Laboratório 3: Modelos Numéricos de Terreno

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Exercício 1 - Definindo o Plano Piloto para o Aplicativo 1

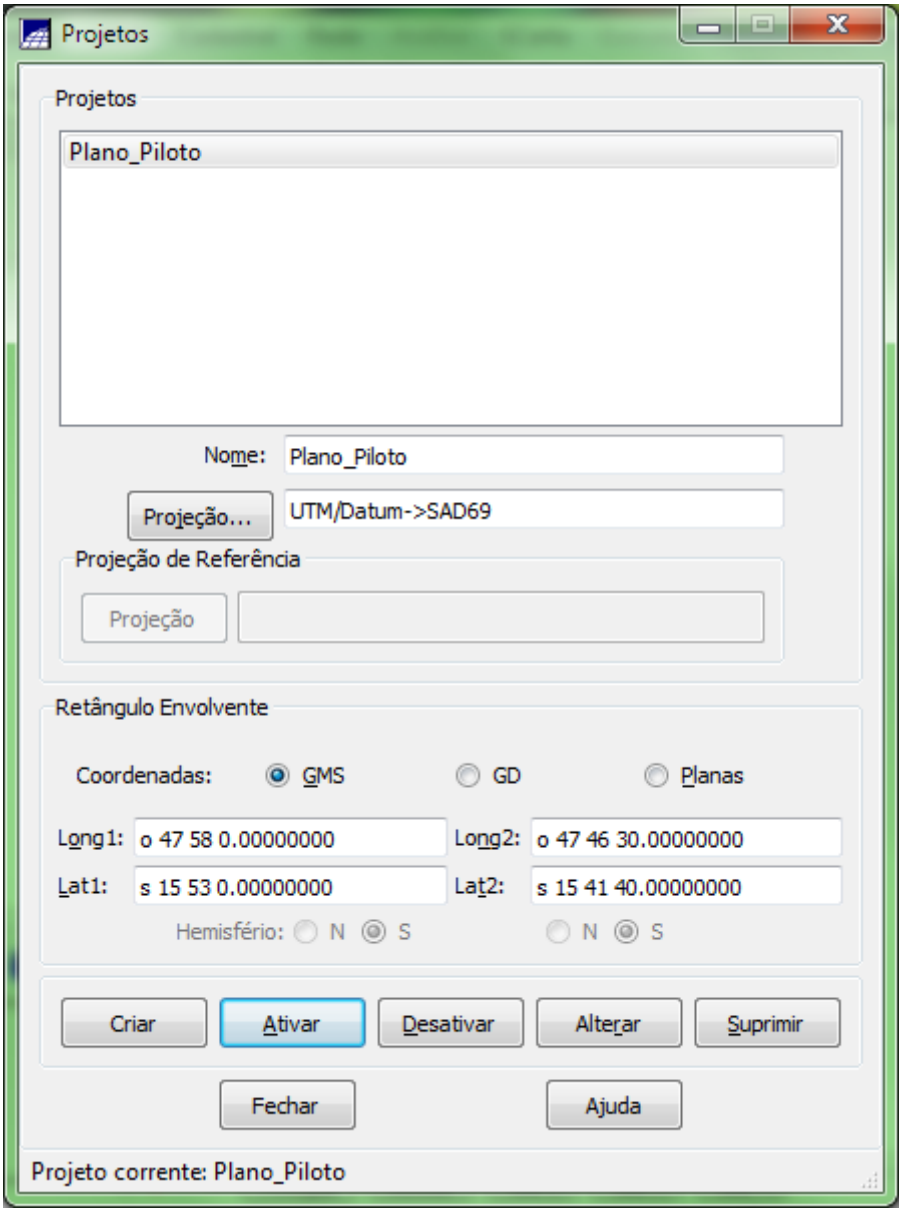

Figura 1 Definição do projeto

