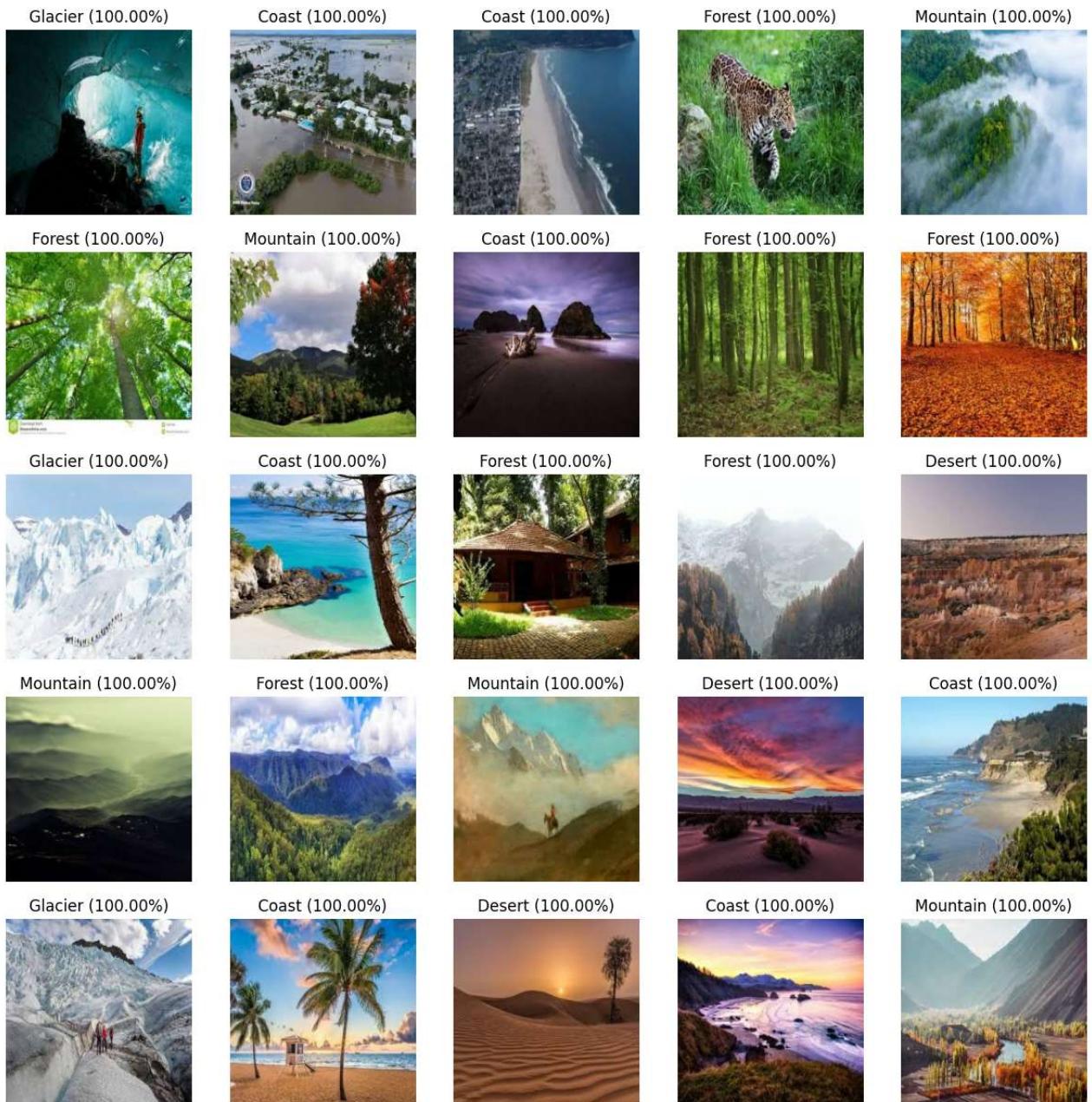


Visualize Dataset

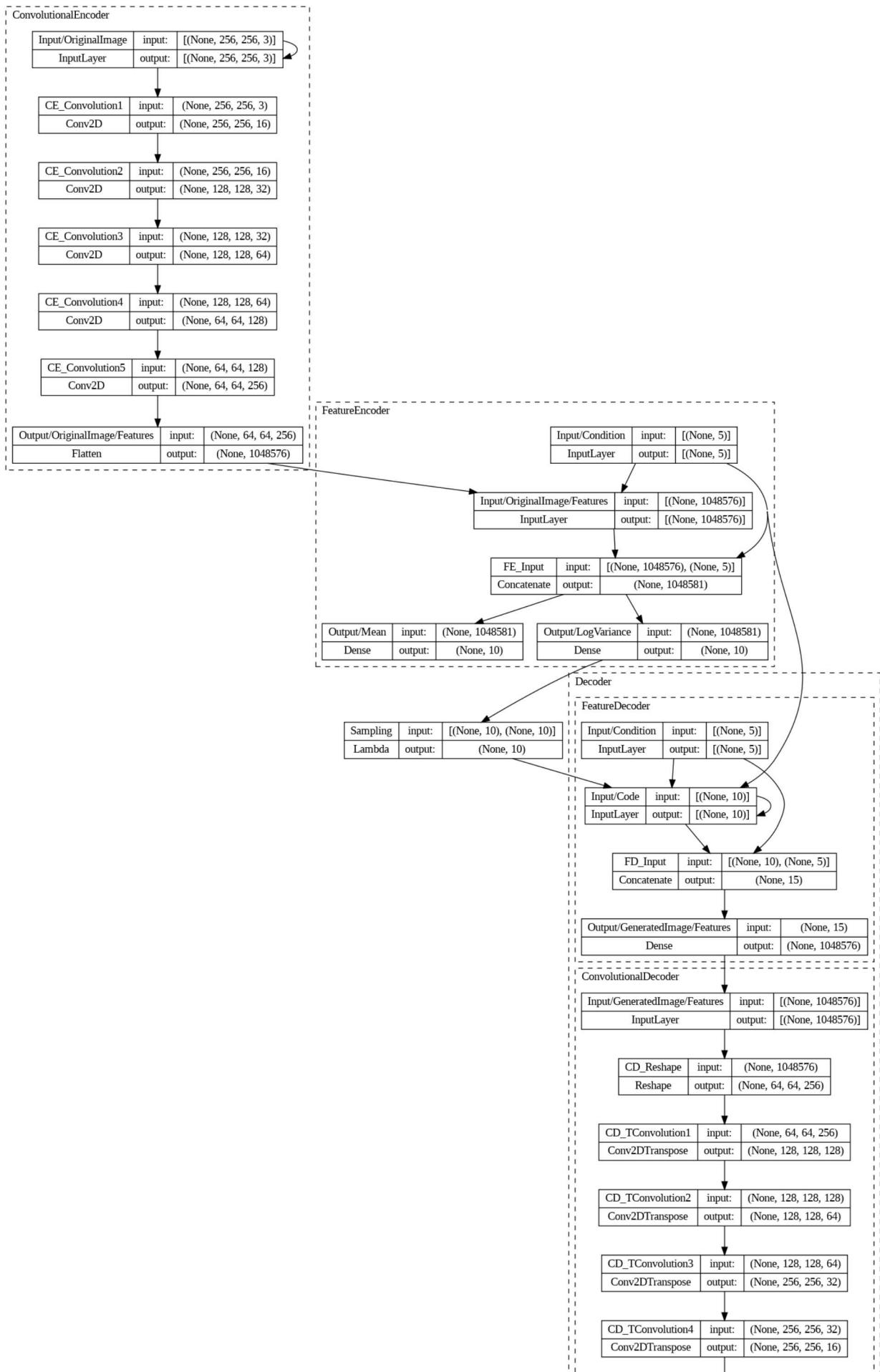


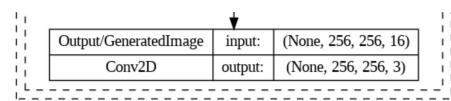
Conditional Variational AutoEncoder (CVAE)

Model: "CVAE"

Layer (type)	Output Shape	Param #	Connected to
<hr/>			
Input/OriginalImage (Input Layer)	[(None, 256, 256, 3)]	0	[]
ConvolutionalEncoder (Sequential)	(None, 1048576)	392608	['Input/OriginalImage[0][0]']
Input/Condition (InputLayer)	[(None, 5)]	0	[]
FeatureEncoder (Functional)	[(None, 10), (None, 10)]	2097164	['ConvolutionalEncoder[1][0]', 'Input/Condition[0][0]']
Sampling (Lambda)	(None, 10)	0	['FeatureEncoder[1][0]', 'FeatureEncoder[1][1]']
Decoder (Functional)	(None, 256, 256, 3)	1695173	['Sampling[0][0]', 'Input/Condition[0][0]']
1			
<hr/>			
Total params: 38315979 (146.16 MB)			
Trainable params: 38315979 (146.16 MB)			
Non-trainable params: 0 (0.00 Byte)			

Out[71]:





Training

Epoch 1/100
 6/Unknown - 24s 2s/step - loss: 752.4792 - reconstruction_error: 749.2530 - regularization_error: 3.226
 2
 WARNING:tensorflow:Callback method `on_train_batch_end` is slow compared to the batch time (batch time: 0.125
 6s vs `on_train_batch_end` time: 1.7654s). Check your callbacks.
 300/Unknown - 97s 279ms/step - loss: 564.0223 - reconstruction_error: 560.0109 - regularization_error: 4.
 0116
 [2023-12-07 13:06:59.861097]: Generating fixed images for epoch 1 ...



[2023-12-07 13:07:00.498497]: Generating random images for epoch 1 ...



300/300 [=====] - 115s 342ms/step - loss: 564.0223 - reconstruction_error: 560.0109 - regularization_error: 4.0116 - val_loss: 461.2056 - val_reconstruction_error: 456.1421 - val_regularization_error: 5.1594

Epoch 2/100

300/300 [=====] - ETA: 0s - loss: 439.0842 - reconstruction_error: 433.9446 - regularization_error: 5.1395

[2023-12-07 13:08:17.974826]: Generating fixed images for epoch 2 ...



[2023-12-07 13:08:18.610895]: Generating random images for epoch 2 ...



300/300 [=====] - 78s 258ms/step - loss: 439.0842 - reconstruction_error: 433.9446 - regularization_error: 5.1395 - val_loss: 420.5539 - val_reconstruction_error: 415.5674 - val_regularization_error: 5.0856

Epoch 3/100

300/300 [=====] - ETA: 0s - loss: 400.3311 - reconstruction_error: 395.2156 - regularization_error: 5.1154

[2023-12-07 13:09:31.463941]: Generating fixed images for epoch 3 ...

08/12/23, 18:38

wide-variant-d10



[2023-12-07 13:09:32.562784]: Generating random images for epoch 3 ...



300/300 [=====] - 74s 246ms/step - loss: 400.3311 - reconstruction_error: 395.2156 - regularization_error: 5.1154 - val_loss: 402.7016 - val_reconstruction_error: 397.3843 - val_regularization_error: 5.1677

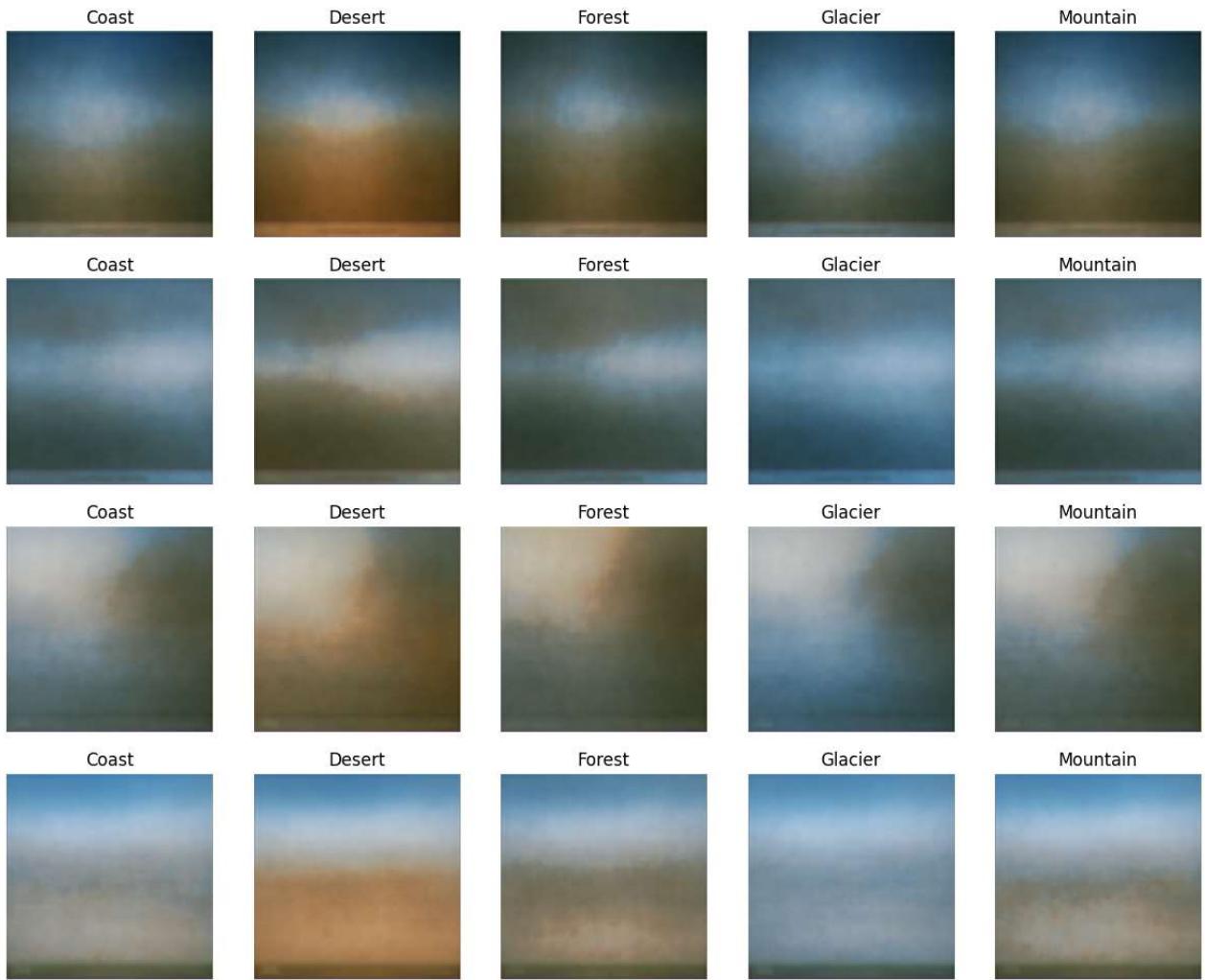
Epoch 4/100

300/300 [=====] - ETA: 0s - loss: 392.7453 - reconstruction_error: 387.6013 - regularization_error: 5.1437

[2023-12-07 13:10:46.494702]: Generating fixed images for epoch 4 ...



