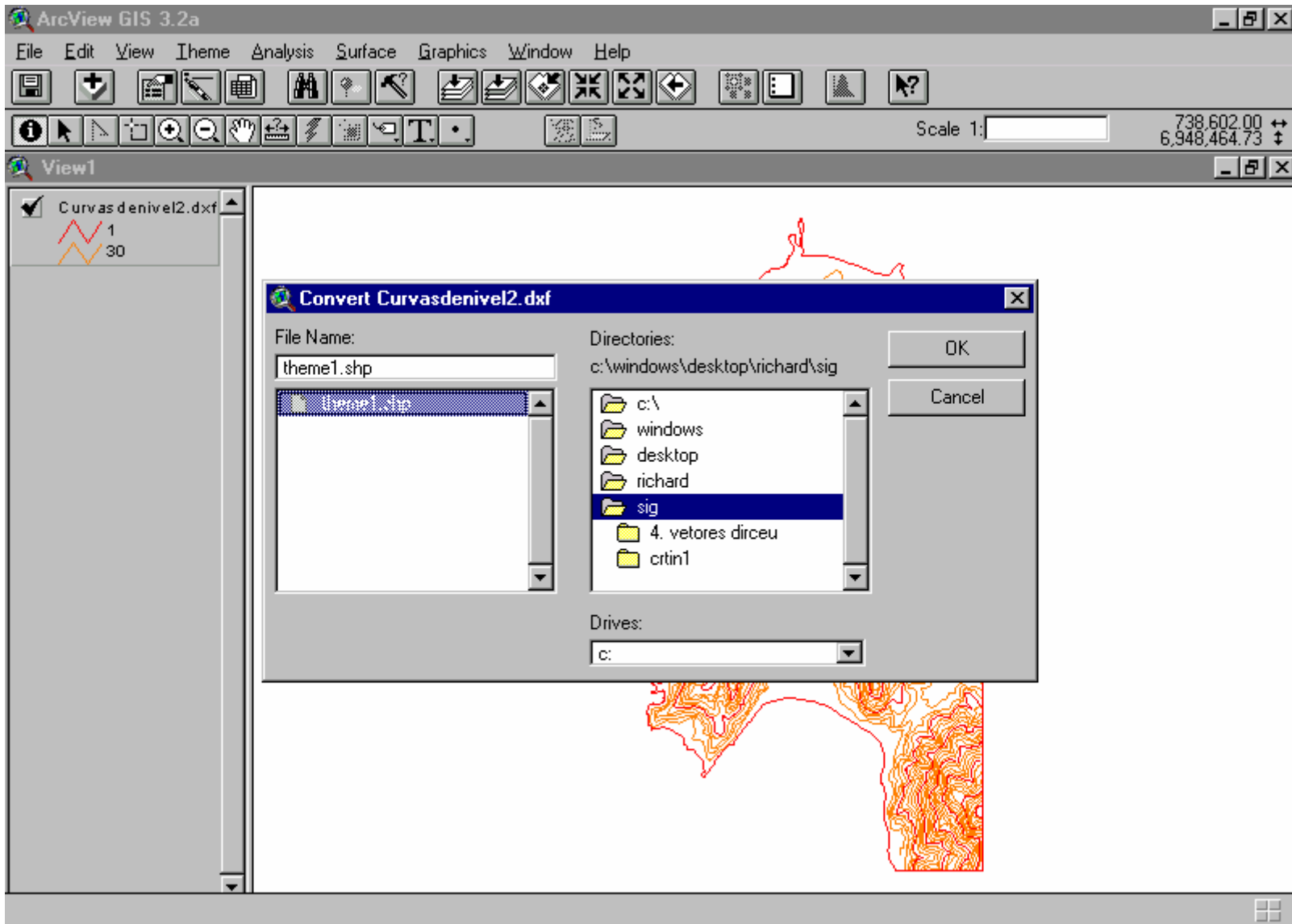


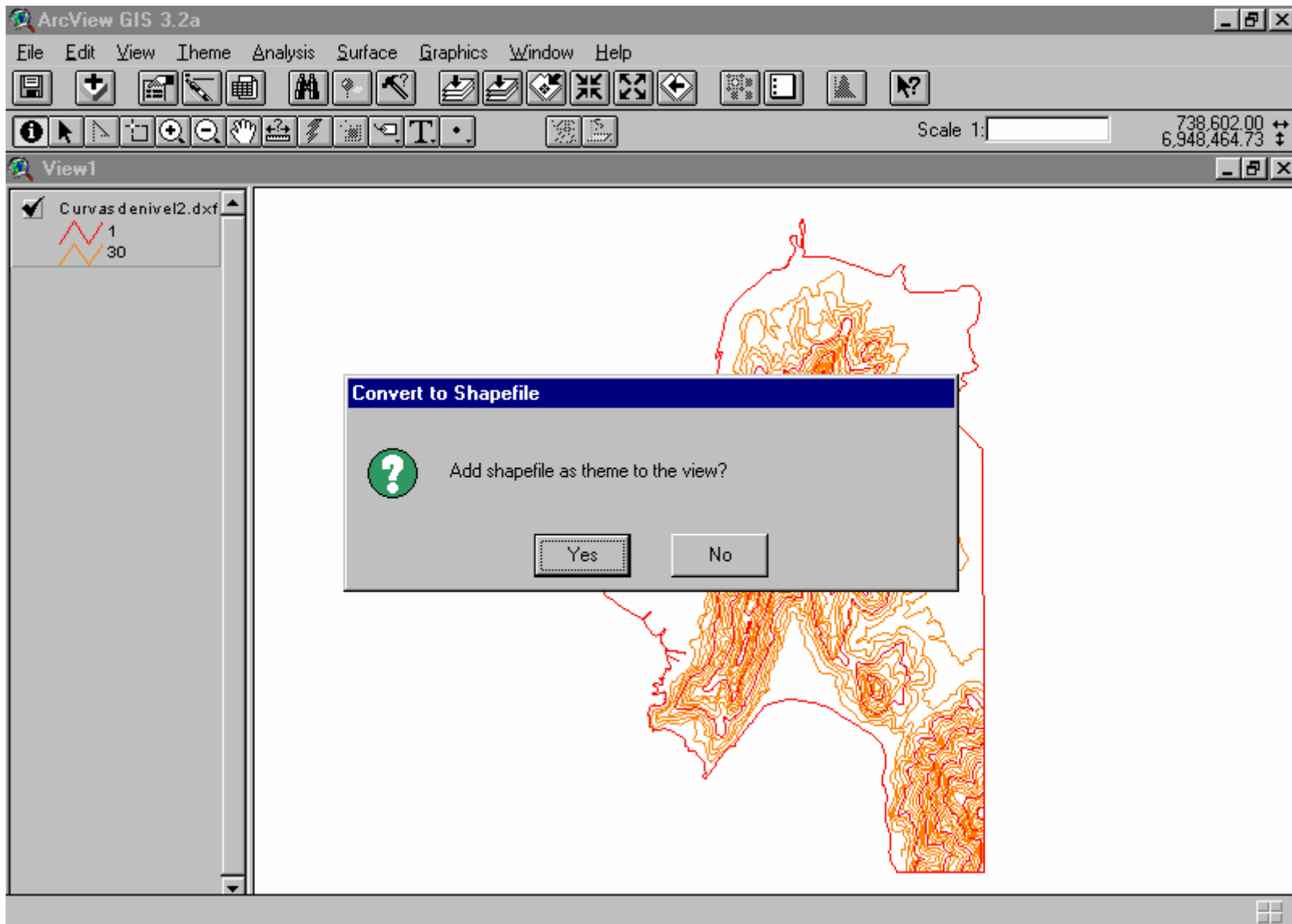


Visualizar o arquivo

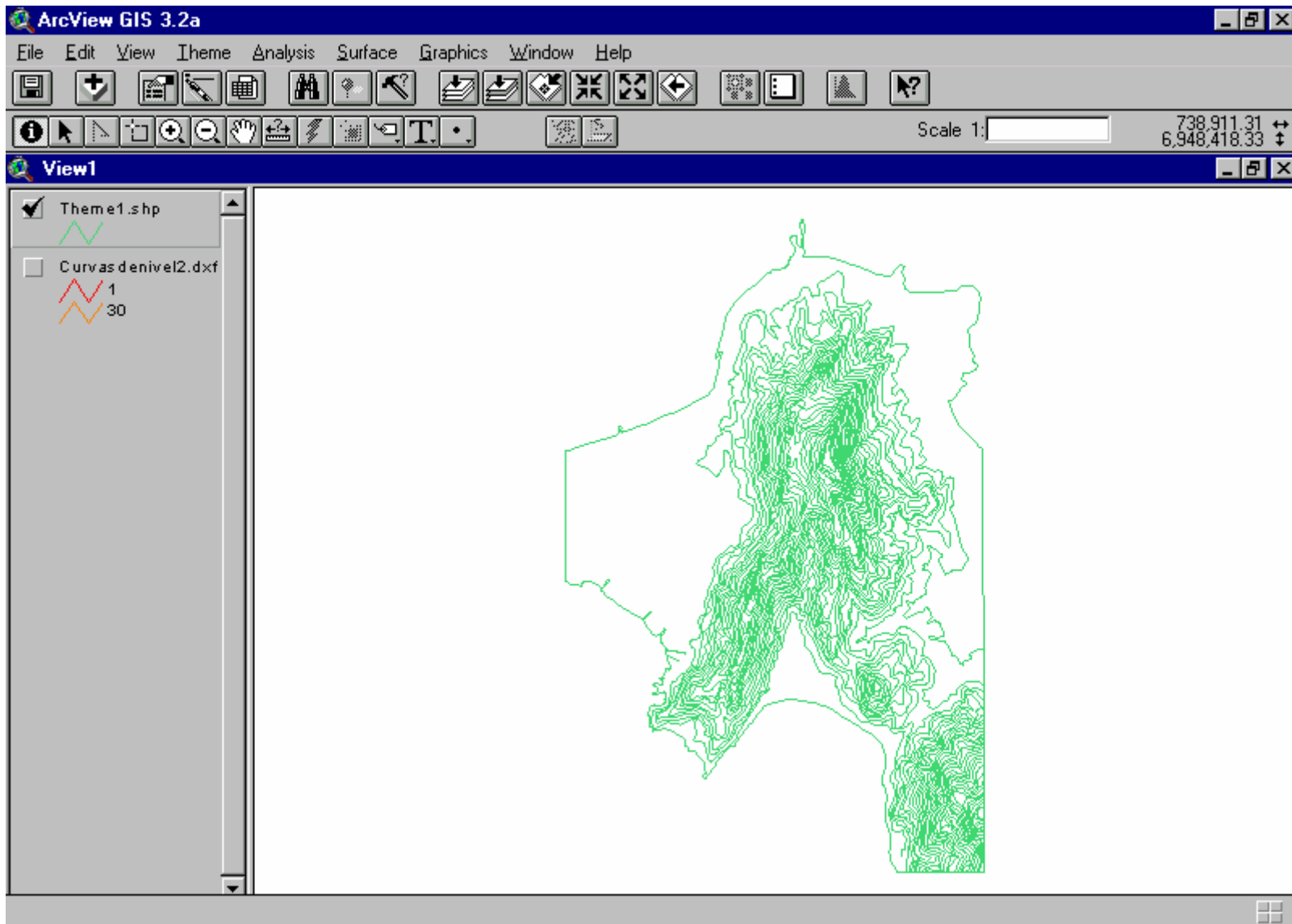


Converter a *.shp formato para editar

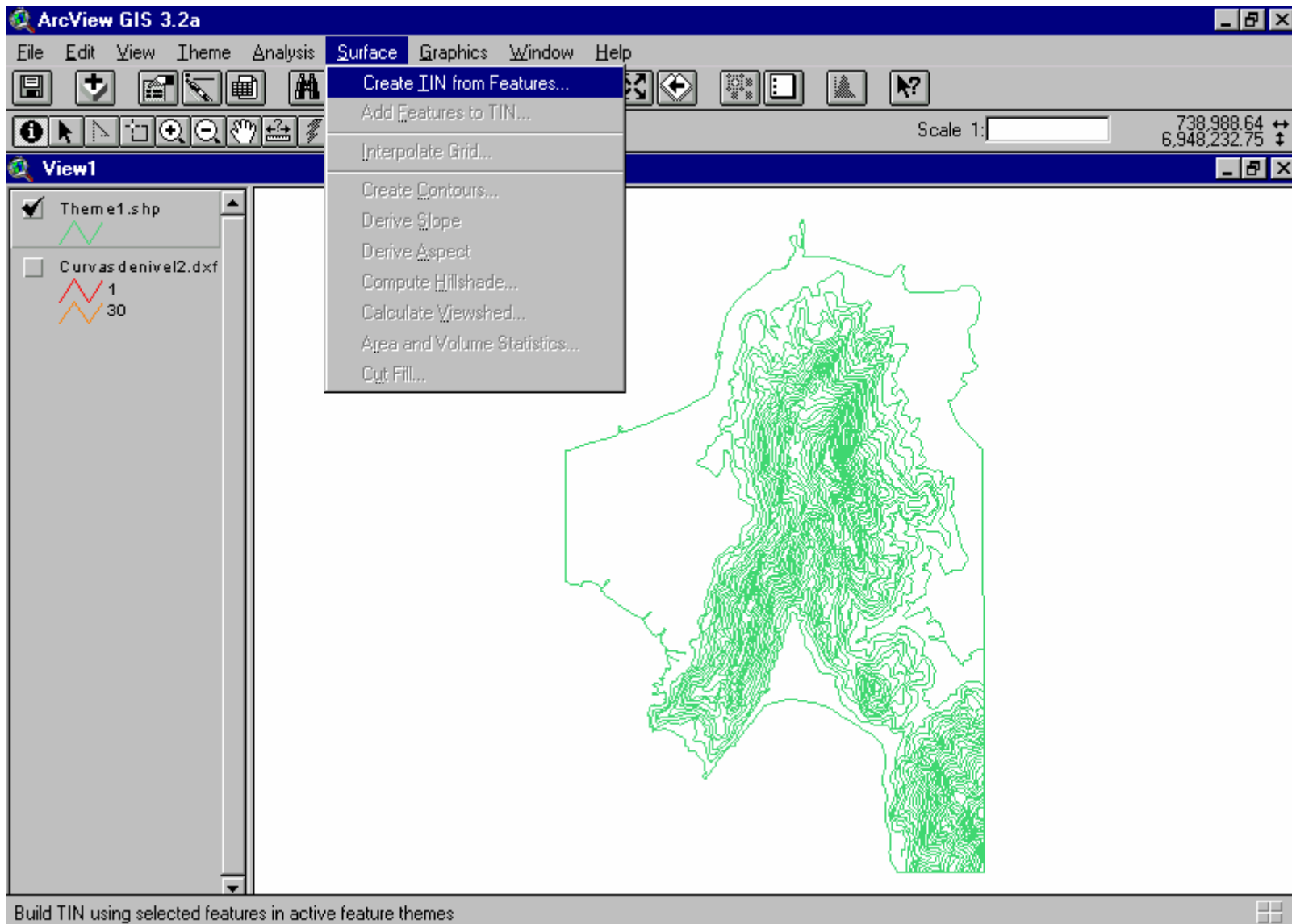




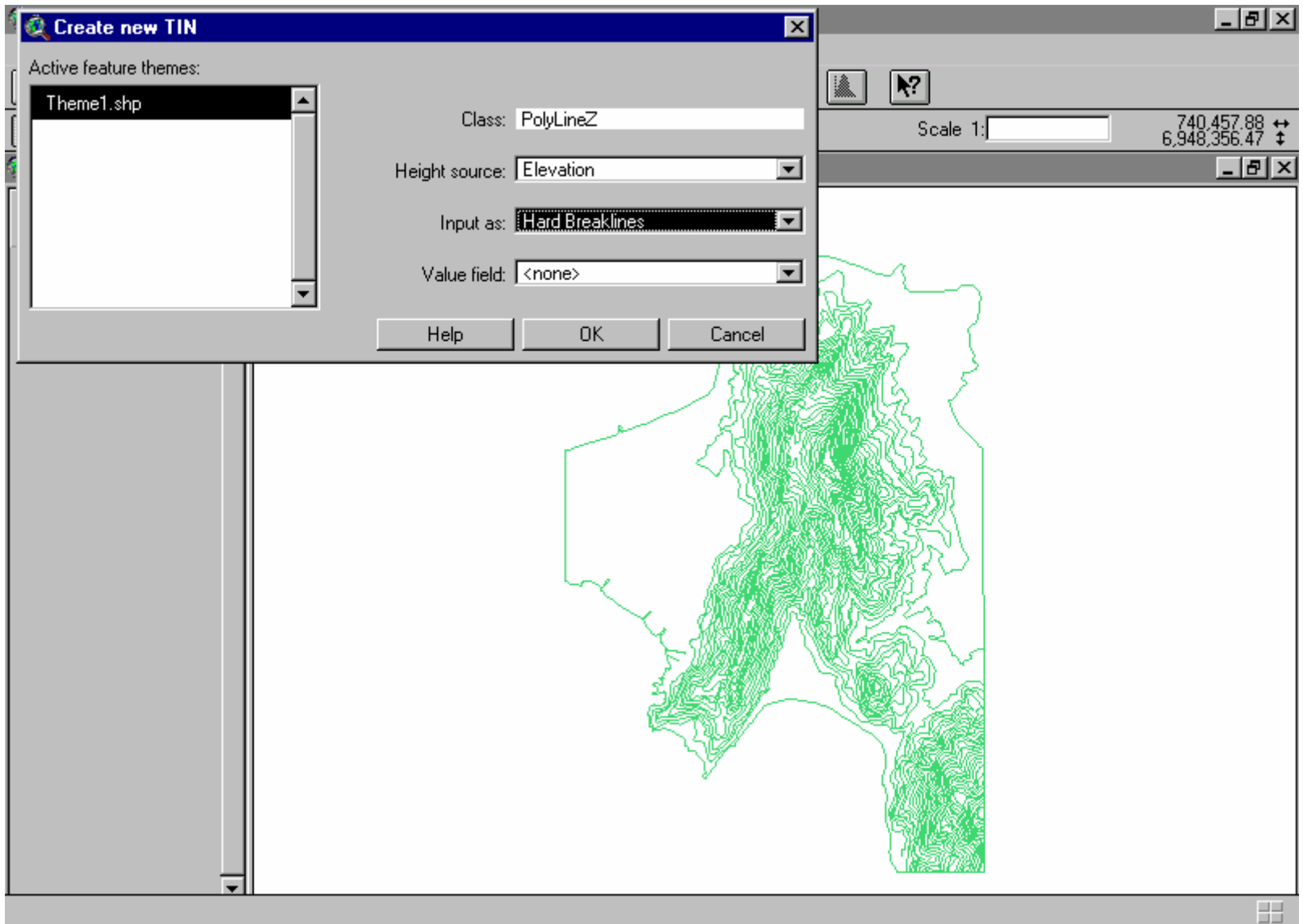
Abrir arquivo *.shp



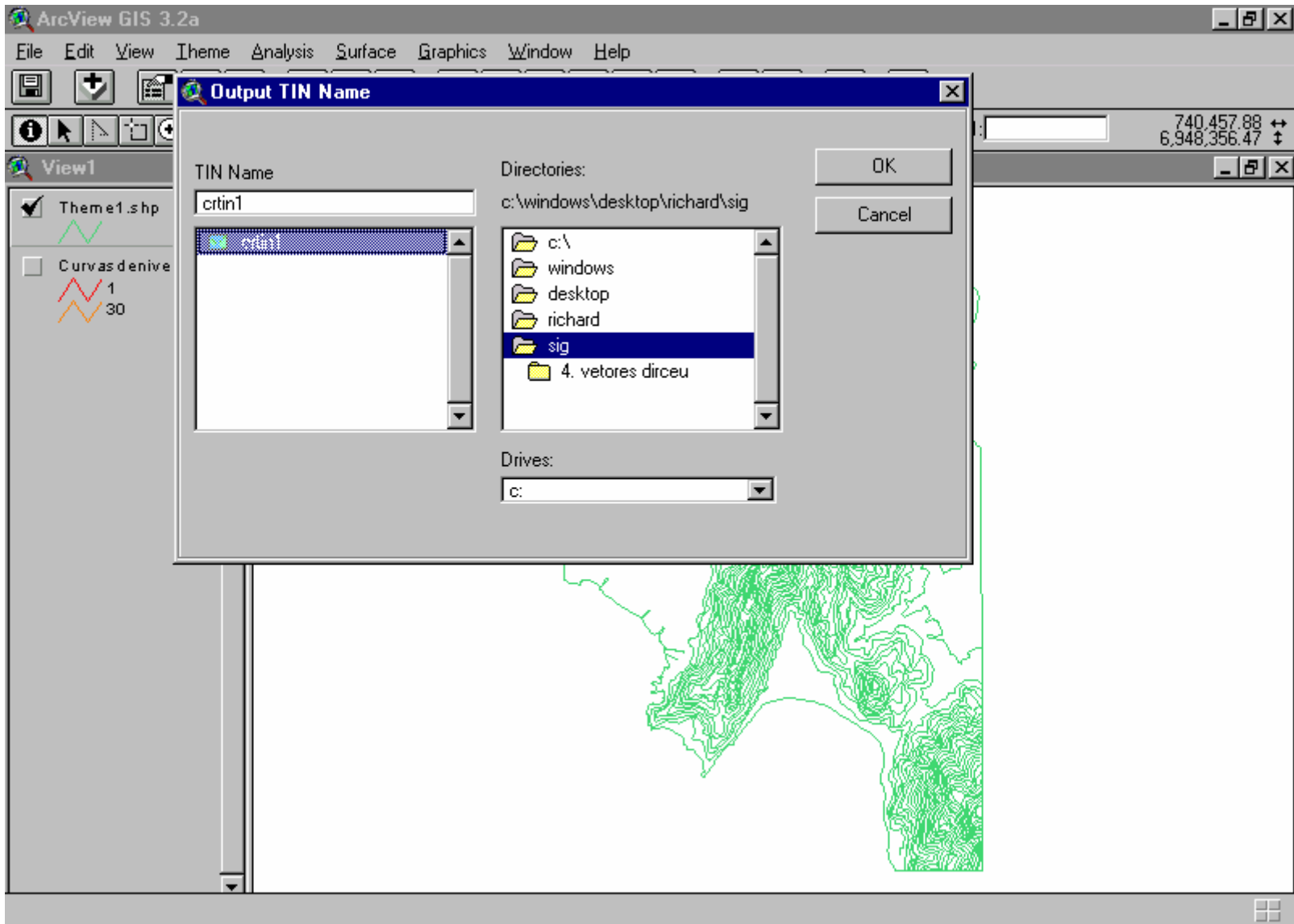
Visualizar o *.shp

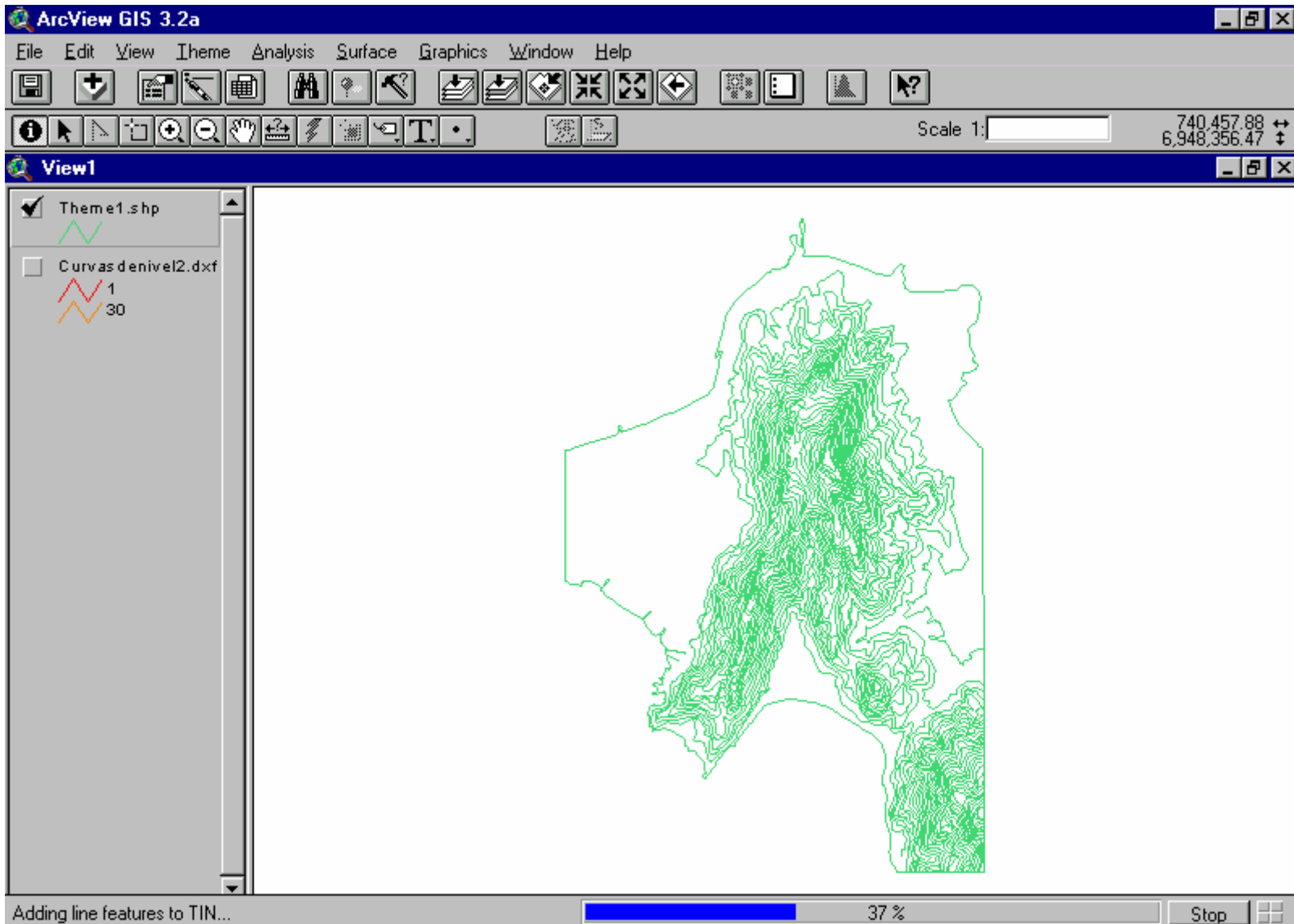


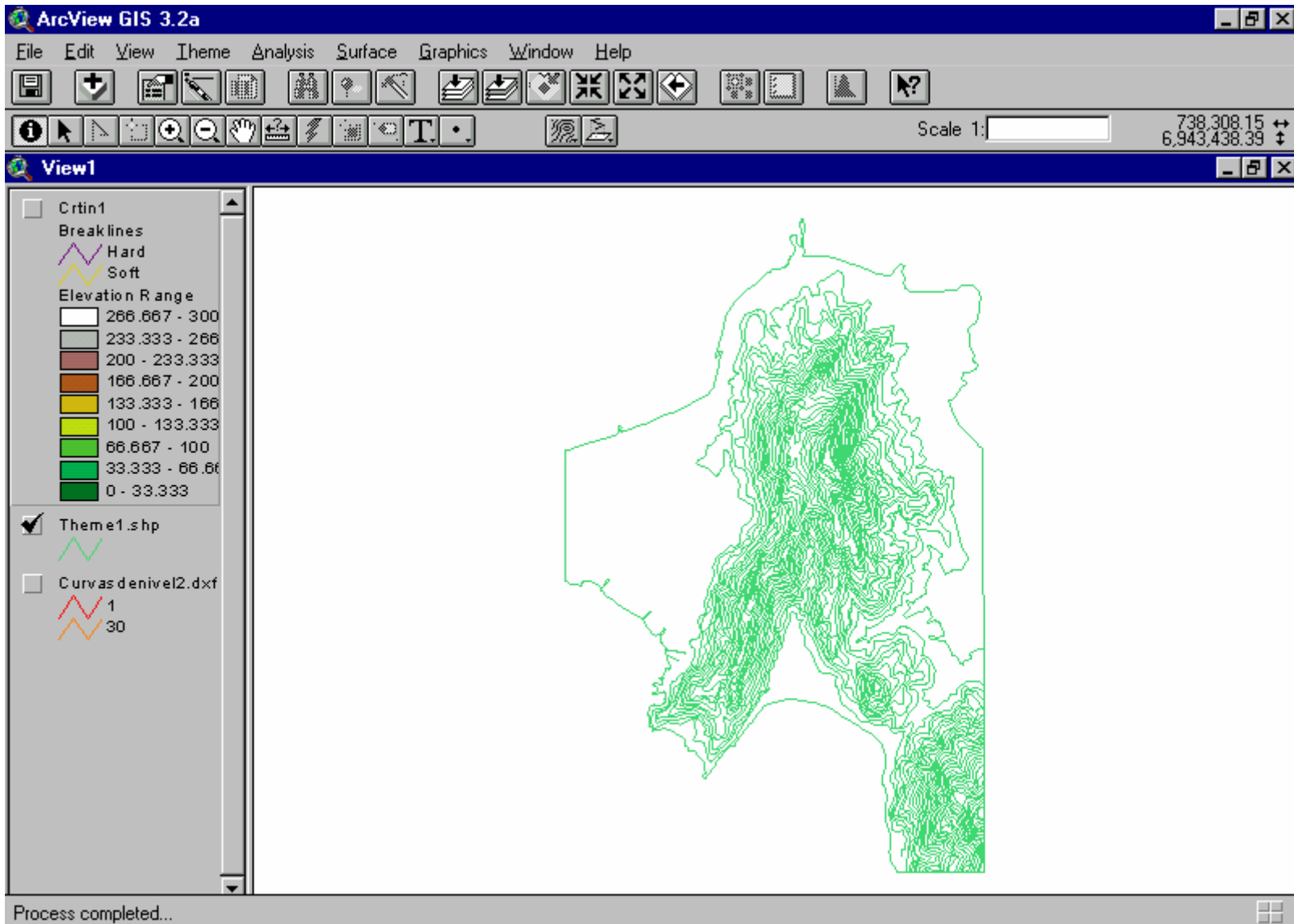
Representar 3 dimensões

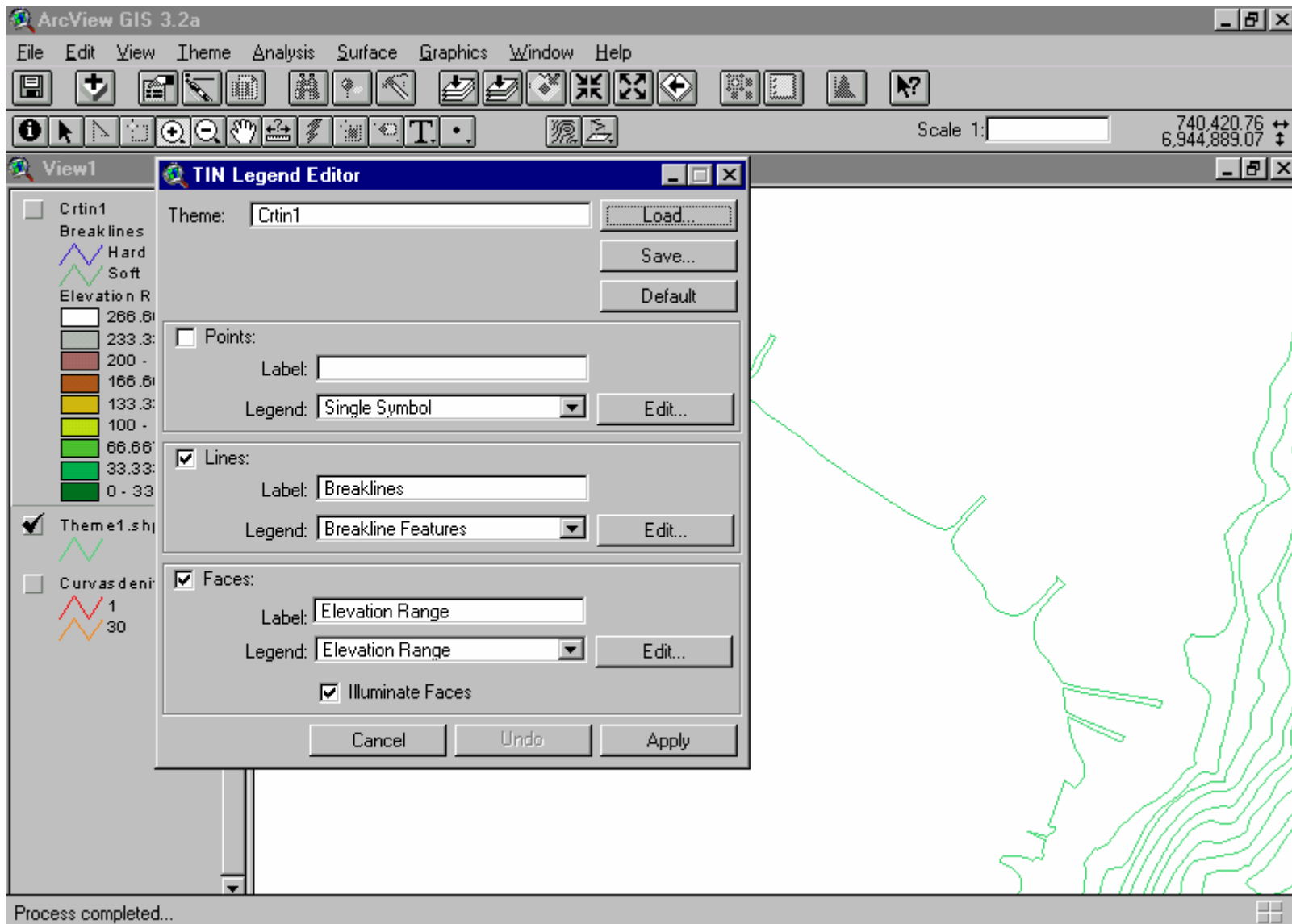


...z equivalente a elevação