Exercício 2 - Importação amostras de modelo numérico de terreno

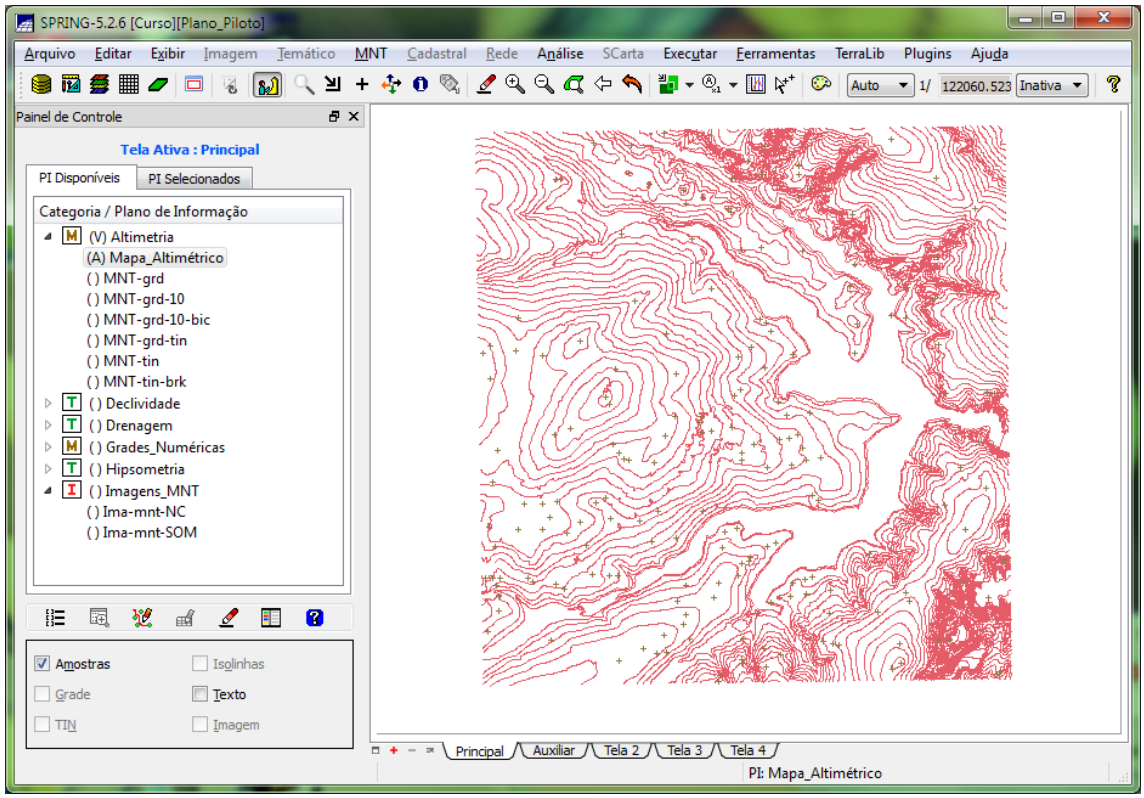

Figura 2 Mapa altimétrico

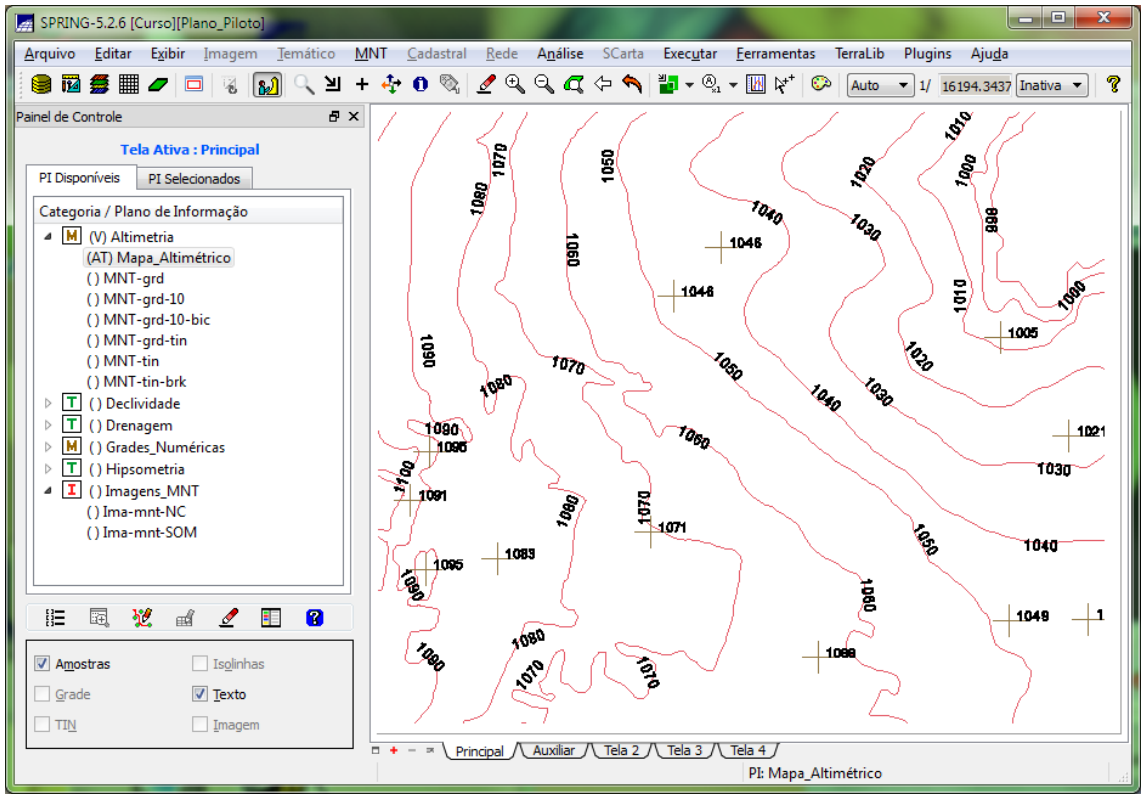

Figura 3 Geração de toponímia

Exercício 3 - Edição de modelo numérico de terreno

