Forest to agri.	Agri. to forest	Agri. to built-up
conv-64		
max pooling		
conv-128		
max pooling		
dense-579	dense-579	dense-579
dense-579	dense-579	dense-579
dense-579	dense-579	dense-579
		dense-100
Sigmoid		

Notes:
1. Conv-N denotes a convolutional block composing of a convolutional layer with 3×3 filter size and N of filters, a Batchnorm layer and a ReLU layer.
2. Max pooling layer has a kernel size of 3×3 and a stride of 3.
3. Dense-N denotes fully connected (dense) layer with N of hidden units.
4. Input image tensor has the shape of $(7 \times 81 \times 81)$.
5. For each convolutional layer in the encoder, there is a corresponding deconvolutional layer in the decoder; for each each max pooling layer, there is a corresponding unpooling layer in the decoder.