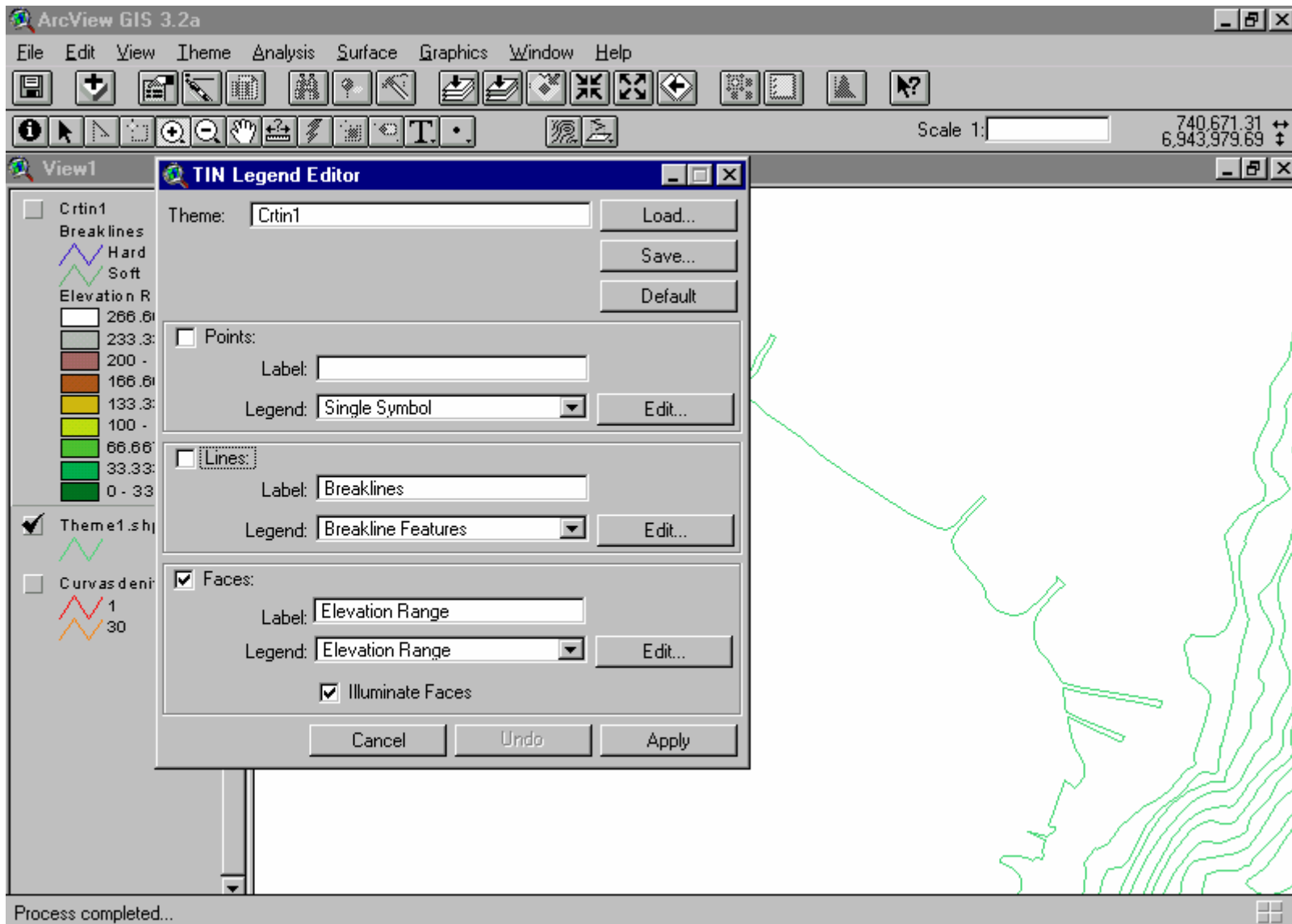




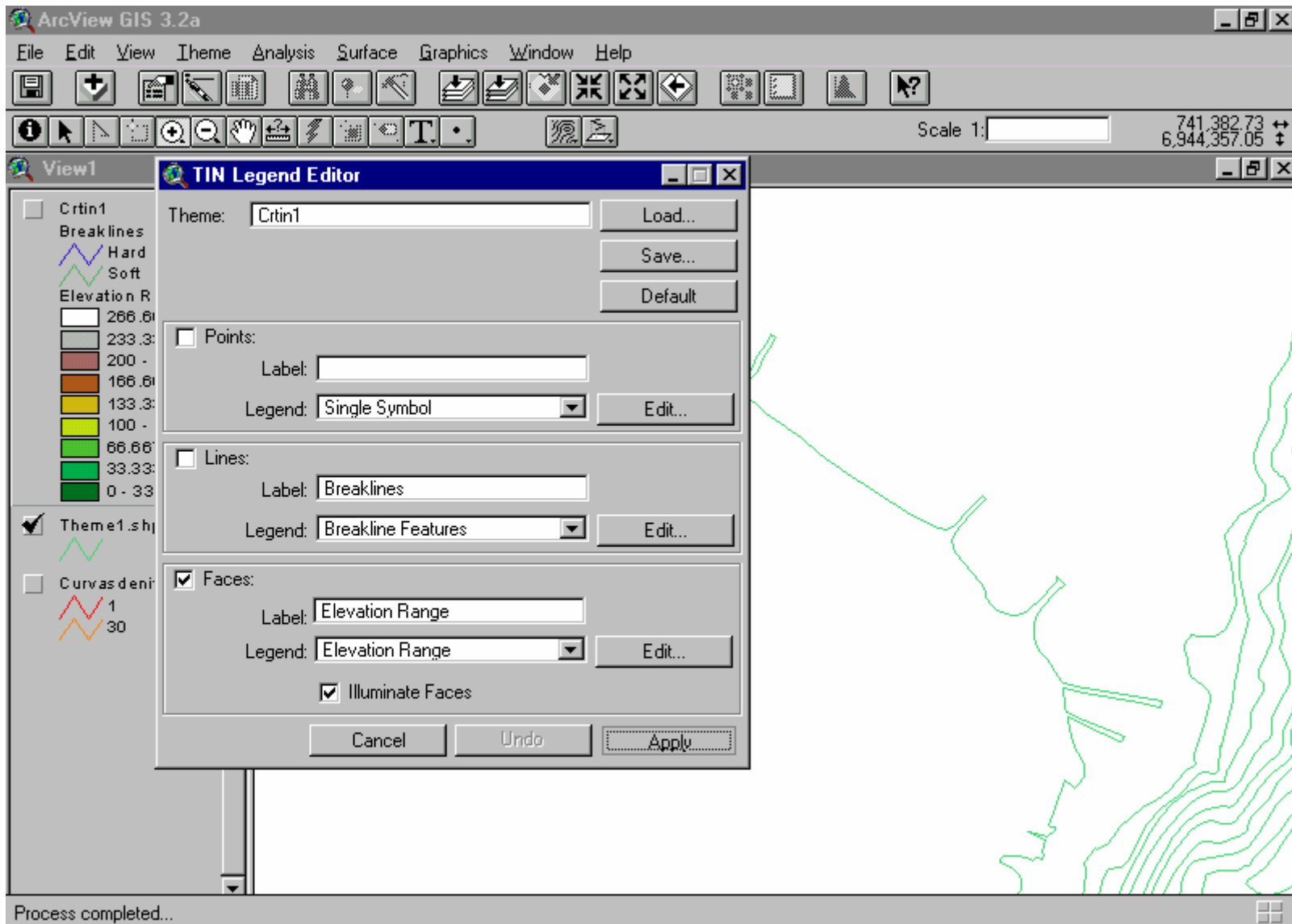




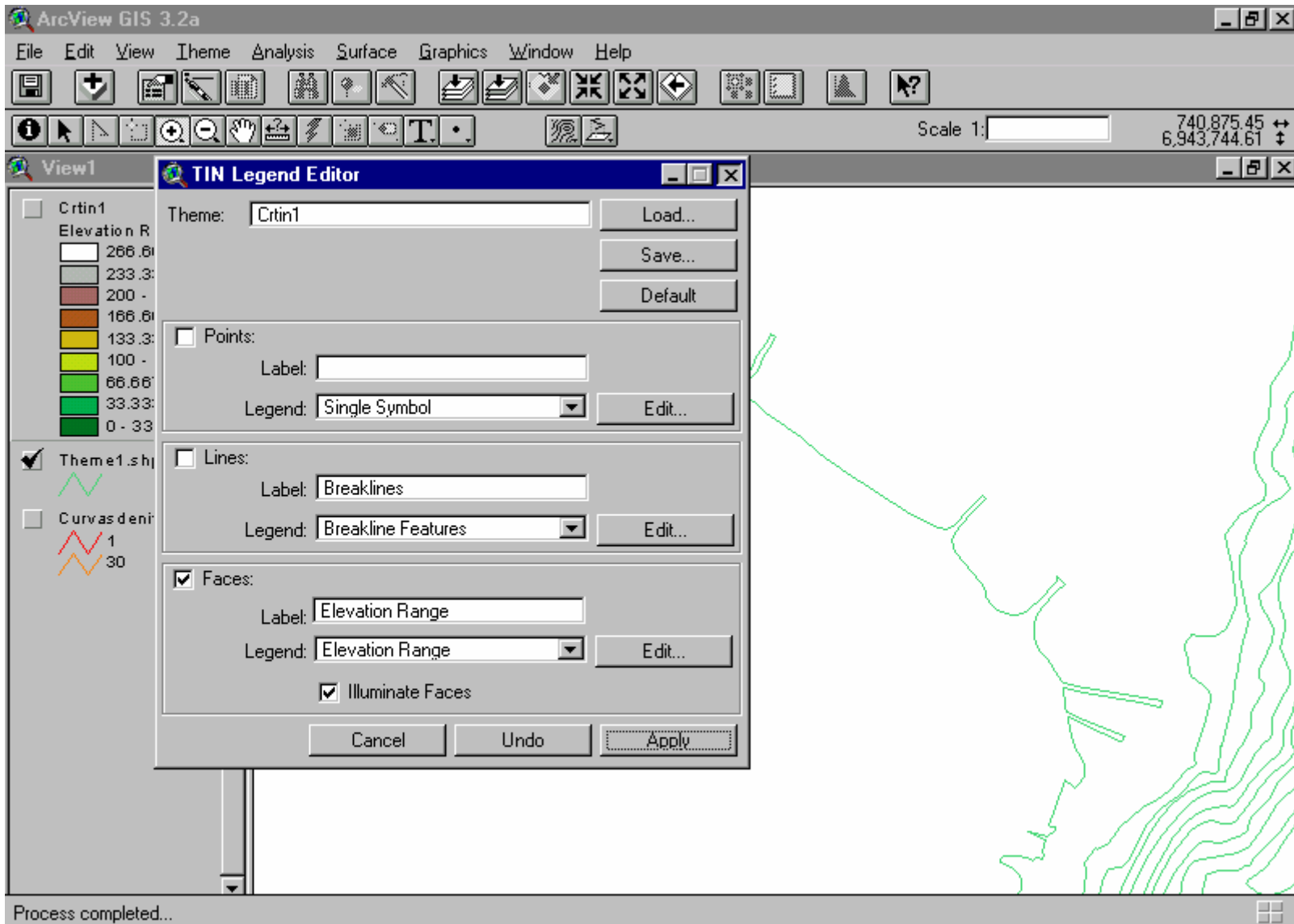
Modificar representação 3-d

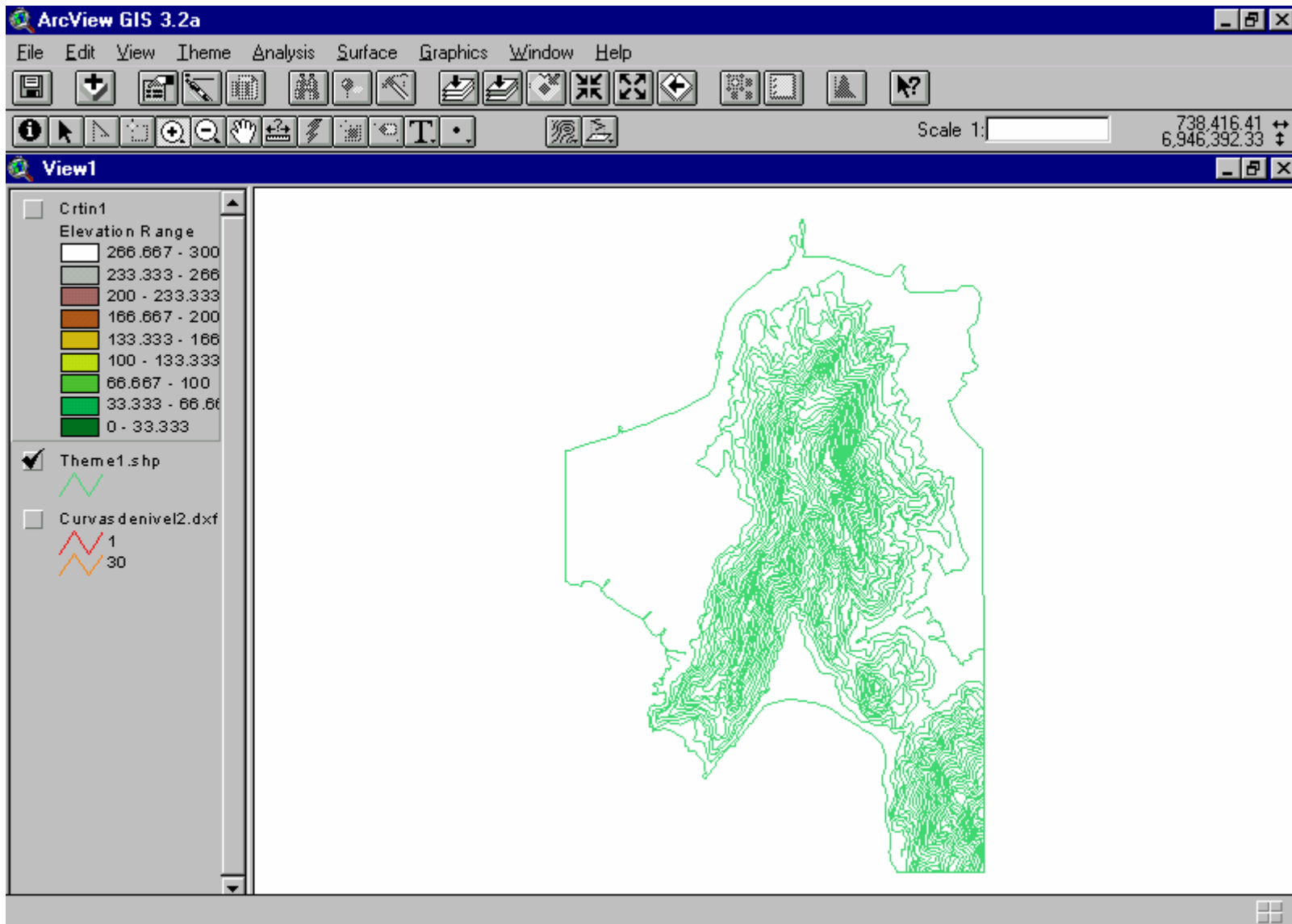


...tirar as curvas de nível

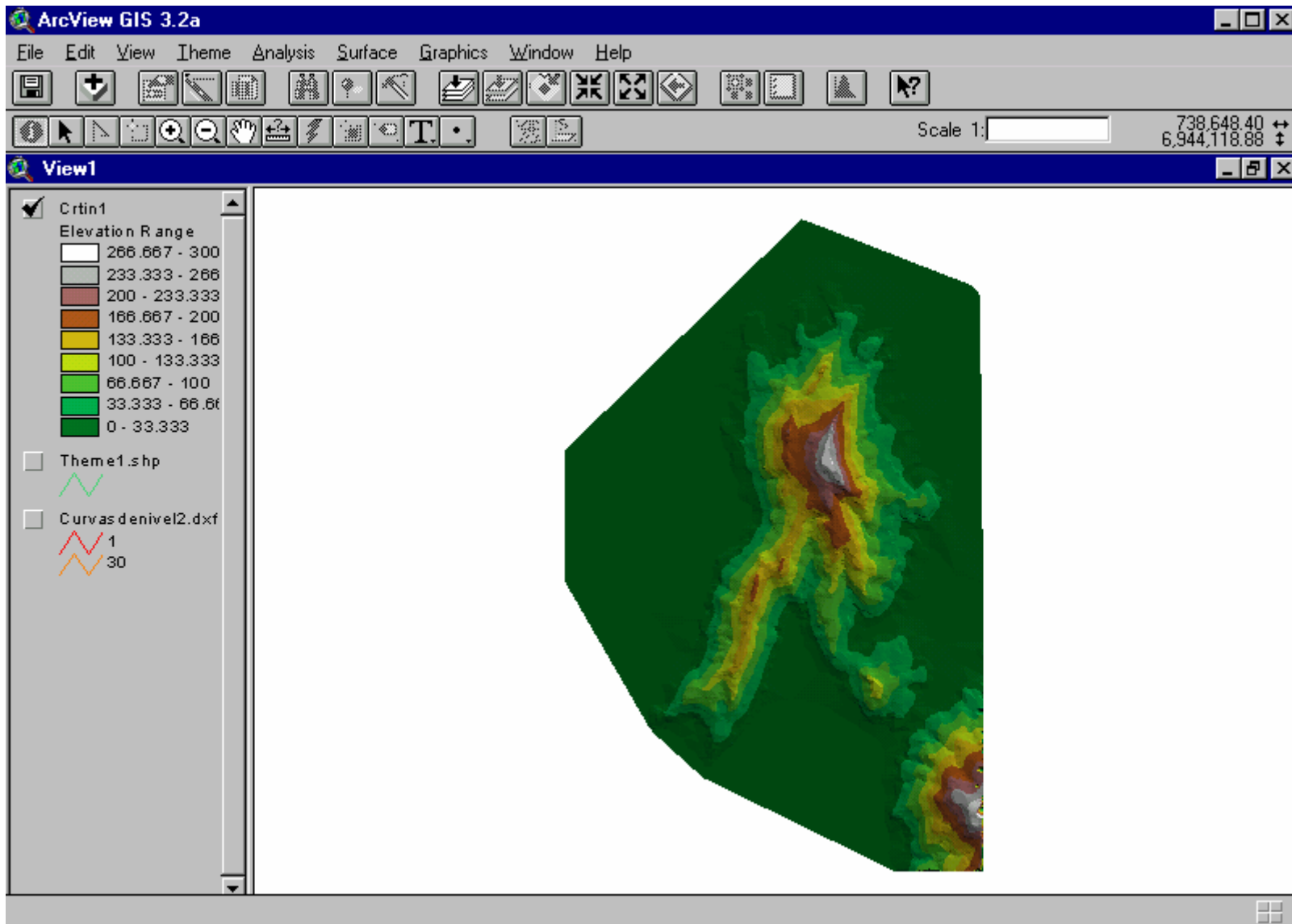


Salvar mudanças

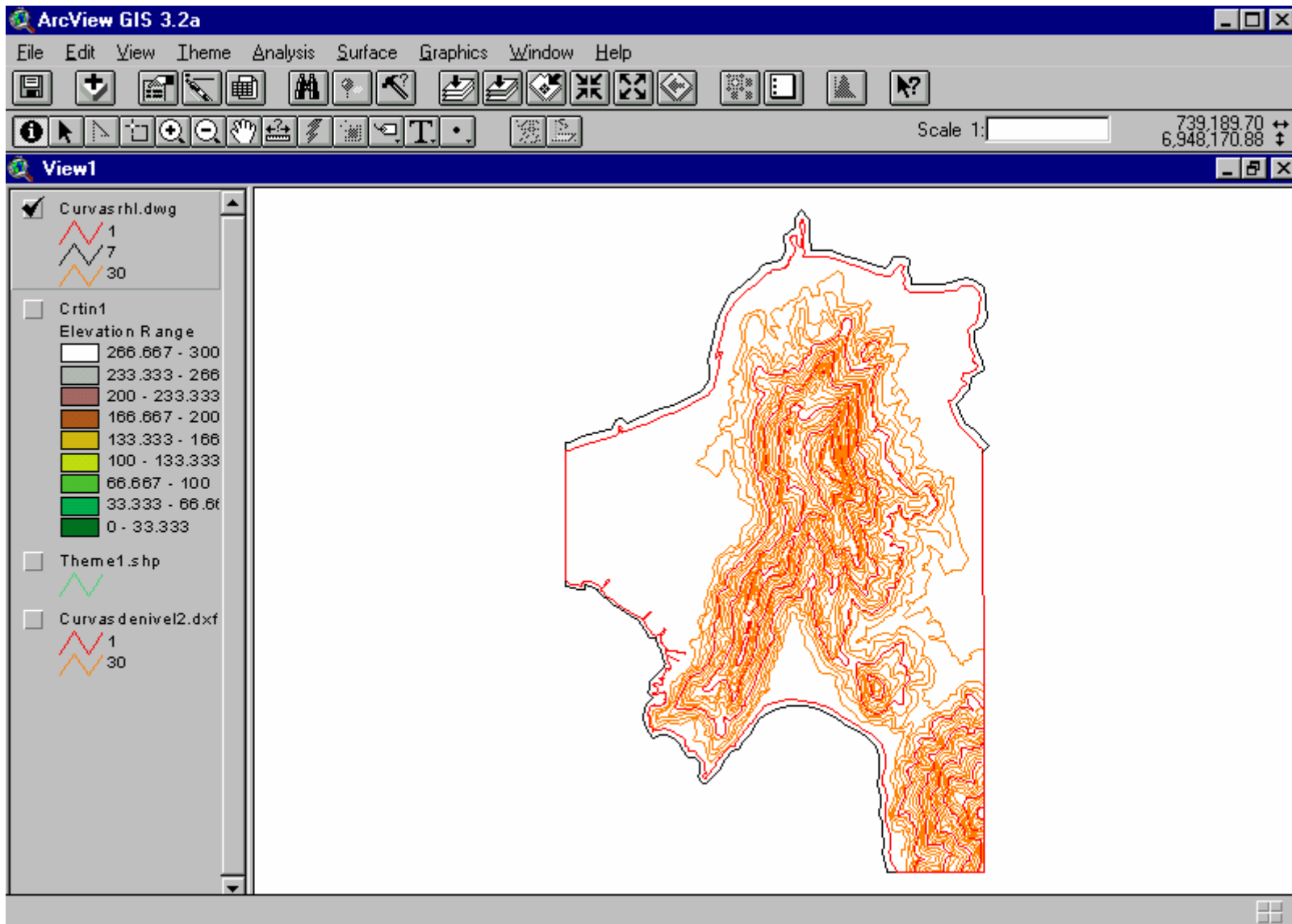




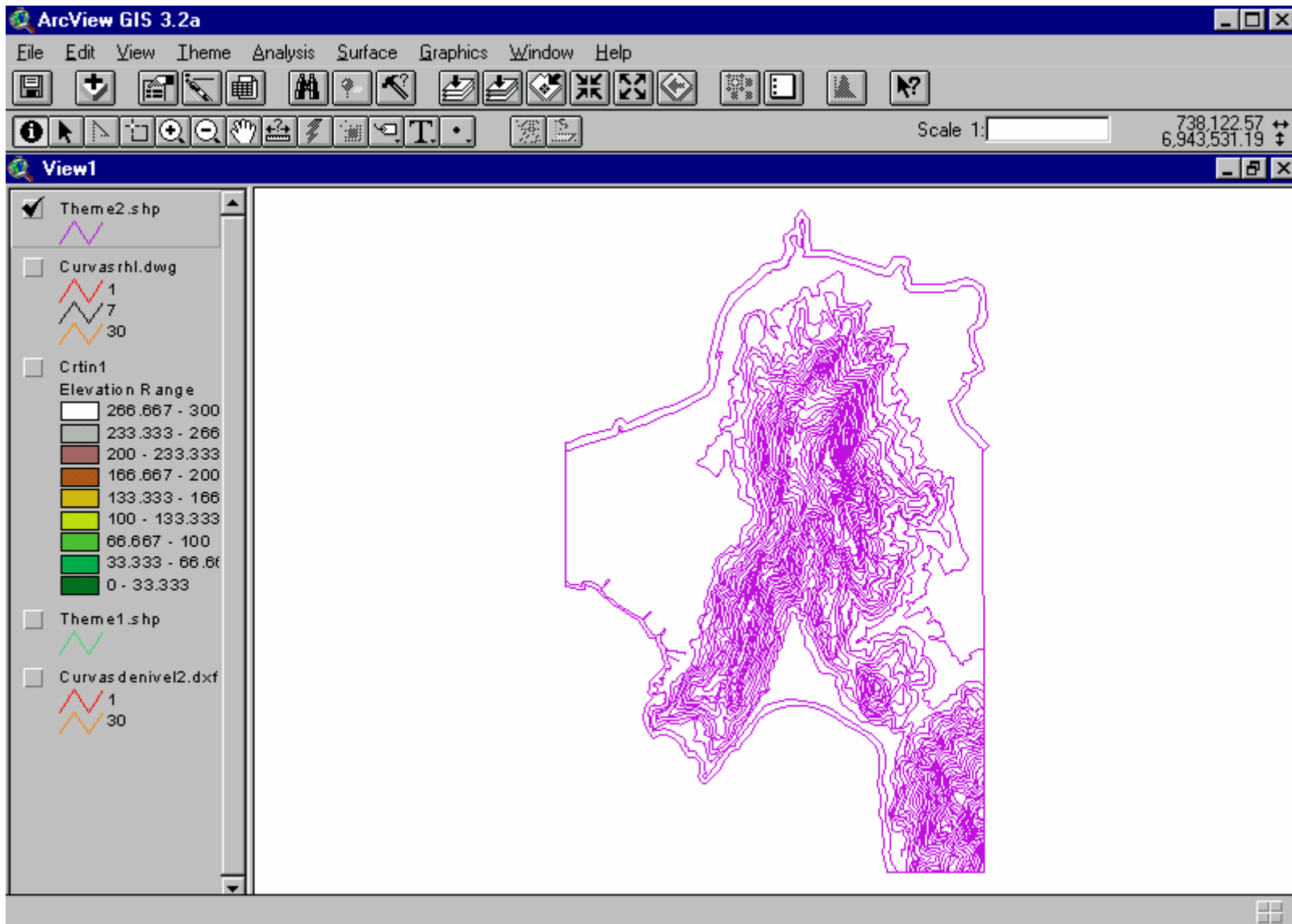
Fechar diálogo



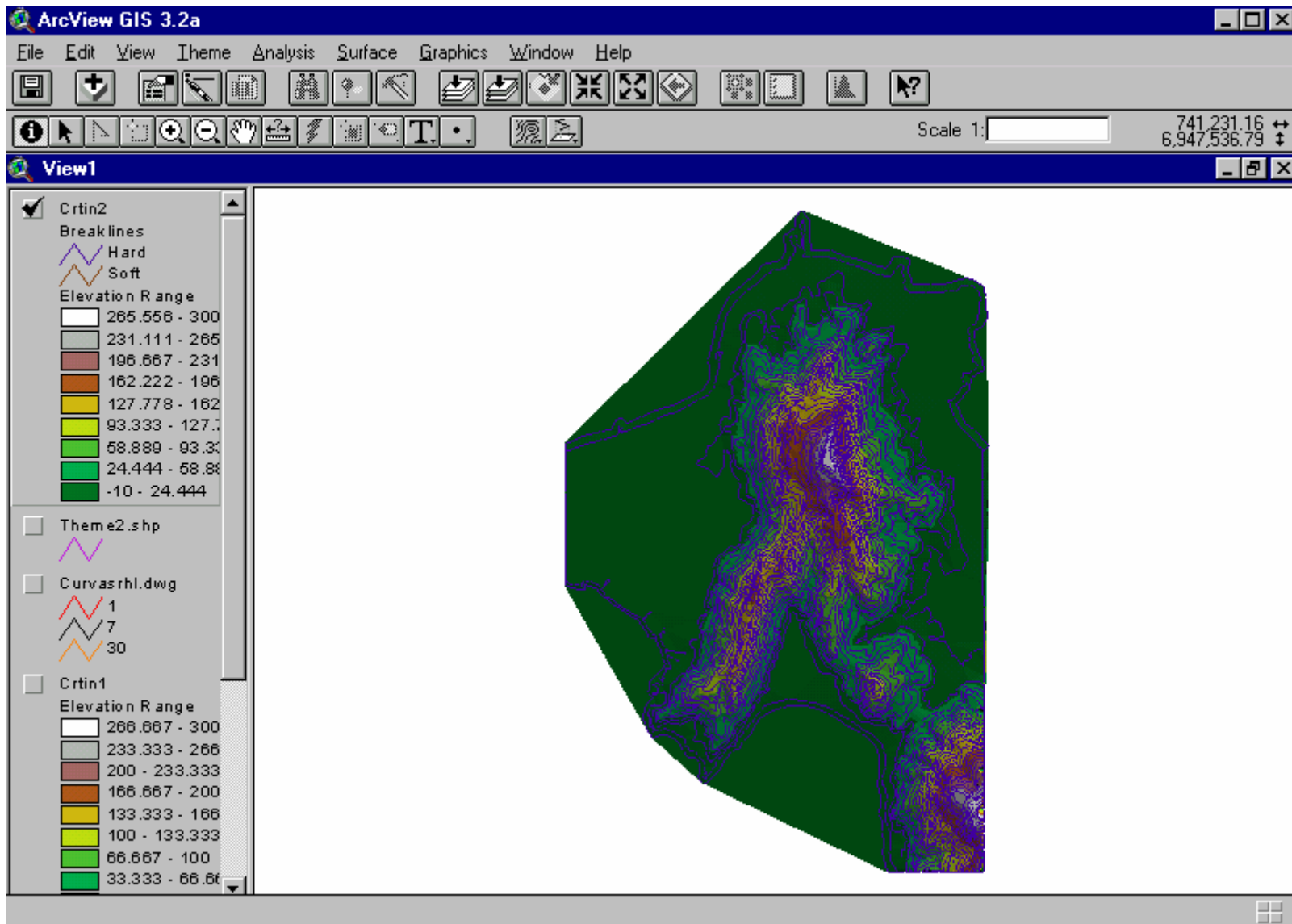
Visualizar representação 3-d



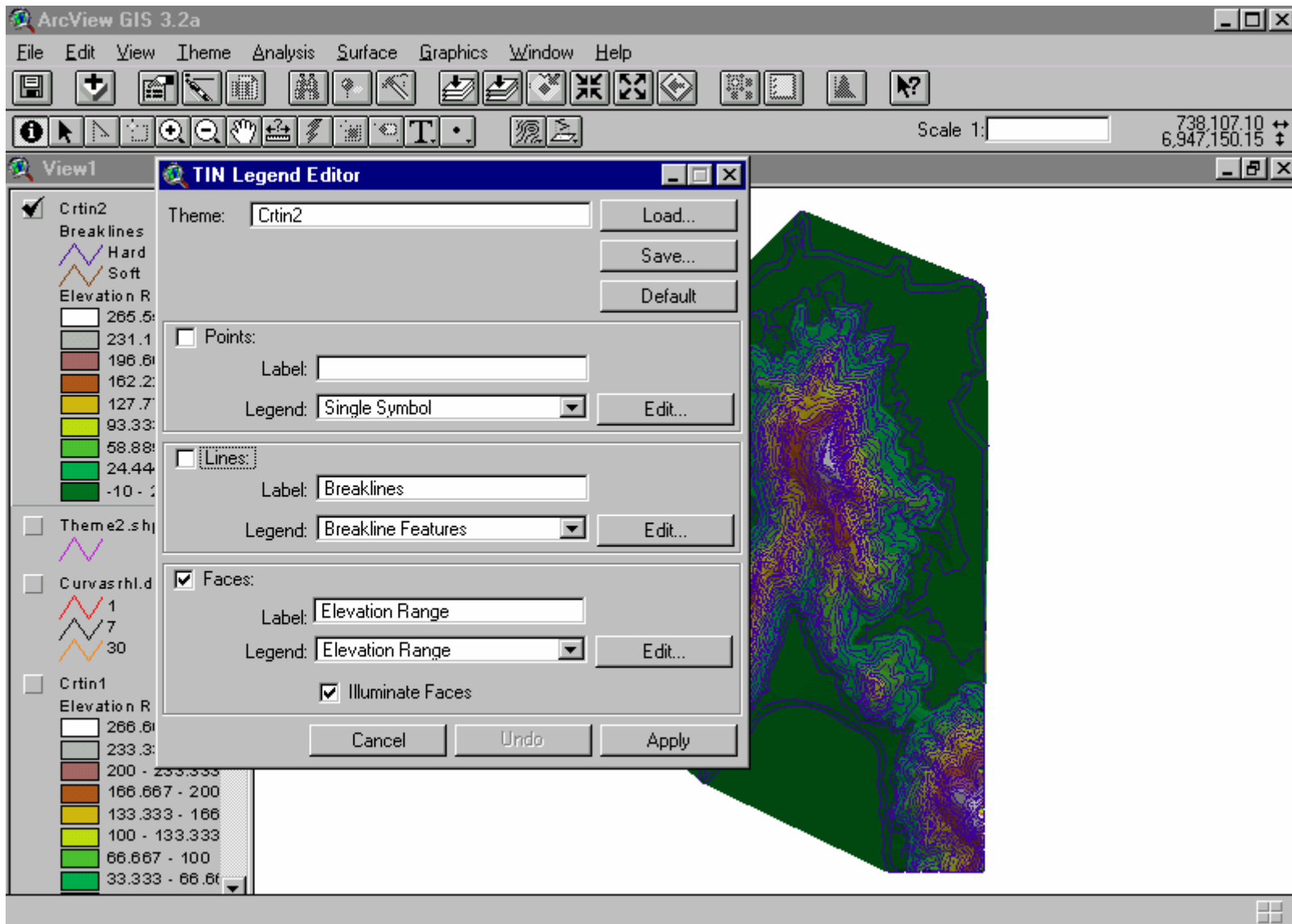
Importar curvas de nível com costa ressaltada