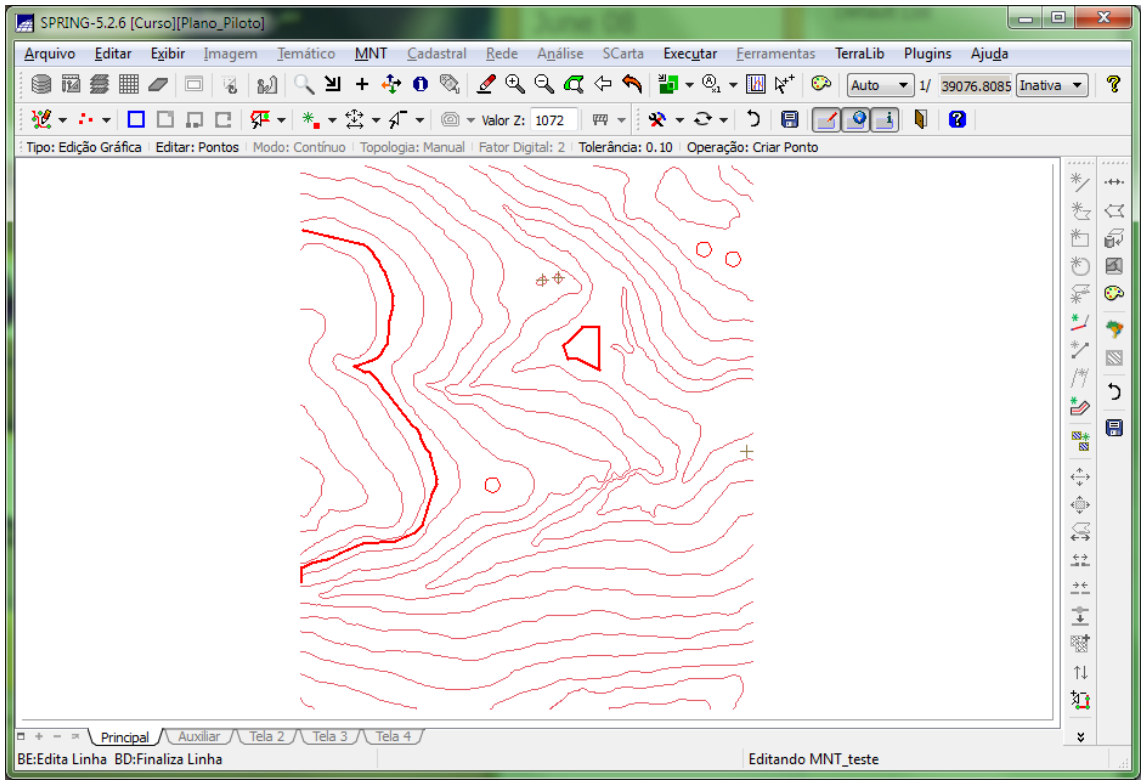

Figura 4 Edição topológica

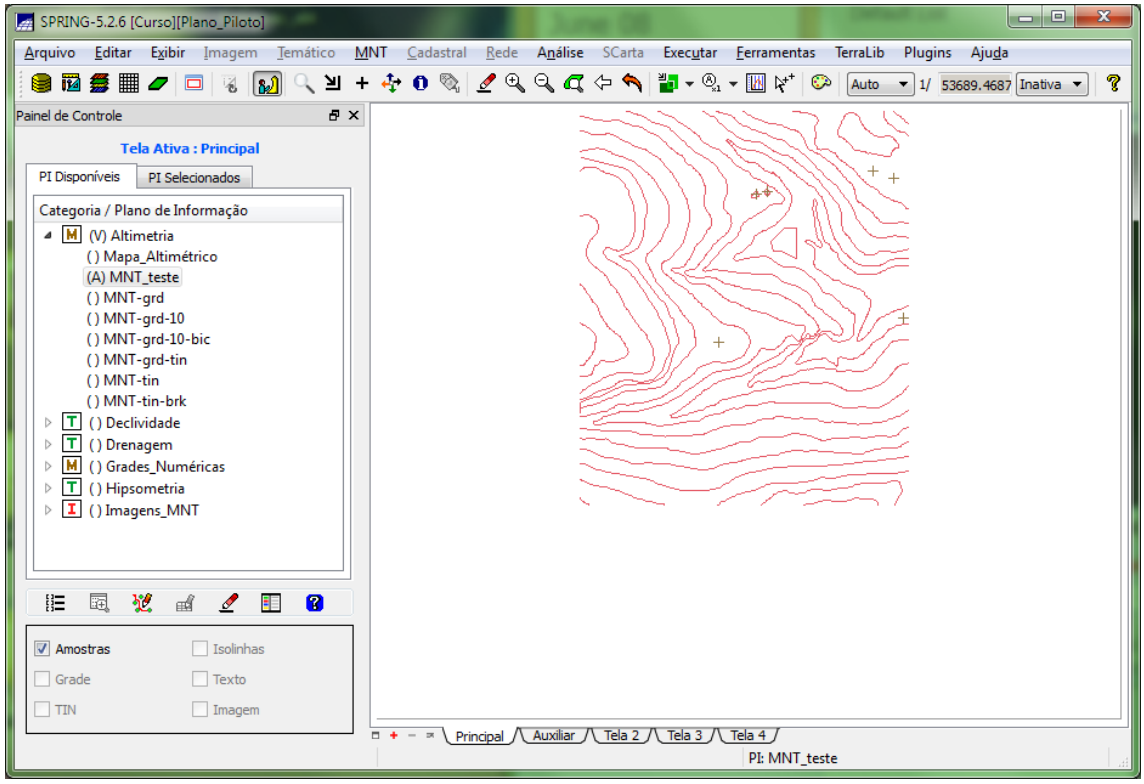

Figura 5 MNT teste

Exercício 4 - Gerar grade triangular com e sem linha de quebra

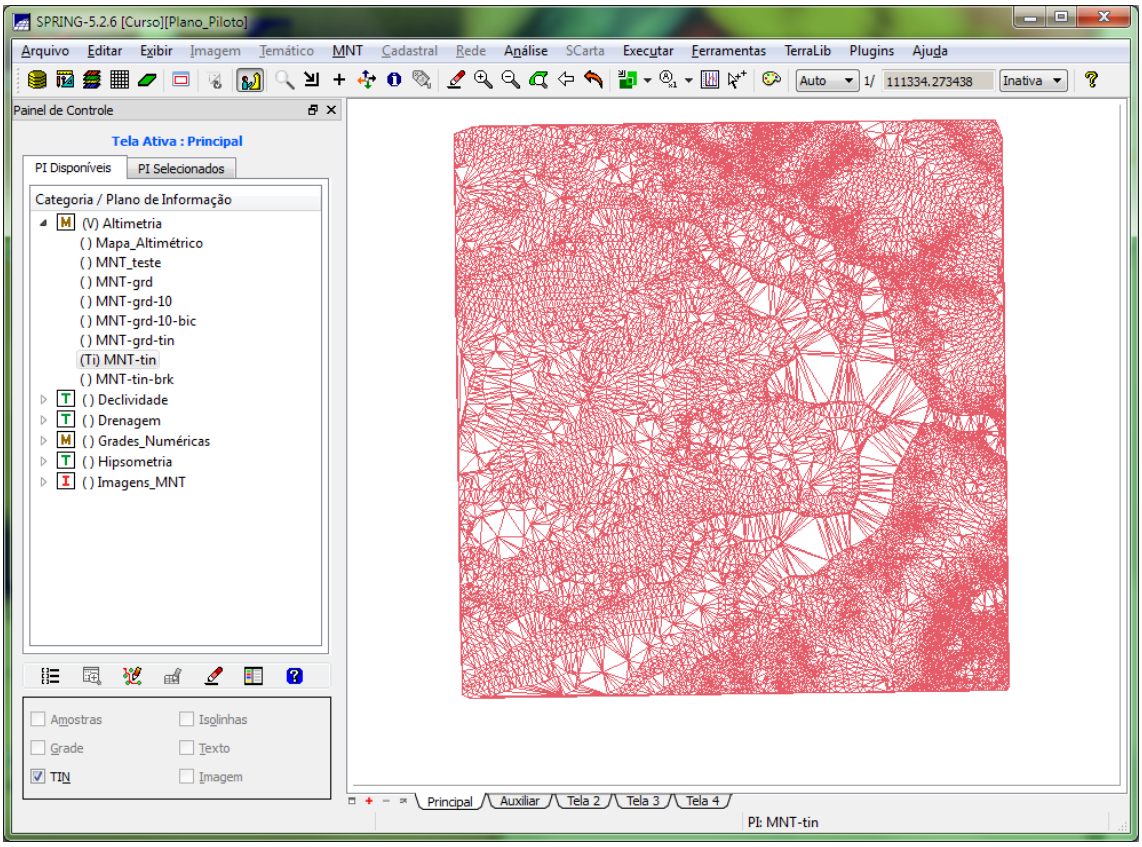

Figura 6 TIN sem linha de quebra