[2023-12-07 13:10:47.547367]: Generating random images for epoch 4 ...

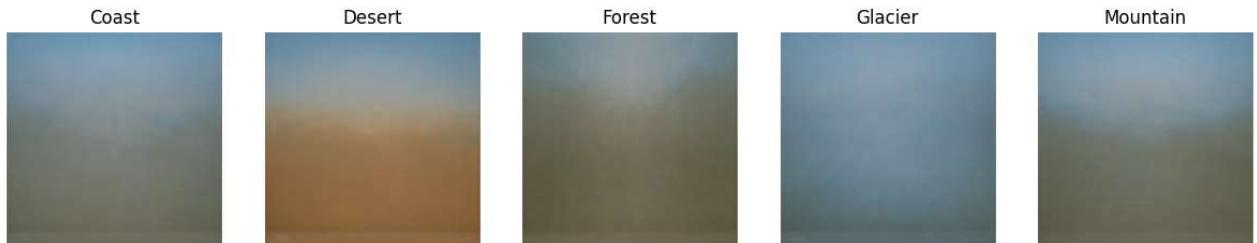


300/300 [=====] - 75s 247ms/step - loss: 392.7453 - reconstruction_error: 387.6013 - regularization_error: 5.1437 - val_loss: 394.6368 - val_reconstruction_error: 389.5476 - val_regularization_e
rror: 5.1862

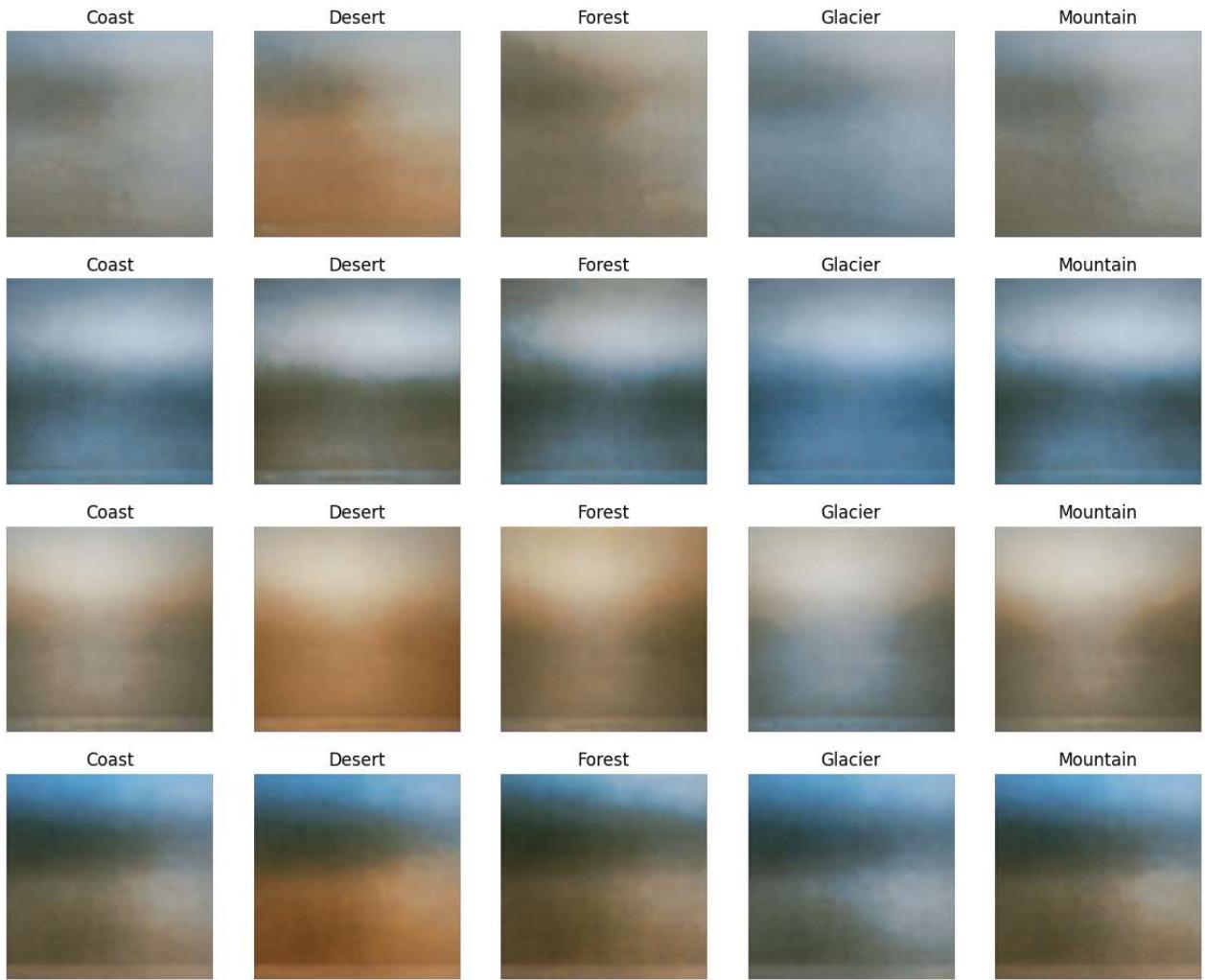
Epoch 5/100

300/300 [=====] - ETA: 0s - loss: 389.4864 - reconstruction_error: 384.3049 - regularization_error: 5.1816

[2023-12-07 13:11:54.139221]: Generating fixed images for epoch 5 ...



[2023-12-07 13:11:54.640911]: Generating random images for epoch 5 ...



300/300 [=====] - 67s 223ms/step - loss: 389.4864 - reconstruction_error: 384.3049 - regularization_error: 5.1816 - val_loss: 393.7358 - val_reconstruction_error: 388.5295 - val_regularization_e
rror: 5.2709

Epoch 6/100

300/300 [=====] - ETA: 0s - loss: 387.6226 - reconstruction_error: 382.4349 - regularization_error: 5.1877

[2023-12-07 13:13:03.280603]: Generating fixed images for epoch 6 ...



[2023-12-07 13:13:04.543018]: Generating random images for epoch 6 ...



300/300 [=====] - 71s 235ms/step - loss: 387.6226 - reconstruction_error: 382.4349 - regularization_error: 5.1877 - val_loss: 392.5188 - val_reconstruction_error: 387.7848 - val_regularization_error: 5.1898

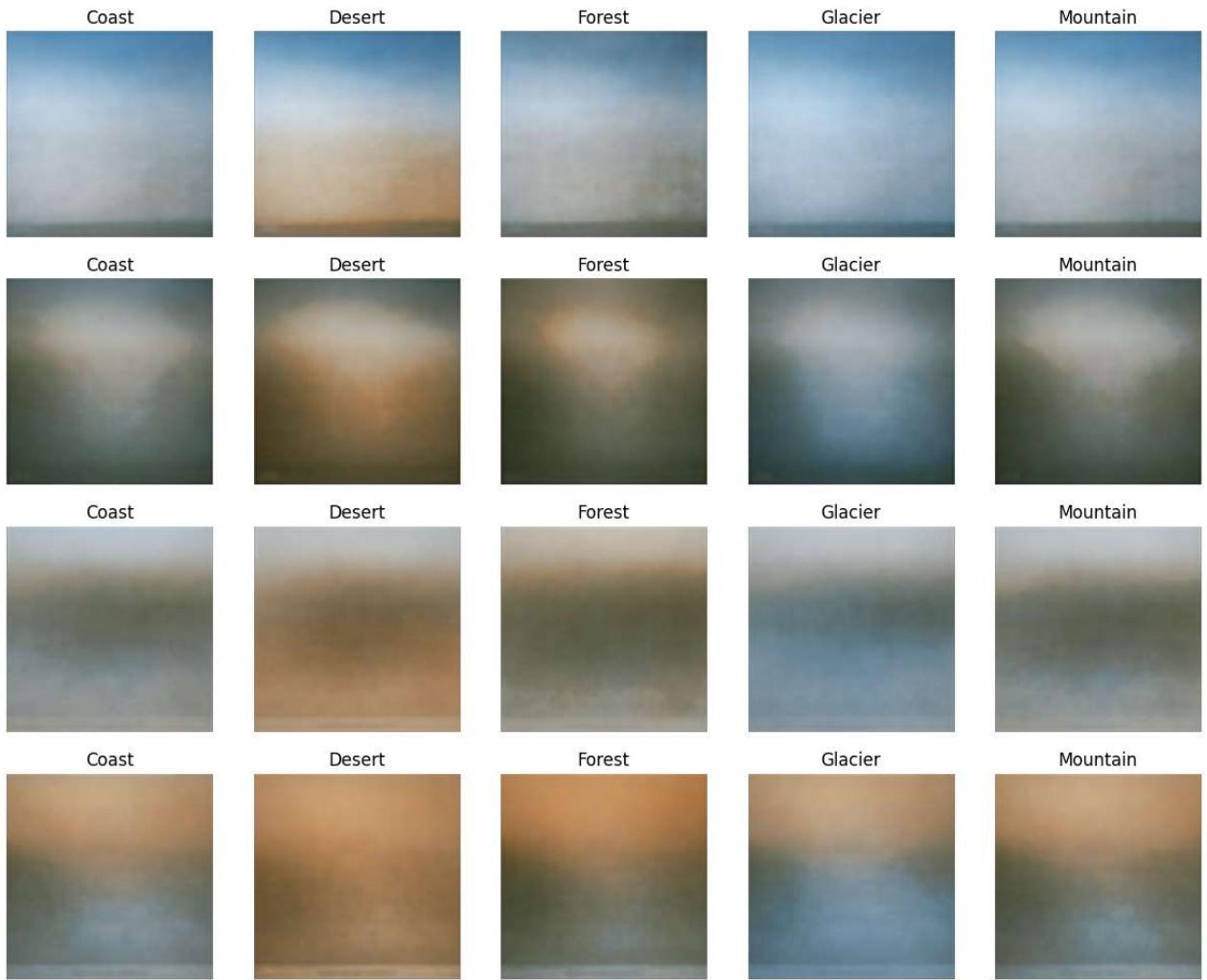
Epoch 7/100

300/300 [=====] - ETA: 0s - loss: 386.1522 - reconstruction_error: 380.9608 - regularization_error: 5.1913

[2023-12-07 13:14:16.237585]: Generating fixed images for epoch 7 ...



[2023-12-07 13:14:16.751730]: Generating random images for epoch 7 ...