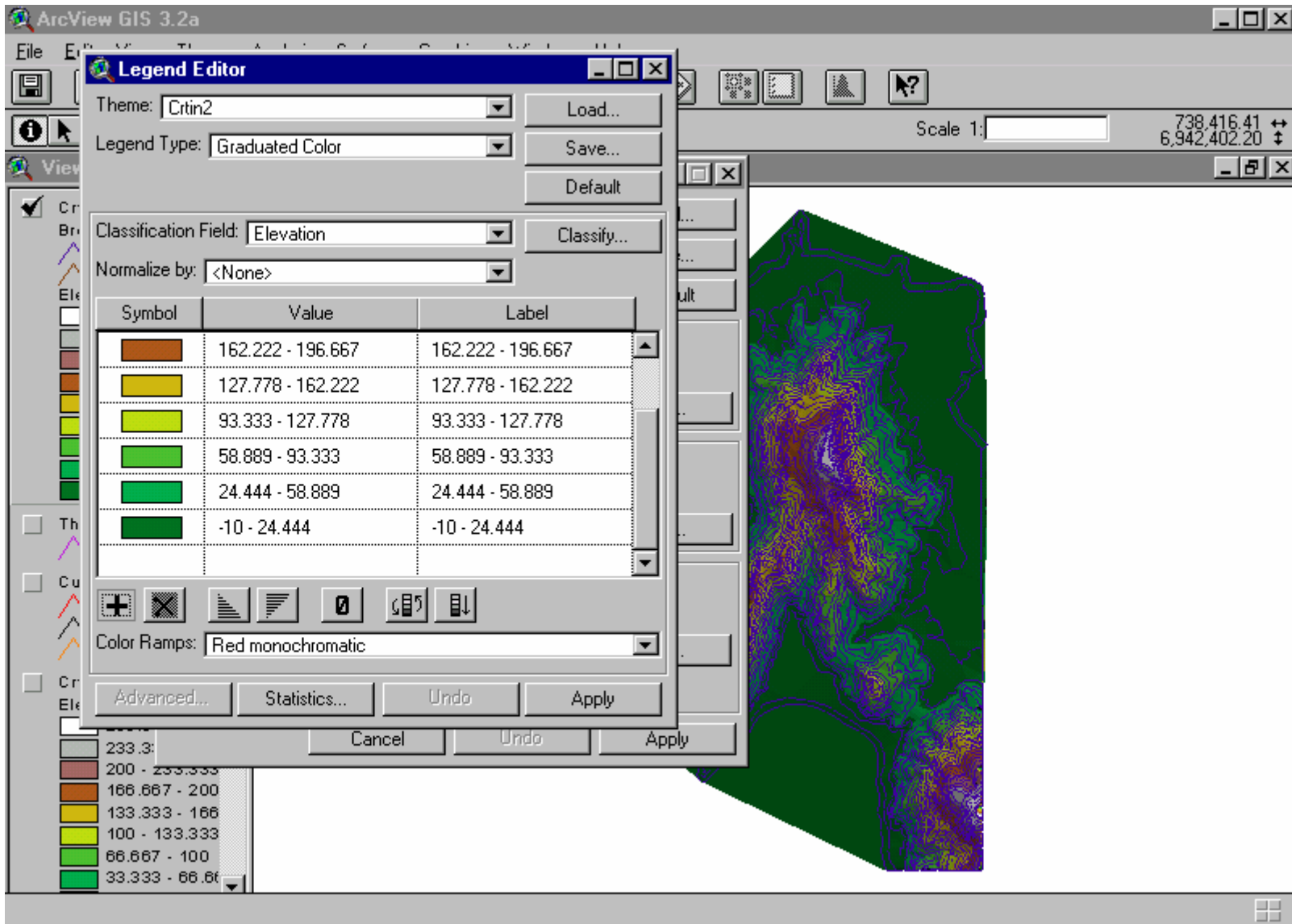
Converter a *.shp

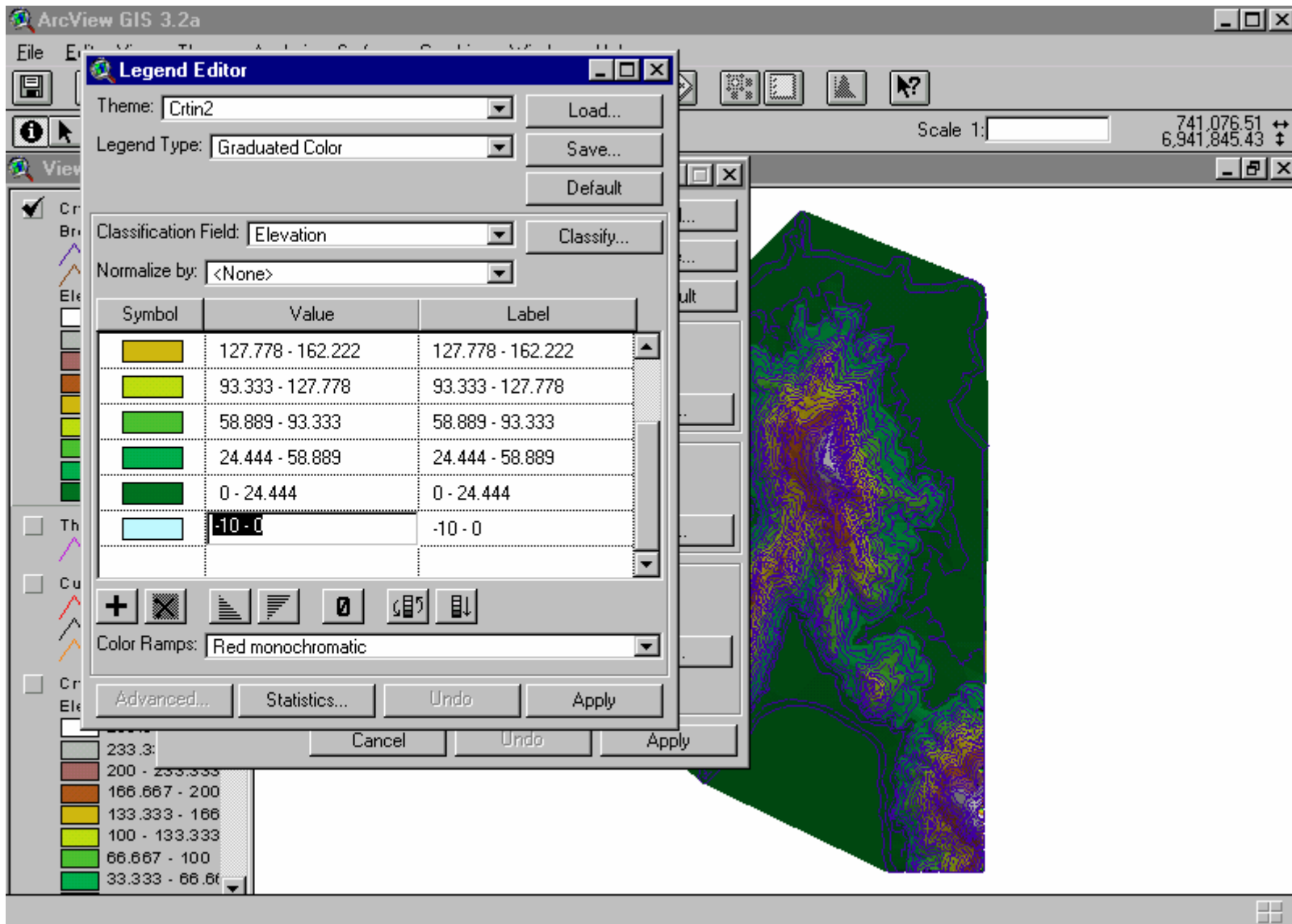


Representação 3-d

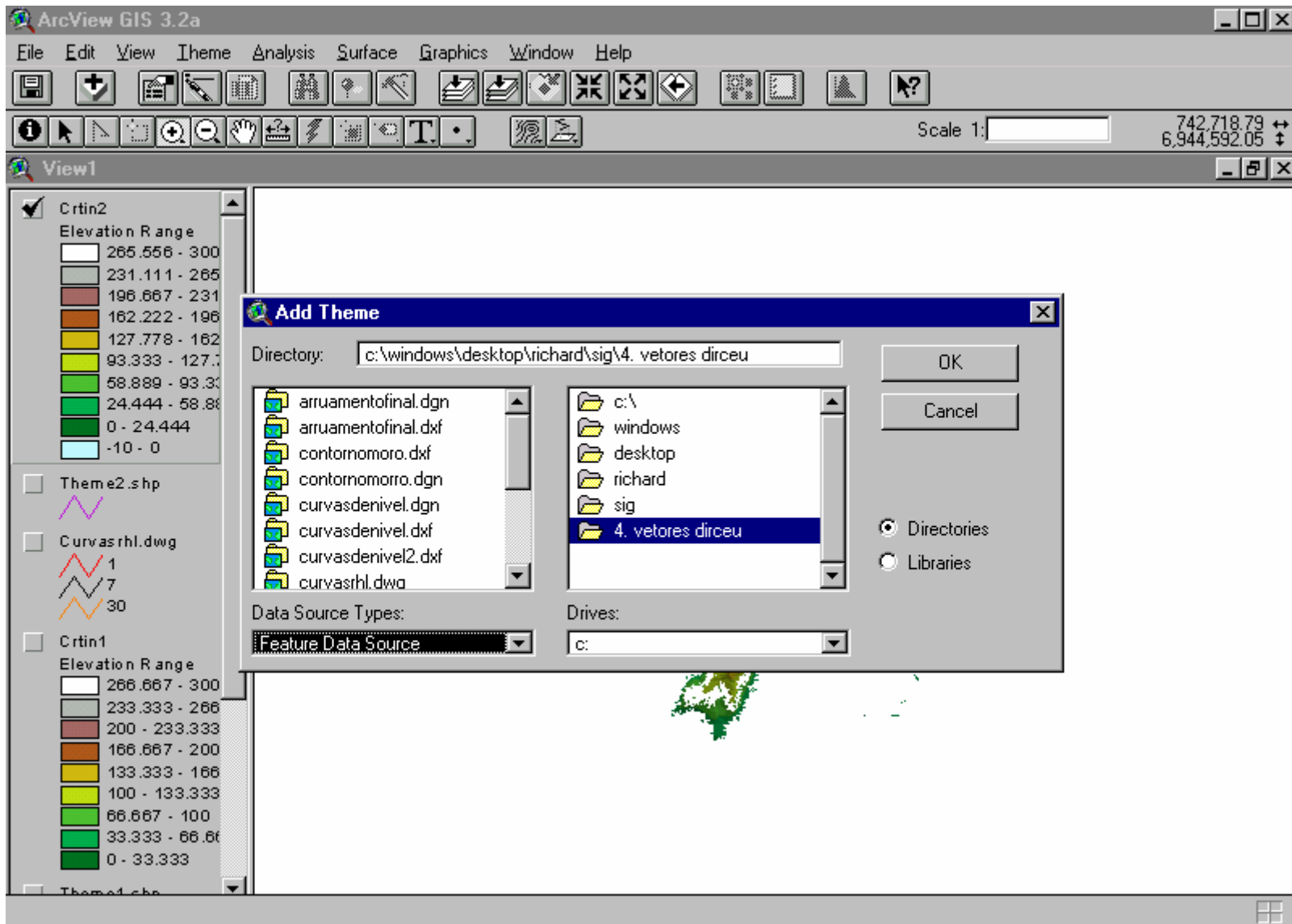


Modificar visualização

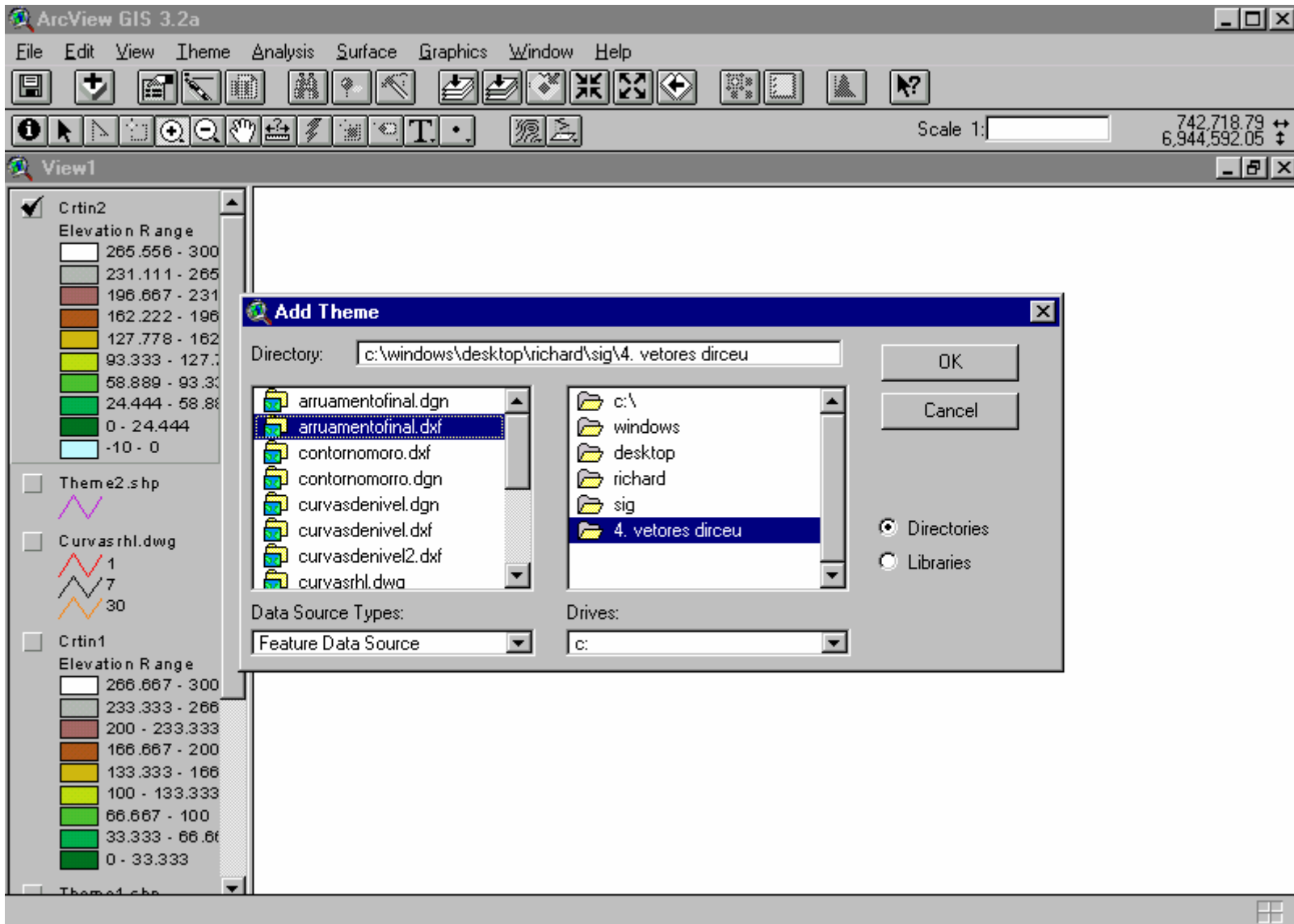


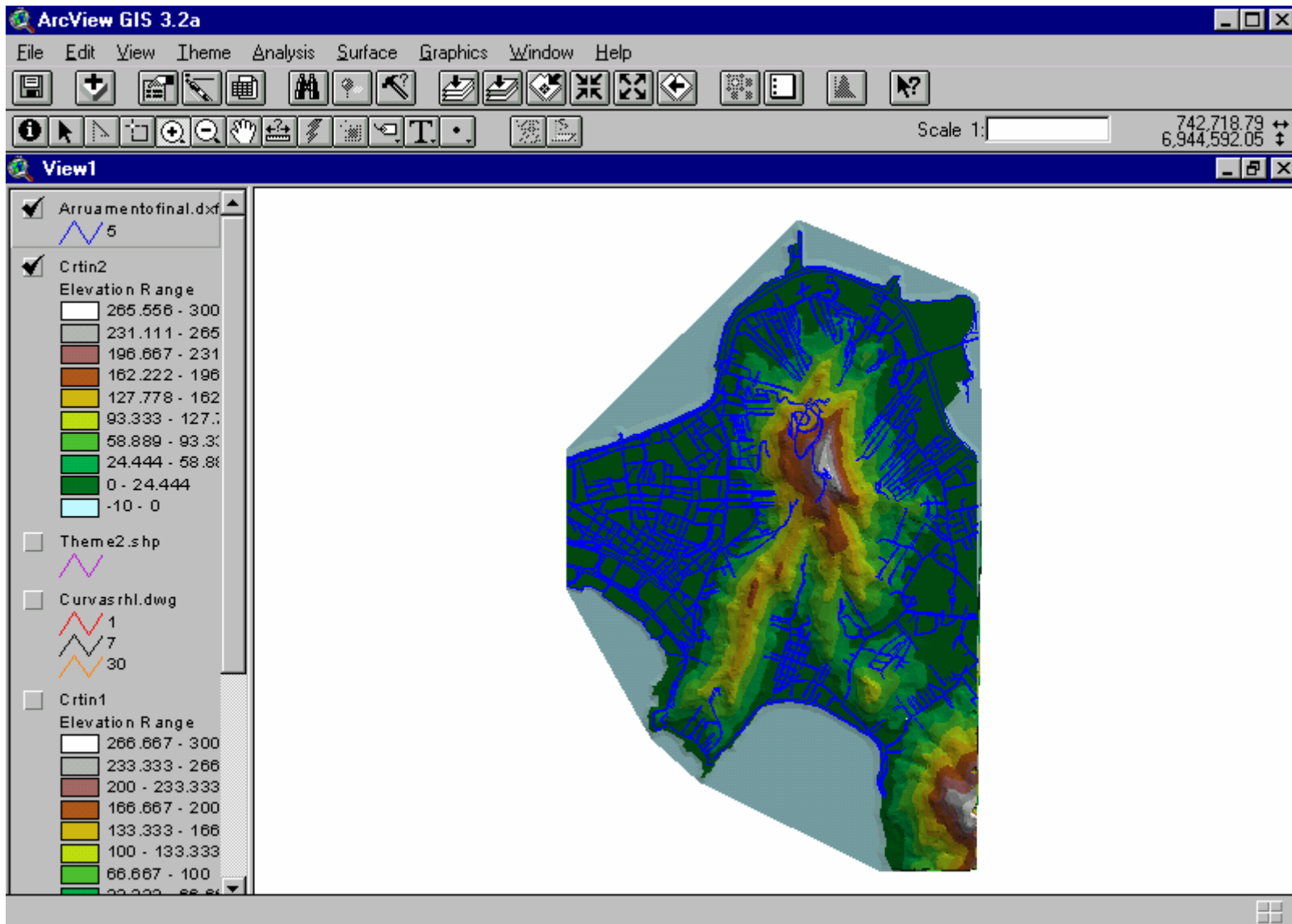


Colocar camadas de valor zero

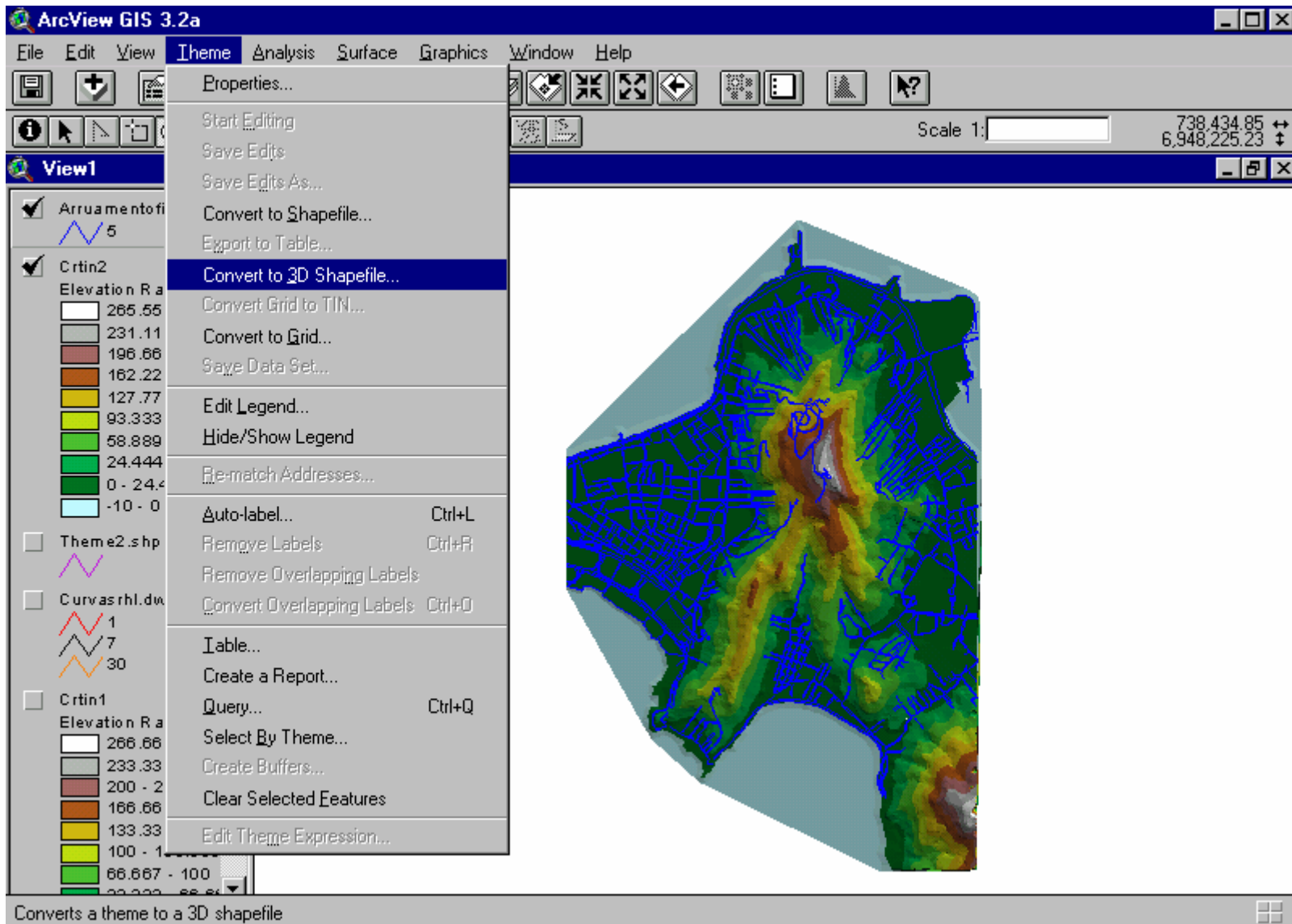


Importar arquivo de ruas

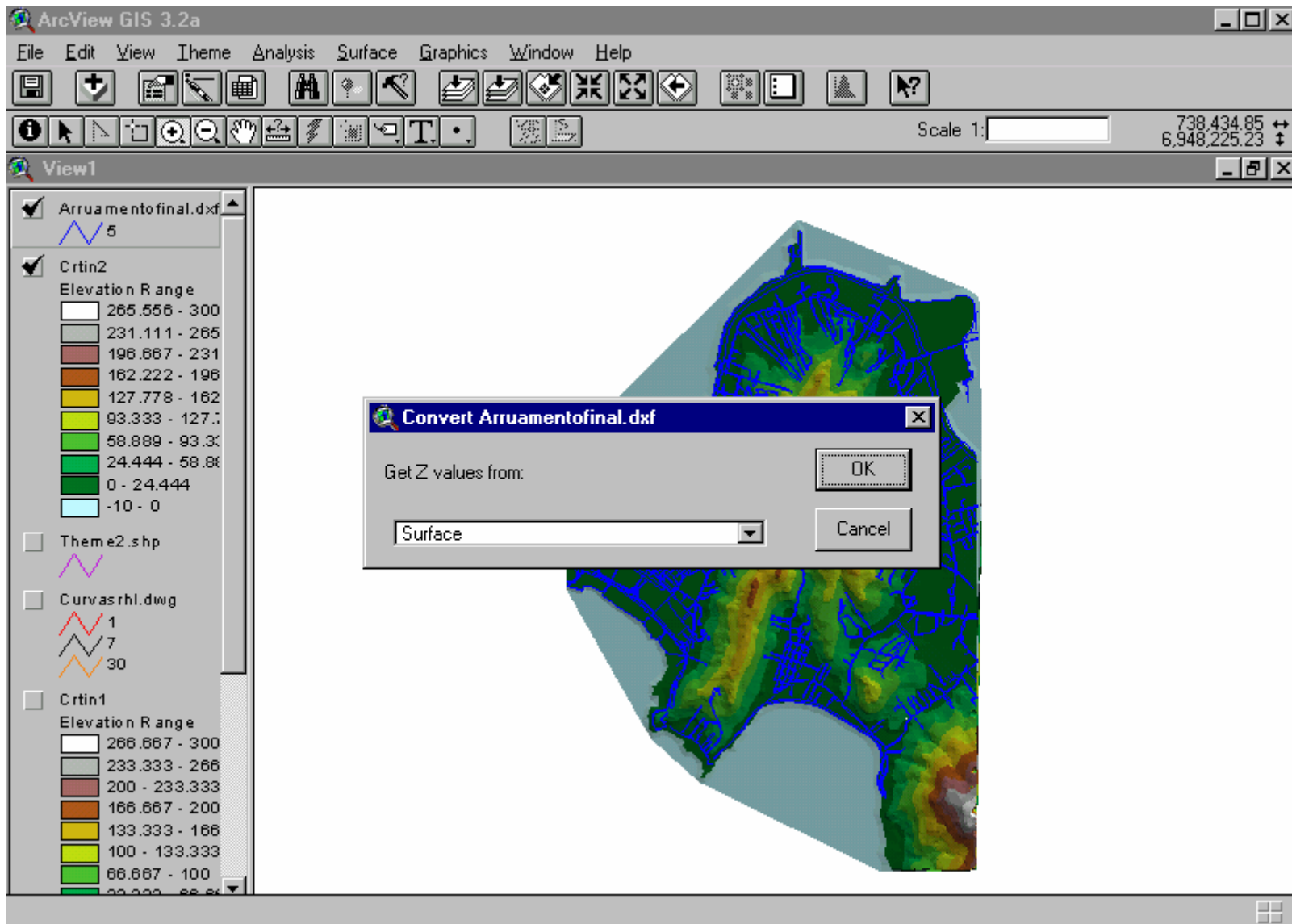




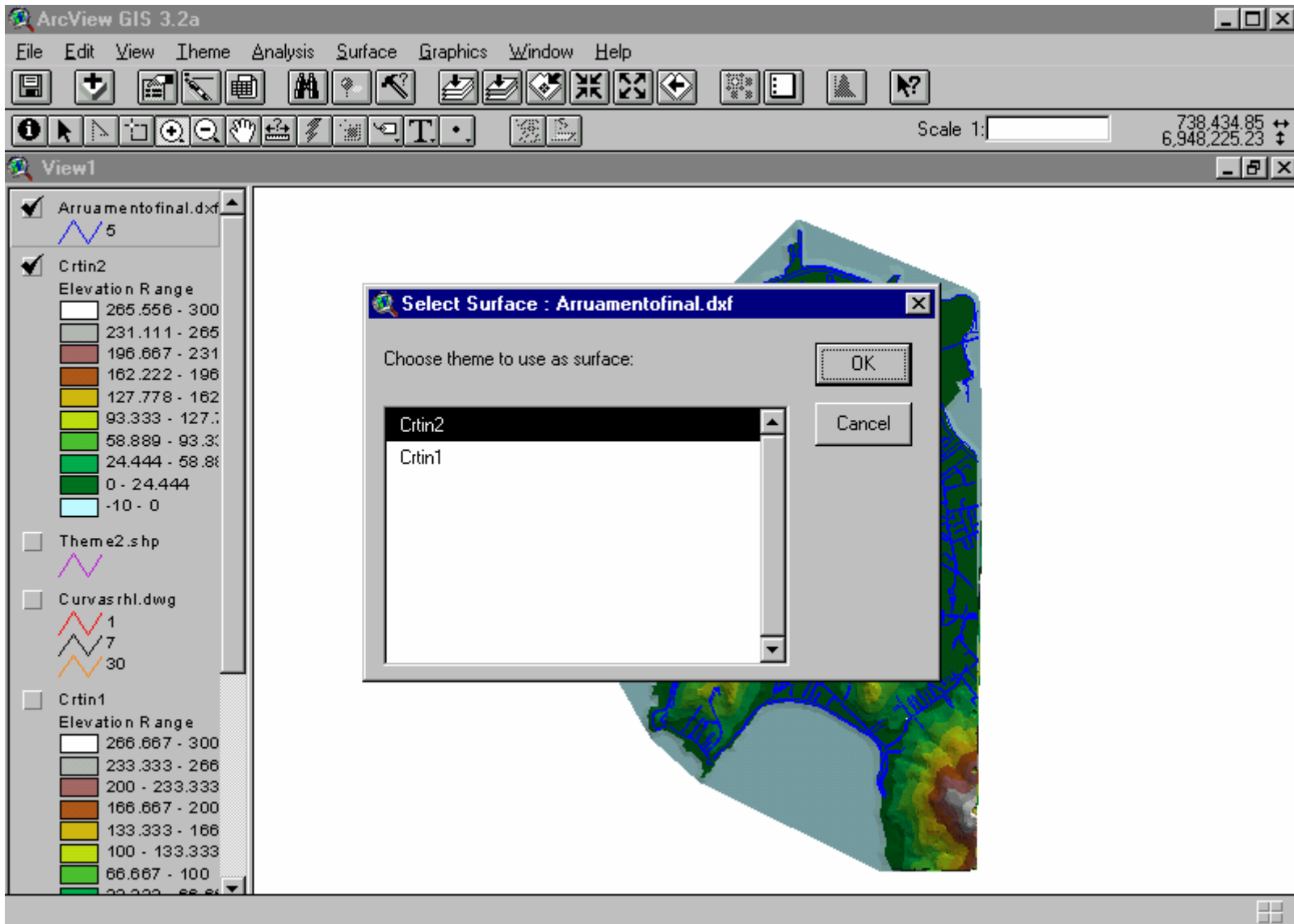
E visualizar ruas