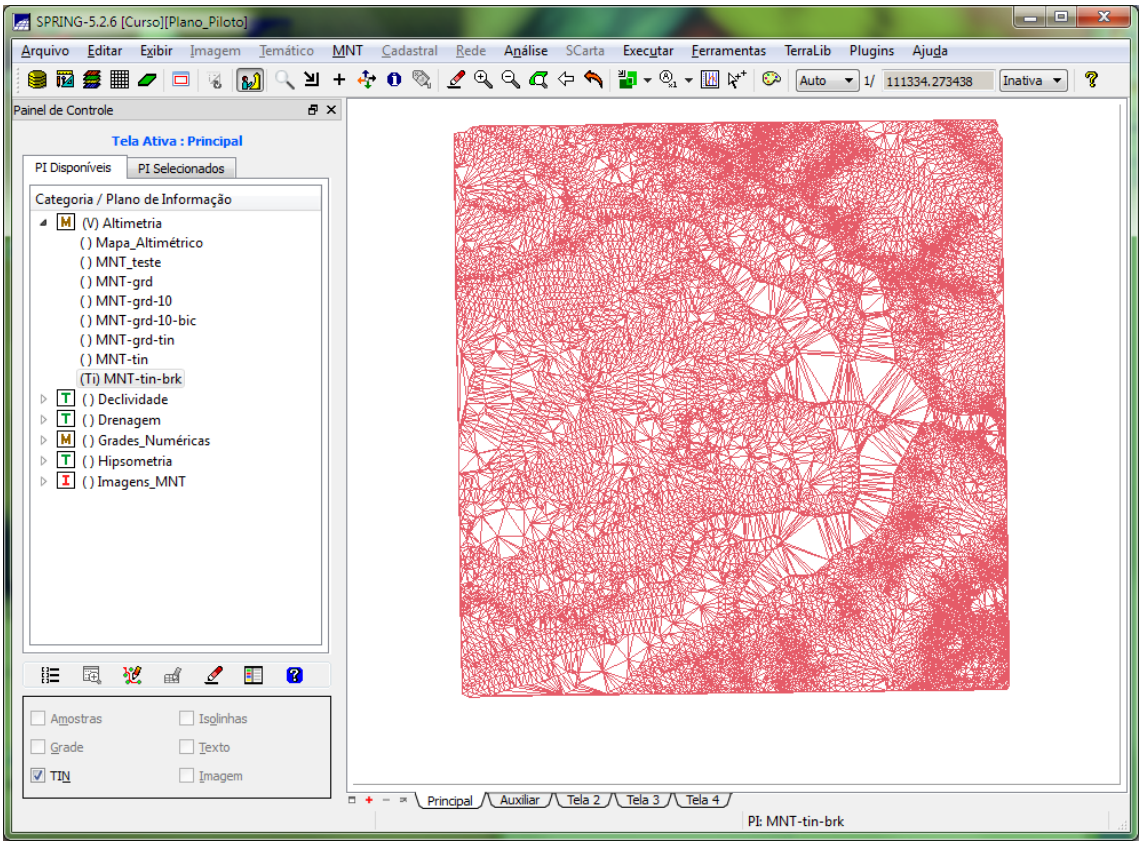

Figura 7 TIN com linhas de quebra

Exercício 5 - Gerar grades retangulares de amostras e de outras grade

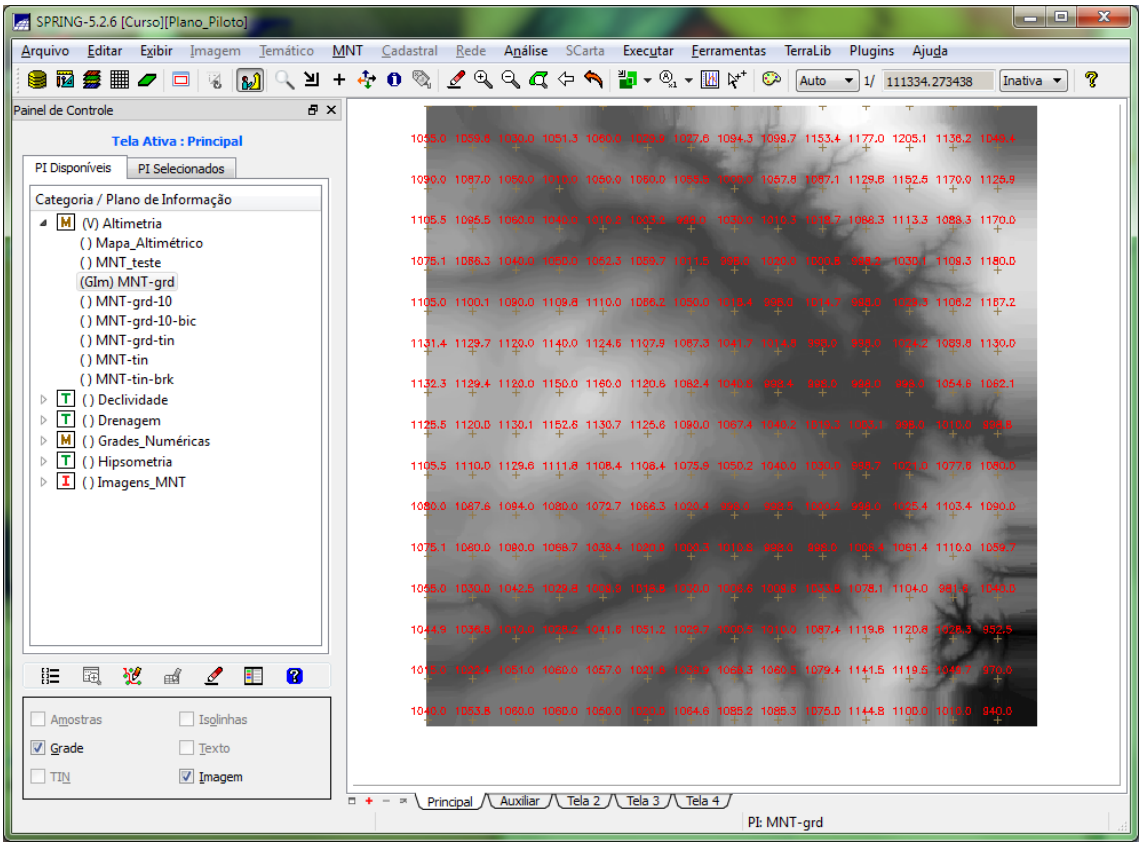

Figura 8 Grade regular a partir das amostras