300/300 [=====] - 71s 236ms/step - loss: 386.1522 - reconstruction_error: 380.9608 - regularization_error: 5.1913 - val_loss: 390.8438 - val_reconstruction_error: 385.5613 - val_regularization_e
rror: 5.2362

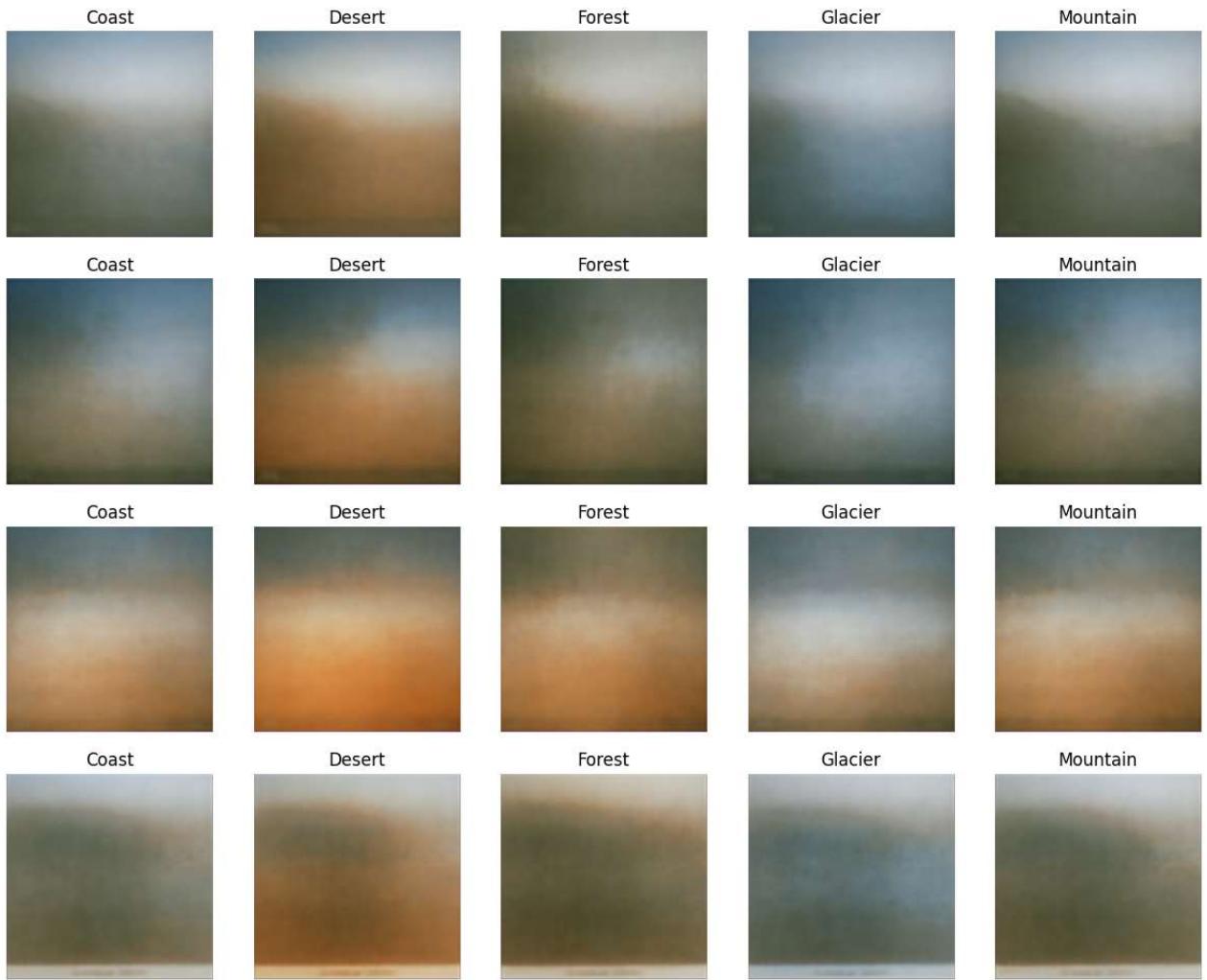
Epoch 8/100

300/300 [=====] - ETA: 0s - loss: 383.1066 - reconstruction_error: 377.9163 - regularization_error: 5.1903

[2023-12-07 13:15:34.079038]: Generating fixed images for epoch 8 ...



[2023-12-07 13:15:34.716297]: Generating random images for epoch 8 ...



300/300 [=====] - 78s 258ms/step - loss: 383.1066 - reconstruction_error: 377.9163 - regularization_error: 5.1903 - val_loss: 391.5129 - val_reconstruction_error: 386.6784 - val_regularization_e
rror: 5.1425

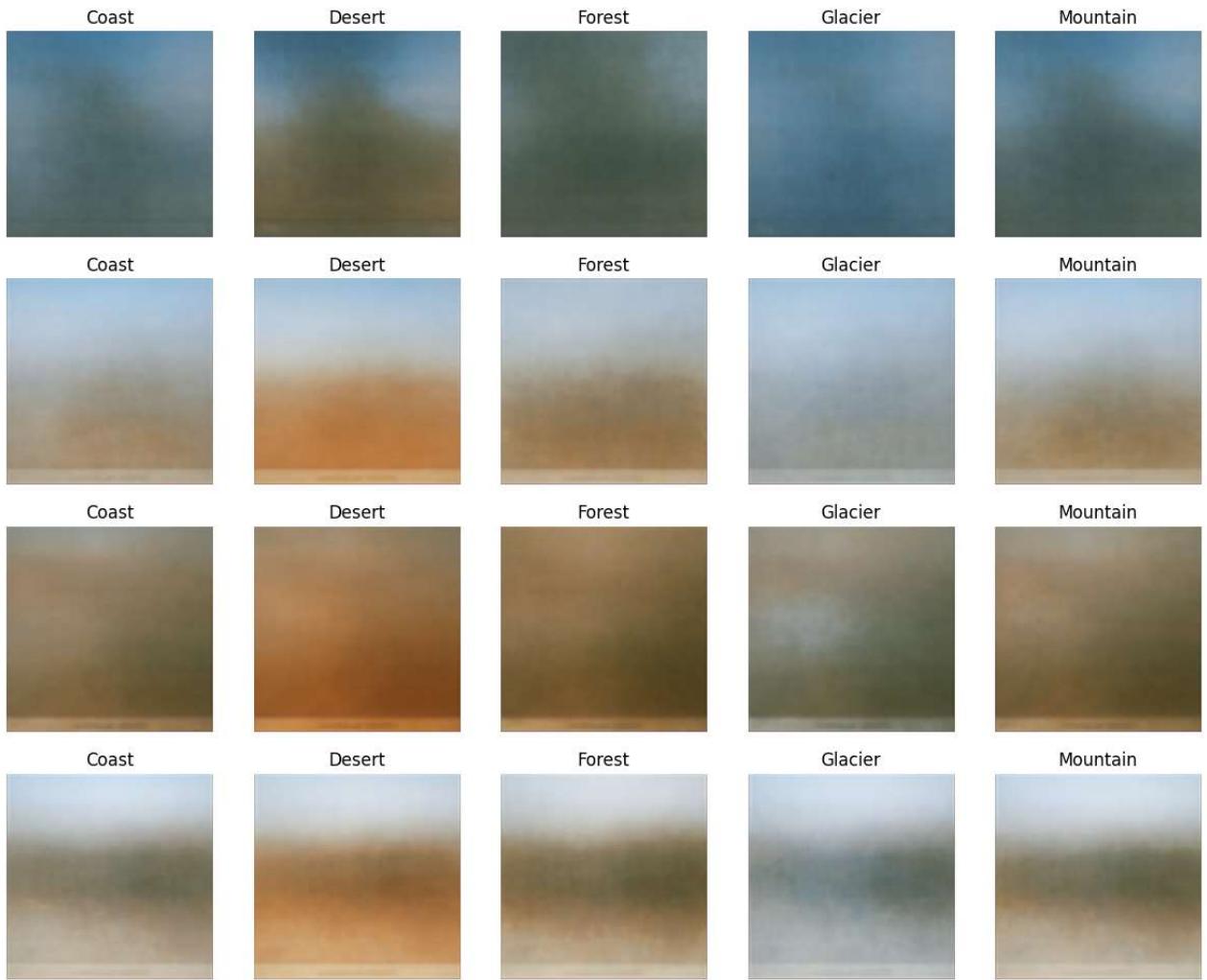
Epoch 9/100

300/300 [=====] - ETA: 0s - loss: 383.1743 - reconstruction_error: 377.9563 - regularization_error: 5.2180

[2023-12-07 13:16:44.721483]: Generating fixed images for epoch 9 ...



[2023-12-07 13:16:45.197923]: Generating random images for epoch 9 ...



300/300 [=====] - 71s 235ms/step - loss: 383.1743 - reconstruction_error: 377.9563 - regularization_error: 5.2180 - val_loss: 389.9901 - val_reconstruction_error: 384.8683 - val_regularization_error: 5.2019

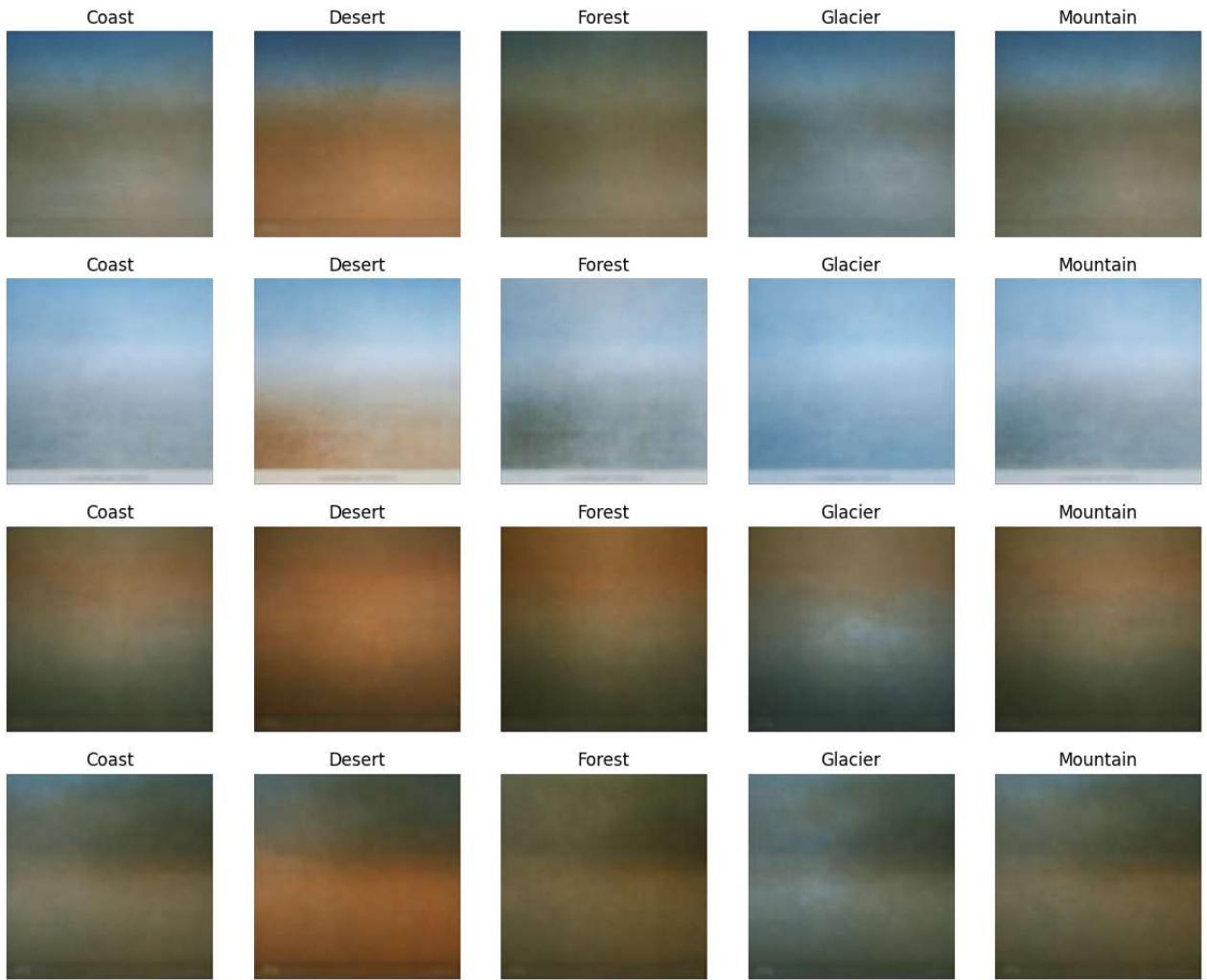
Epoch 10/100

300/300 [=====] - ETA: 0s - loss: 382.0108 - reconstruction_error: 376.8056 - regularization_error: 5.2052

[2023-12-07 13:17:58.590076]: Generating fixed images for epoch 10 ...



[2023-12-07 13:17:59.078076]: Generating random images for epoch 10 ...



