Enhancing Shaded Relief with Terrain Texture Shader

Tom Patterson
US National Park Service
tom_patterson@nps.gov
Default settings

- **Palette**: Grayscale
- **Color Distribution**: Equal – Relative
- **Color Blend Amount**: 100%
- **Elevation**: 75
- **Vertical Enhancement**: 4.0
- **Constrain aspect ratio**: checked
- **Width**: 999
- **Height**: 1001

Options for **Use**, **Elevation**, and **Color** are available but not selected.

Photo: James Gordon/Flickr
Grayscale height map
Render Texture Shade

Accentuated detail

Palette: Grayscale
Color Distribution: Equal - Constant
Color Blend Amount: 100%
Elevation: 200
Vertical Enhancement: 4.0
Constrain aspect ratio
Width: 999
Height: 1001

1642 Use Elevation Color

1176

Cancel Render
Default settings

Palette: Grayscale
Color Distribution: Equal – Relative
Color Blend Amount: 100%
Elevation: 75
Vertical Enhancement: 4.0

Constrain aspect ratio: checked
Width: 999
Height: 1001
Less contrast

Render Texture Shade

Palette
Grayscale

Color Distribution
Equal - Relative

Color Blend Amount
100%

Elevation
Texture
75

Vertical Enhancement
-4

Constrain aspect ratio

Width
999

Height
1001

1642
Use

1176

1642

1176

Cancel
Render
More contrast

Render Texture Shade

Palette: Grayscale
Color Distribution: Equal - Relative
Color Blend Amount: 100%
Elevation: 75
Vertical Enhancement: 10.0
Constrain aspect ratio
Width: 999
Height: 1001

Use: 1642
Elevation: 1176
Color: 1176

Cancel  Render
Photoshop Compositing

**Terrain Texture Shader**
- Texture Shade (default settings)
- Texture Shade (rock detail)

**Natural Scene Designer**
- Shaded Relief
- Slope Mask
Shaded Relief + Texture Shade
Colorized and Merged with Aerial Photography
1) Flat texture shade
2) Merged shaded relief
3) Beige adjustment
4) Green hypsometric tint
5) Yellow illumination
6) White summit highlights
7) Blue shadows
8) Rock detail
9) Glaciers
Fjordland National Park, New Zealand

Mitre Peak

Milford Sound

Photo: Christine Wagner/Flickr
Dinosaur National Monument, Utah

Photo: jdurchen/Flickr
Thank You!
www.shadedrelief.com