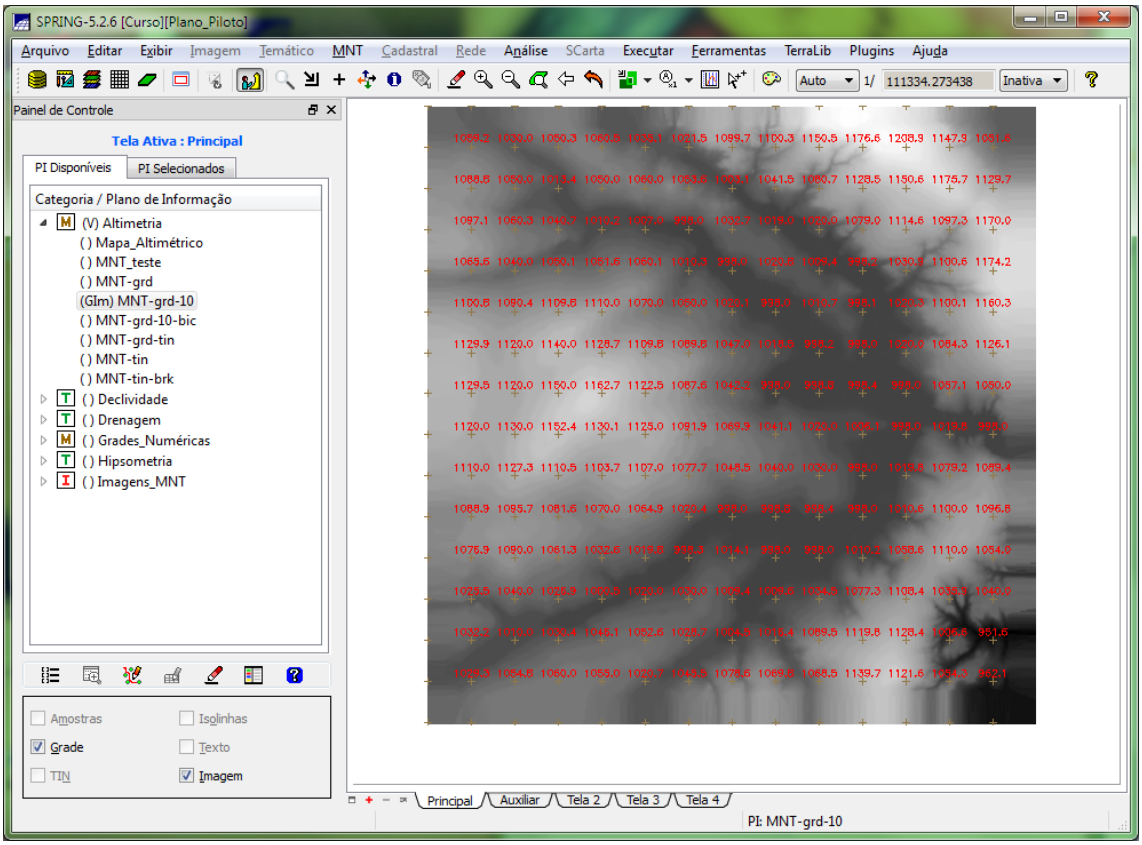

Figura 9 Refinamento de grade – interpolador bilinear

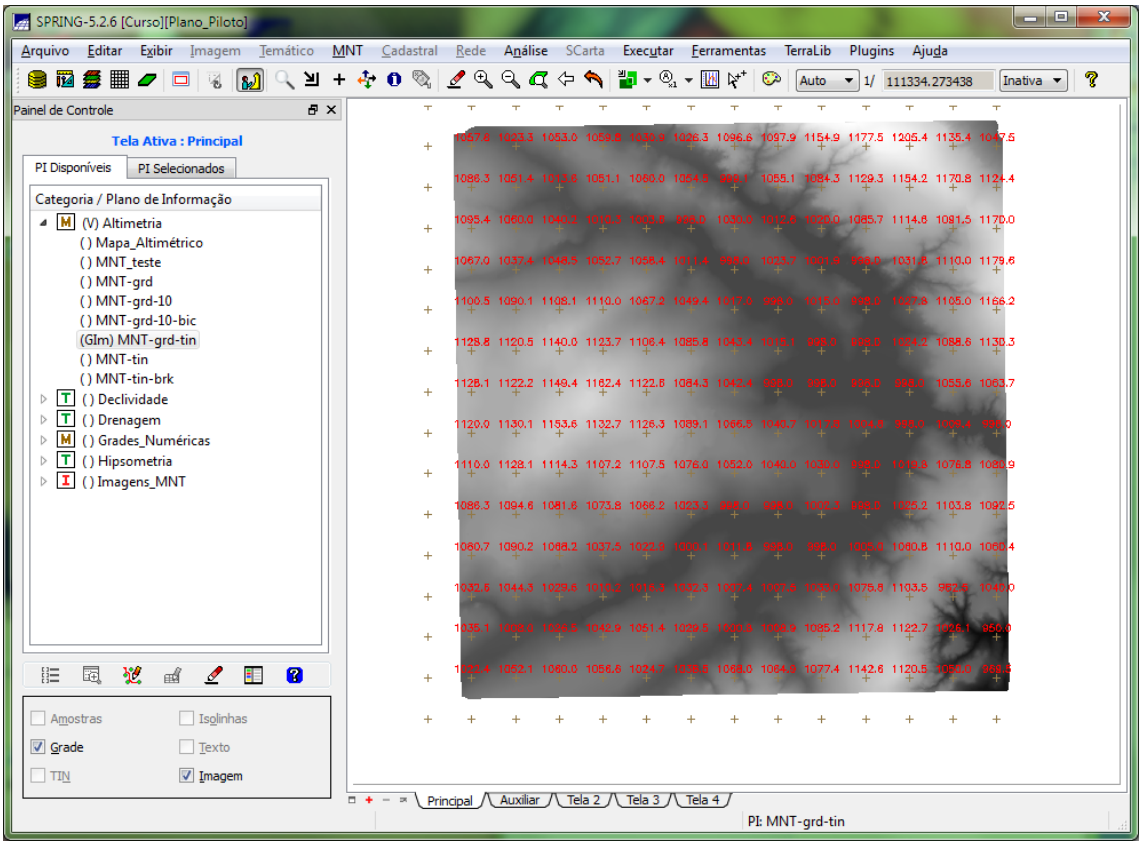

Figura 10 Grade regular a partir de TIN

Exercício 6 - Geração de Imagem para Modelo Numérico

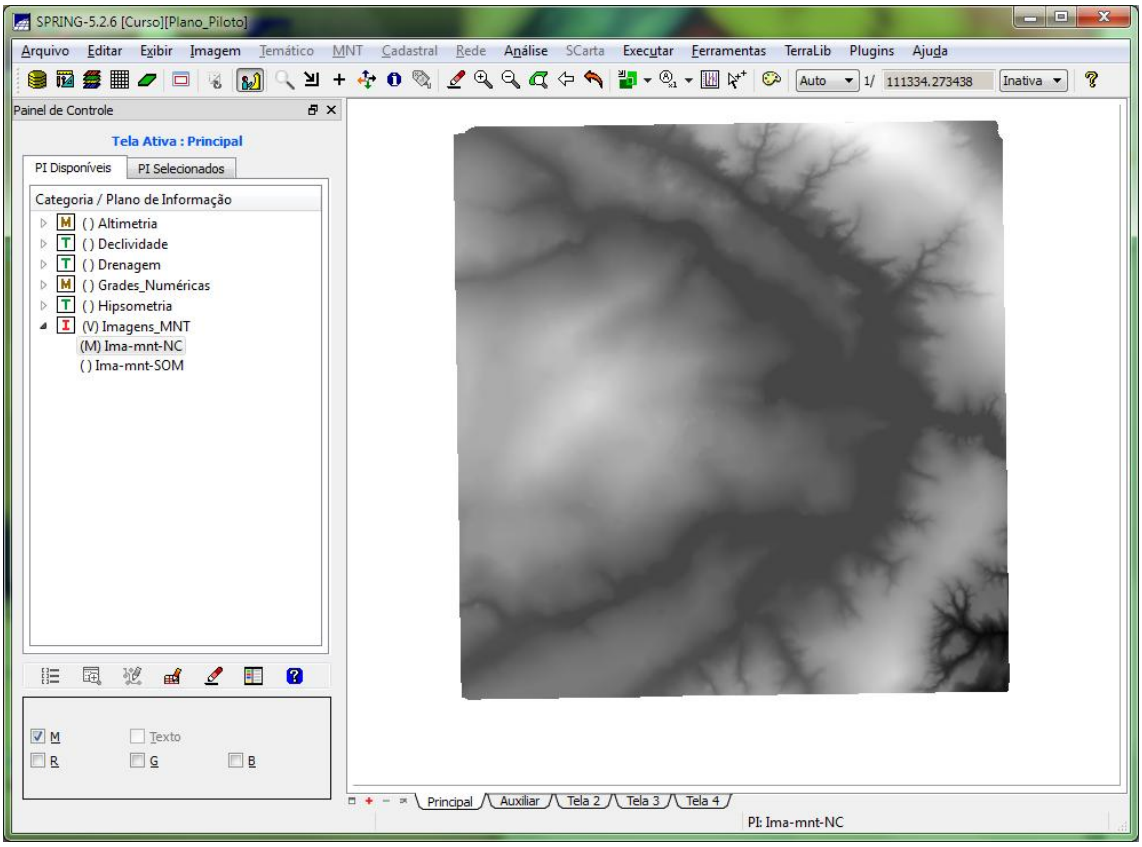