300/300 [=====] - 73s 243ms/step - loss: 382.0108 - reconstruction_error: 376.8056 - regularization_error: 5.2052 - val_loss: 387.3548 - val_reconstruction_error: 382.1263 - val_regularization_e
rror: 5.1619

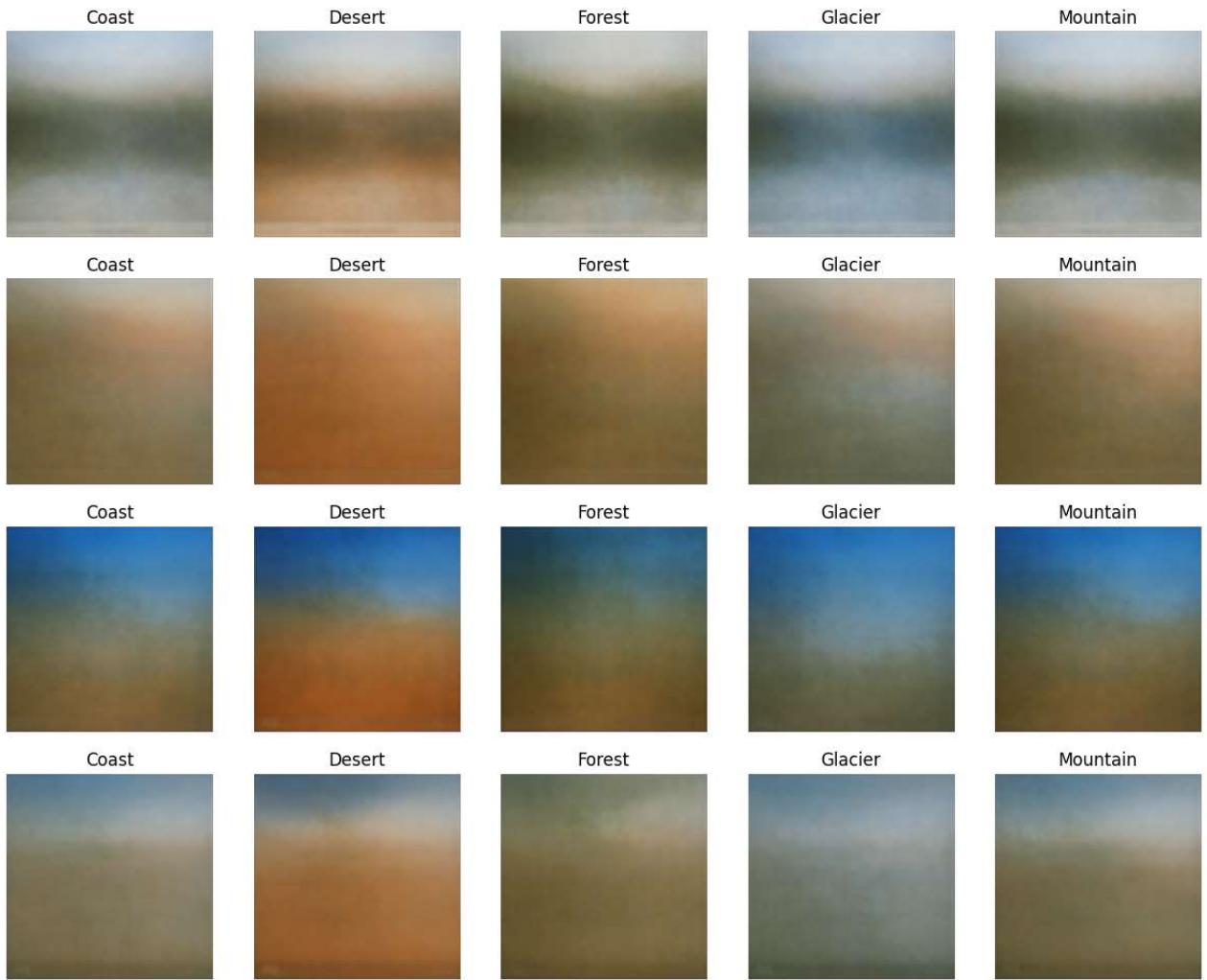
Epoch 11/100

300/300 [=====] - ETA: 0s - loss: 380.3899 - reconstruction_error: 375.1555 - regularization_error: 5.2345

[2023-12-07 13:19:13.615094]: Generating fixed images for epoch 11 ...



[2023-12-07 13:19:14.132967]: Generating random images for epoch 11 ...



300/300 [=====] - 75s 249ms/step - loss: 380.3899 - reconstruction_error: 375.1555 - regularization_error: 5.2345 - val_loss: 388.0284 - val_reconstruction_error: 383.1093 - val_regularization_error: 5.2271

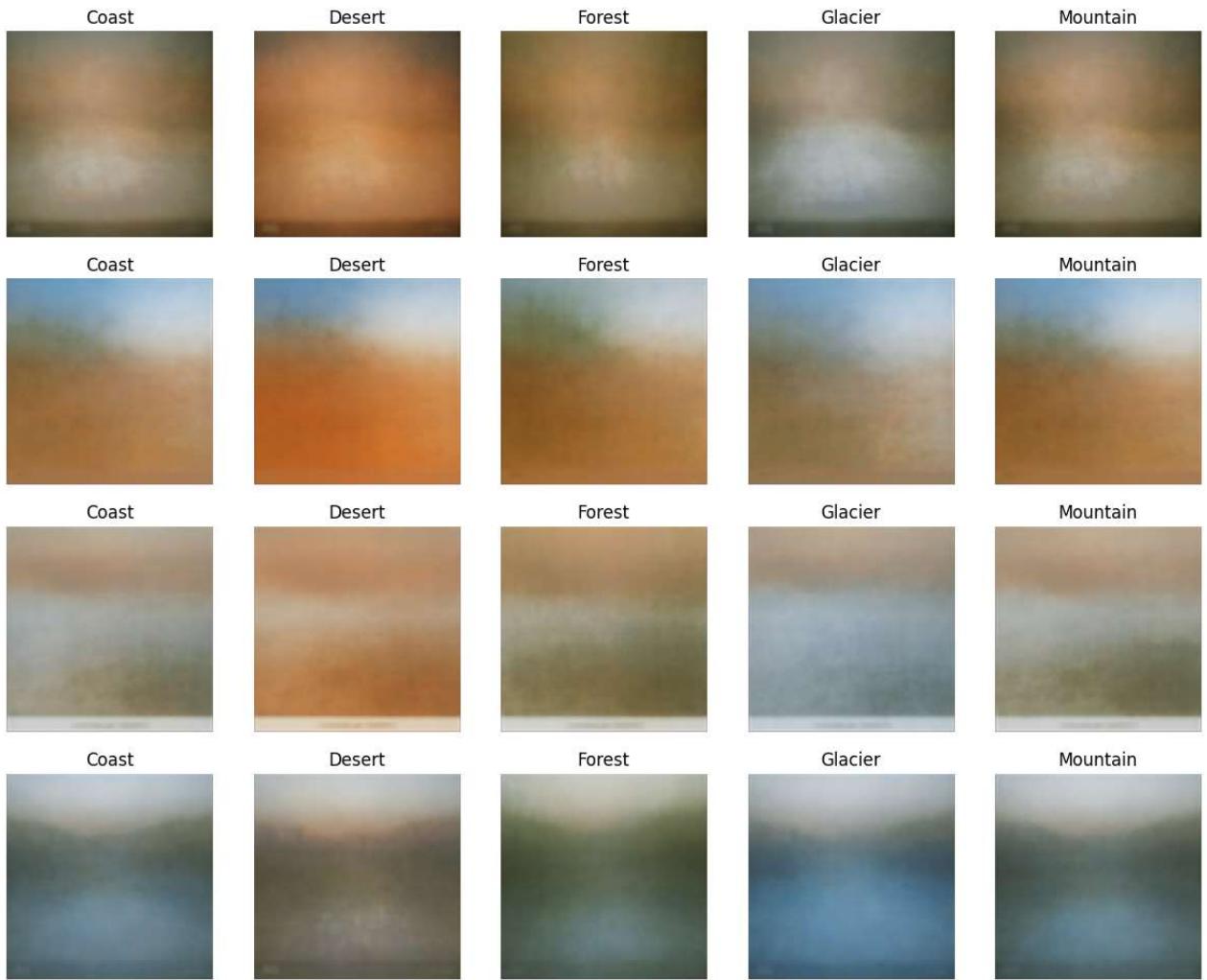
Epoch 12/100

300/300 [=====] - ETA: 0s - loss: 379.0887 - reconstruction_error: 373.8586 - regularization_error: 5.2300

[2023-12-07 13:20:32.867006]: Generating fixed images for epoch 12 ...



[2023-12-07 13:20:33.502414]: Generating random images for epoch 12 ...



300/300 [=====] - 79s 264ms/step - loss: 379.0887 - reconstruction_error: 373.8586 - regularization_error: 5.2300 - val_loss: 386.6365 - val_reconstruction_error: 381.5708 - val_regularization_error: 5.2059

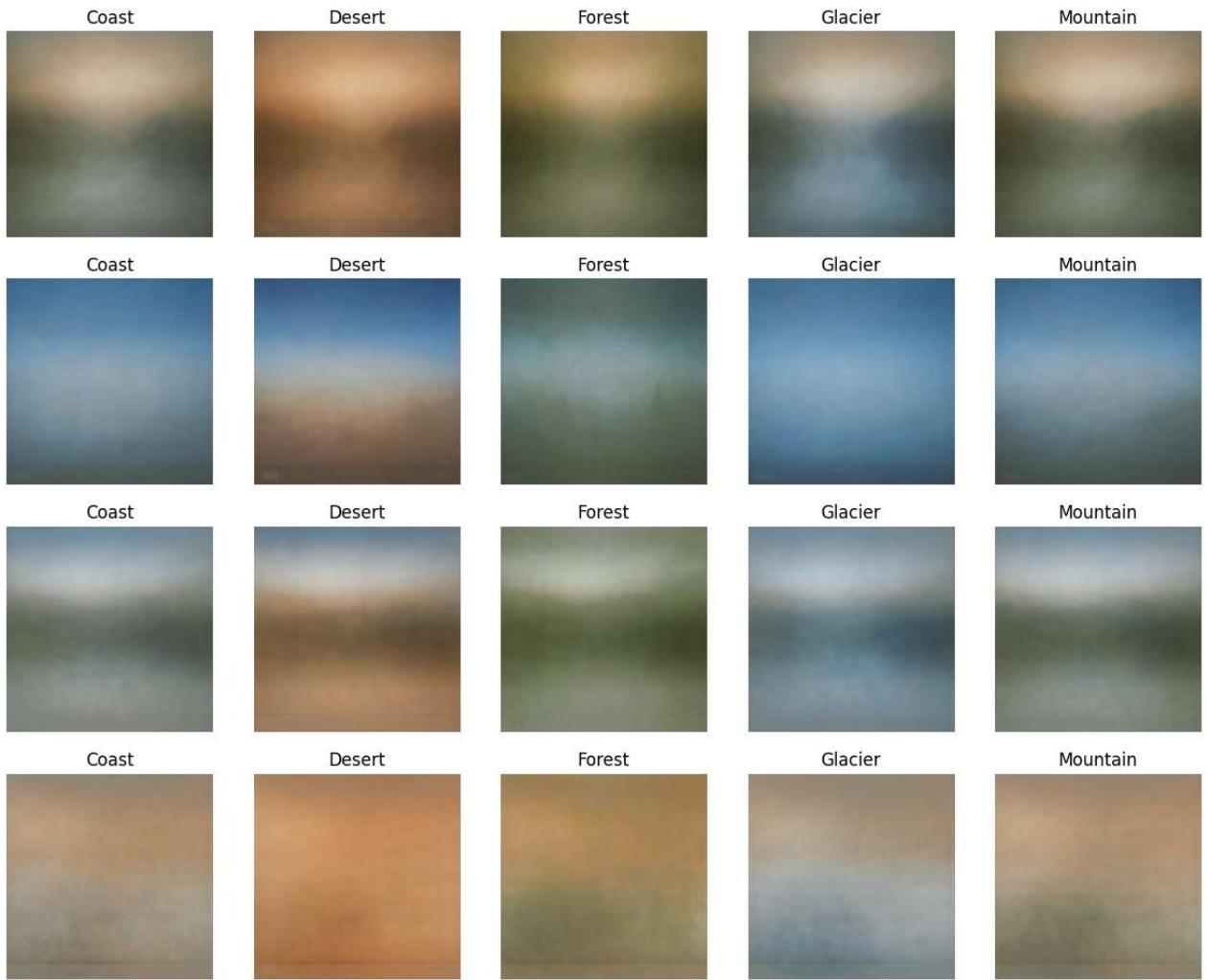
Epoch 13/100

300/300 [=====] - ETA: 0s - loss: 379.4424 - reconstruction_error: 374.2323 - regularization_error: 5.2104

[2023-12-07 13:21:45.542734]: Generating fixed images for epoch 13 ...



[2023-12-07 13:21:46.529465]: Generating random images for epoch 13 ...



300/300 [=====] - 73s 243ms/step - loss: 379.4424 - reconstruction_error: 374.2323 - regularization_error: 5.2104 - val_loss: 385.3985 - val_reconstruction_error: 380.5631 - val_regularization_error: 5.2523

Epoch 14/100

300/300 [=====] - ETA: 0s - loss: 377.5599 - reconstruction_error: 372.3445 - regularization_error: 5.2153

[2023-12-07 13:22:59.558671]: Generating fixed images for epoch 14 ...



[2023-12-07 13:23:00.527947]: Generating random images for epoch 14 ...



300/300 [=====] - 74s 244ms/step - loss: 377.5599 - reconstruction_error: 372.3445 - regularization_error: 5.2153 - val_loss: 386.8810 - val_reconstruction_error: 381.5340 - val_regularization_e
rror: 5.2414

Epoch 15/100

300/300 [=====] - ETA: 0s - loss: 376.2248 - reconstruction_error: 370.9800 - regularization_error: 5.2448

[2023-12-07 13:24:16.515086]: Generating fixed images for epoch 15 ...



[2023-12-07 13:24:17.456002]: Generating random images for epoch 15 ...