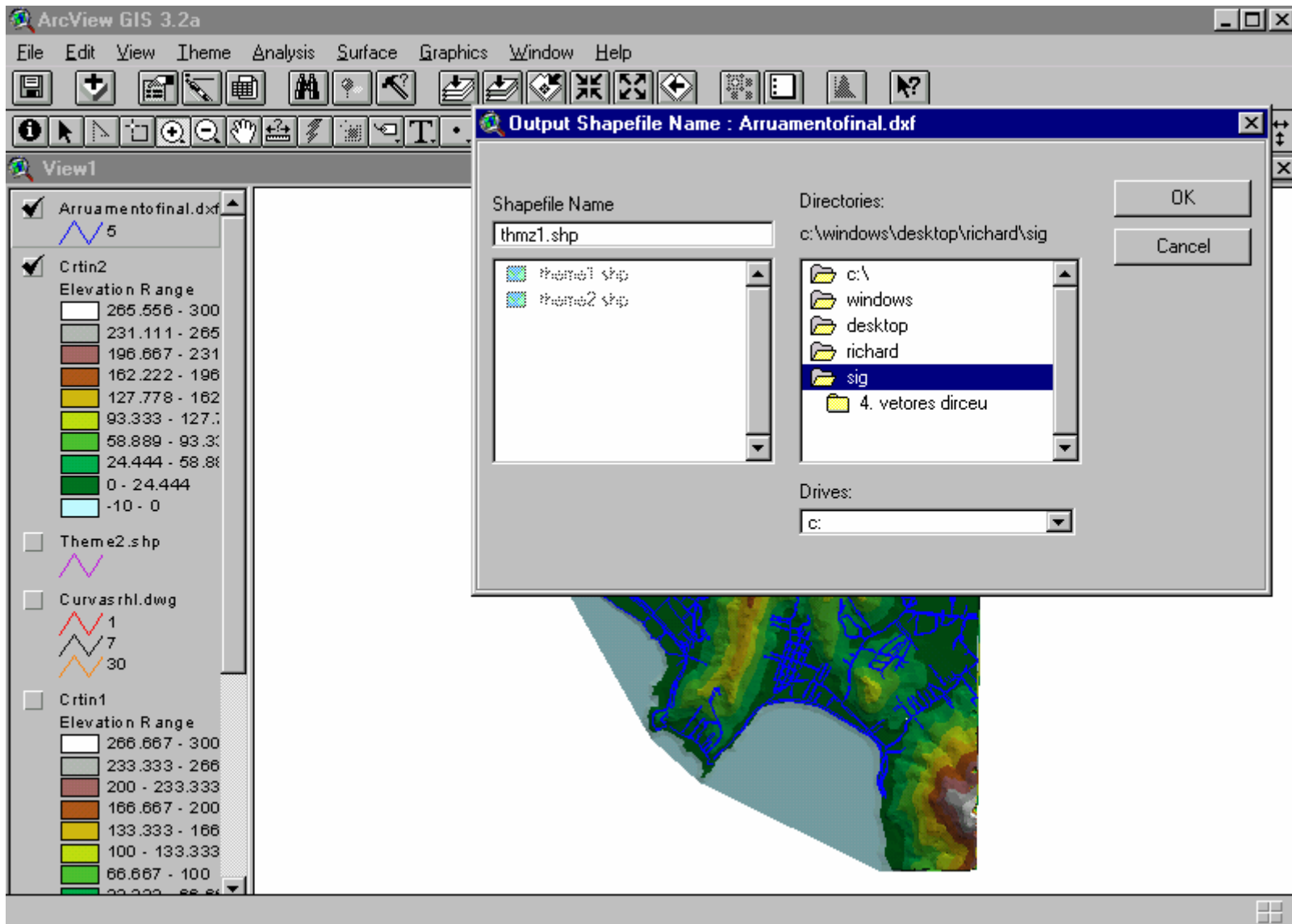


Converter para *.shp em 3-d de ruas

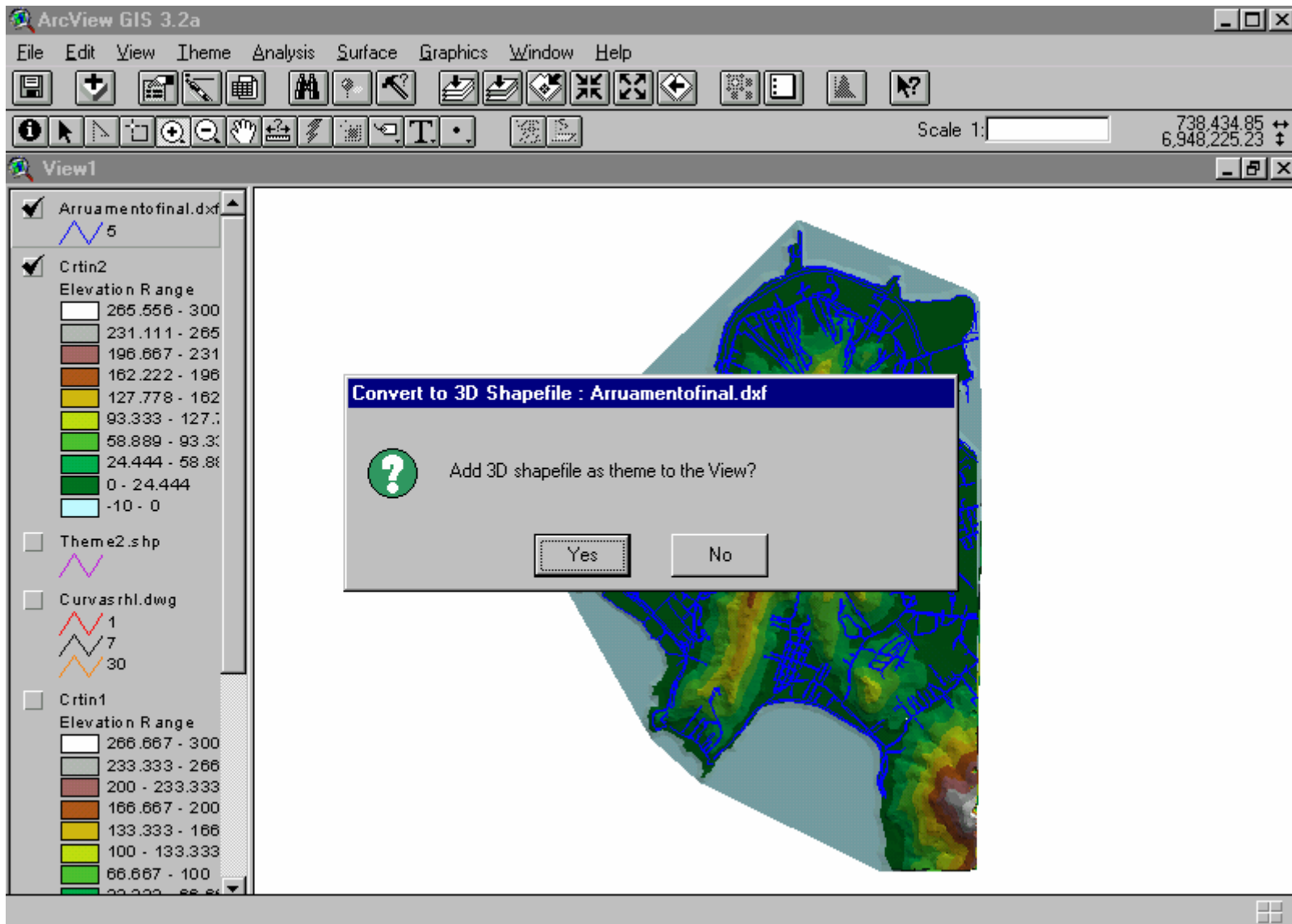


Basear ruas 3-d em modelagem 3-d já criada

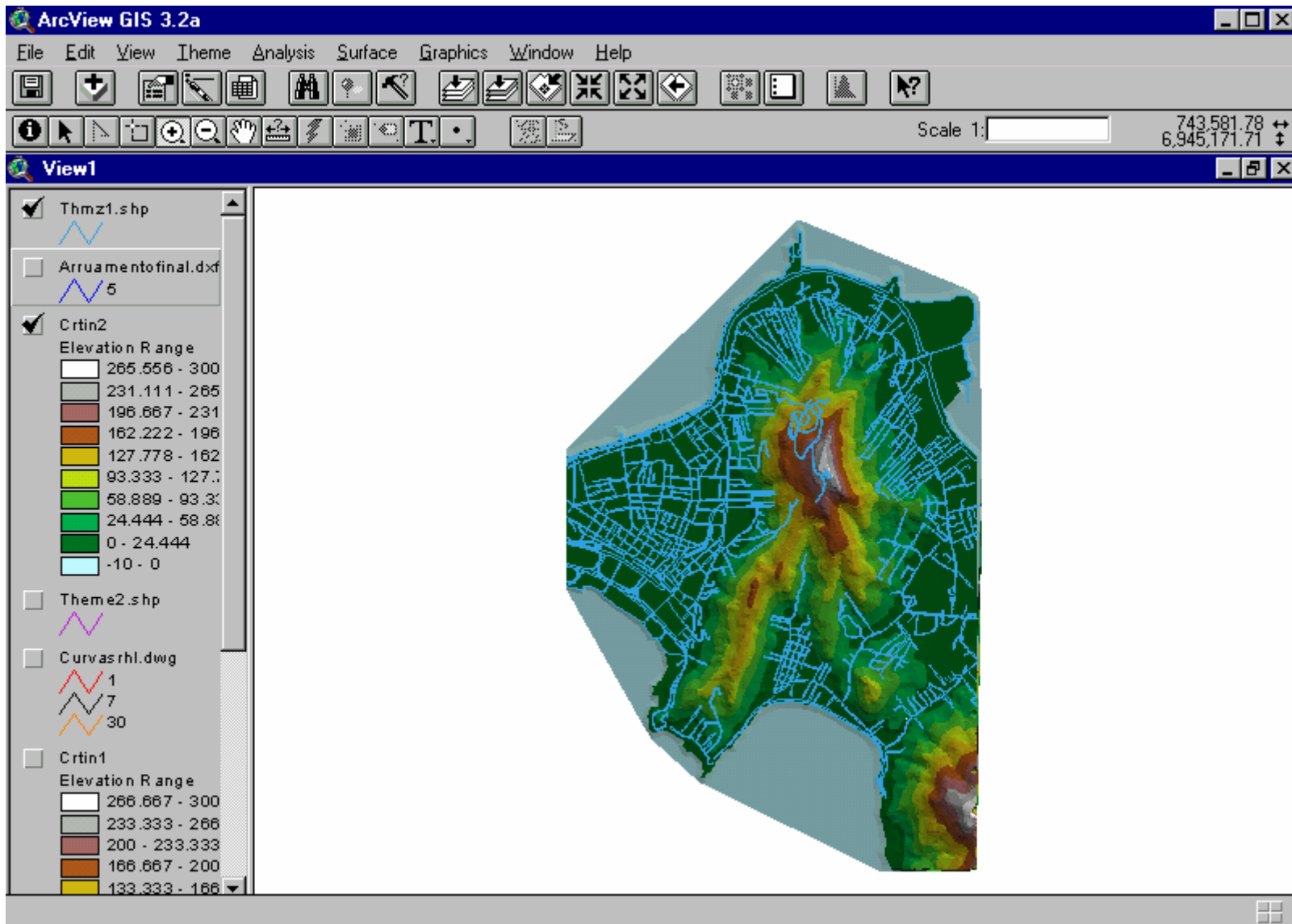




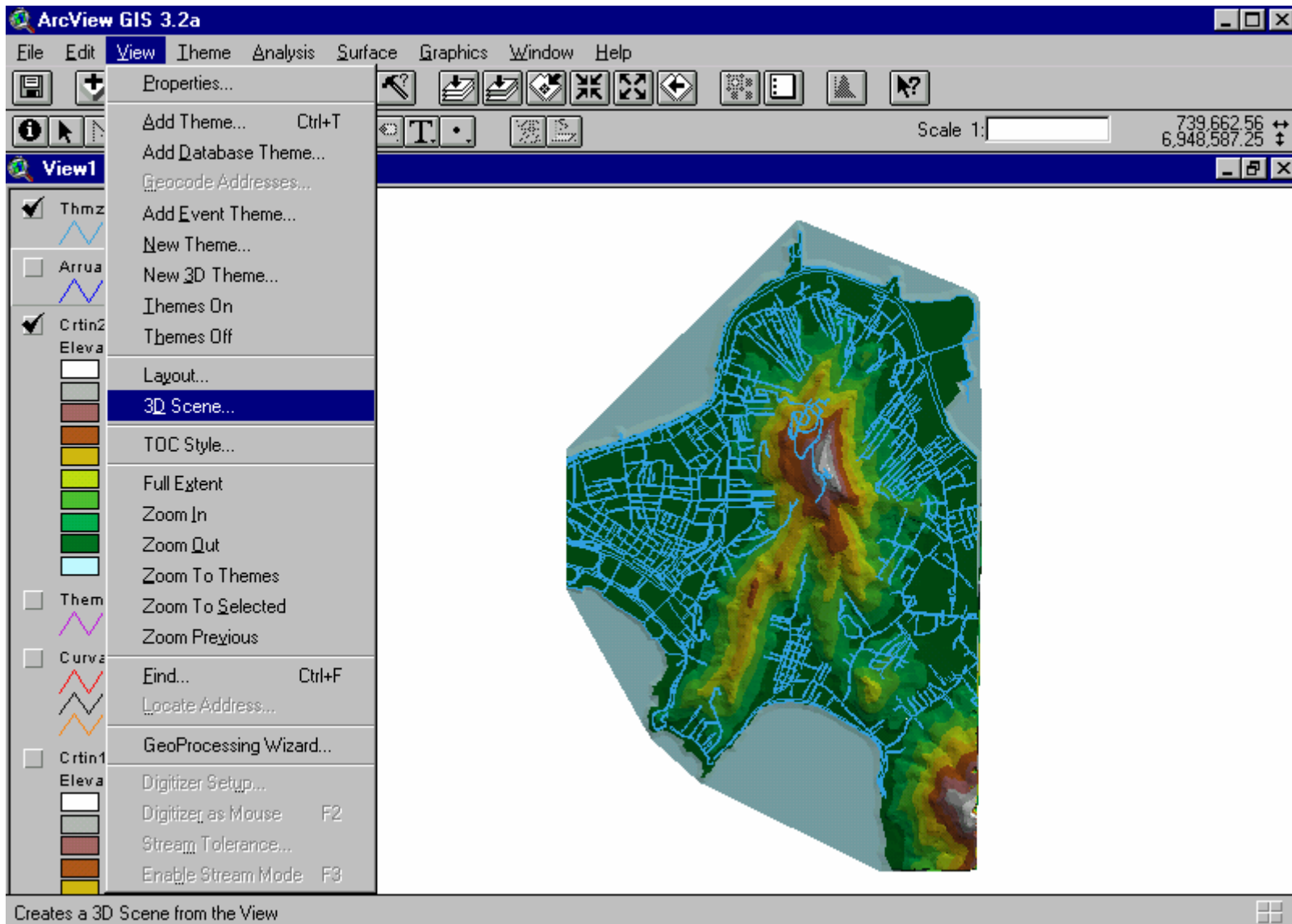
Salvar ruas em 3-d



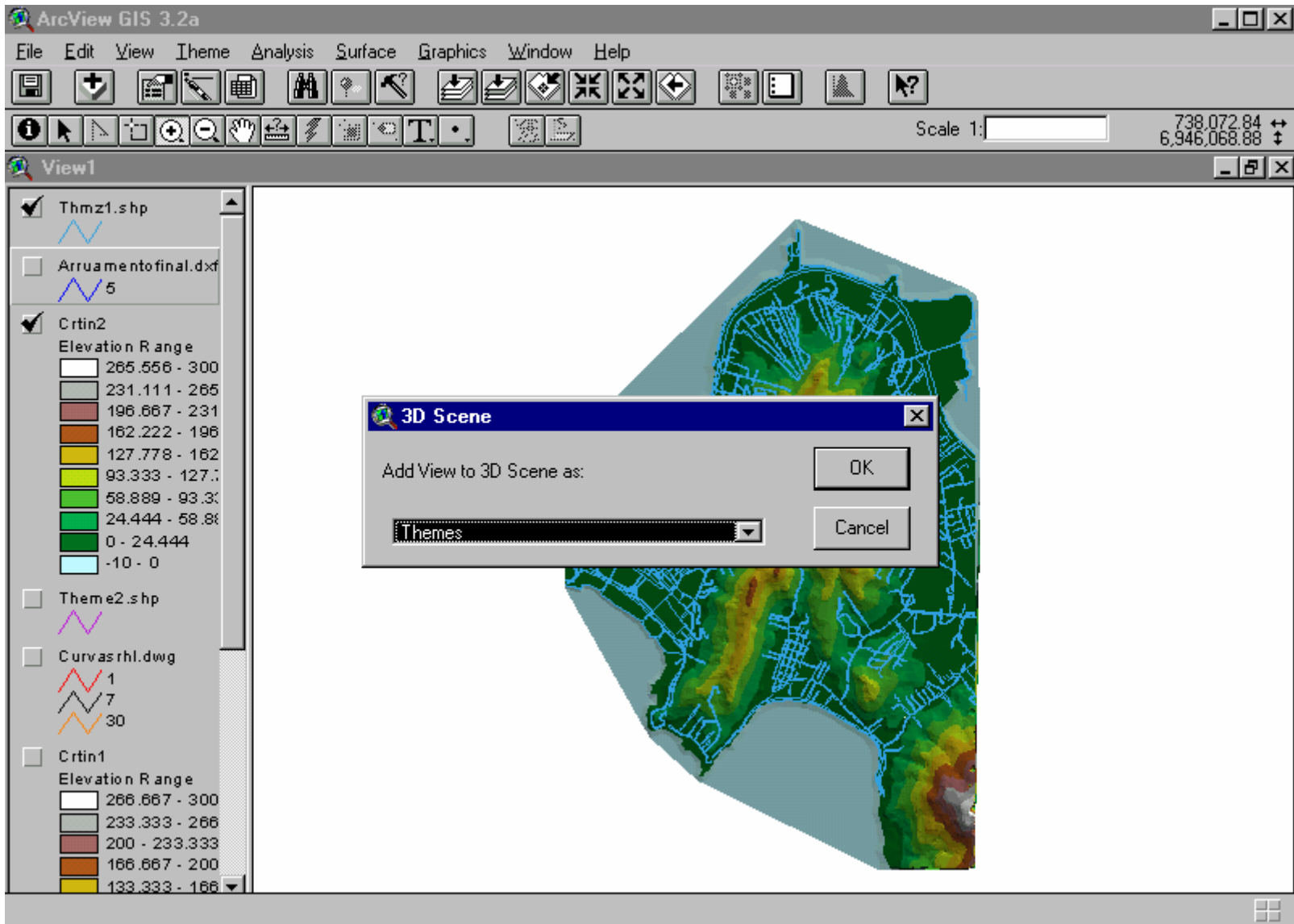
Abrir ruas em 3-d

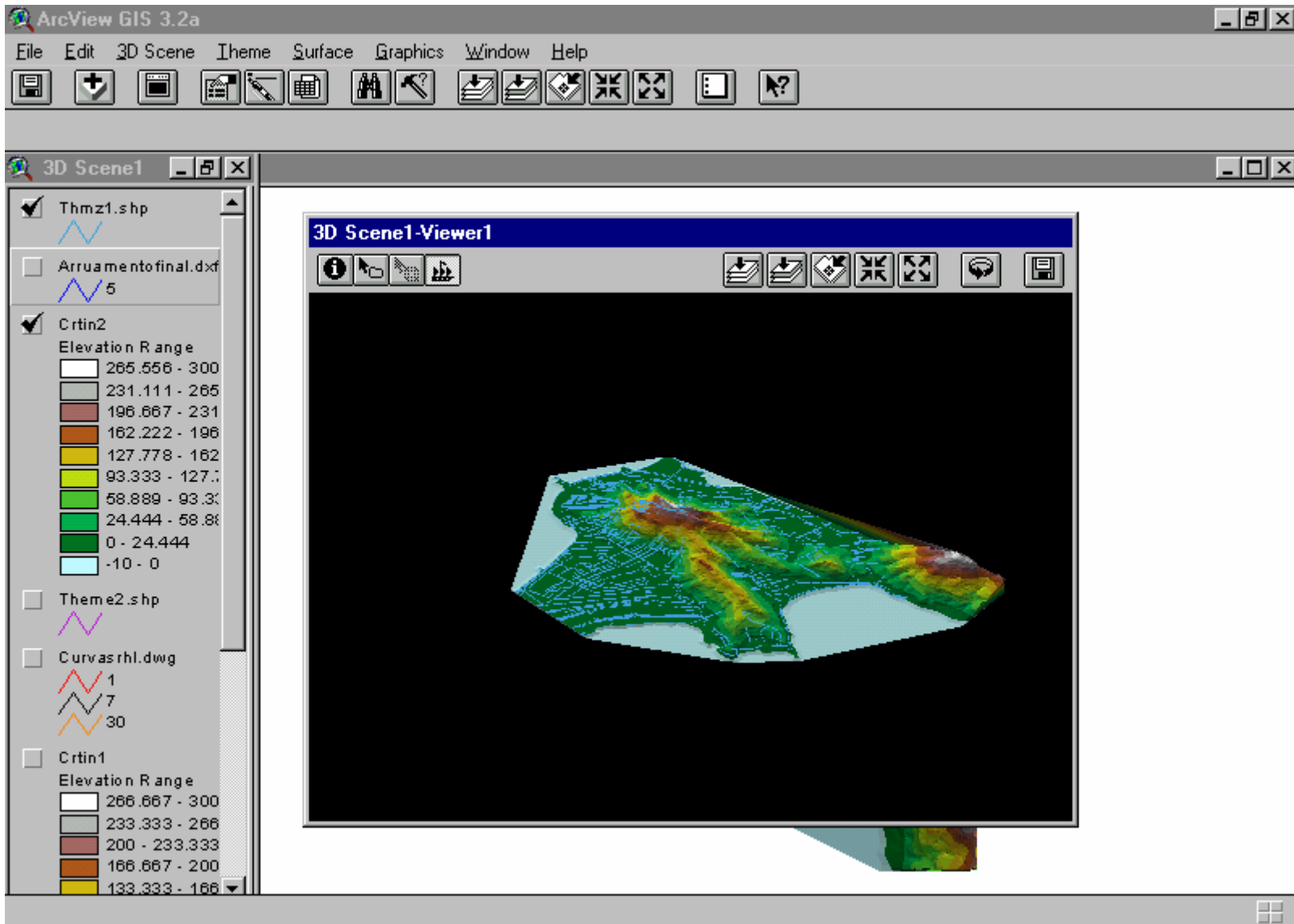


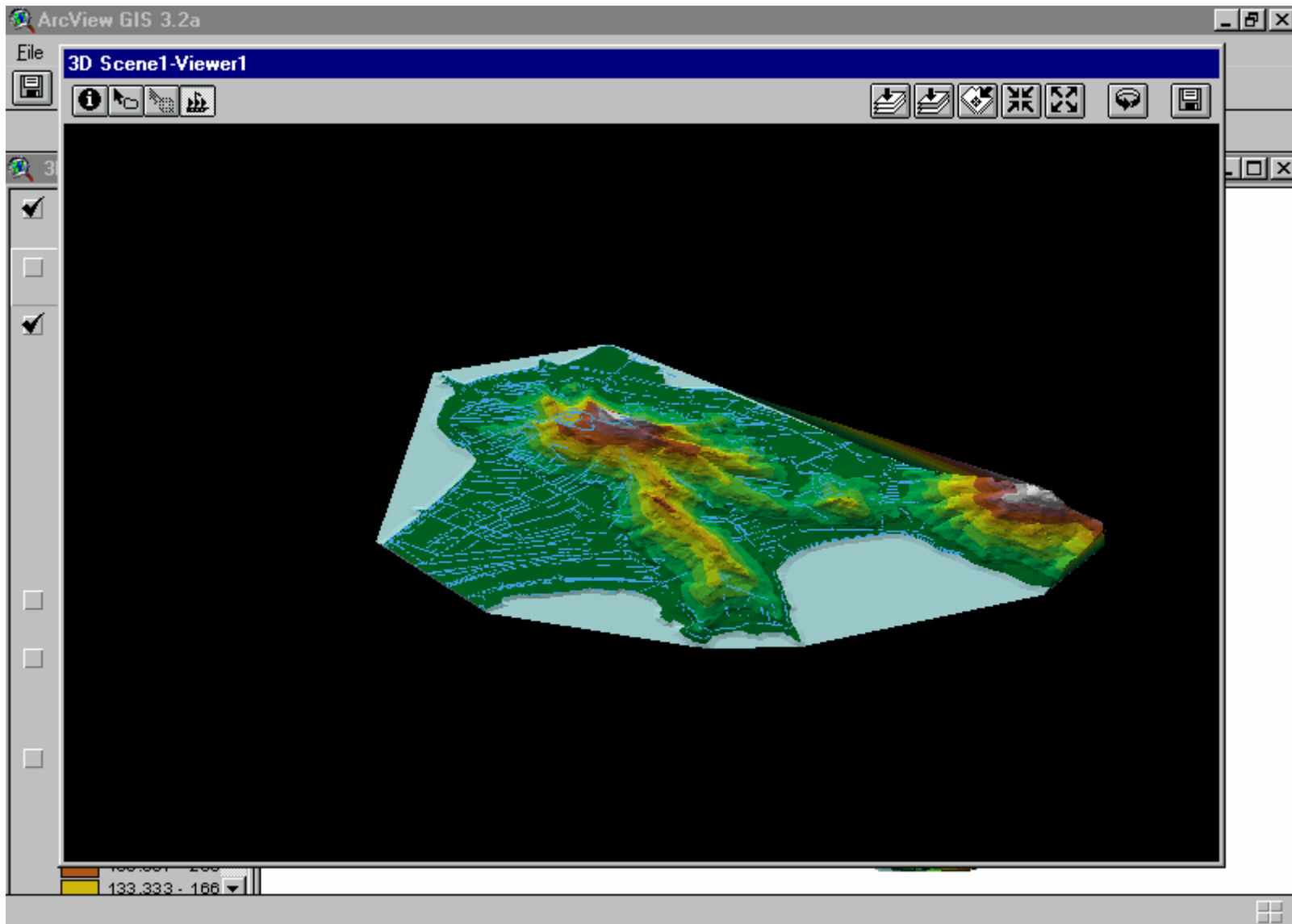
Visualizar ruas em 3-d



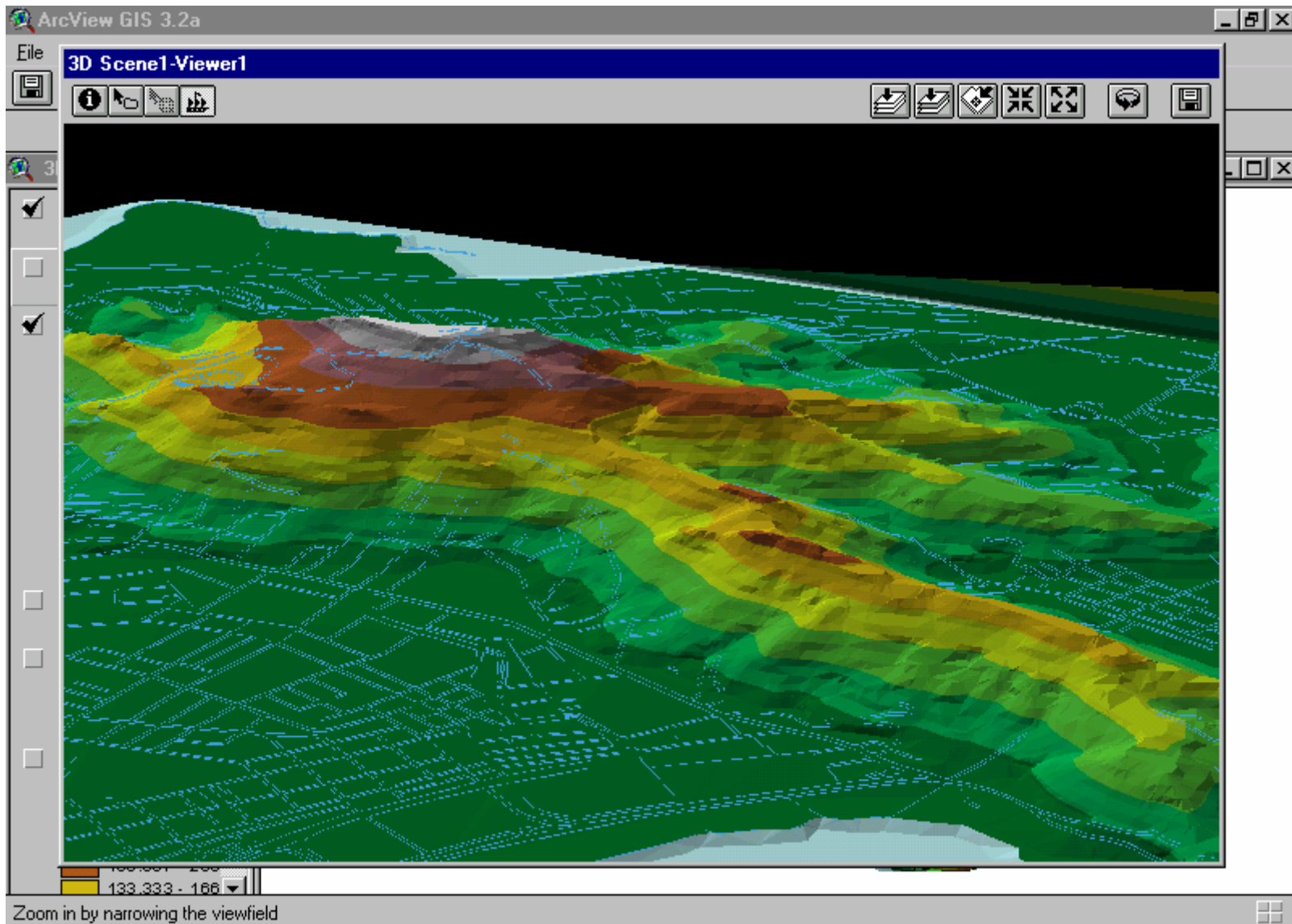
