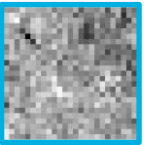
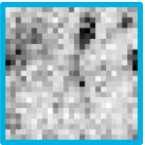
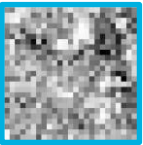
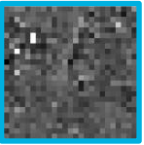
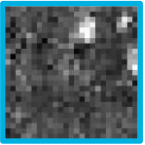
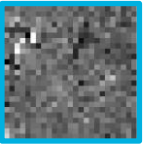
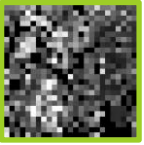
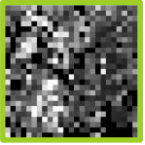
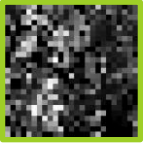
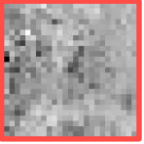
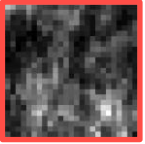
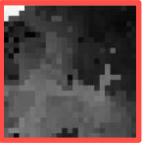


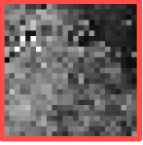
Input











color coding:  
TLS RGB GEO

width x height: 25 x 25

number of bands:

- 4 (TLS)
- 7 (TLS, RGB)
- 10 (TLS, GEO)
- 13 (TLS, RGB, GEO)

Conv 2D (32)

Activation (leaky ReLU)

Batch Normalization

output shape: 25 x 25 x 32

Max Pooling 2D

output shape: 12 x 12 x 32

Conv 2D (48)

Activation (leaky ReLU)

Batch Normalization

output shape: 12 x 12 x 48

Max Pooling 2D

output shape: 6 x 6 x 48

Flatten

output shape: 1728

Dense (256)

Activation (leaky ReLU)

Dropout

output shape: 256

Dense (84)

Activation (leaky ReLU)

Dropout

output shape: 84

Dense (5)

Activation (Softmax)

output shape: 5

Output

1	2	3	4	5
0.6	0.1	0.2	0.0	0.1

# Convolutional Neural Network Architecture

Conv 2D (units)

Kernel Size: 5 x 5

Stride: 1 x 1

Padding: yes

Weight Decay: 0.01

Kernel Initializer: He Normal

Max Pooling 2D

Pool Size: 2 x 2

Stride: 2 x 2

Padding: no

Dense (units)

Weight Decay: 0.01

Kernel Initializer: He Normal

Dropout

Dropout Rate: 0.5