300/300 [=====] - 77s 257ms/step - loss: 376.2248 - reconstruction_error: 370.9800 - regularization_error: 5.2448 - val_loss: 383.4657 - val_reconstruction_error: 378.2369 - val_regularization_error: 5.2960

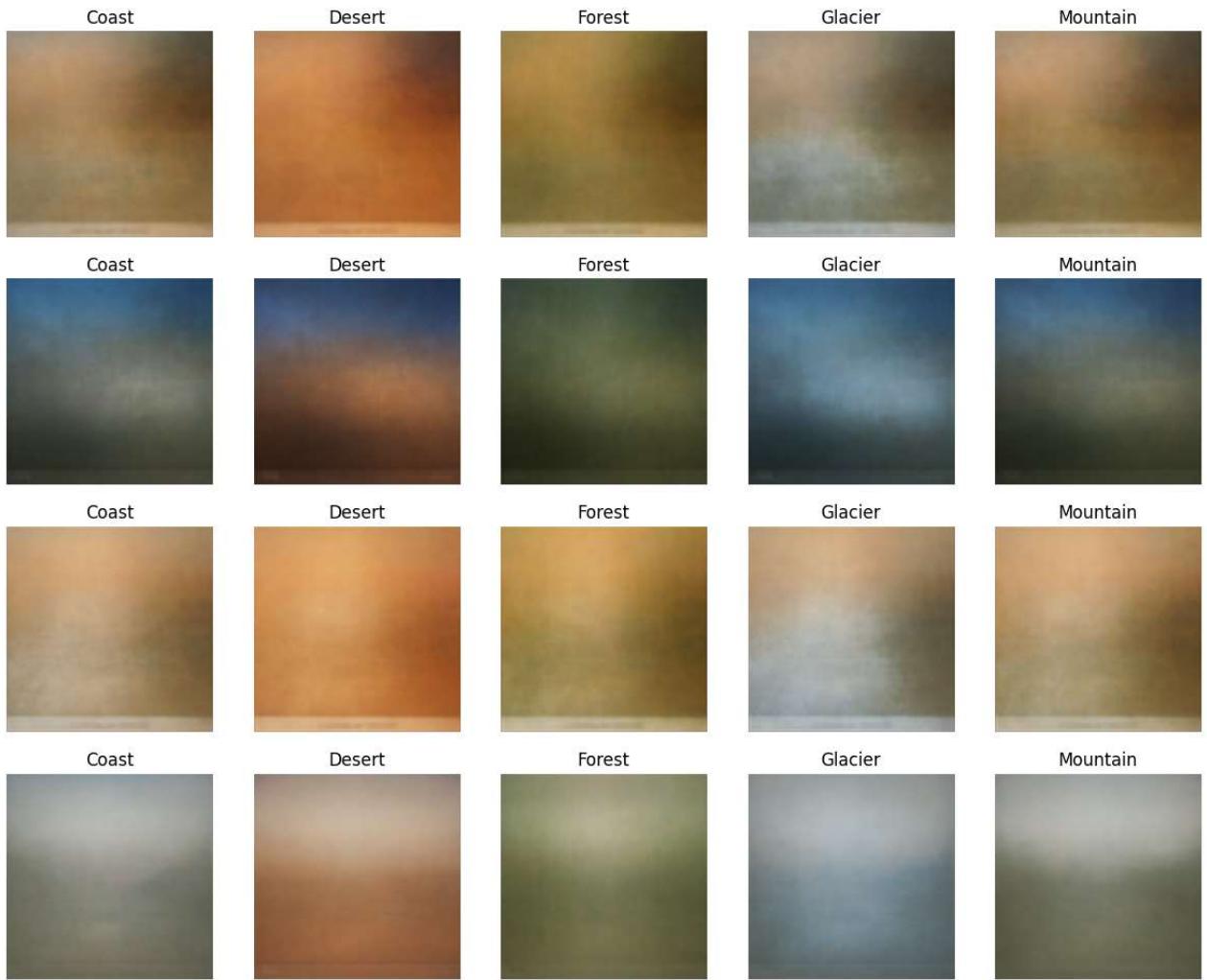
Epoch 16/100

300/300 [=====] - ETA: 0s - loss: 376.1879 - reconstruction_error: 370.9408 - regularization_error: 5.2474

[2023-12-07 13:25:28.744093]: Generating fixed images for epoch 16 ...



[2023-12-07 13:25:29.481916]: Generating random images for epoch 16 ...



300/300 [=====] - 72s 238ms/step - loss: 376.1879 - reconstruction_error: 370.9408 - regularization_error: 5.2474 - val_loss: 384.0738 - val_reconstruction_error: 378.6497 - val_regularization_error: 5.2866

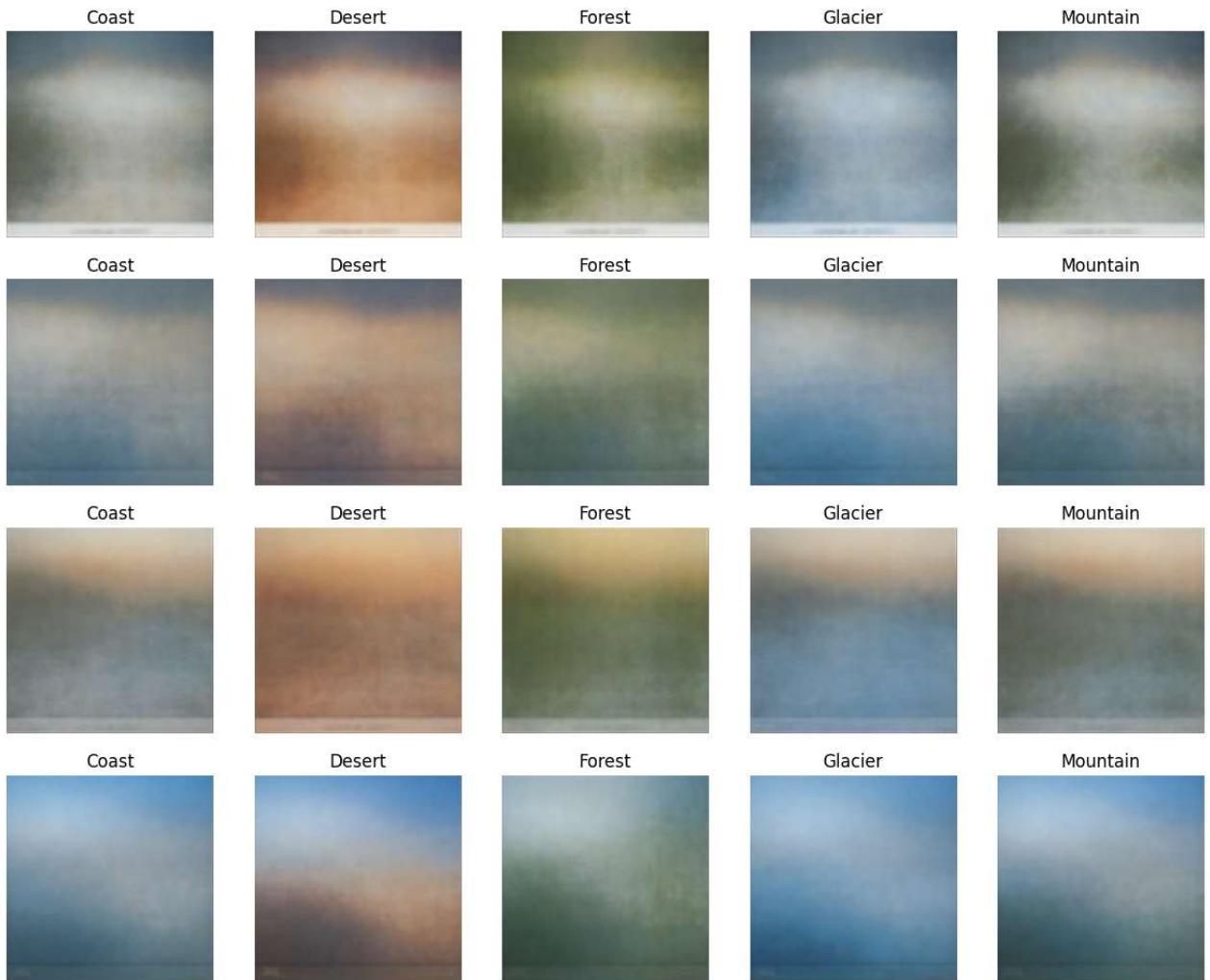
Epoch 17/100

300/300 [=====] - ETA: 0s - loss: 374.9897 - reconstruction_error: 369.7370 - regularization_error: 5.2526

[2023-12-07 13:26:34.549476]: Generating fixed images for epoch 17 ...



[2023-12-07 13:26:35.110229]: Generating random images for epoch 17 ...



300/300 [=====] - 66s 217ms/step - loss: 374.9897 - reconstruction_error: 369.7370 - regularization_error: 5.2526 - val_loss: 384.7657 - val_reconstruction_error: 379.3351 - val_regularization_error: 5.2621

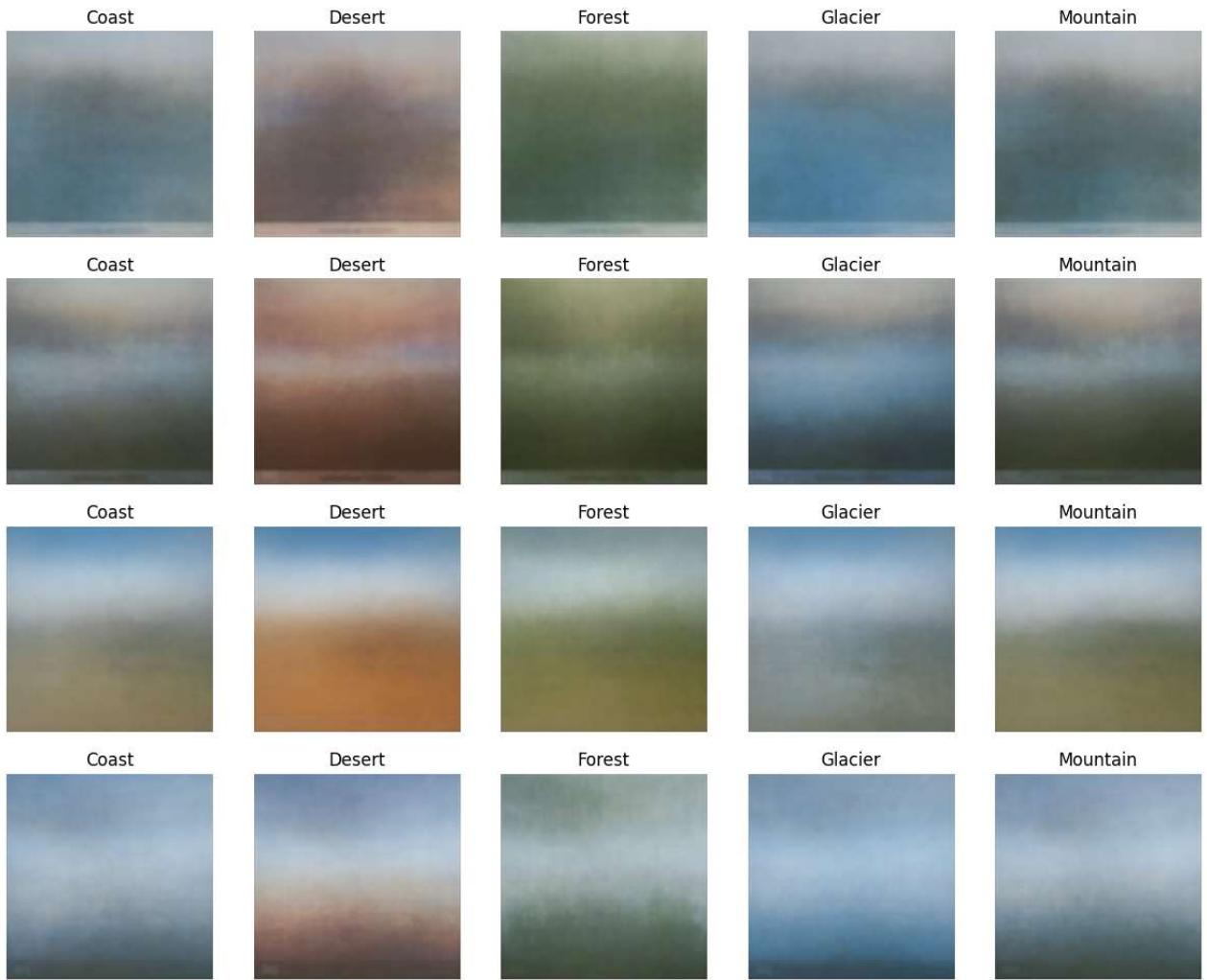
Epoch 18/100

300/300 [=====] - ETA: 0s - loss: 374.6986 - reconstruction_error: 369.4476 - regularization_error: 5.2512

[2023-12-07 13:27:47.786677]: Generating fixed images for epoch 18 ...



[2023-12-07 13:27:48.571793]: Generating random images for epoch 18 ...