Criar maquete em 3-d



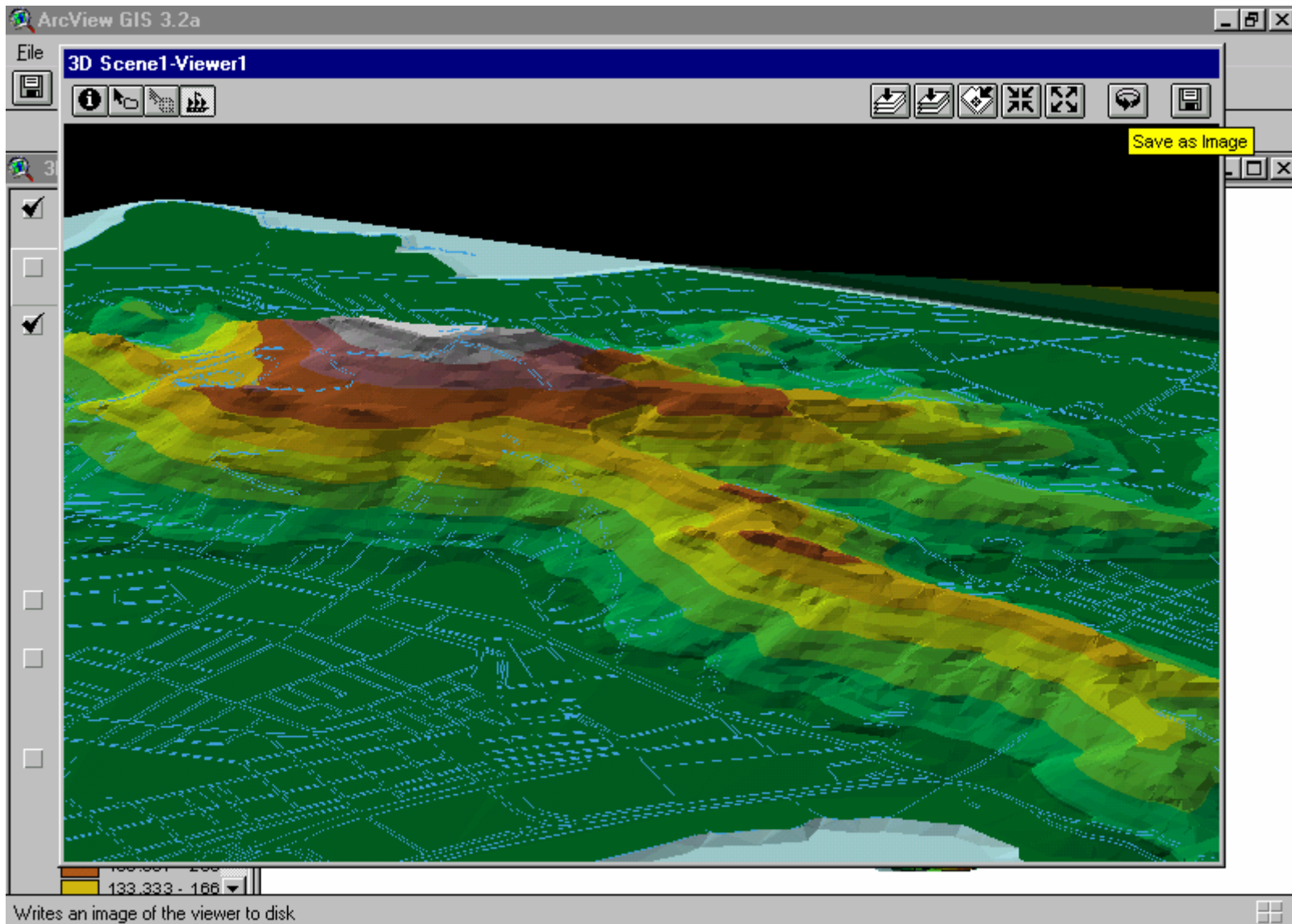




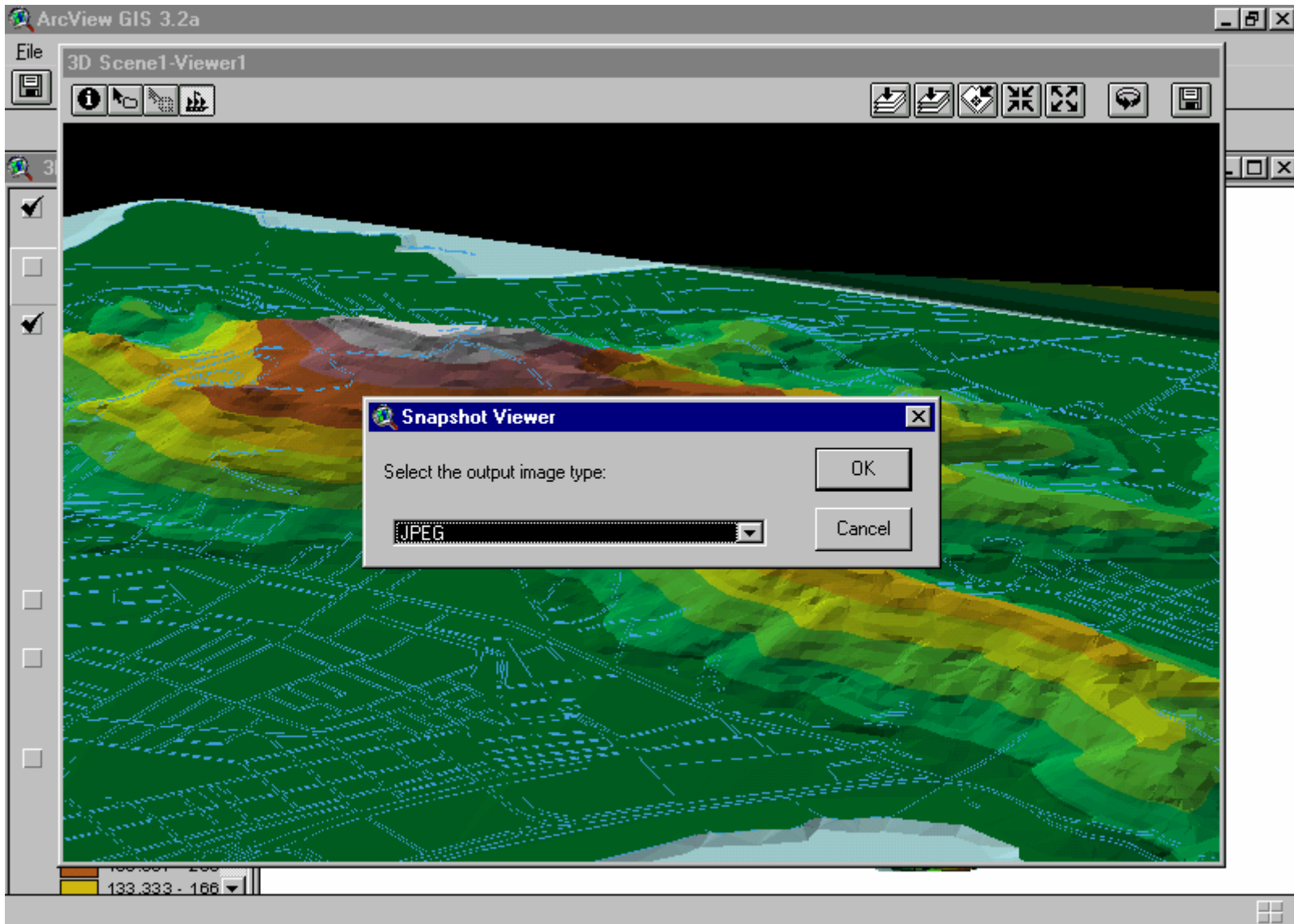
Ampliar janela

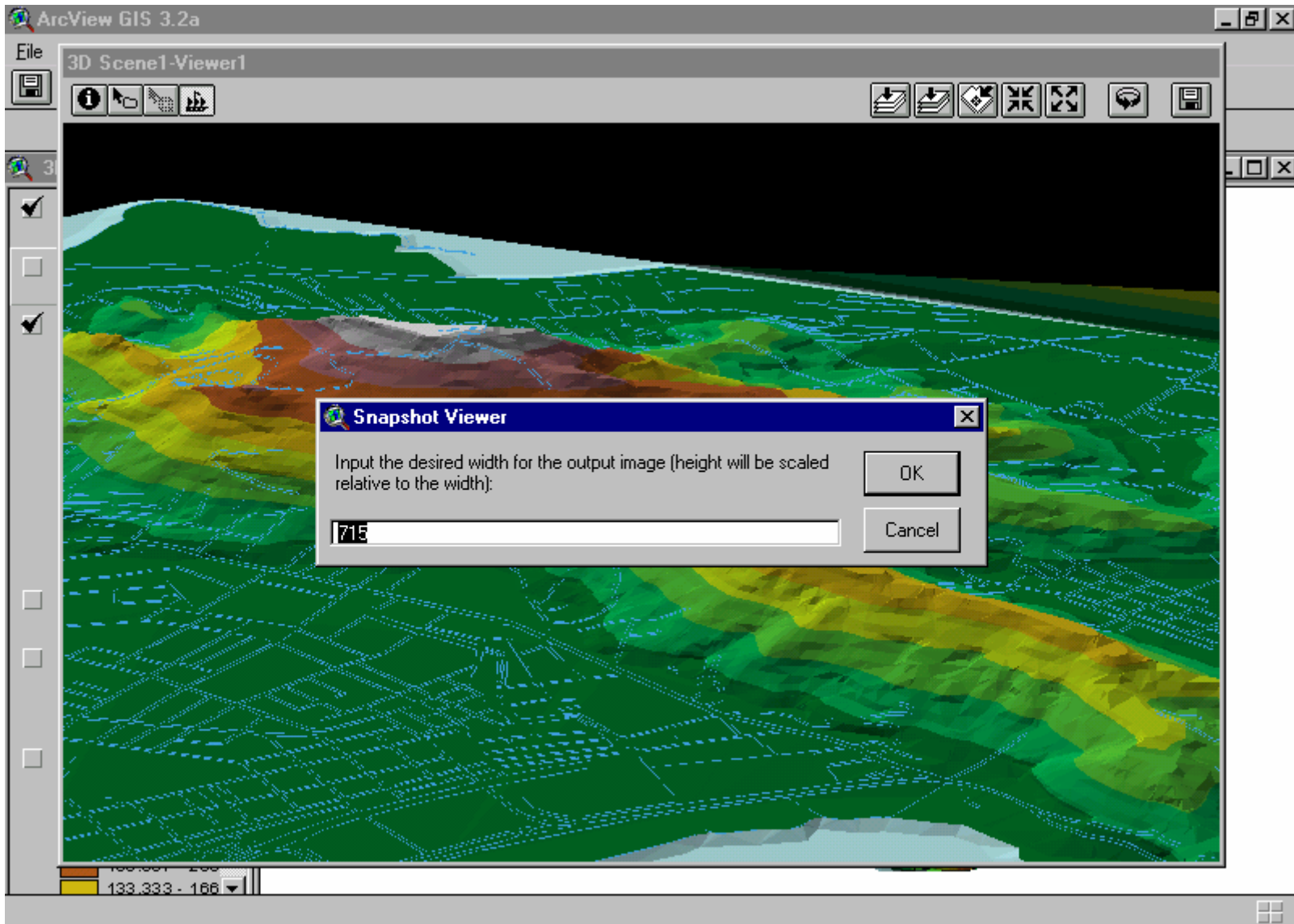


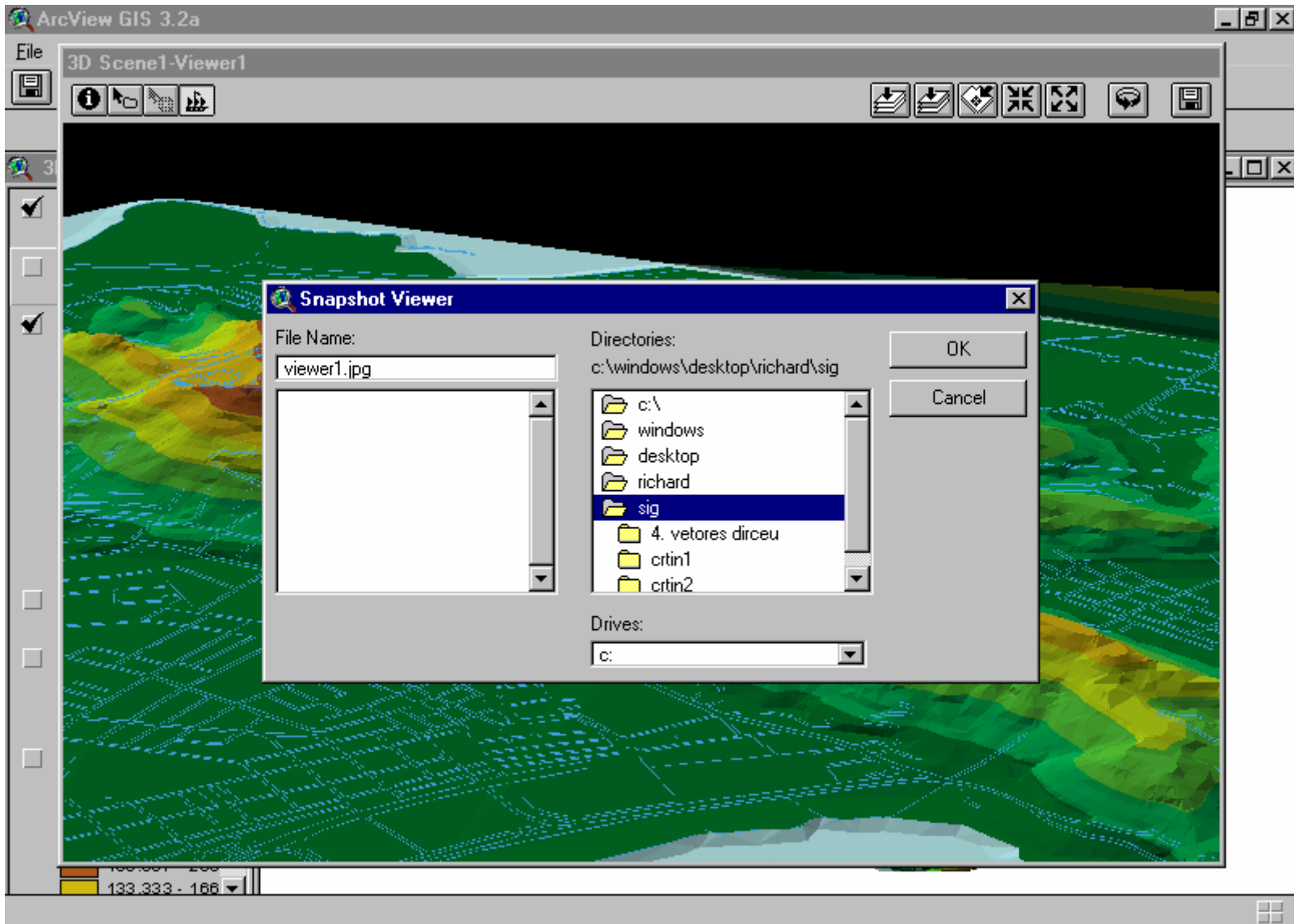
Aumentar visualização

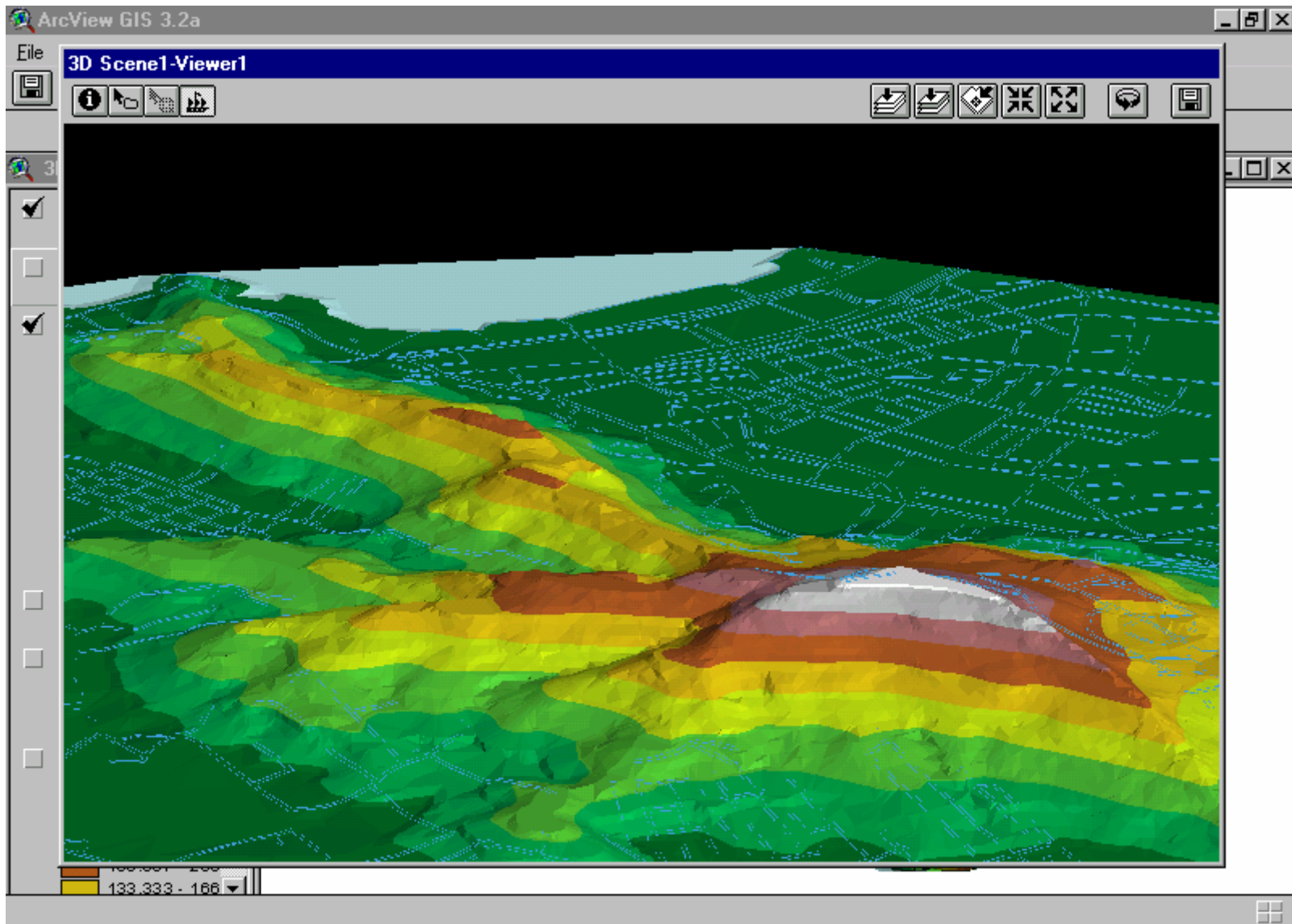


Salvar imagem 3-d

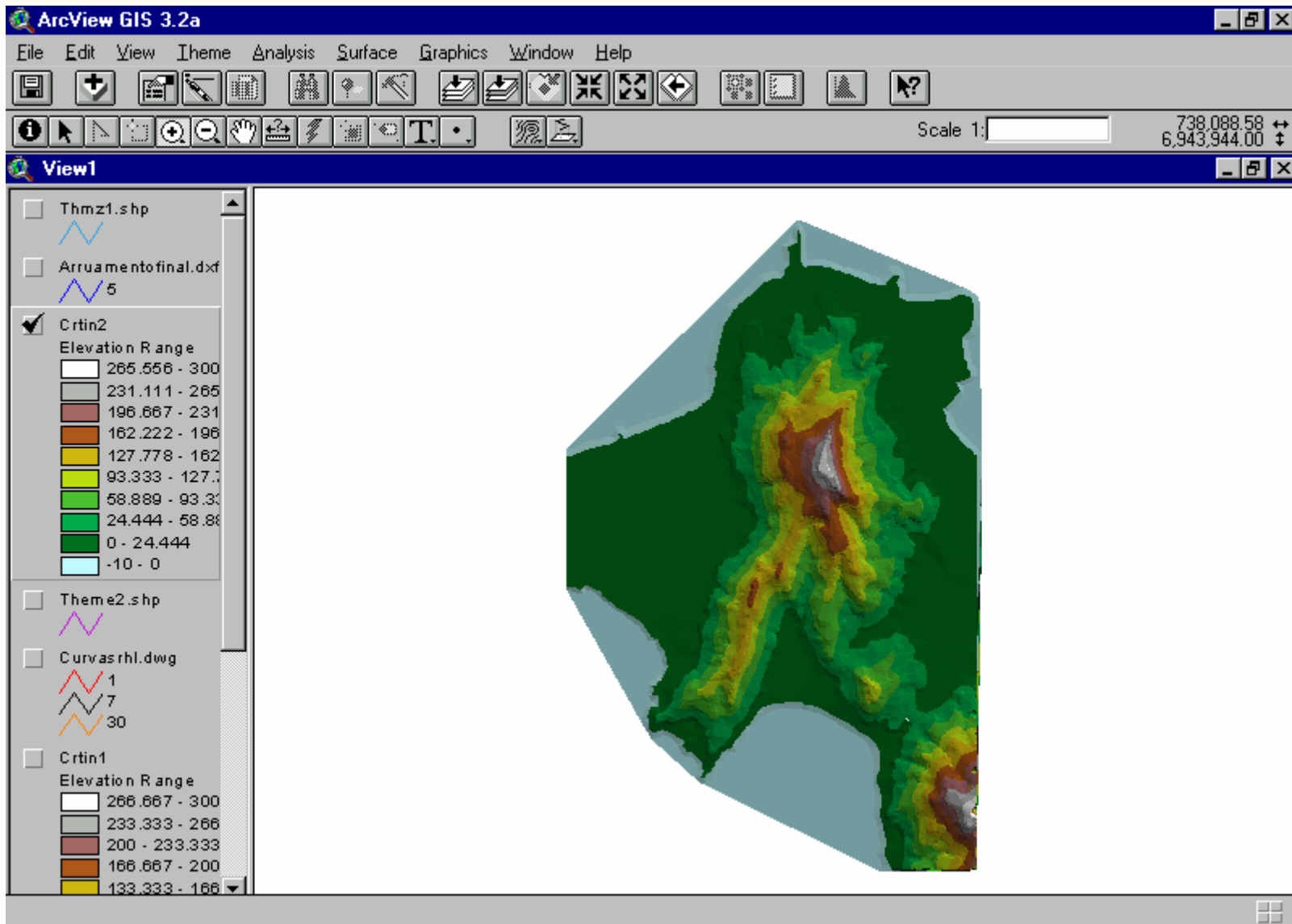




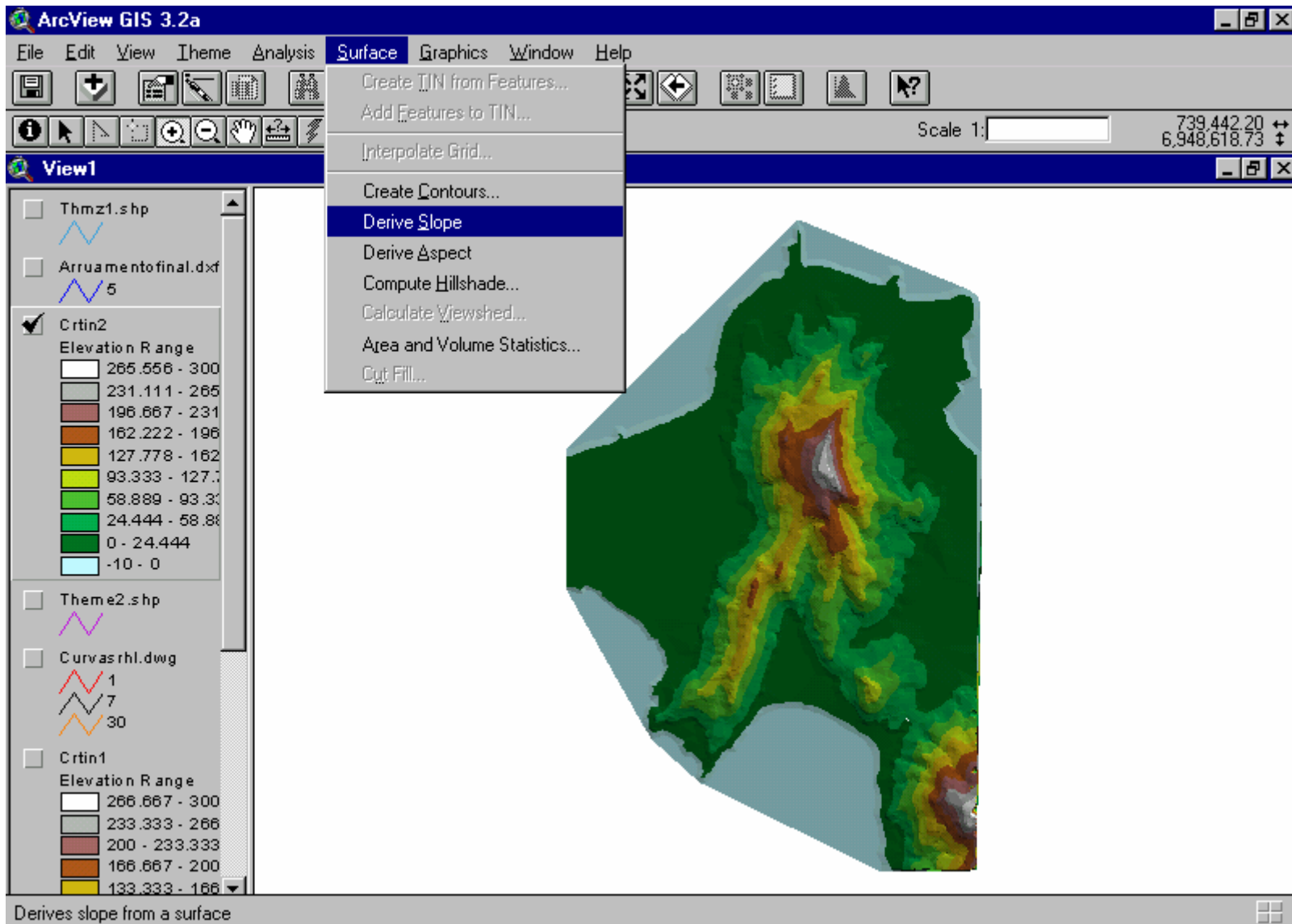




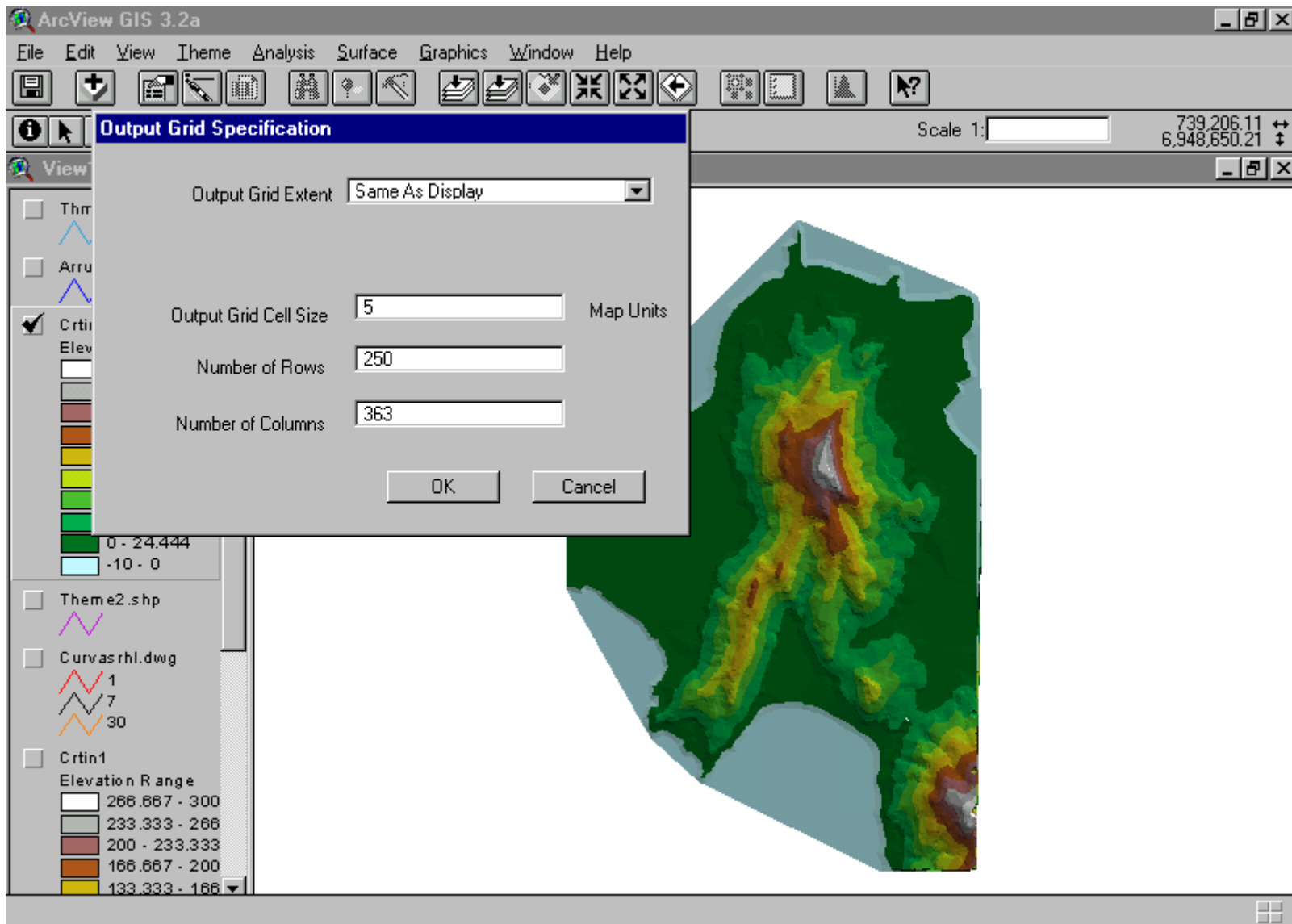
Girar maquete para ver outro ponto de vista