Figura 11 Imagem em níveis de cinza

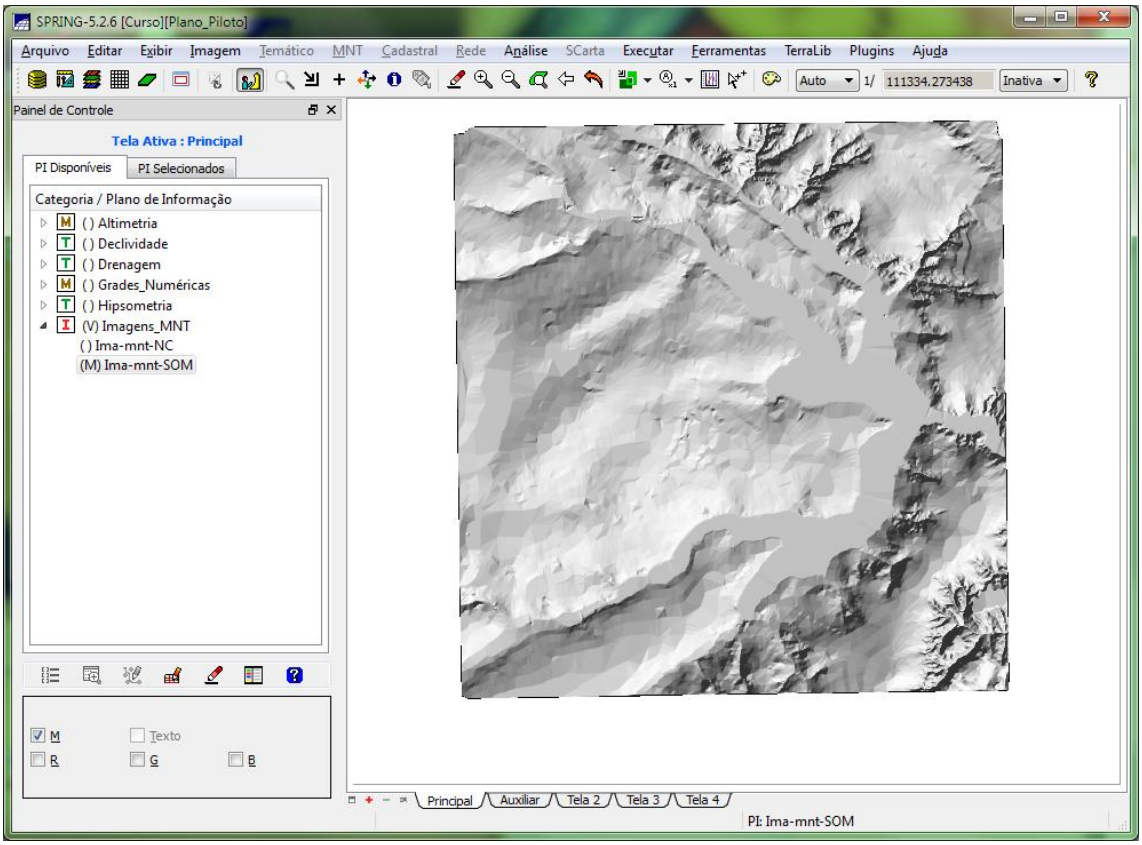

Figura 12 Imagem sombreada

Exercício 7 - Geração de Grade Declividade

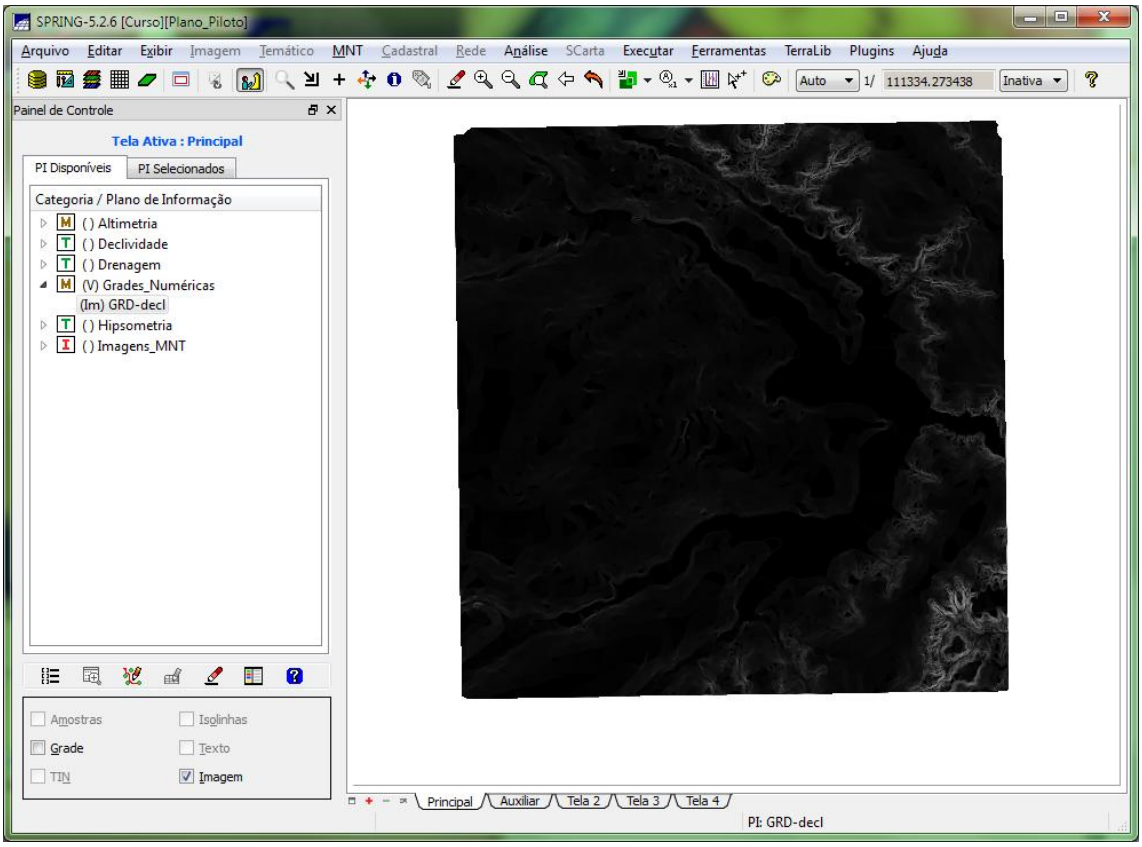

Figura 13 Grade de declividade