300/300 [=====] - 74s 244ms/step - loss: 374.6986 - reconstruction_error: 369.4476 - regularization_error: 5.2512 - val_loss: 381.4351 - val_reconstruction_error: 376.2898 - val_regularization_error: 5.3415

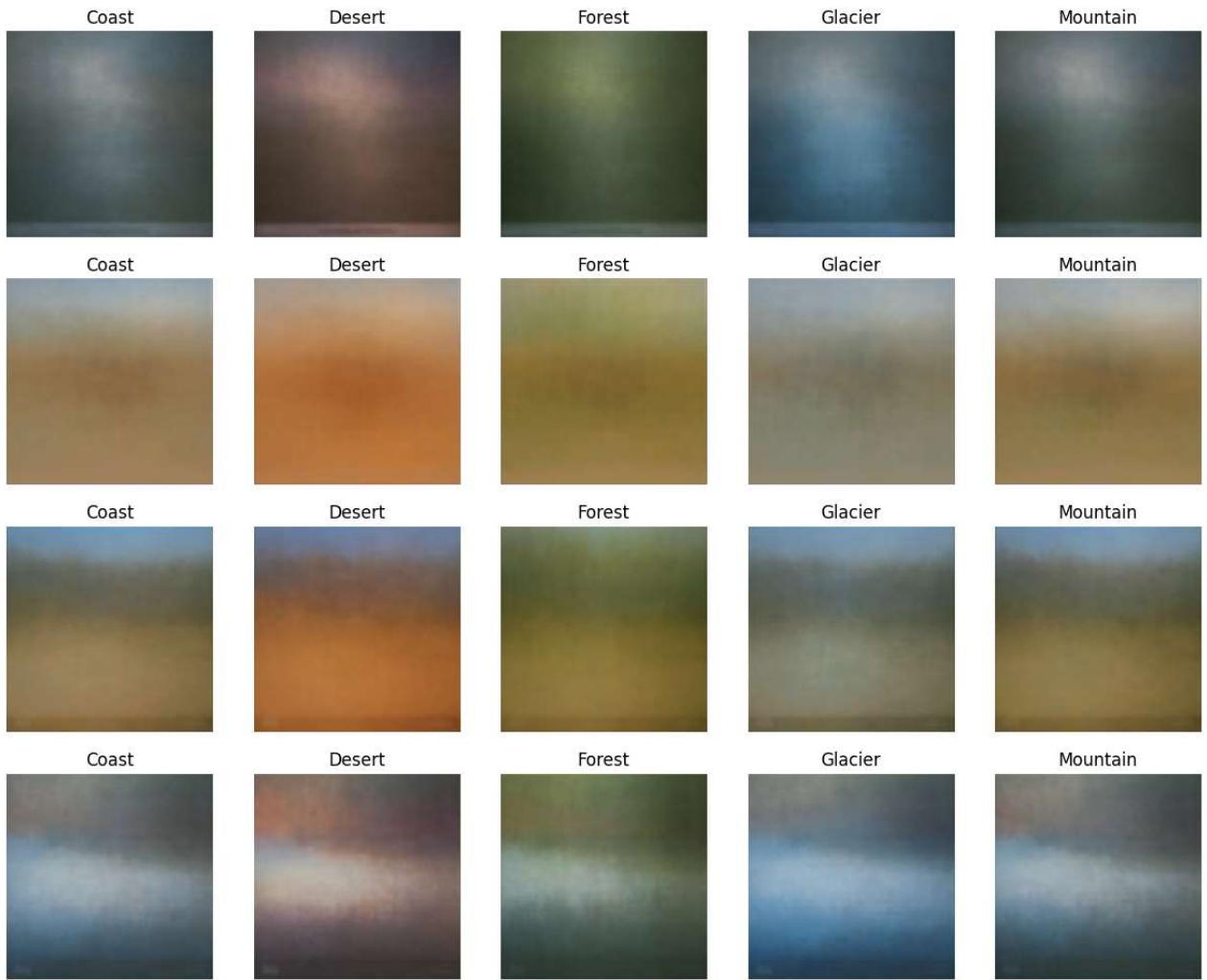
Epoch 19/100

300/300 [=====] - ETA: 0s - loss: 374.5571 - reconstruction_error: 369.2846 - regularization_error: 5.2725

[2023-12-07 13:29:03.715609]: Generating fixed images for epoch 19 ...



[2023-12-07 13:29:04.237421]: Generating random images for epoch 19 ...

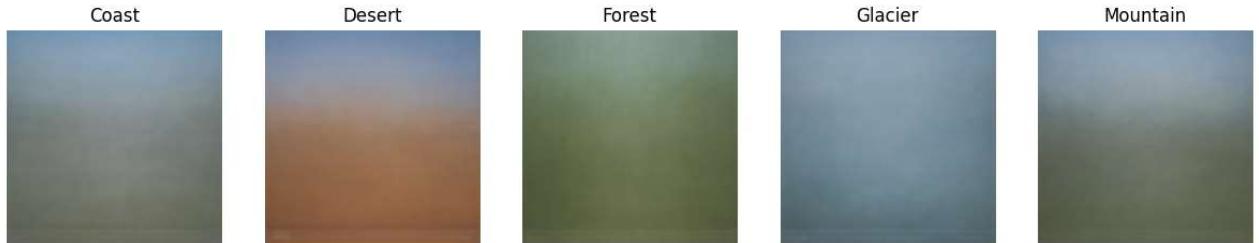


300/300 [=====] - 75s 250ms/step - loss: 374.5571 - reconstruction_error: 369.2846 - regularization_error: 5.2725 - val_loss: 379.0391 - val_reconstruction_error: 373.9582 - val_regularization_e
rror: 5.3131

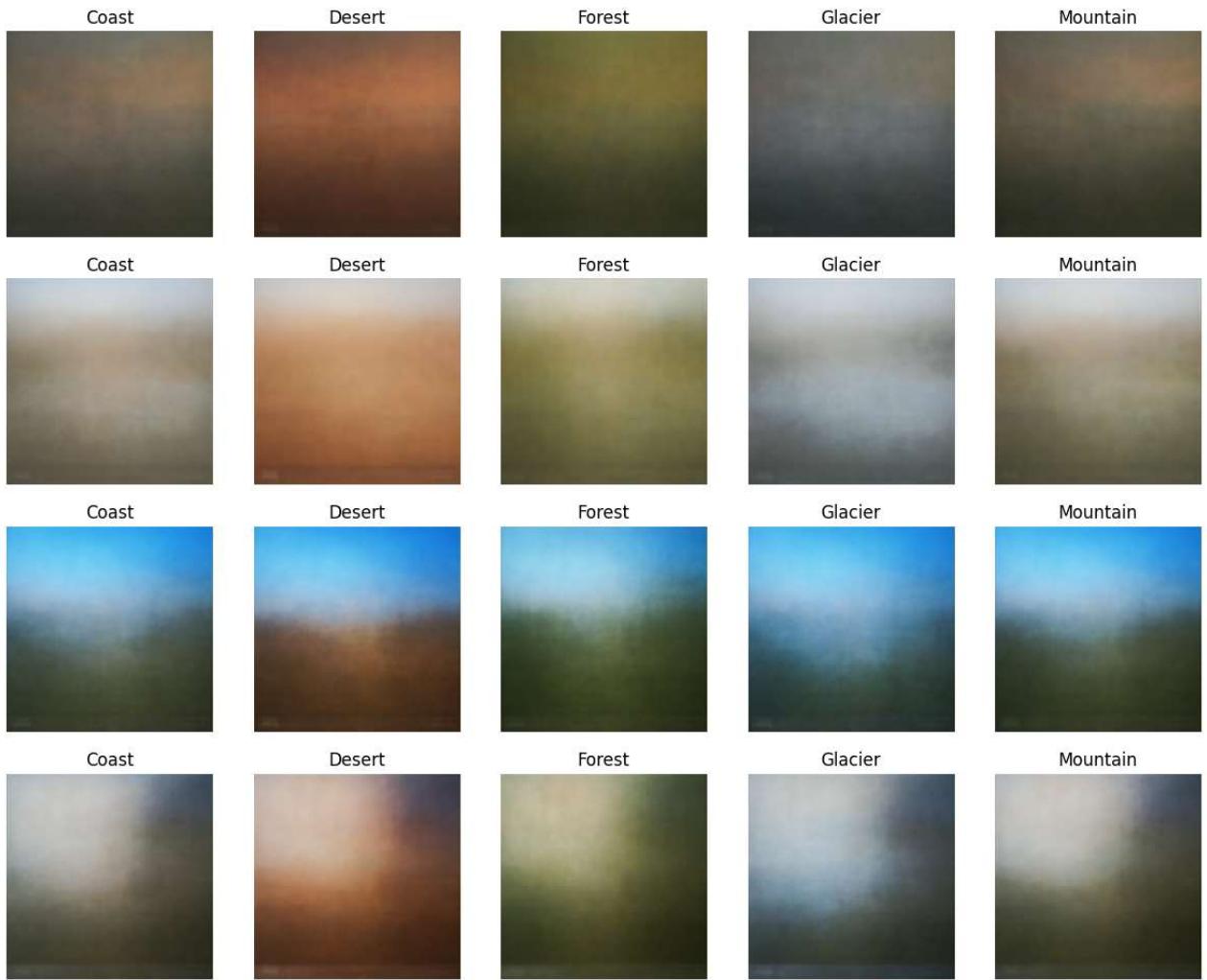
Epoch 20/100

300/300 [=====] - ETA: 0s - loss: 374.4392 - reconstruction_error: 369.1711 - regularization_error: 5.2683

[2023-12-07 13:30:21.301105]: Generating fixed images for epoch 20 ...



[2023-12-07 13:30:22.564696]: Generating random images for epoch 20 ...



300/300 [=====] - 79s 262ms/step - loss: 374.4392 - reconstruction_error: 369.1711 - regularization_error: 5.2683 - val_loss: 380.4319 - val_reconstruction_error: 375.2033 - val_regularization_e
rror: 5.2959

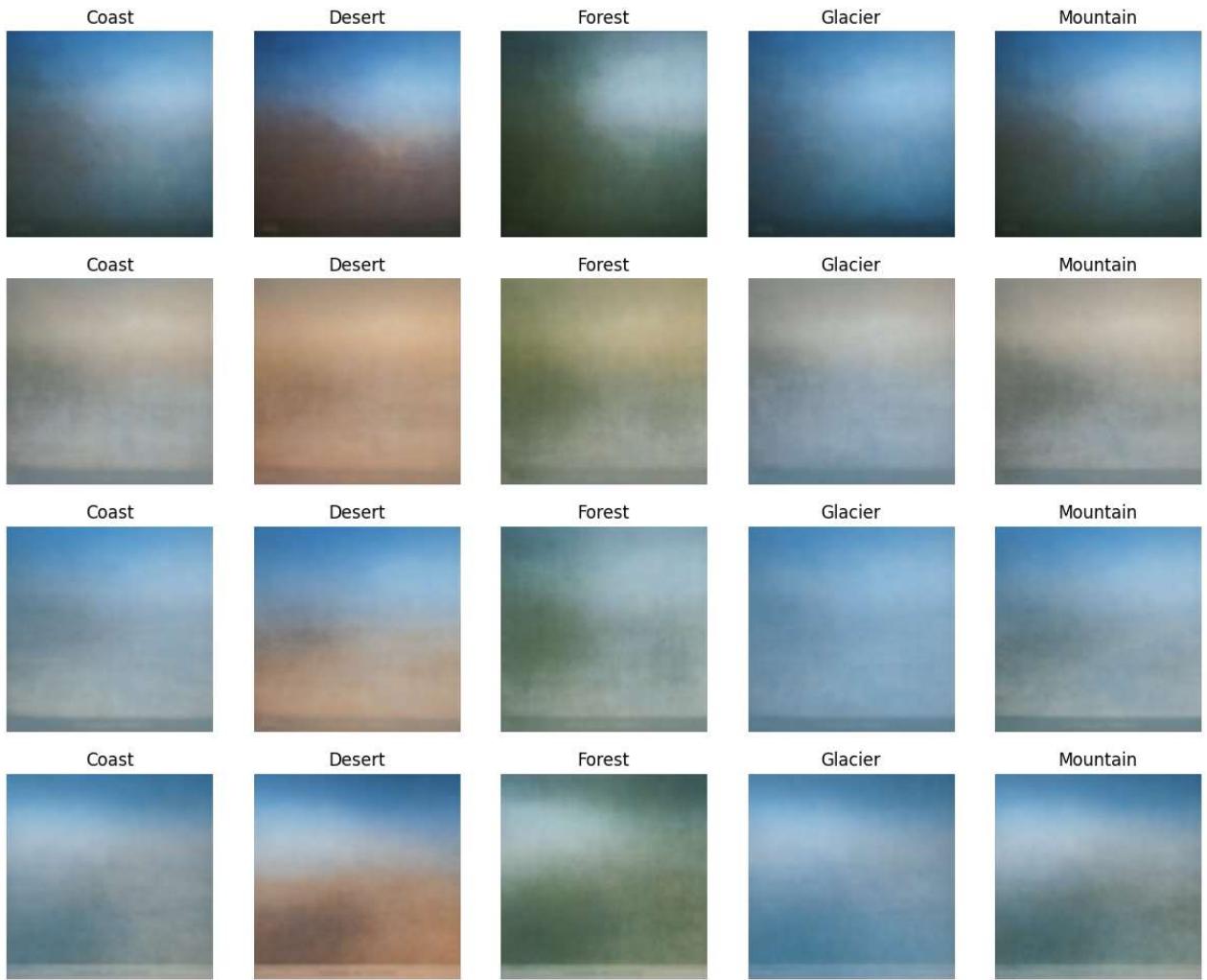
Epoch 21/100

300/300 [=====] - ETA: 0s - loss: 374.8642 - reconstruction_error: 369.5844 - regularization_error: 5.2798

[2023-12-07 13:31:39.014936]: Generating fixed images for epoch 21 ...



[2023-12-07 13:31:39.684437]: Generating random images for epoch 21 ...