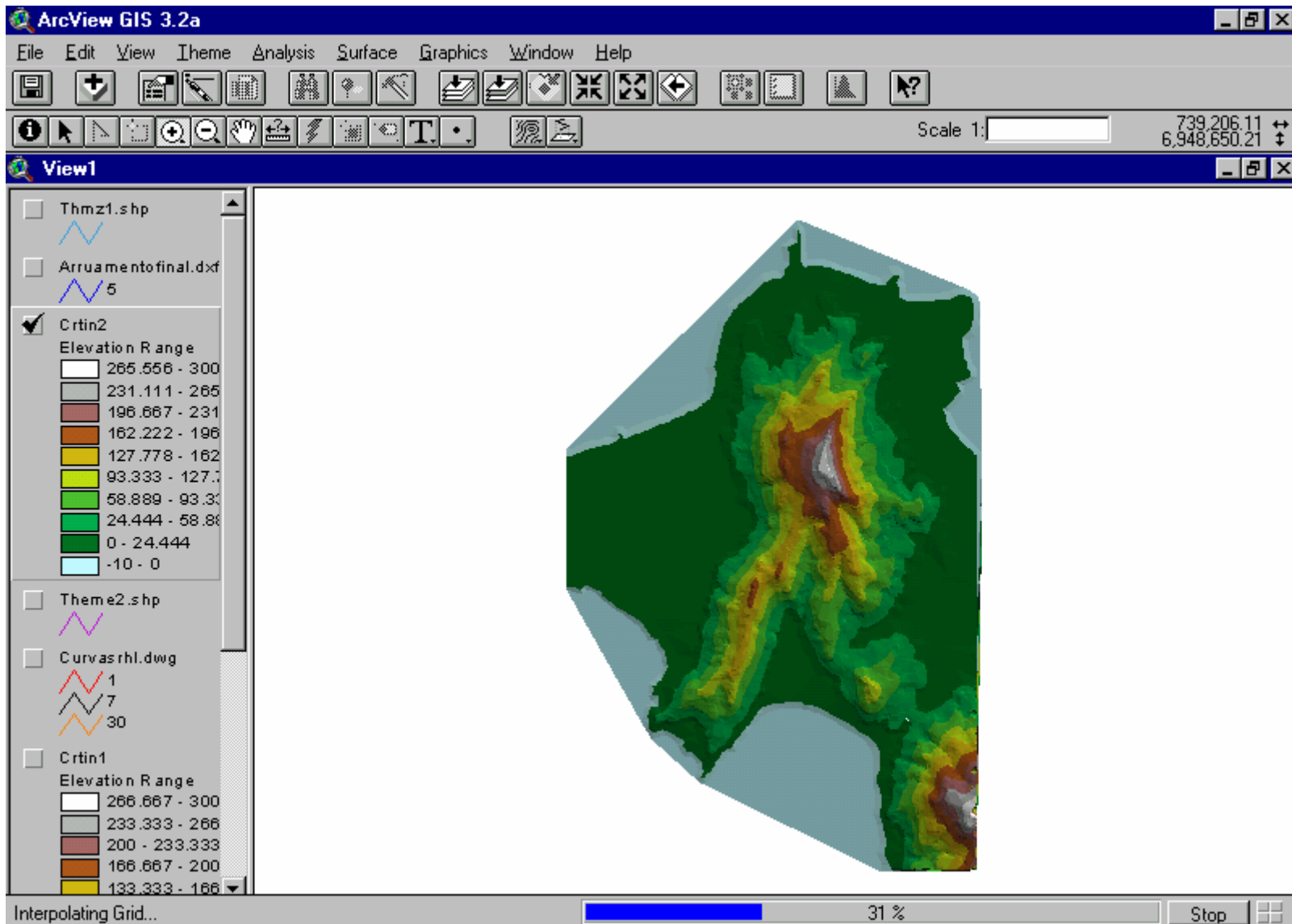
Fechar maquete



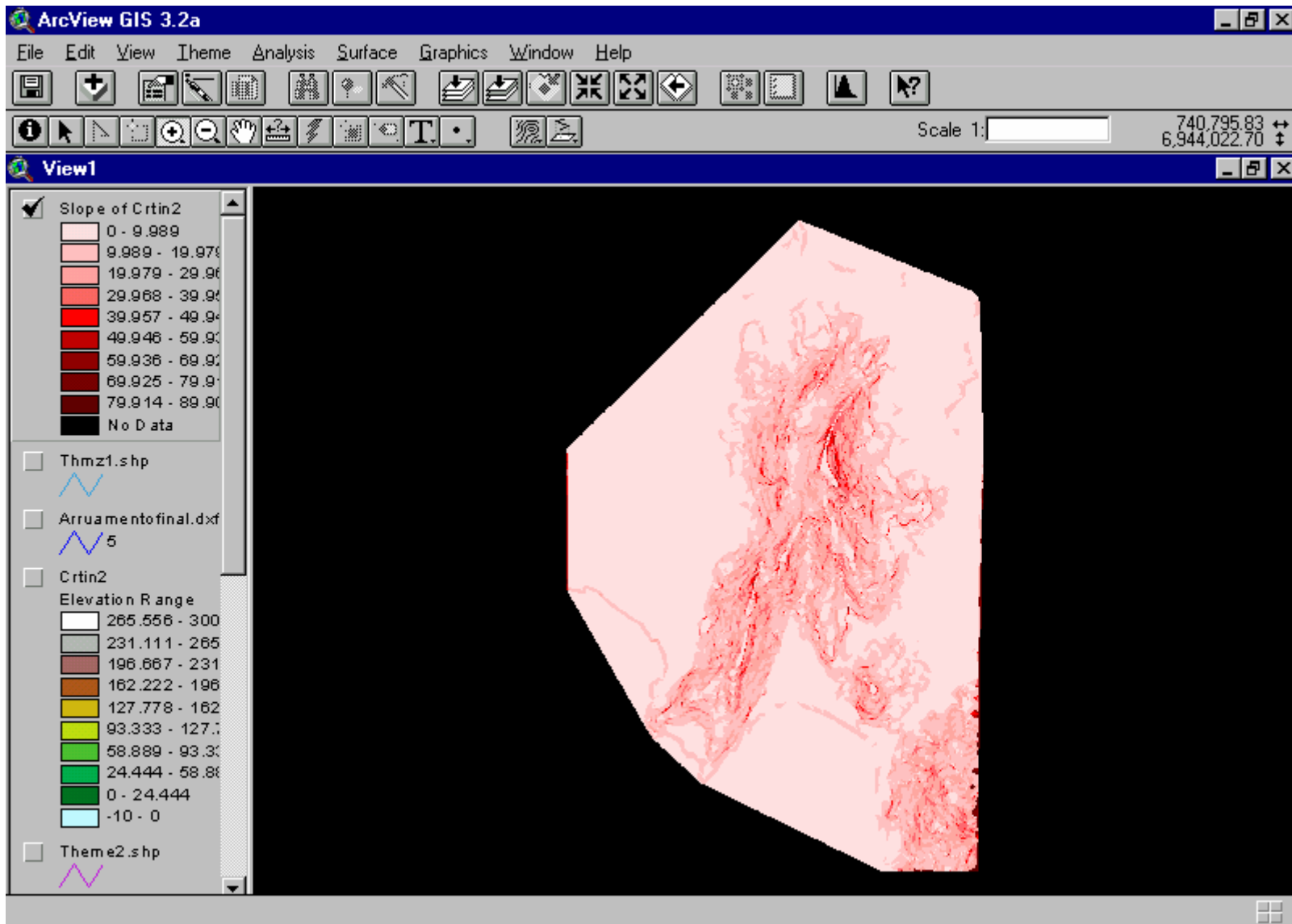
Calcular declividades



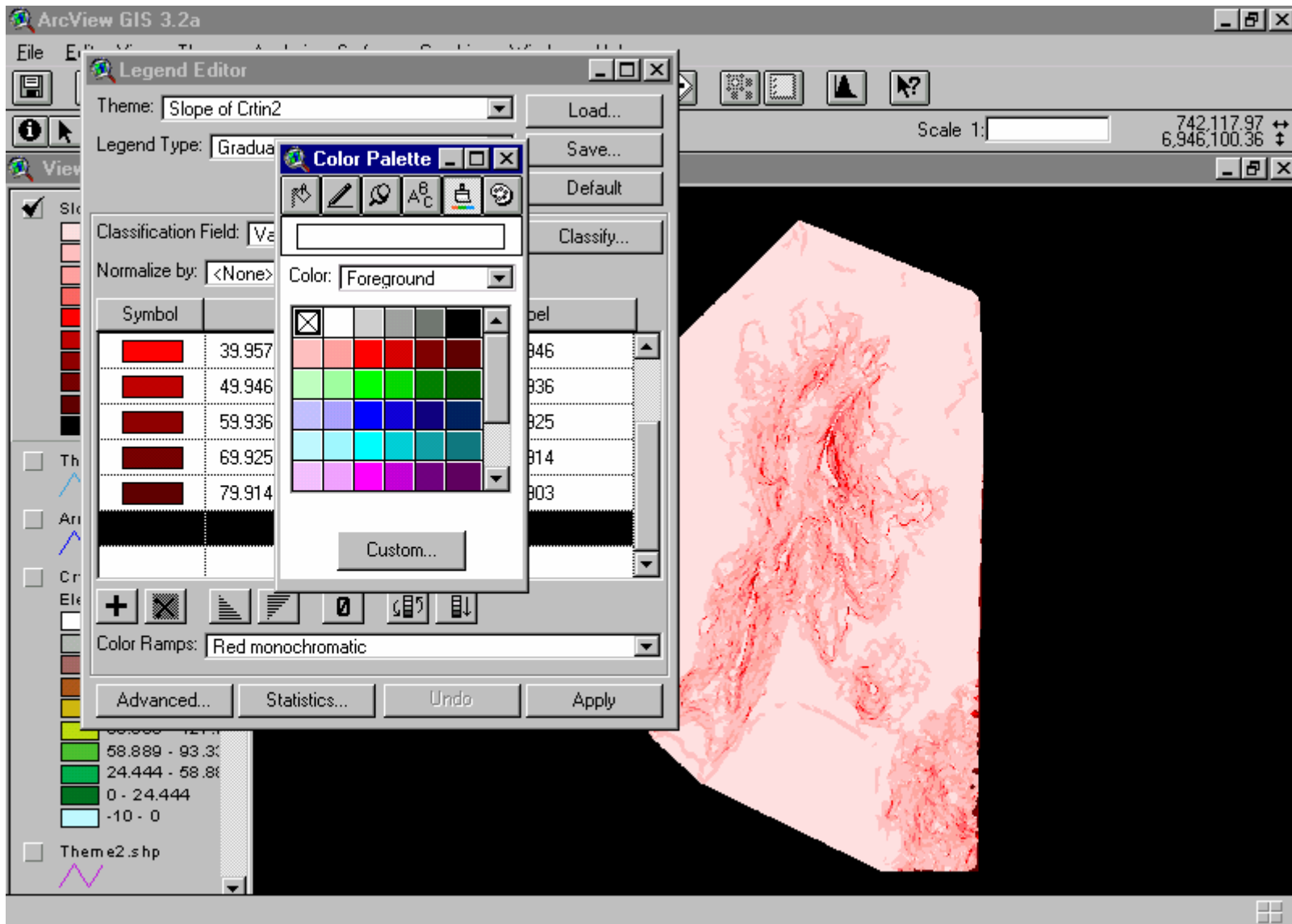
Especificar nitidez



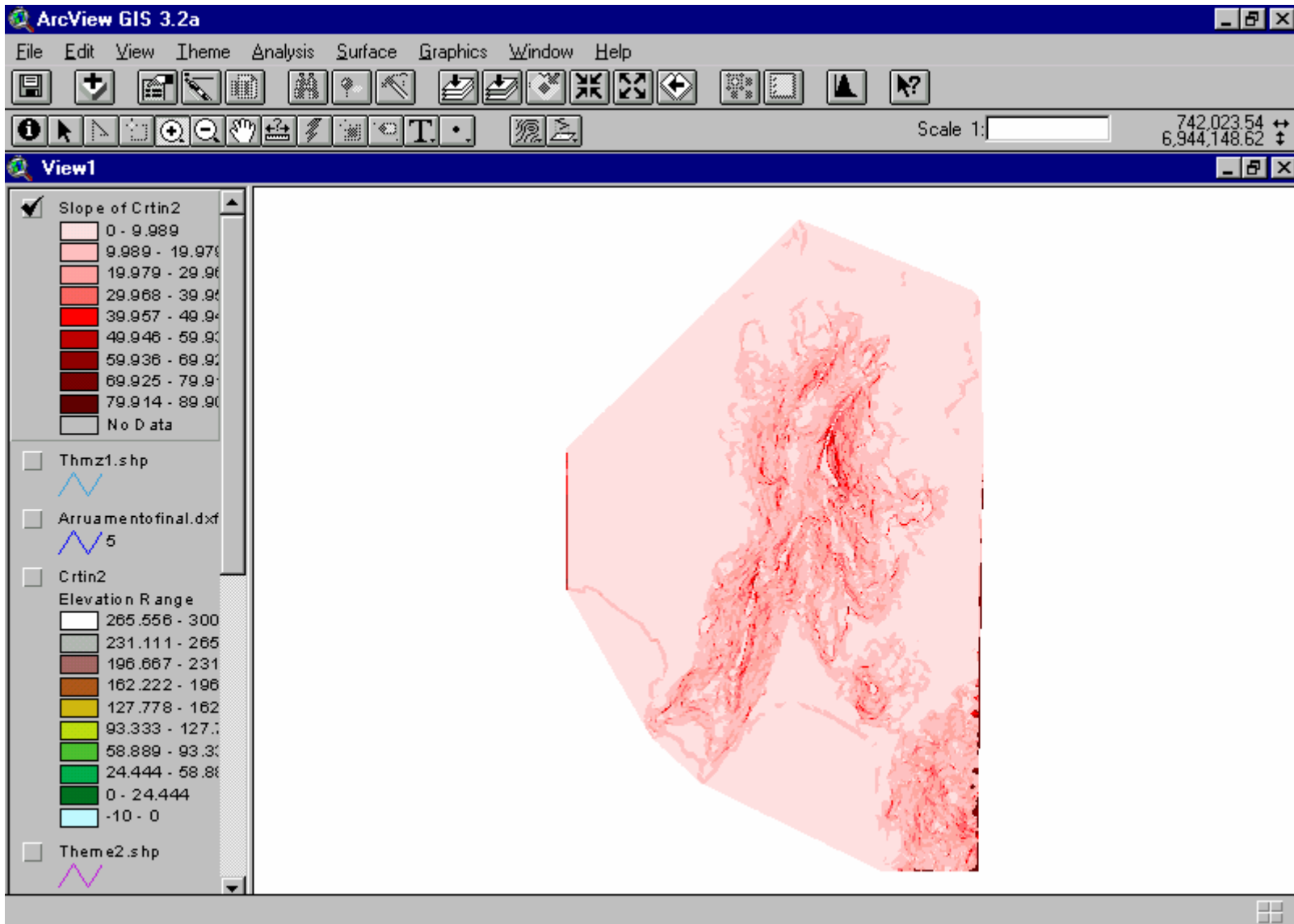
...processando

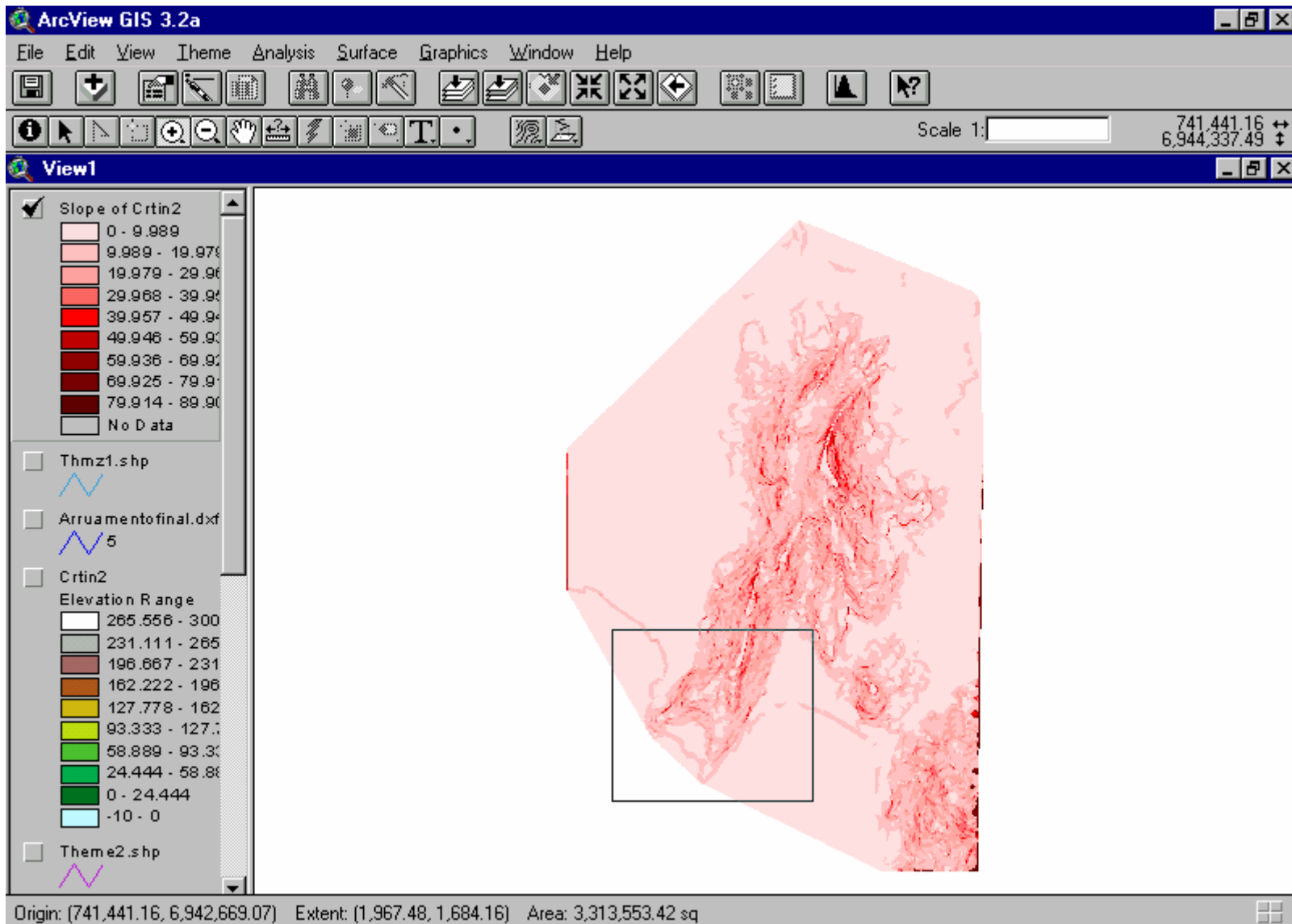


Visualizar representação de declividades

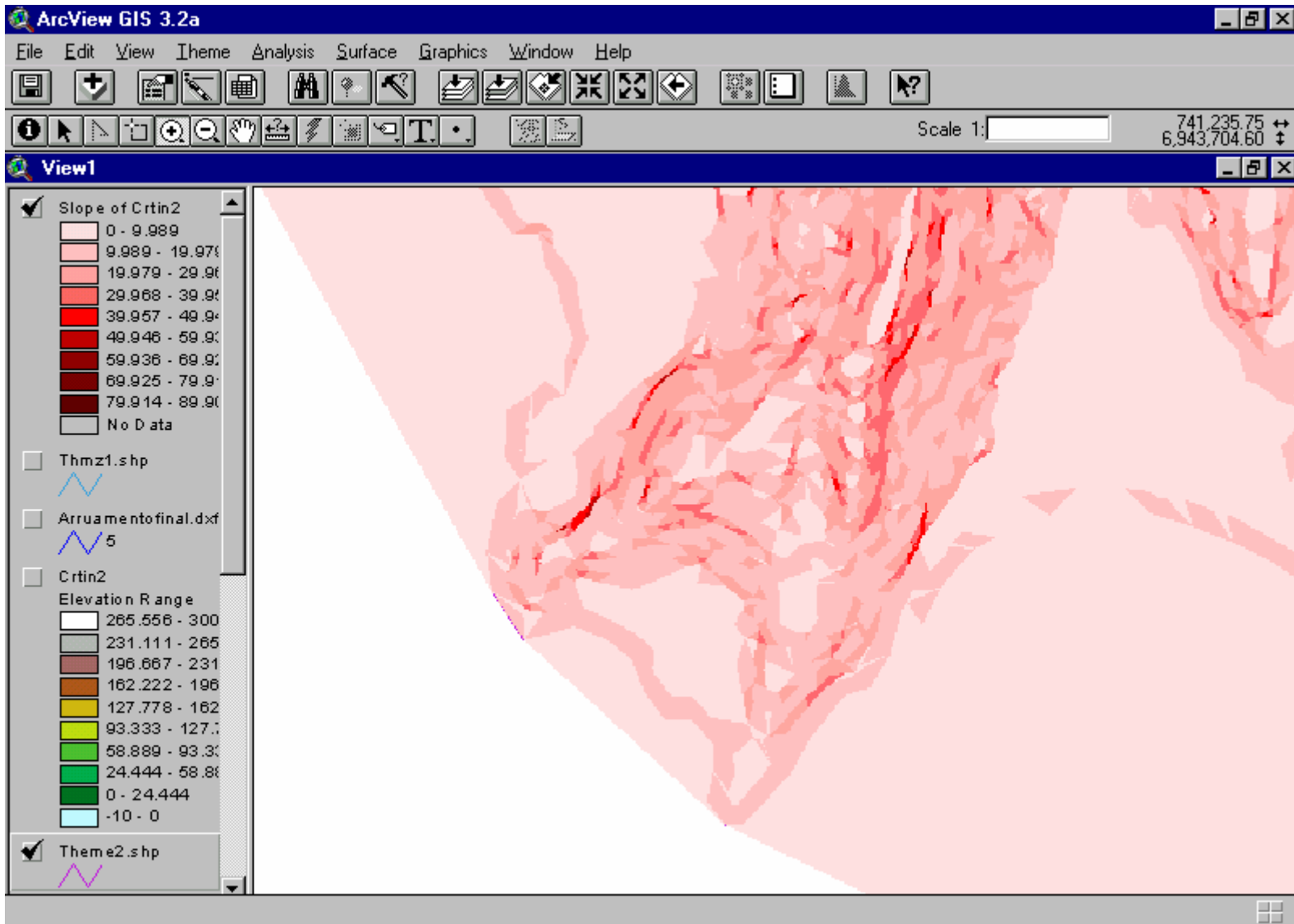


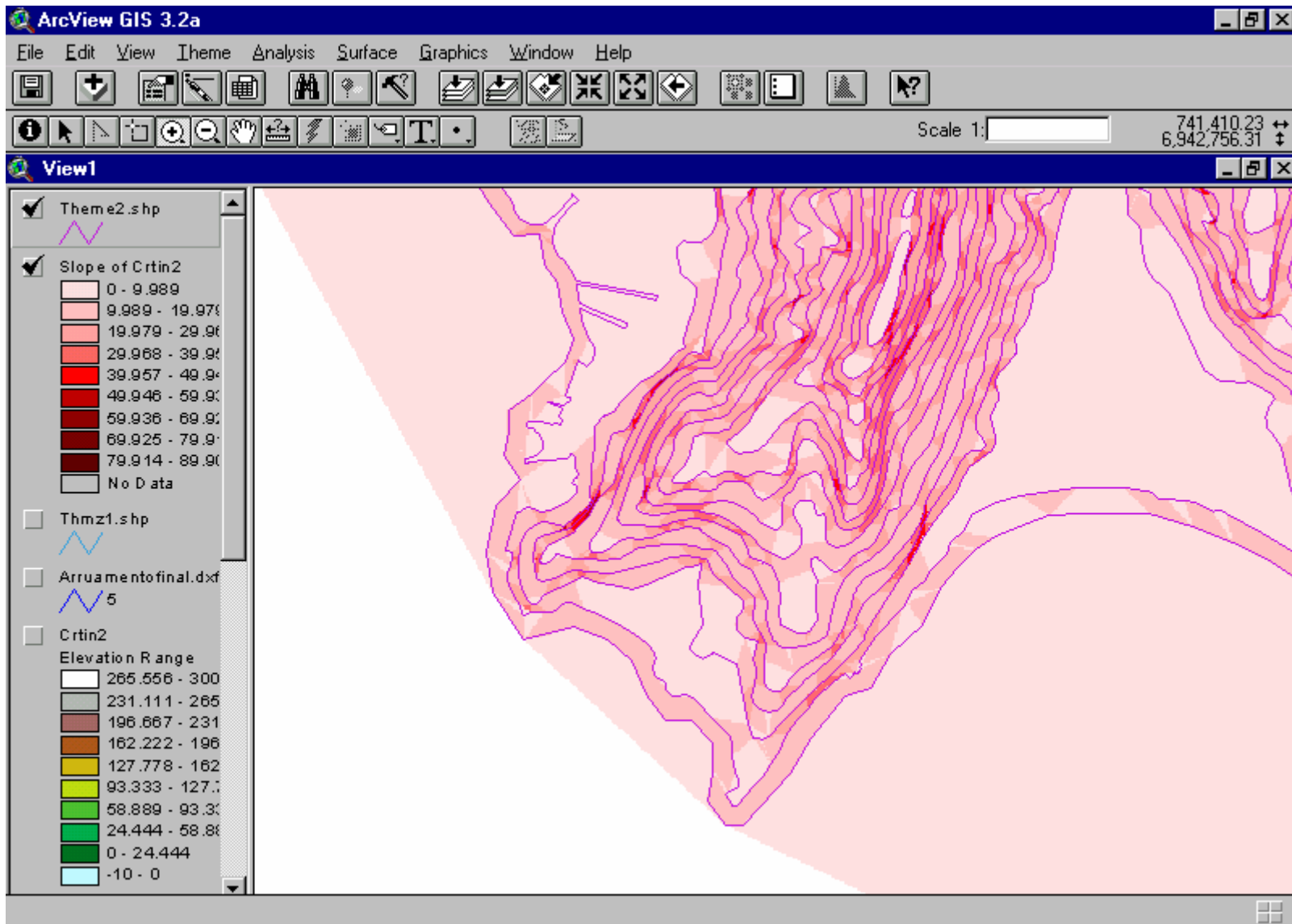
Tirar o fundo preto



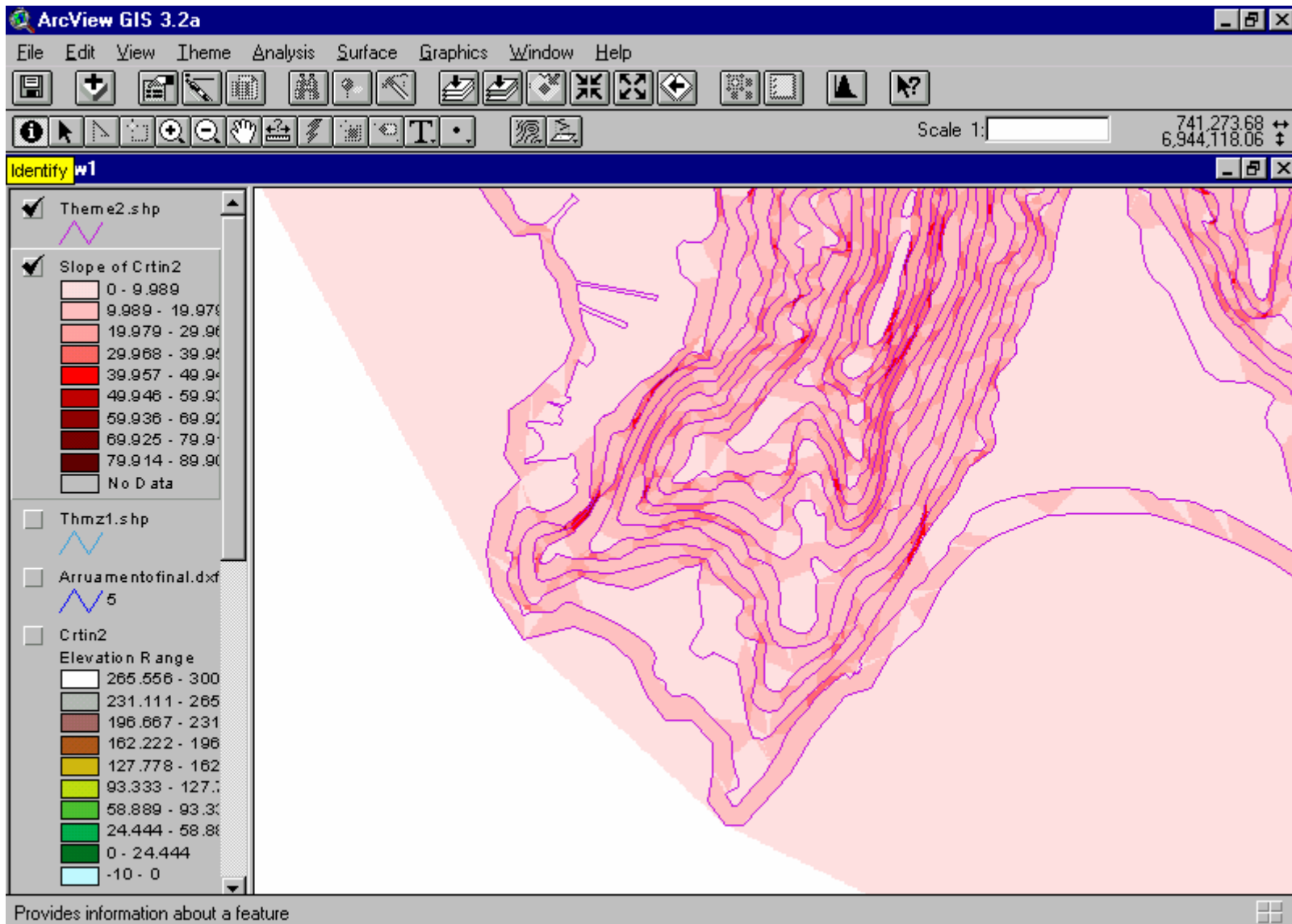


Ampliar os bairros da Prainha e de José Mendes

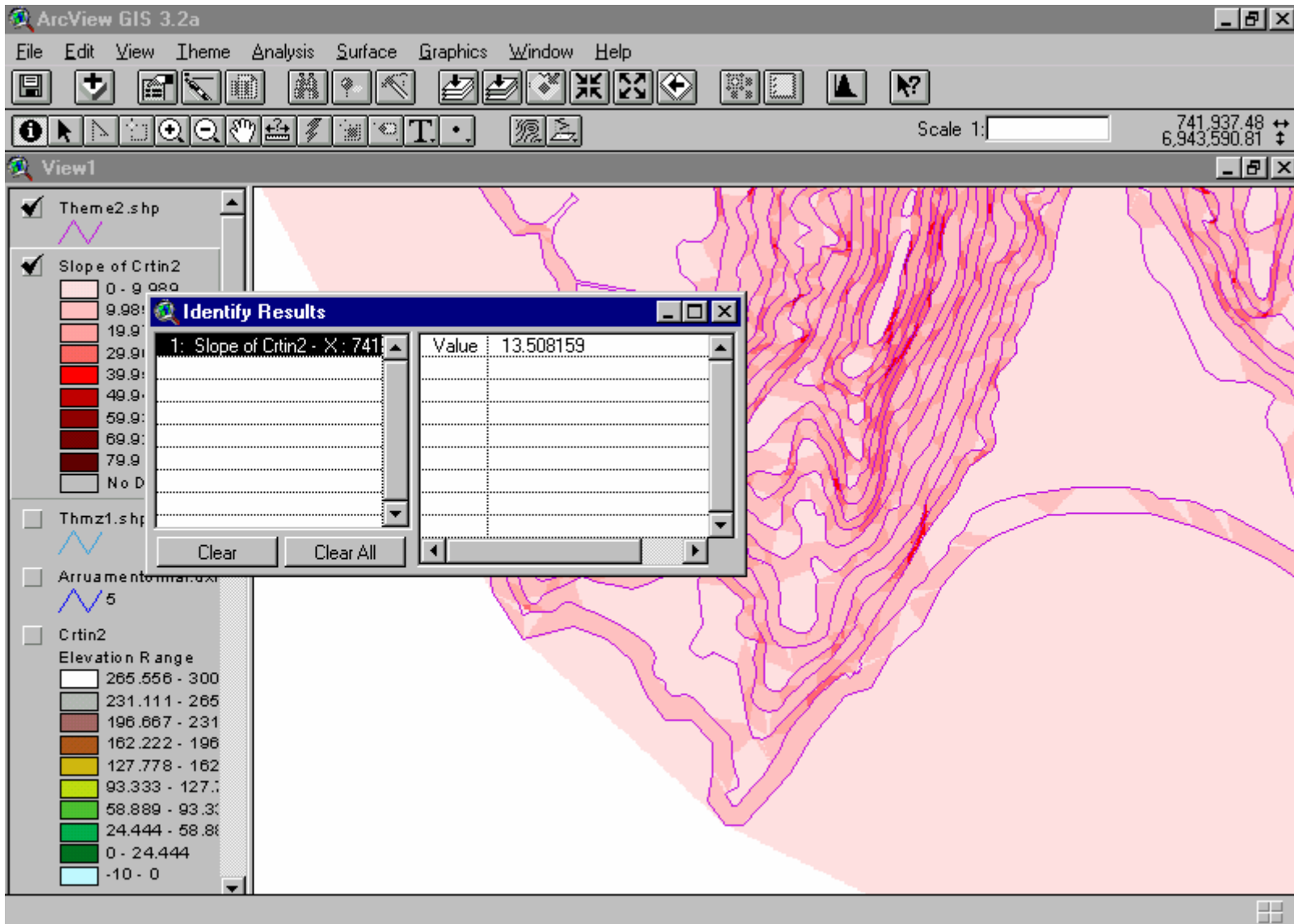


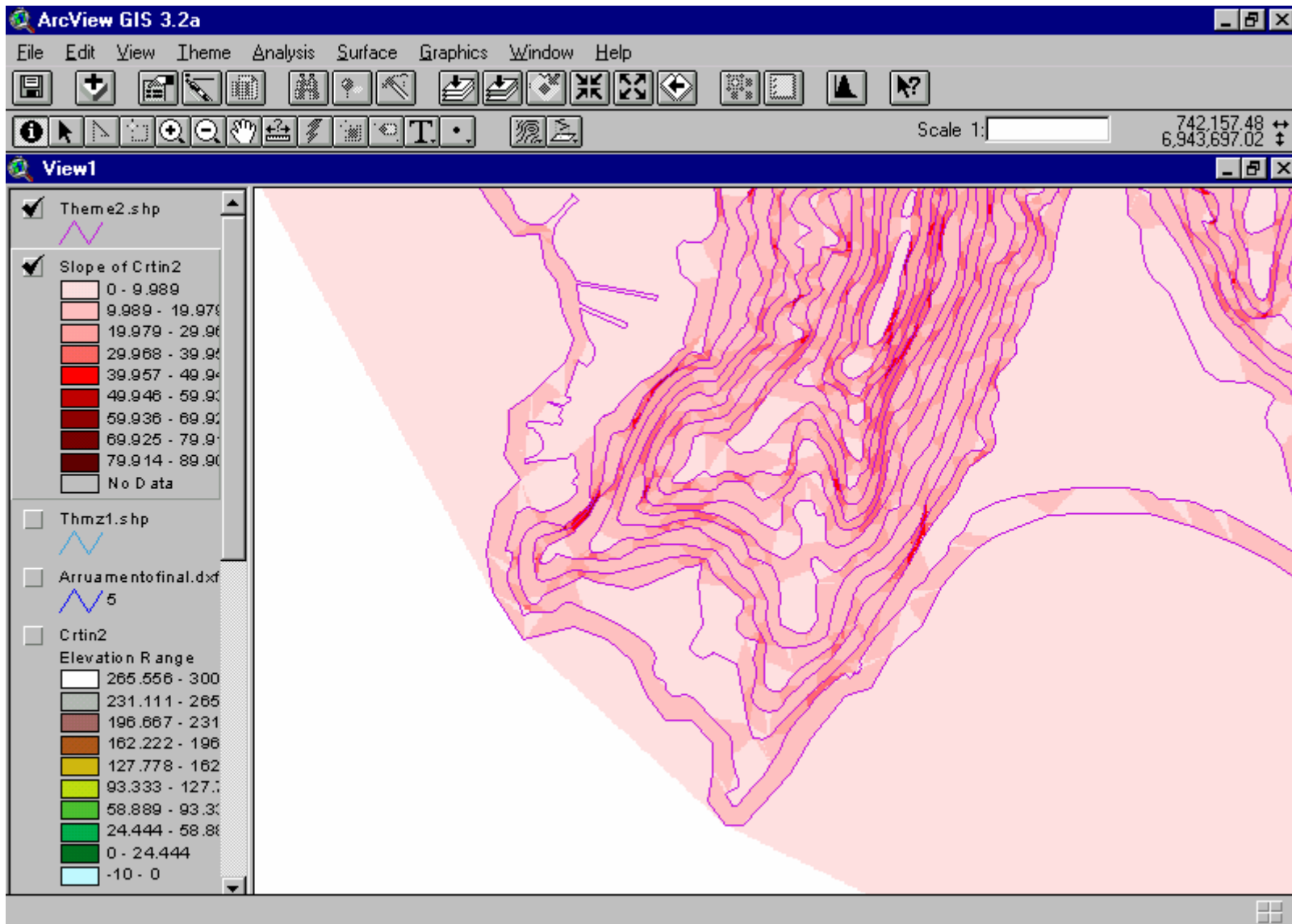


Sobrepor as curvas de nível

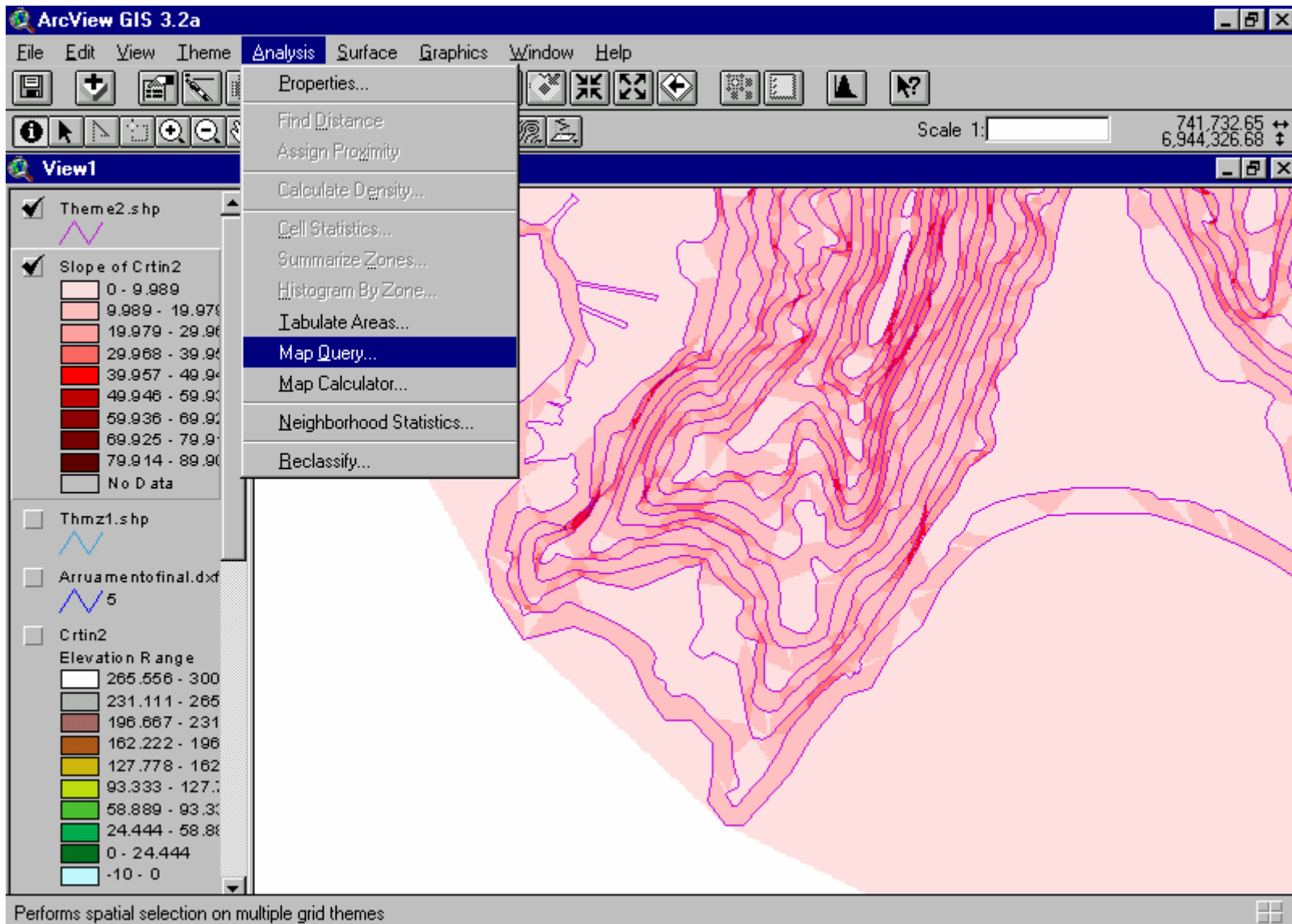


Examinar valores

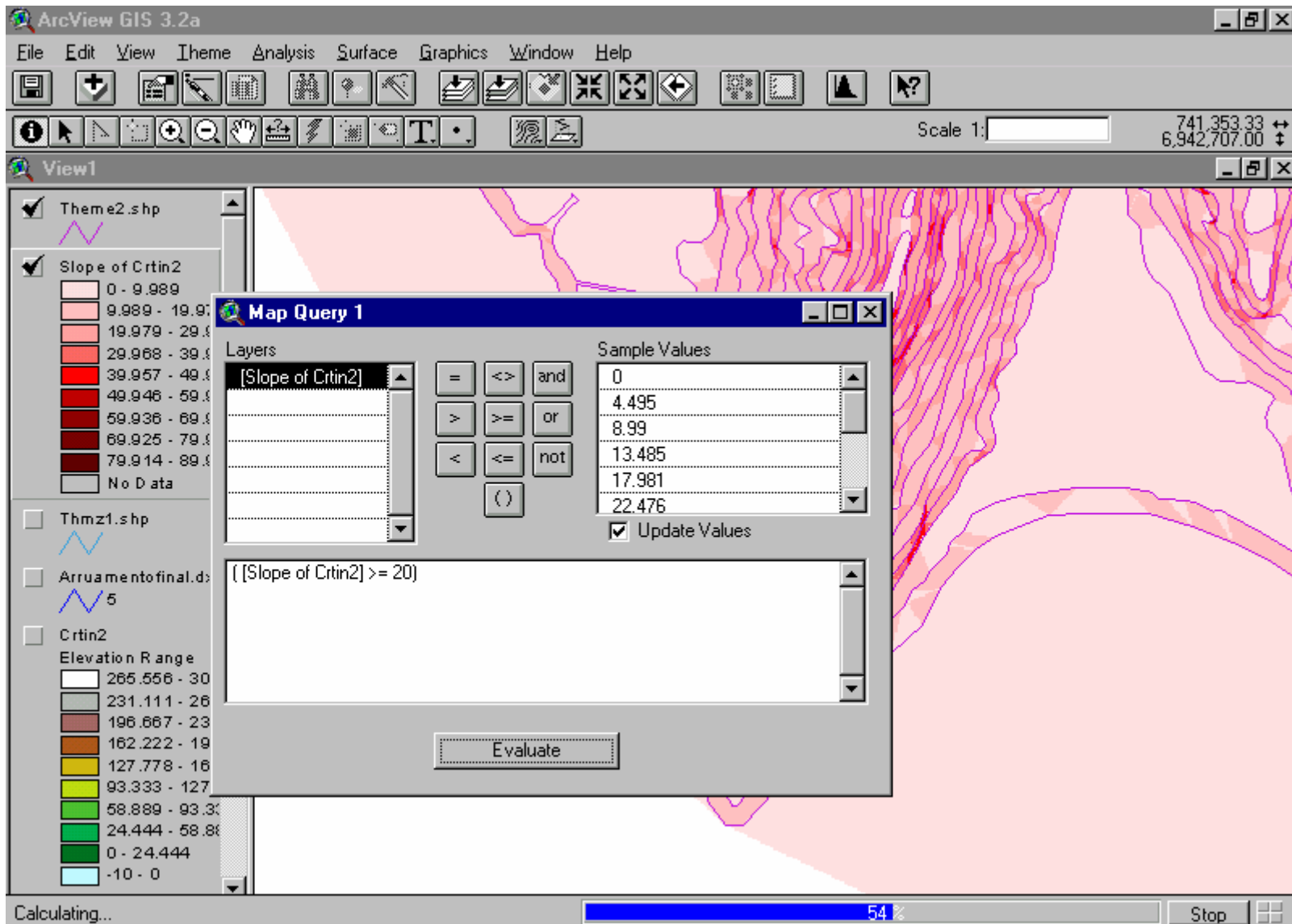




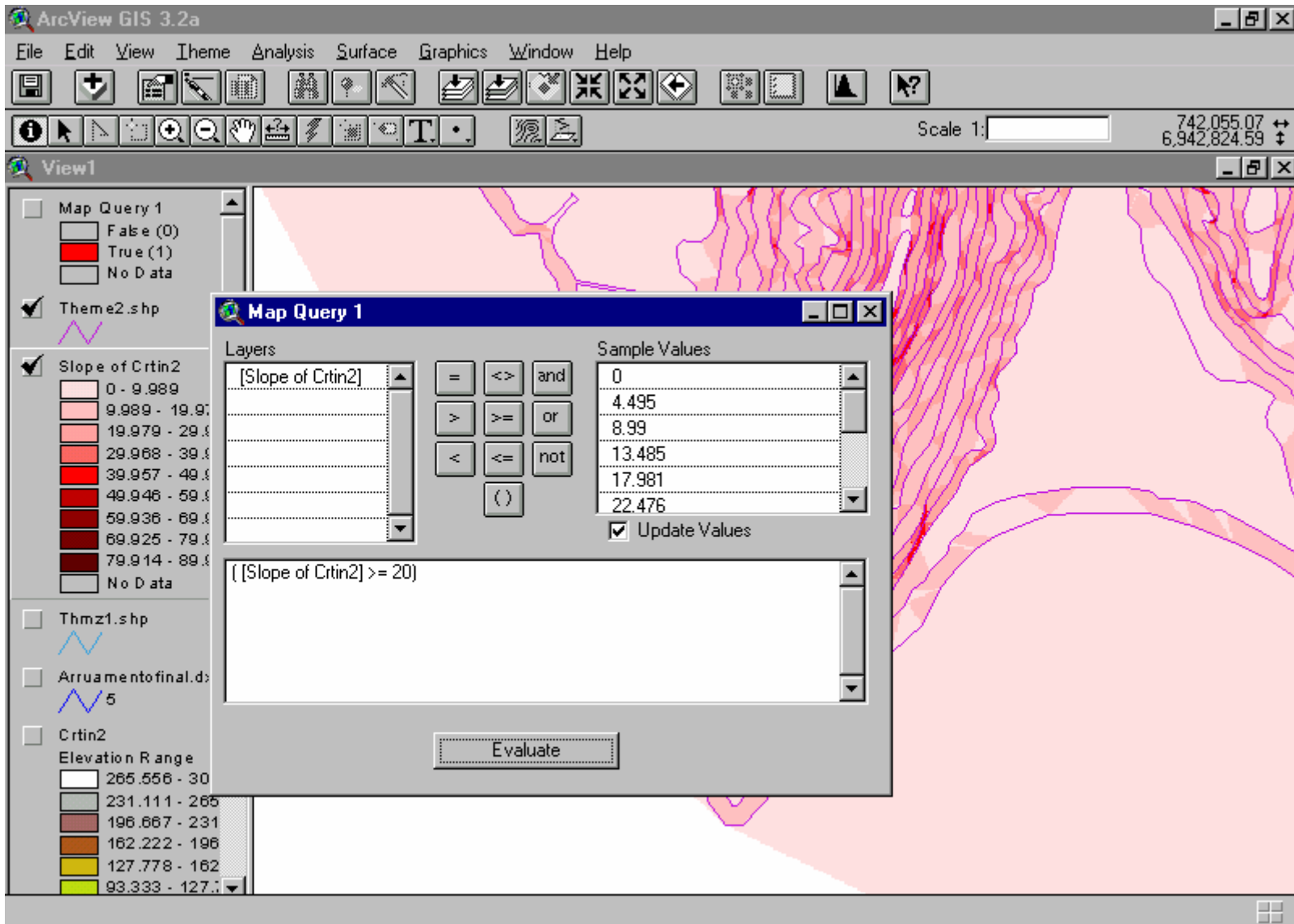
Fechar diálogo

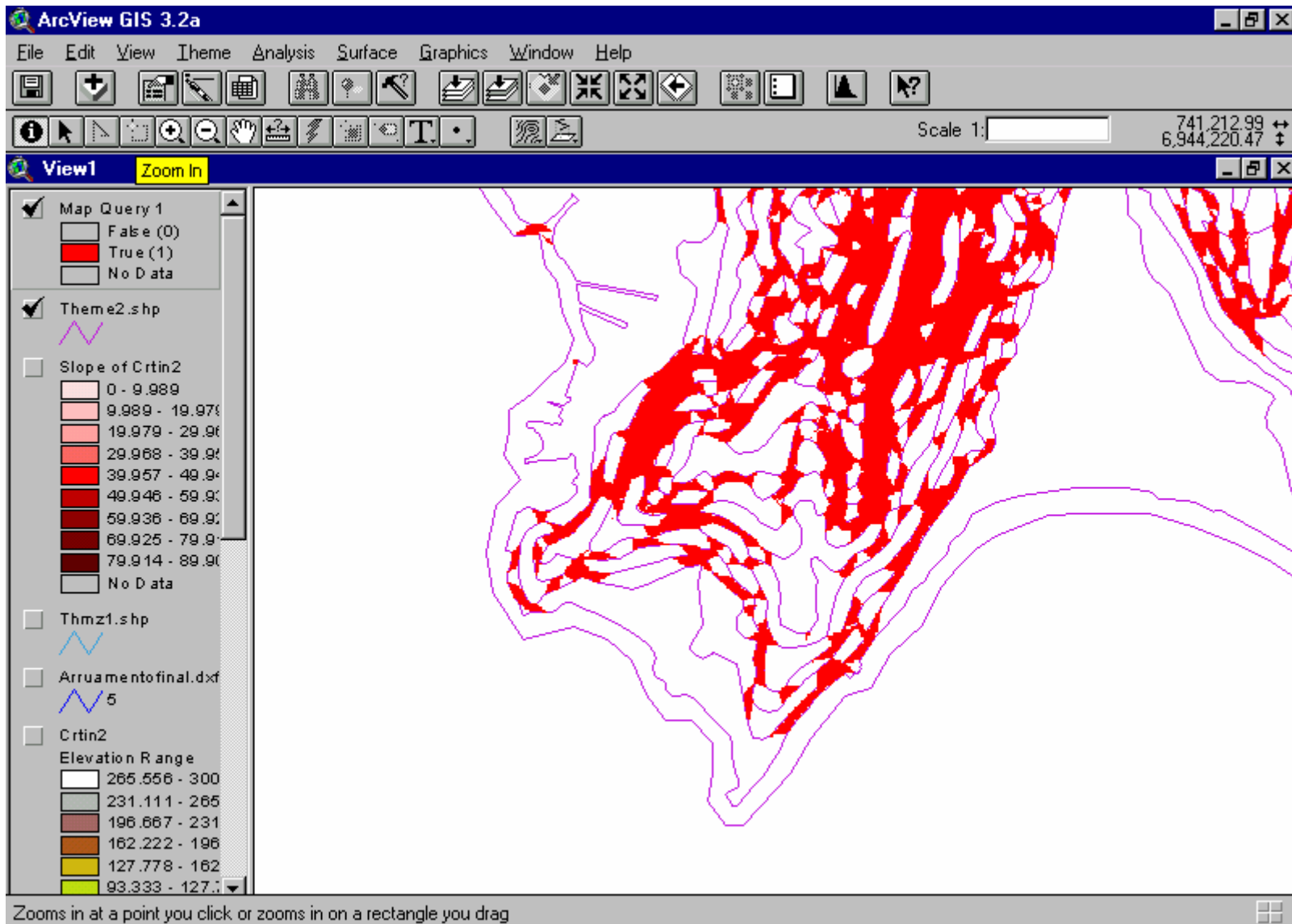


Interrogar dados