Exercício 8 - Fatiamento de Grade Numérica – Mapa de Declividade

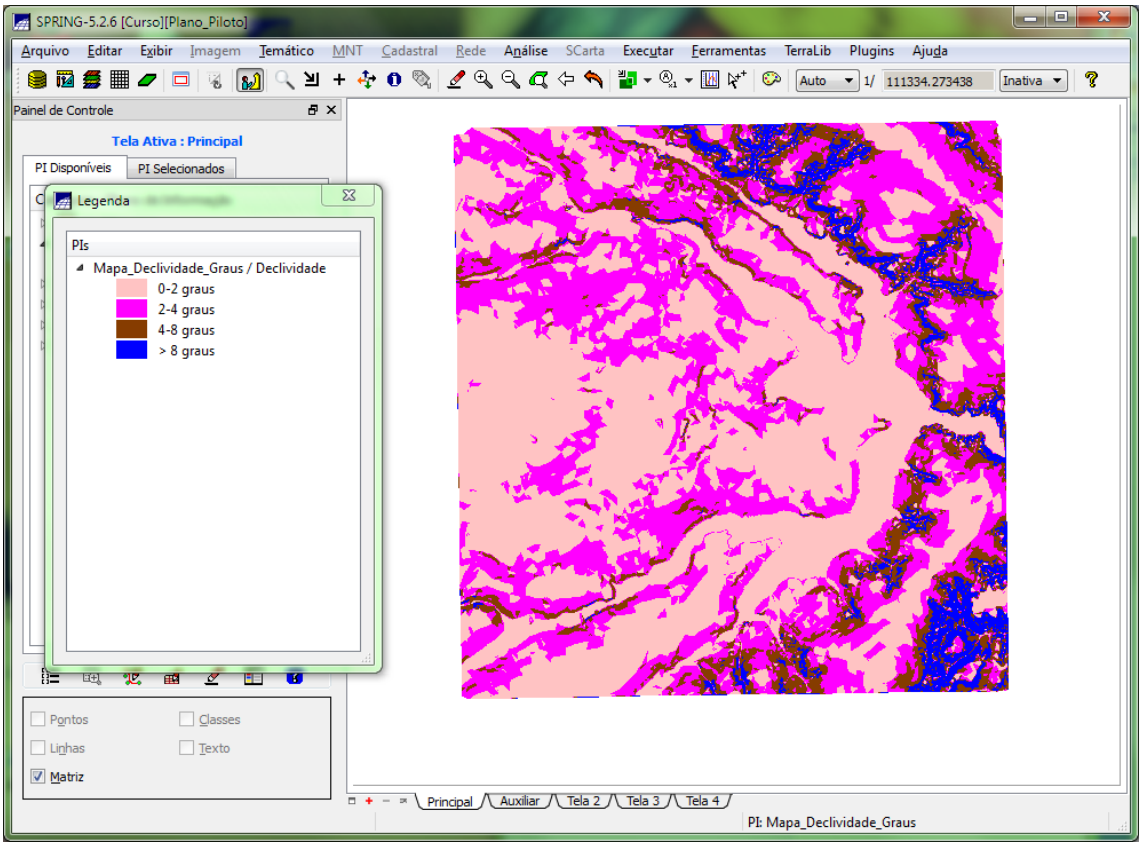

Figura 14 Fatiamento da grade de declividade

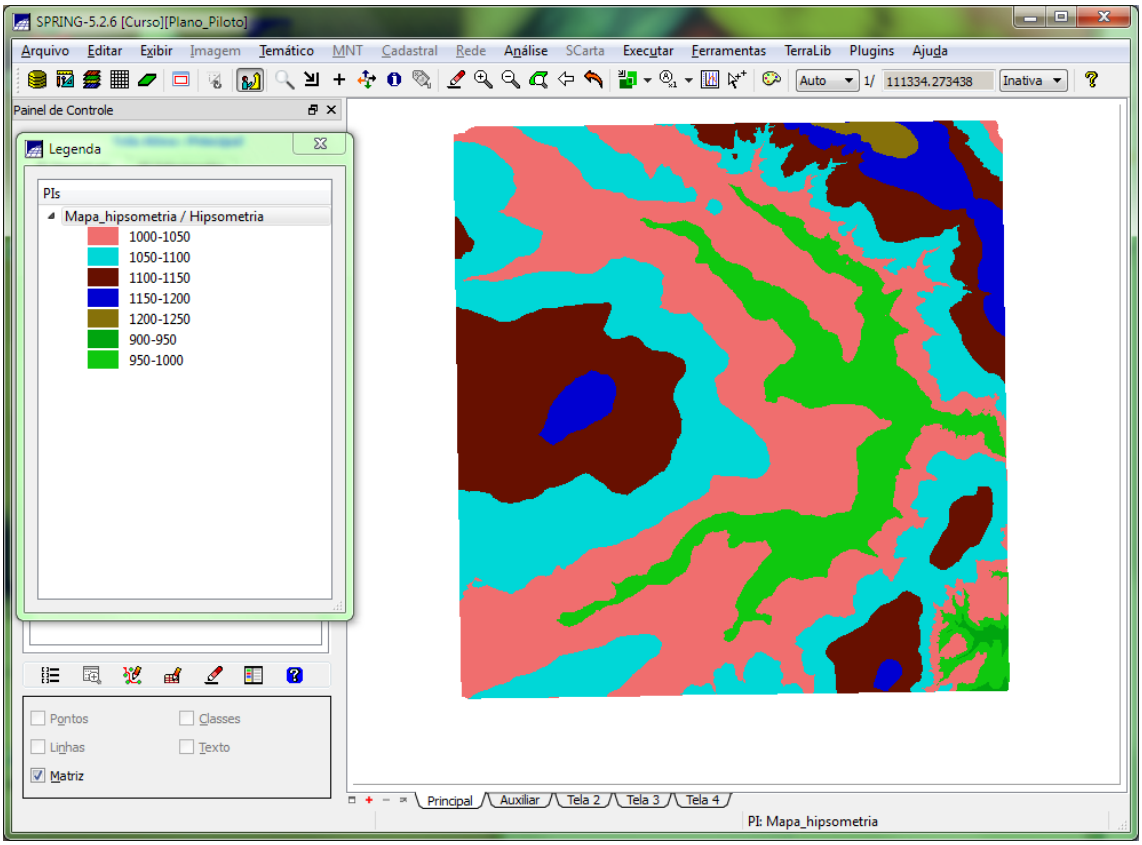

Figura 15 Mapa de hipsometria

Exercício 9 - Geração de Perfil a partir de grades