300/300 [=====] - 77s 255ms/step - loss: 374.8642 - reconstruction_error: 369.5844 - regularization_error: 5.2798 - val_loss: 382.0371 - val_reconstruction_error: 376.6169 - val_regularization_error: 5.3268

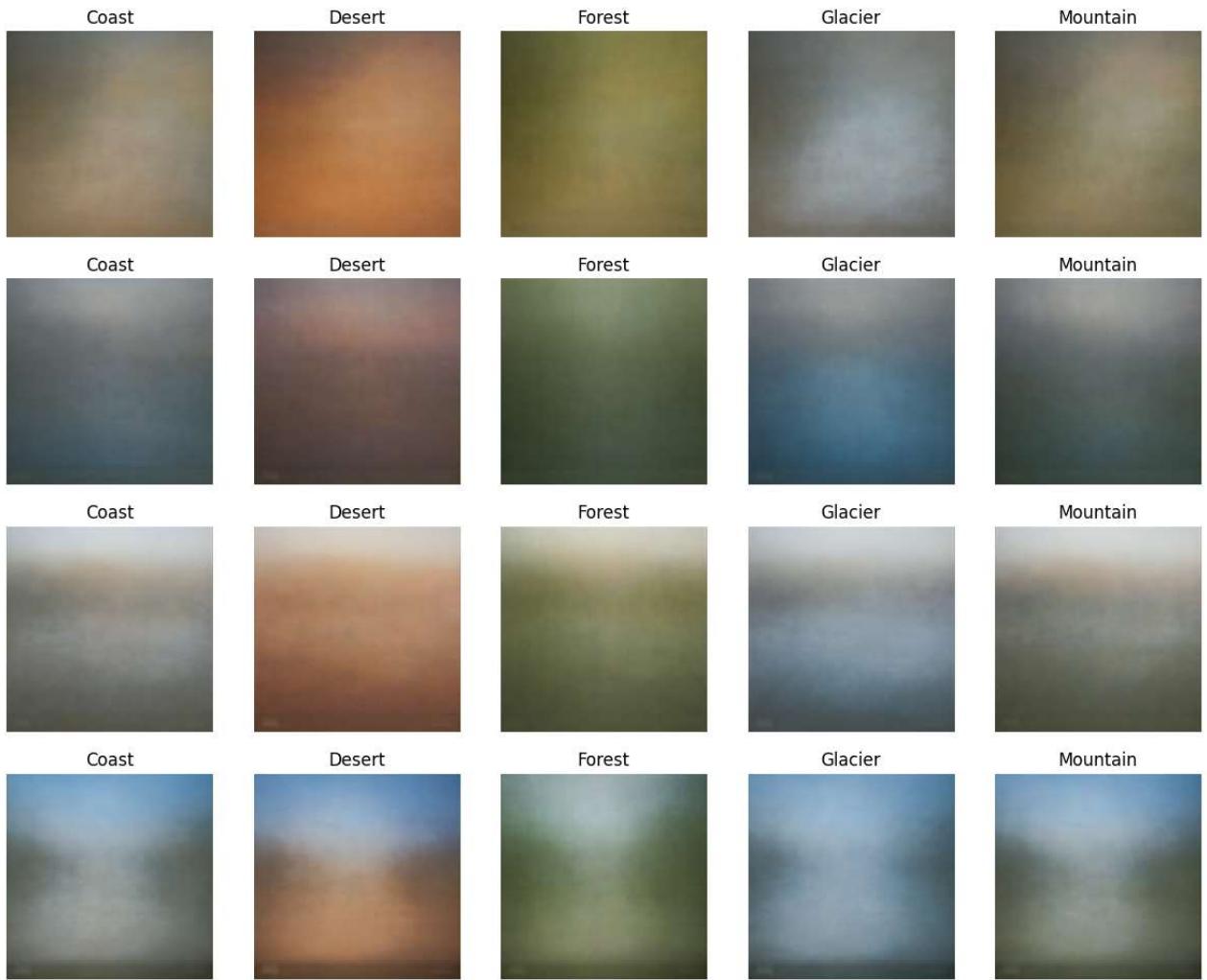
Epoch 22/100

300/300 [=====] - ETA: 0s - loss: 373.7838 - reconstruction_error: 368.4804 - regularization_error: 5.3032

[2023-12-07 13:32:52.573076]: Generating fixed images for epoch 22 ...



[2023-12-07 13:32:53.345198]: Generating random images for epoch 22 ...



300/300 [=====] - 74s 246ms/step - loss: 373.7838 - reconstruction_error: 368.4804 - regularization_error: 5.3032 - val_loss: 385.4073 - val_reconstruction_error: 380.1684 - val_regularization_error: 5.3373

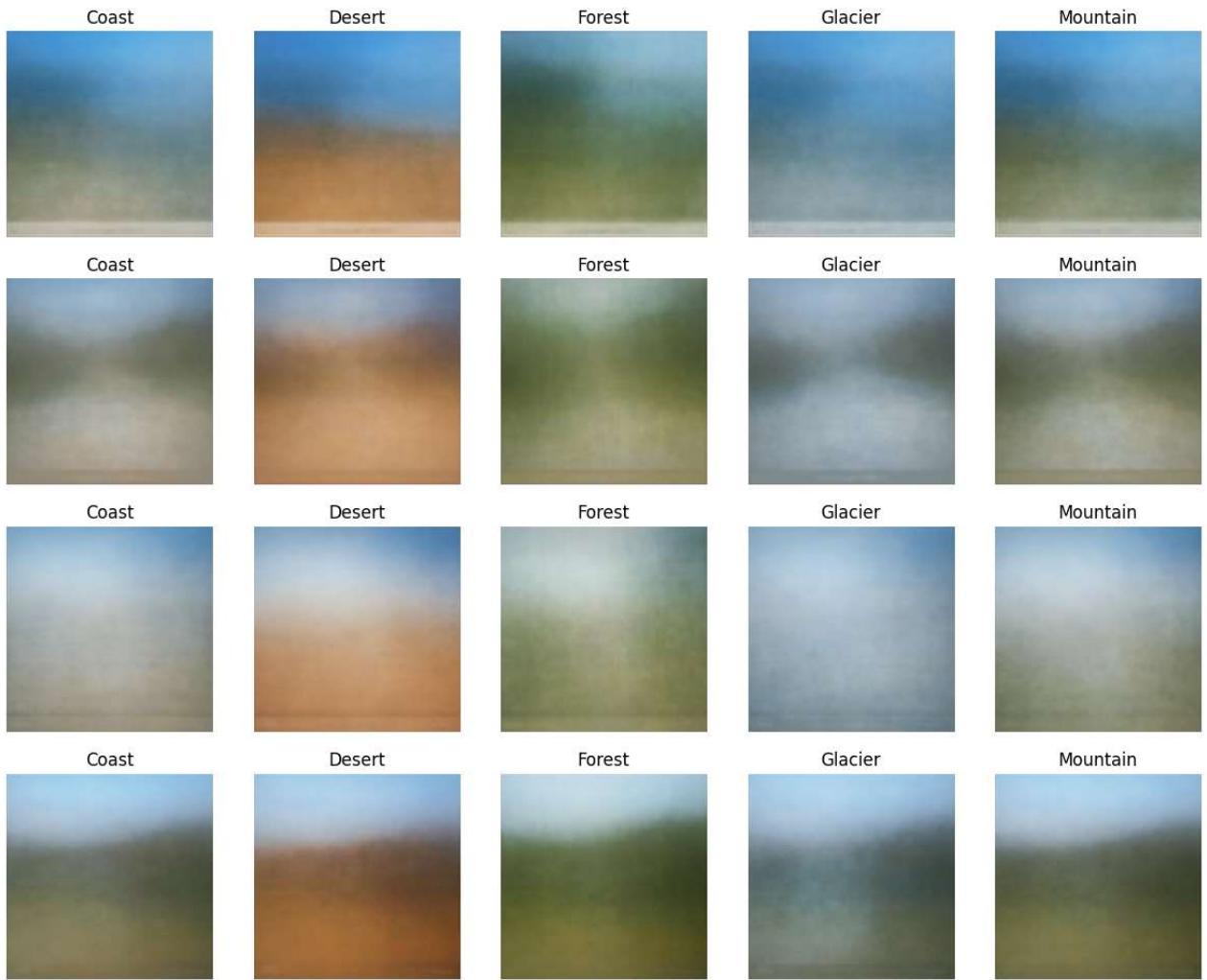
Epoch 23/100

300/300 [=====] - ETA: 0s - loss: 373.4007 - reconstruction_error: 368.1120 - regularization_error: 5.2888

[2023-12-07 13:34:14.333065]: Generating fixed images for epoch 23 ...



[2023-12-07 13:34:15.570321]: Generating random images for epoch 23 ...



300/300 [=====] - 82s 272ms/step - loss: 373.4007 - reconstruction_error: 368.1120 - regularization_error: 5.2888 - val_loss: 379.8747 - val_reconstruction_error: 374.6583 - val_regularization_error: 5.2703

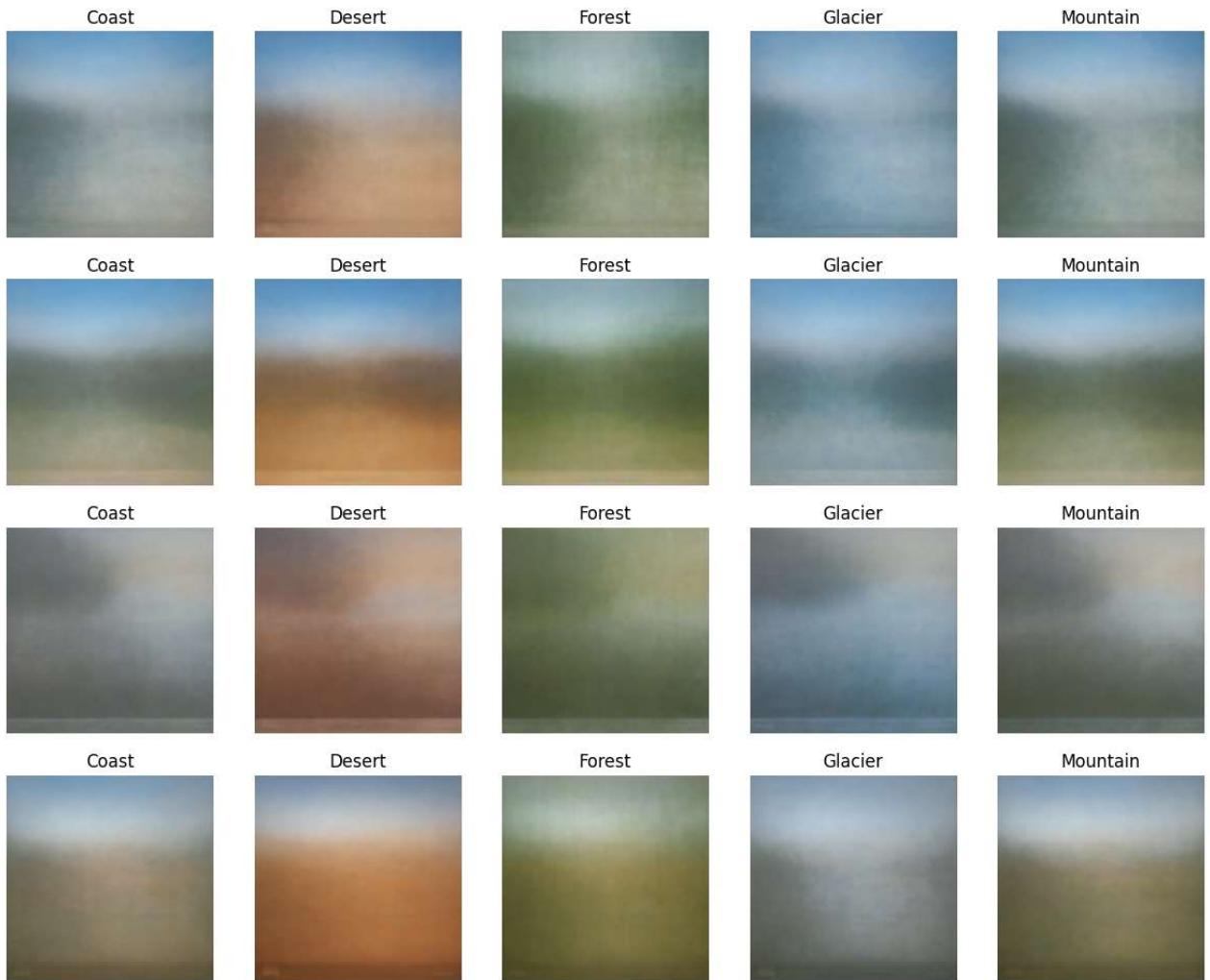
Epoch 24/100

300/300 [=====] - ETA: 0s - loss: 372.9245 - reconstruction_error: 367.6315 - regularization_error: 5.2932

[2023-12-07 13:35:31.973219]: Generating fixed images for epoch 24 ...



[2023-12-07 13:35:32.553459]: Generating random images for epoch 24 ...