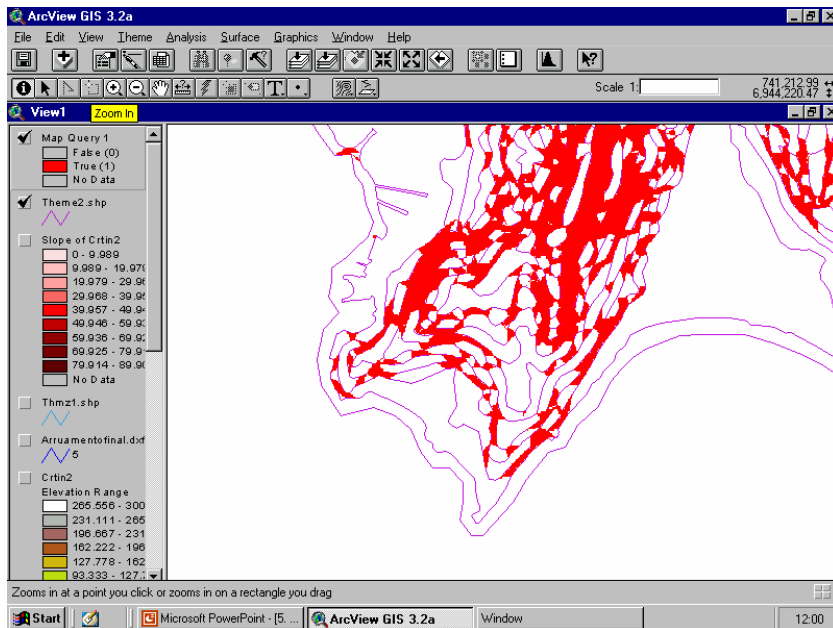


Escolher áreas mais íngremes que 20 graus

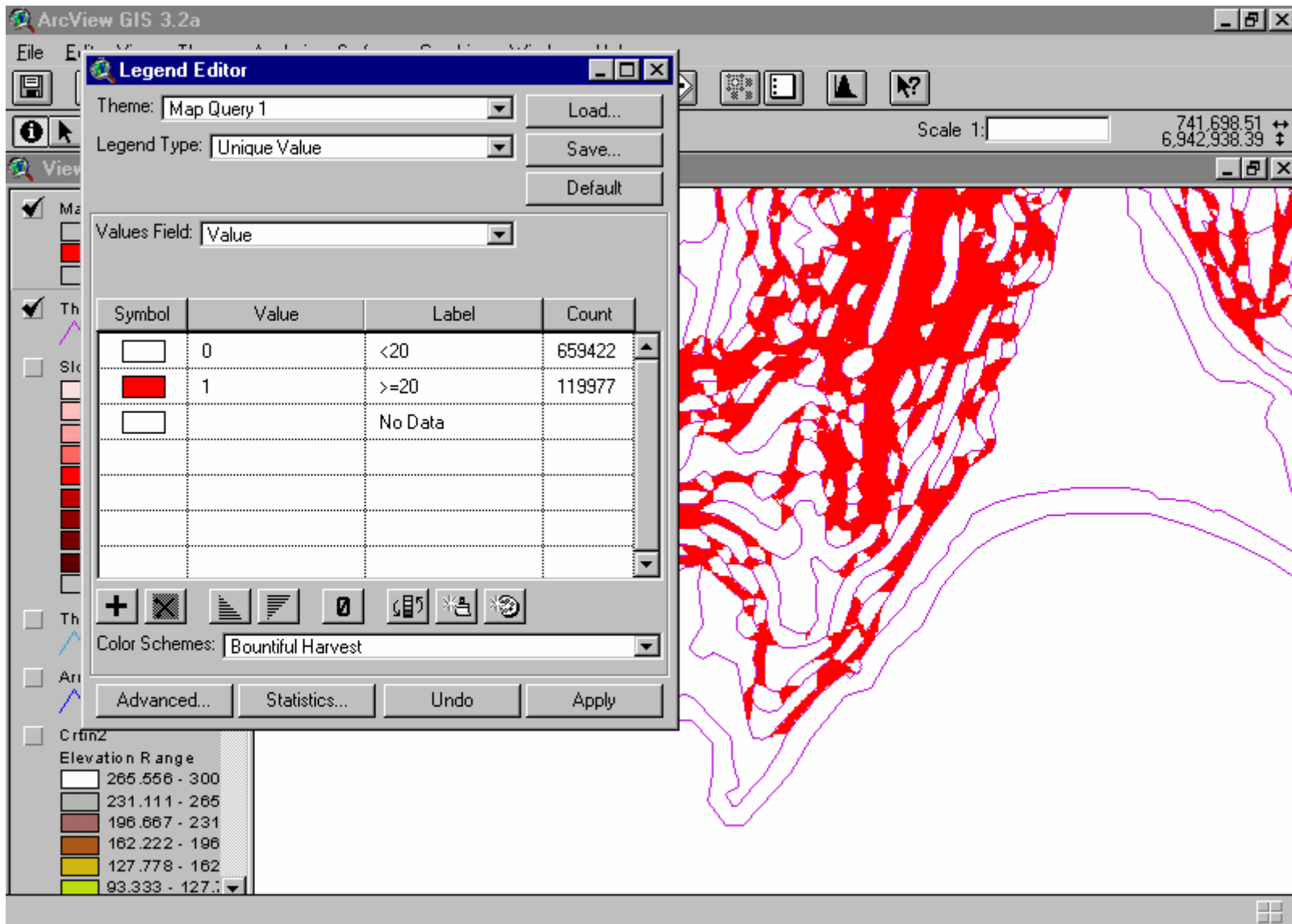




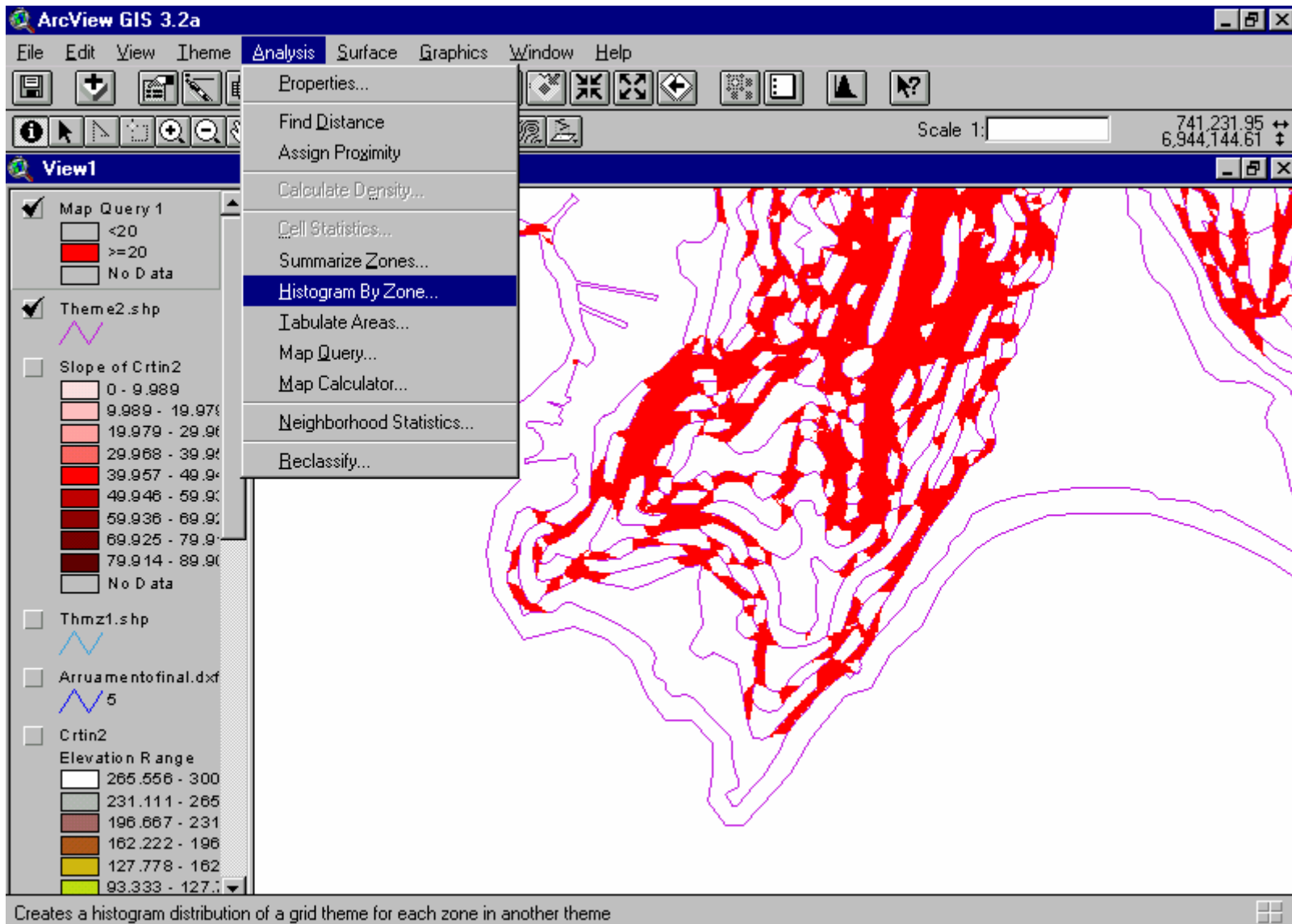
Visualizar áreas mais íngremes que 20 graus



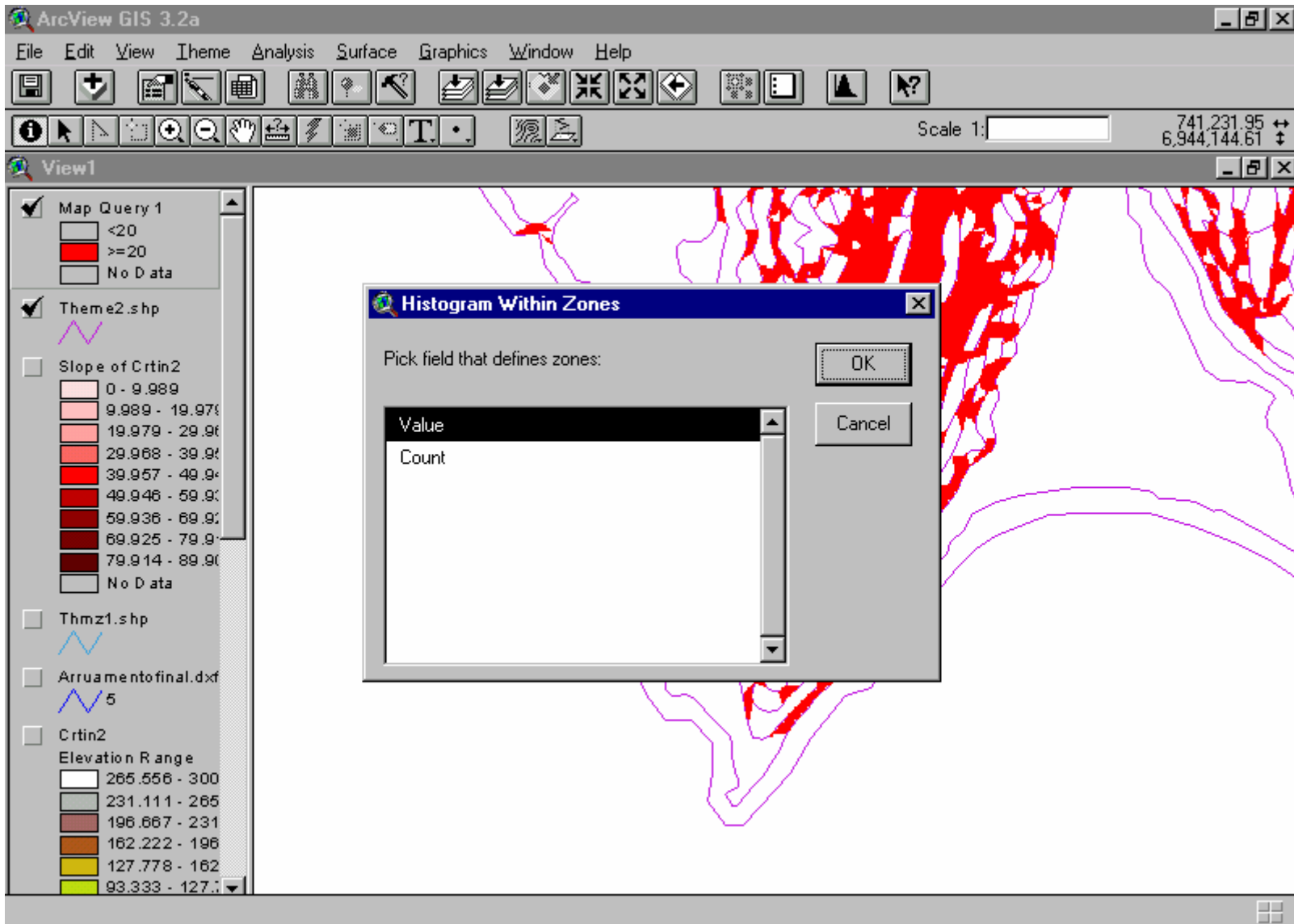
NOTA: A visualização de declividades pode ser representada em intervalos escolhidos pelo usuário. Por exemplo, a ser de acordo com AFONSO, Sonia, 1999, p. 342 (<15%, entre 15 e 45%, >45%)

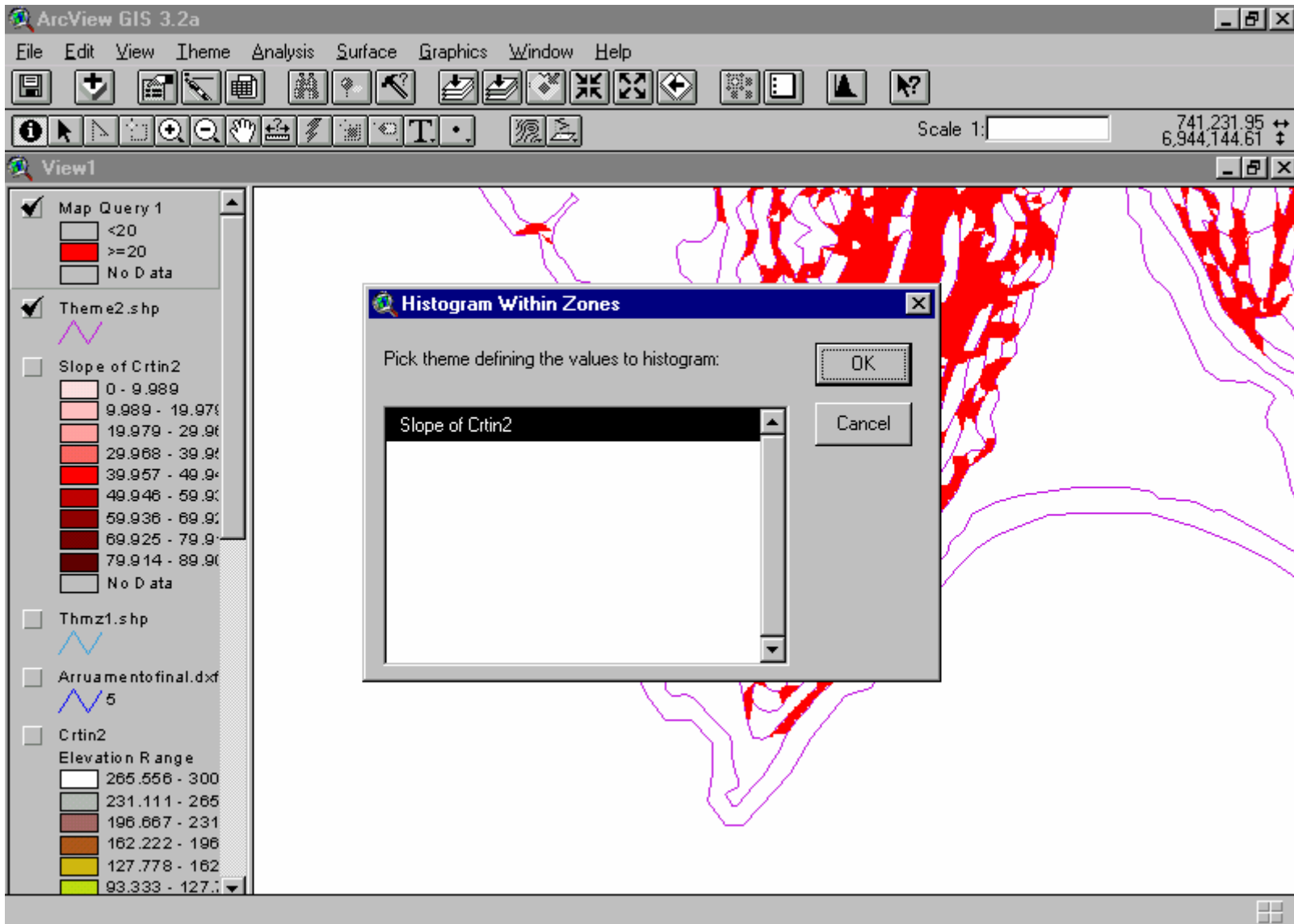


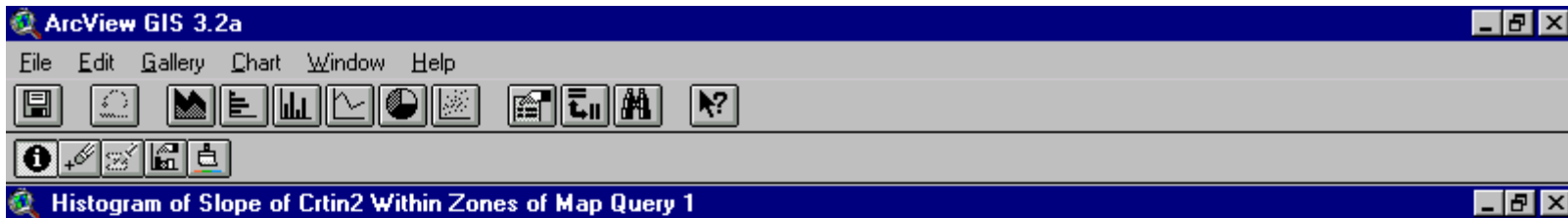
Renomear



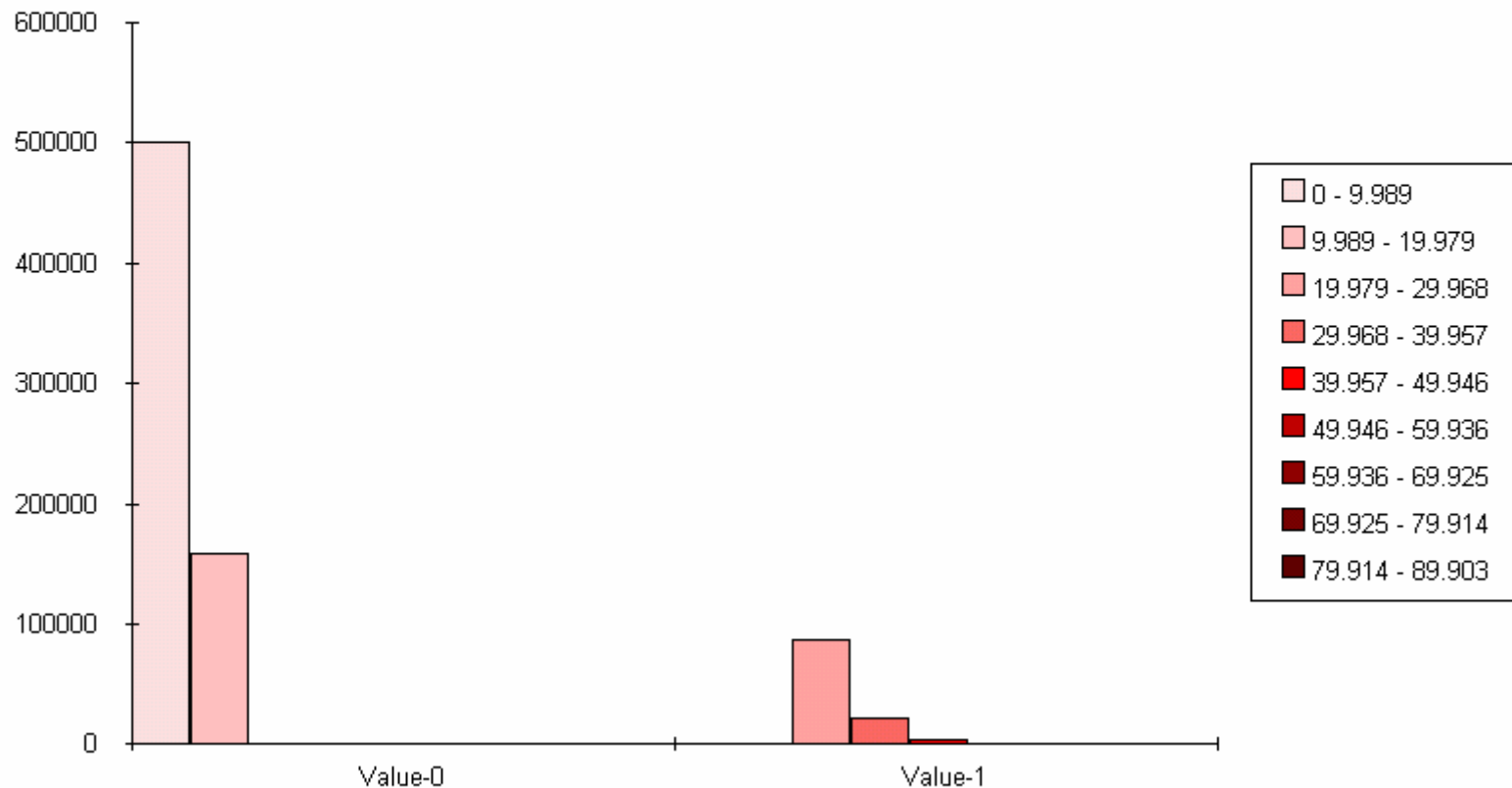
Criar representação gráfica

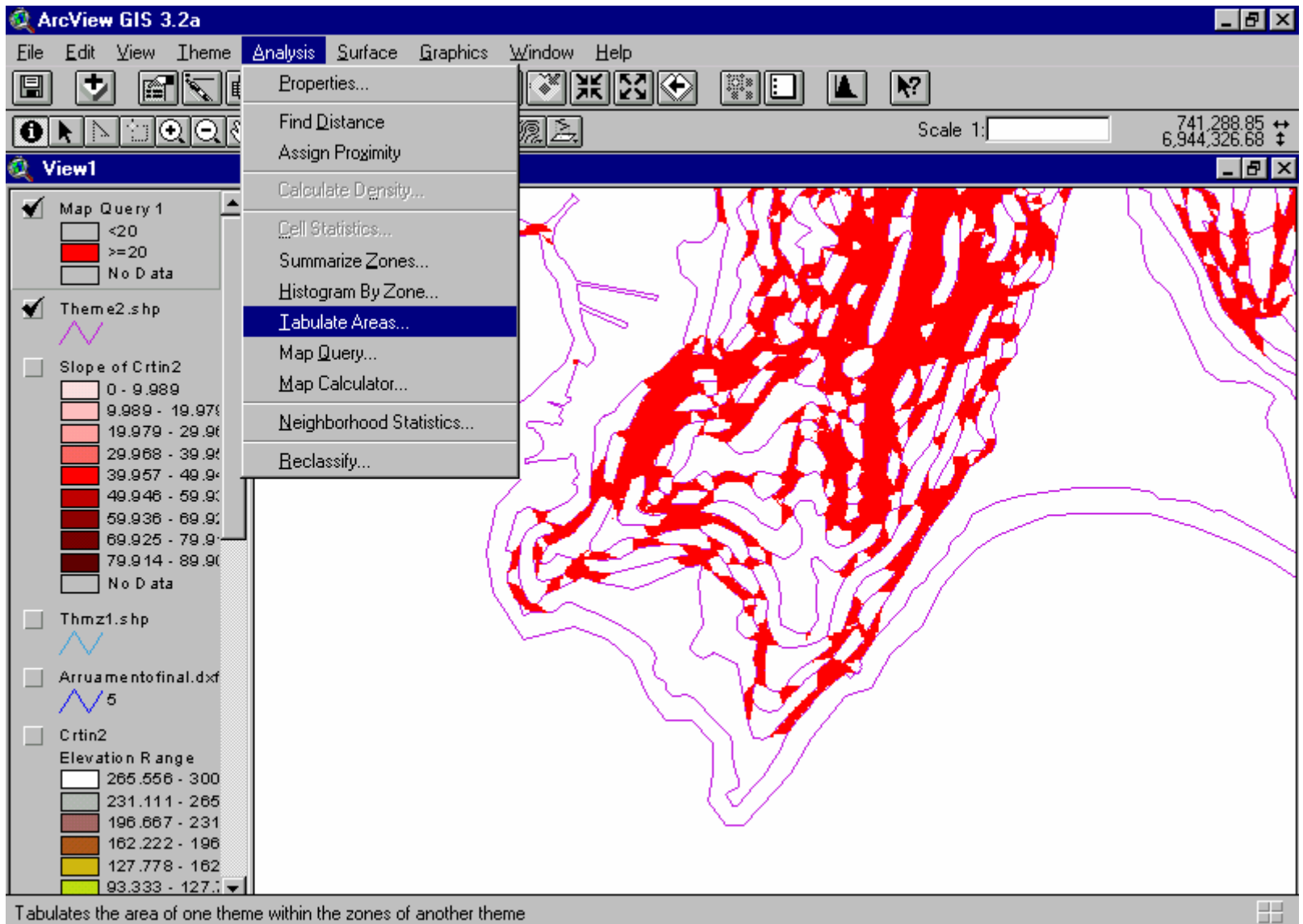




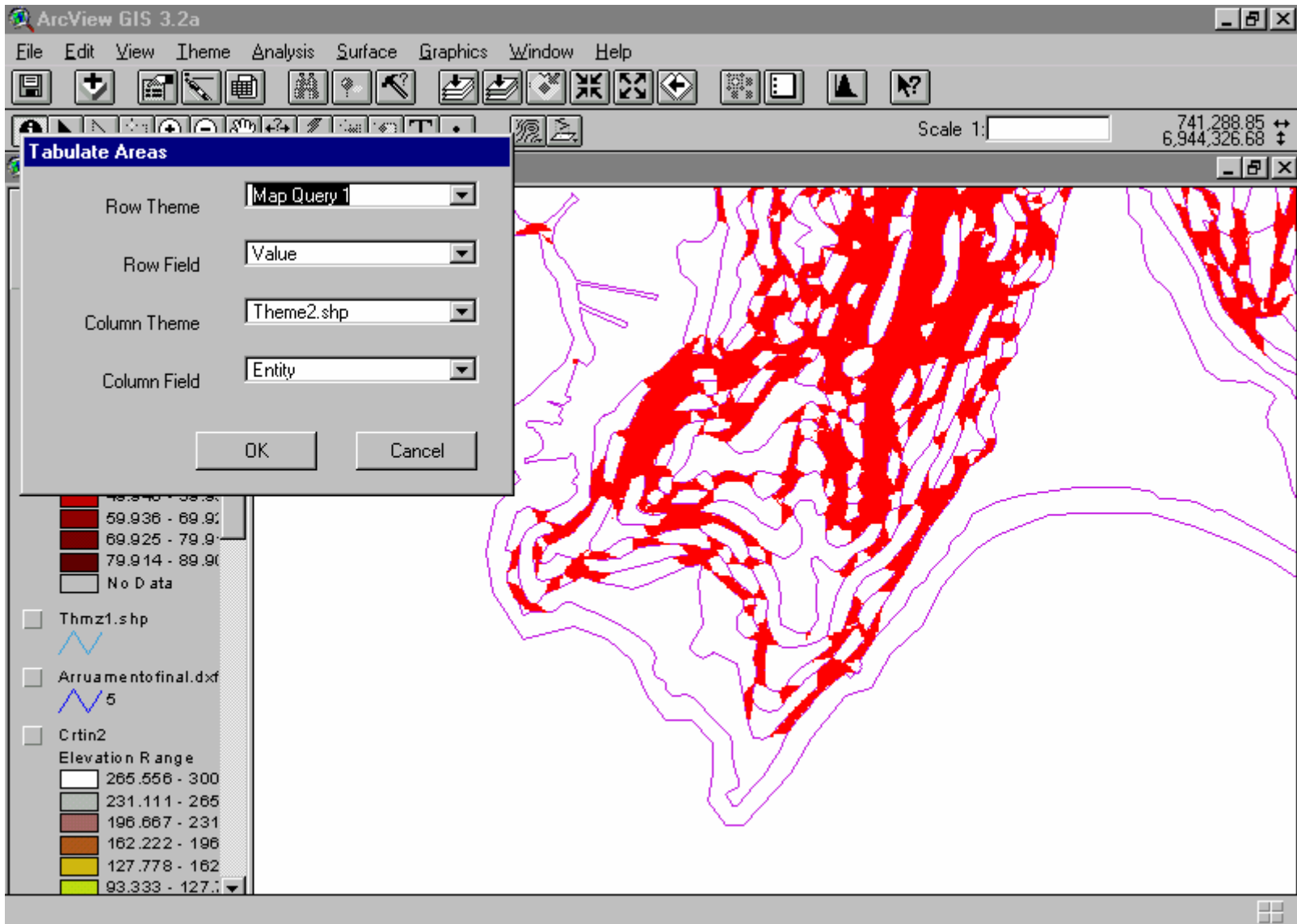


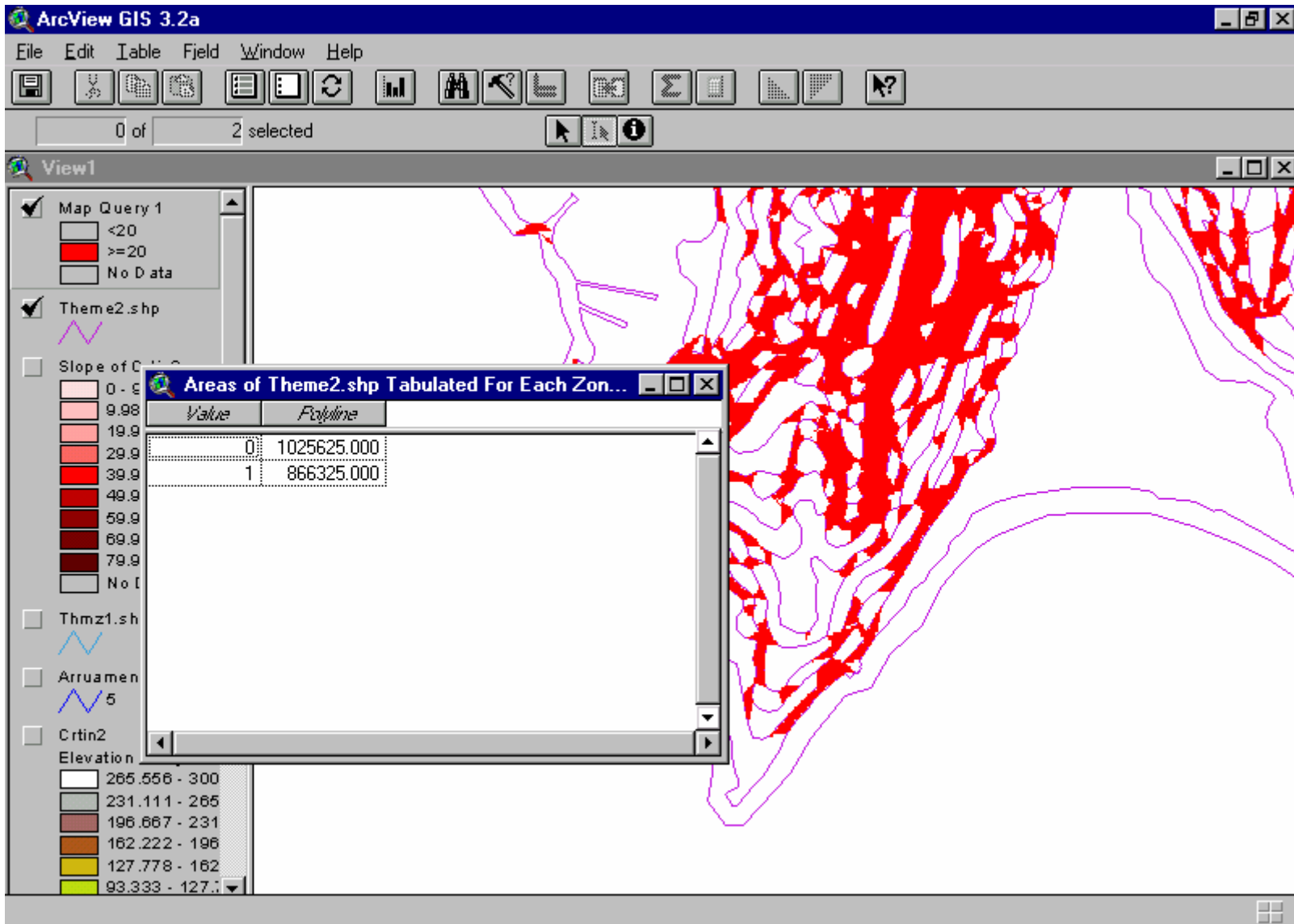
Histogram of Slope of Crtin2:Value





Criar tabela





Referências

Arquivos de Curvas de Nível e Arruamento baseados nos mapas anexos à dissertação de mestrado AFONSO, Sonia - **Urbanização de Encostas**. A ocupação do Morro da Cruz. Florianópolis. S.C. Dissertação de Mestrado. Orientada pelo Prof. Dr. José Claudio Gomes. São Paulo. FAUUSP. 1992.

Estes arquivos foram incluídos no material didático preparado por **Dirceu de Menezes Machado Júnior** do Departamento de Engenharia Civil da Universidade Federal de Santa Catarina, como trabalho do curso de Habitação de Encostas (turma 2003) ministrado por Dr^a Sonia Afonso.

AFONSO, Sonia - **Urbanização de Encostas**: Crises e Possibilidades. O Morro da Cruz como um Referencial de Projeto de Arquitetura da Paisagem. São Paulo. FAUUSP. Tese de Doutorado. 1999.

Software: Arcview GIS versão 3.2a. Copyright Environmental Systems Research Institute Inc. 1992-2000. [Instalação com o programa de análise espacial em 3-d '3D Analyst']