

# Texture Growth Regions

The diagram illustrates a three-step process:

- Points Selected:** A map showing red and green points scattered across a terrain.
- Region Generated:** A map showing yellow and red textured regions. A red arrow labeled "~70 sec" points from the first step to this one.
- Soils Extracted:** A map showing various colored soil regions. A red arrow points from the second step to this one.

Software interfaces shown include:

- Texture Growth Region Generation:**
  - Process: Texture Growth
  - Method: Standard Deviation
  - Input Raster: 'CBUTTE/CB\_SPOT.RVC/SPOT\_PAN
  - Deviation Range: 1.20
  - Training Radius: 6
  - Line Width: 1 Pixels
- Soils Extraction:**
  - Options: Partially Inside, Completely Inside, Clip Inside, Partially Outside, Completely Outside, Clip Outside

## Times Reported

All times reported were determined on a Pentium 133 with 16 Mb of memory running Windows 95. The time required for region generation processes that use reference rasters is sensitive to raster size. For example, the time reported to generate the Texture Growth Region shown above was determined using a 1389 line by 1025 column reference raster. When the raster size was decreased to 488 lines by 361 columns, the time required decreased to 20 seconds. This smaller sized raster was used in all other raster related examples.

## Advanced Options

The Advanced Options toggle button provides the ability to remove islands and subregions smaller than a specified size for all region generation methods.

Three diagrams illustrating the effect of the 'Advanced Options' toggle:

- Default:** Includes all islands and subregions. The 'Advanced Options' dialog shows 'Minimum subregion size: 0.0000' and 'Minimum island size: 0.0000'.
- All islands removed:** Using the 'Remove all islands' toggle. The 'Advanced Options' dialog shows 'Remove all islands' checked.
- Small subregions removed, islands restored:** Using the 'Minimum subregion size' option. The 'Advanced Options' dialog shows 'Minimum subregion size: 5.1657' and 'Remove all islands' unchecked.