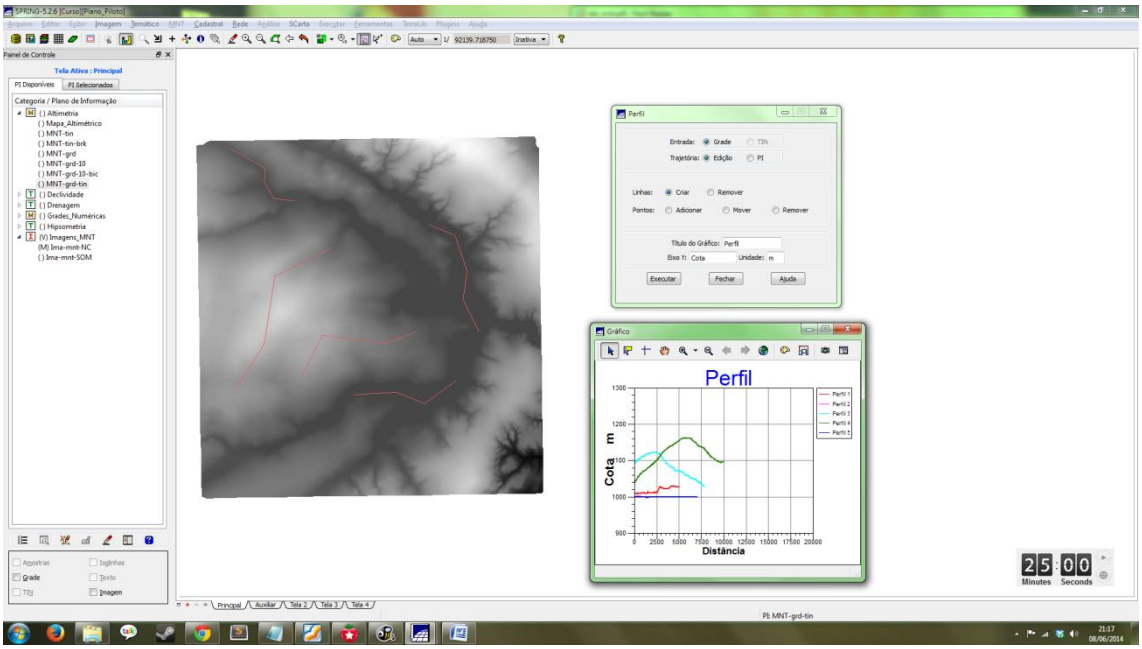

Figura 16 Geração de perfil a partir de trajetórias

Exercício 10 - Visualização de Imagem em 3D

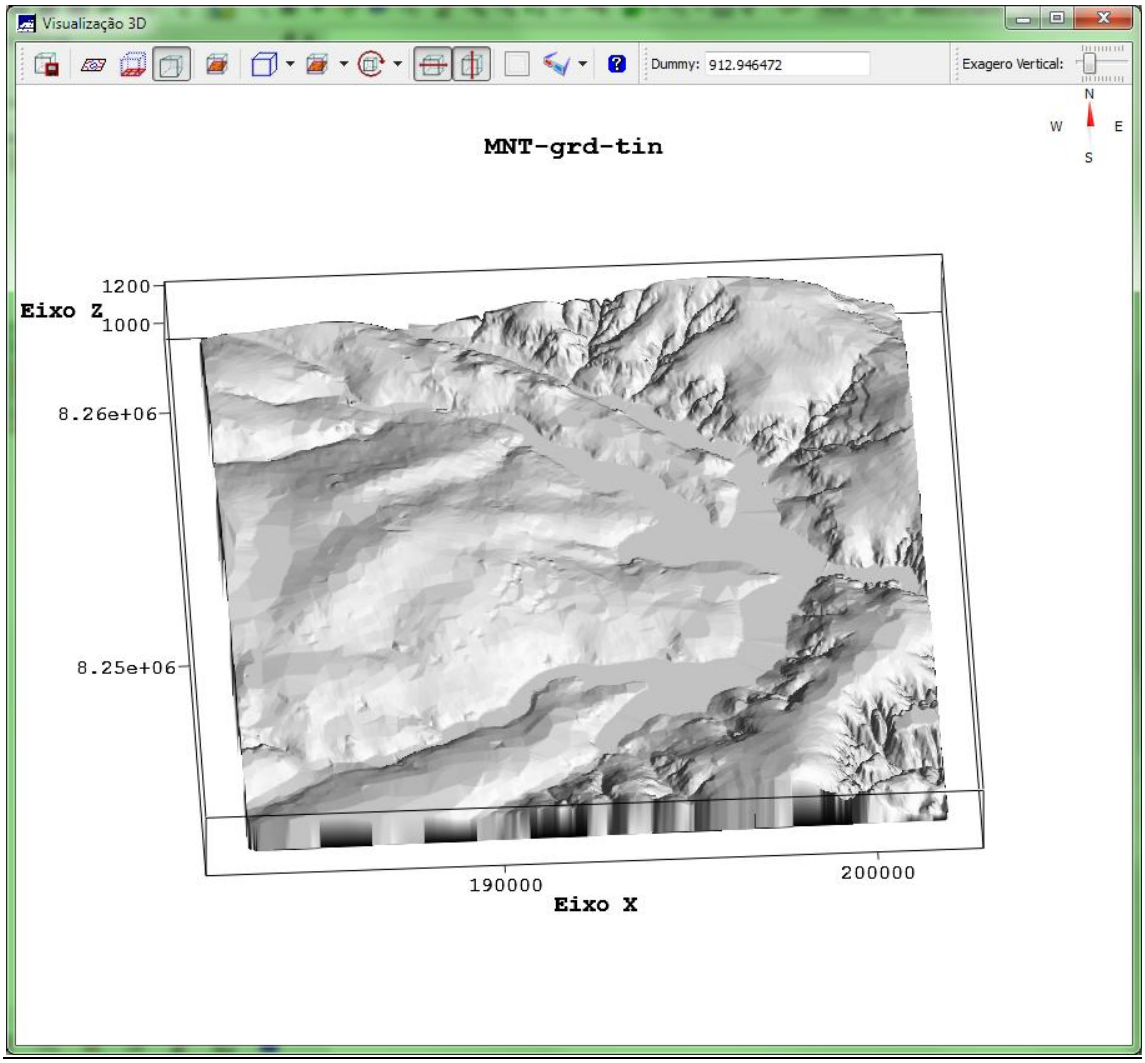

Figura 17 Visualização 3D da grade regular de altimetria