300/300 [=====] - 77s 255ms/step - loss: 372.9245 - reconstruction_error: 367.6315 - regularization_error: 5.2932 - val_loss: 380.4637 - val_reconstruction_error: 375.1028 - val_regularization_error: 5.3010

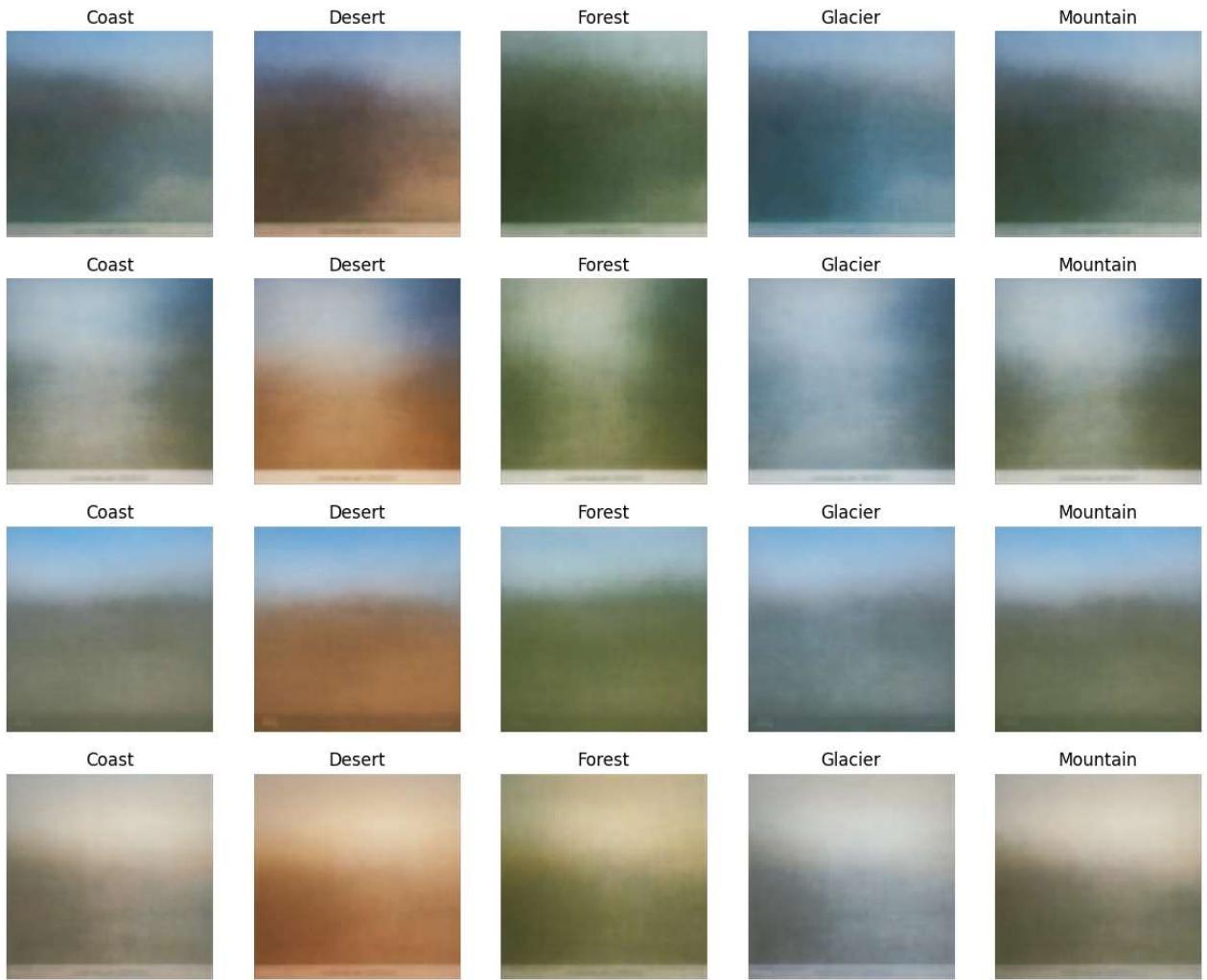
Epoch 25/100

300/300 [=====] - ETA: 0s - loss: 371.8459 - reconstruction_error: 366.5361 - regularization_error: 5.3097

[2023-12-07 13:36:50.624765]: Generating fixed images for epoch 25 ...



[2023-12-07 13:36:51.123321]: Generating random images for epoch 25 ...



300/300 [=====] - 73s 243ms/step - loss: 371.8459 - reconstruction_error: 366.5361 - regularization_error: 5.3097 - val_loss: 379.1320 - val_reconstruction_error: 373.6715 - val_regularization_e
rror: 5.3037

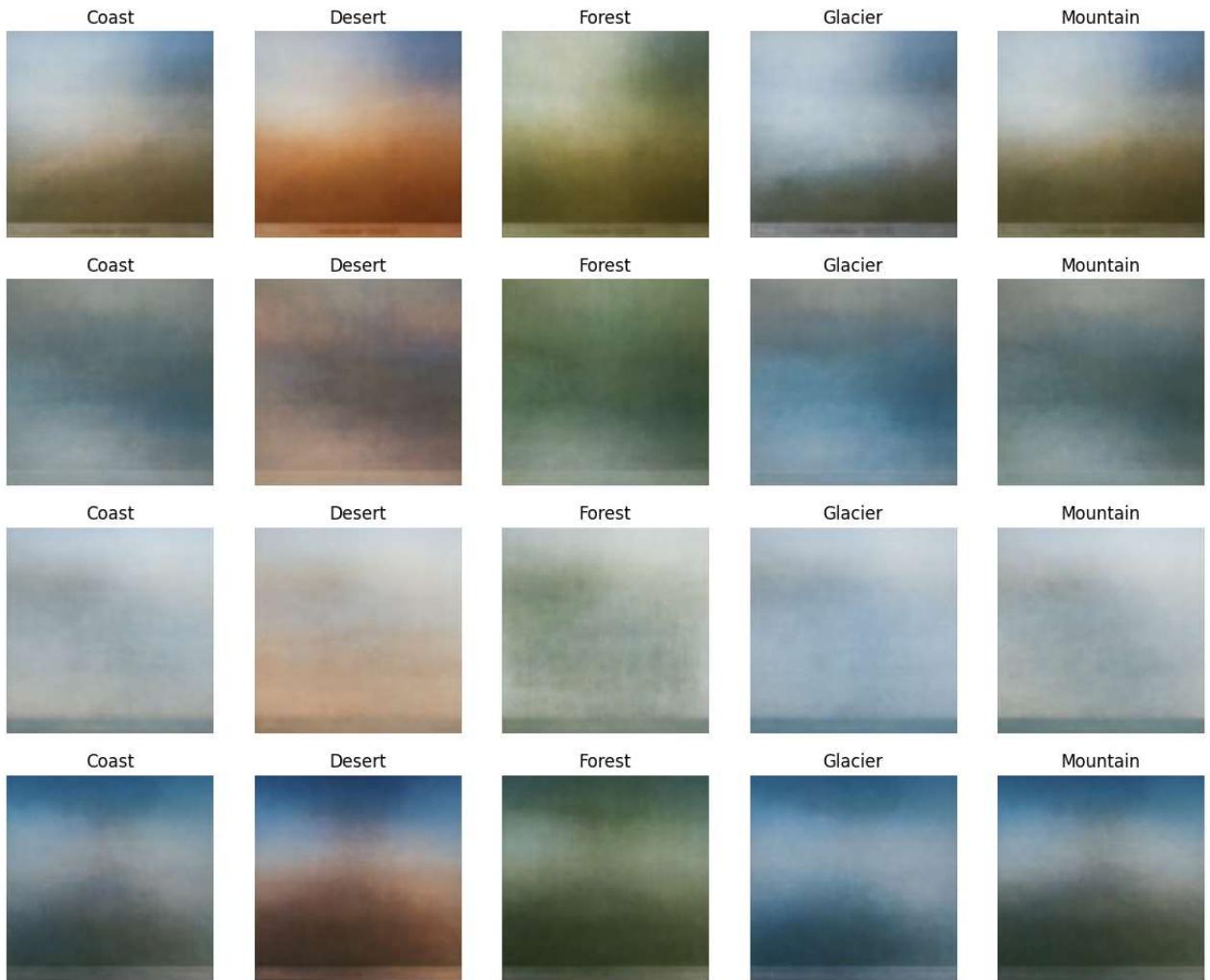
Epoch 26/100

300/300 [=====] - ETA: 0s - loss: 371.4291 - reconstruction_error: 366.1162 - regularization_error: 5.3131

[2023-12-07 13:38:05.434492]: Generating fixed images for epoch 26 ...



[2023-12-07 13:38:06.621329]: Generating random images for epoch 26 ...



300/300 [=====] - 76s 248ms/step - loss: 371.4291 - reconstruction_error: 366.1162 - regularization_error: 5.3131 - val_loss: 383.4575 - val_reconstruction_error: 378.1749 - val_regularization_error: 5.3475

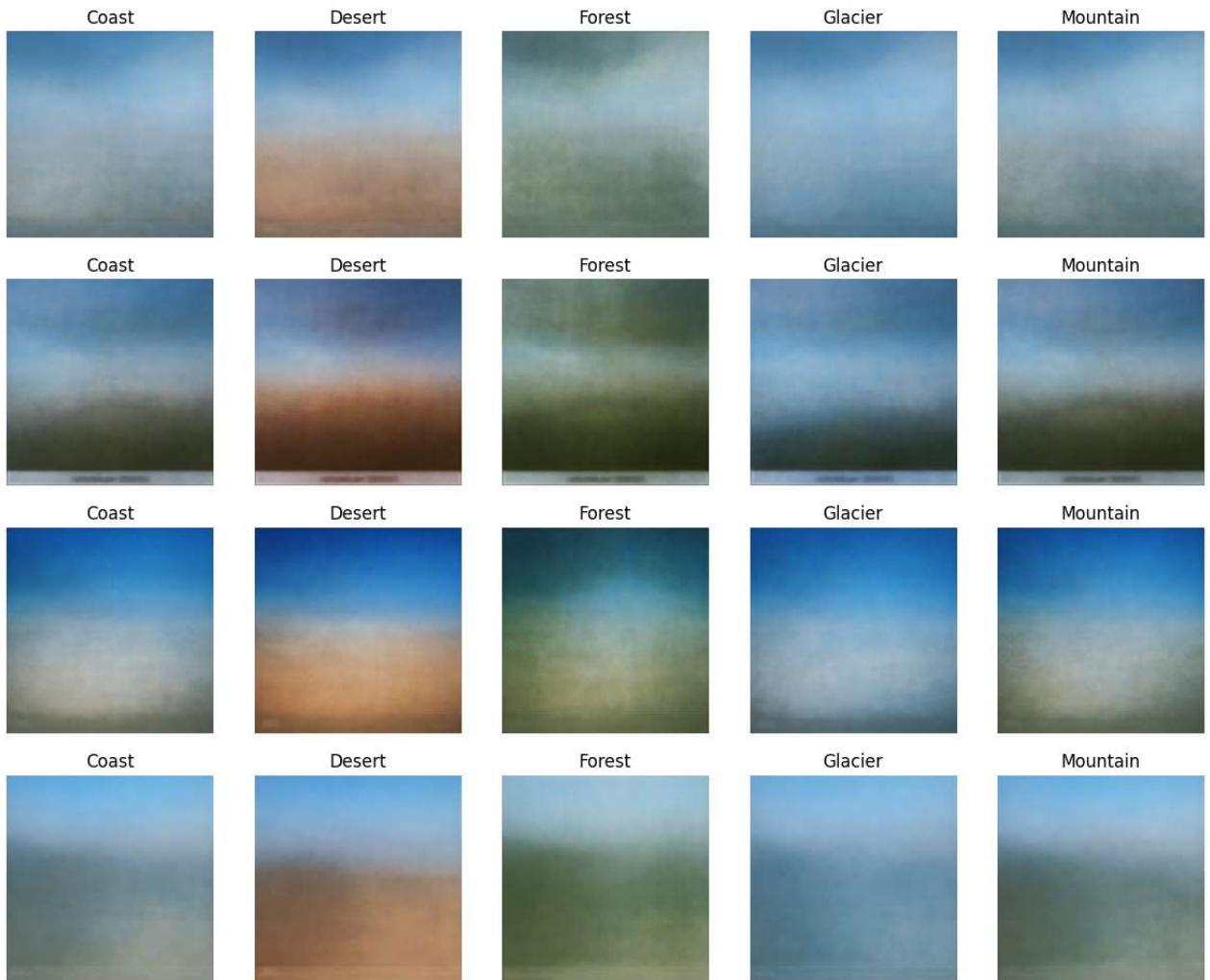
Epoch 27/100

300/300 [=====] - ETA: 0s - loss: 370.6626 - reconstruction_error: 365.3488 - regularization_error: 5.3136

[2023-12-07 13:39:19.080695]: Generating fixed images for epoch 27 ...



[2023-12-07 13:39:19.656267]: Generating random images for epoch 27 ...



300/300 [=====] - 73s 242ms/step - loss: 370.6626 - reconstruction_error: 365.3488 - regularization_error: 5.3136 - val_loss: 377.1186 - val_reconstruction_error: 372.8239 - val_regularization_e
rror: 5.2515

Epoch 28/100

300/300 [=====] - ETA: 0s - loss: 371.3072 - reconstruction_error: 365.9679 - regularization_error: 5.3393

[2023-12-07 13:40:35.351920]: Generating fixed images for epoch 28 ...



[2023-12-07 13:40:36.524368]: Generating random images for epoch 28 ...



300/300 [=====] - 77s 255ms/step - loss: 371.3072 - reconstruction_error: 365.9679 - regularization_error: 5.3393 - val_loss: 380.0187 - val_reconstruction_error: 374.4621 - val_regularization_error: 5.4052

Epoch 29/100

300/300 [=====] - ETA: 0s - loss: 369.5645 - reconstruction_error: 364.2112 - regularization_error: 5.3535

[2023-12-07 13:41:54.629431]: Generating fixed images for epoch 29 ...



[2023-12-07 13:41:55.566966]: Generating random images for epoch 29 ...



300/300 [=====] - 79s 261ms/step - loss: 369.5645 - reconstruction_error: 364.2112 - regularization_error: 5.3535 - val_loss: 378.1383 - val_reconstruction_error: 372.8945 - val_regularization_error: 5.3689

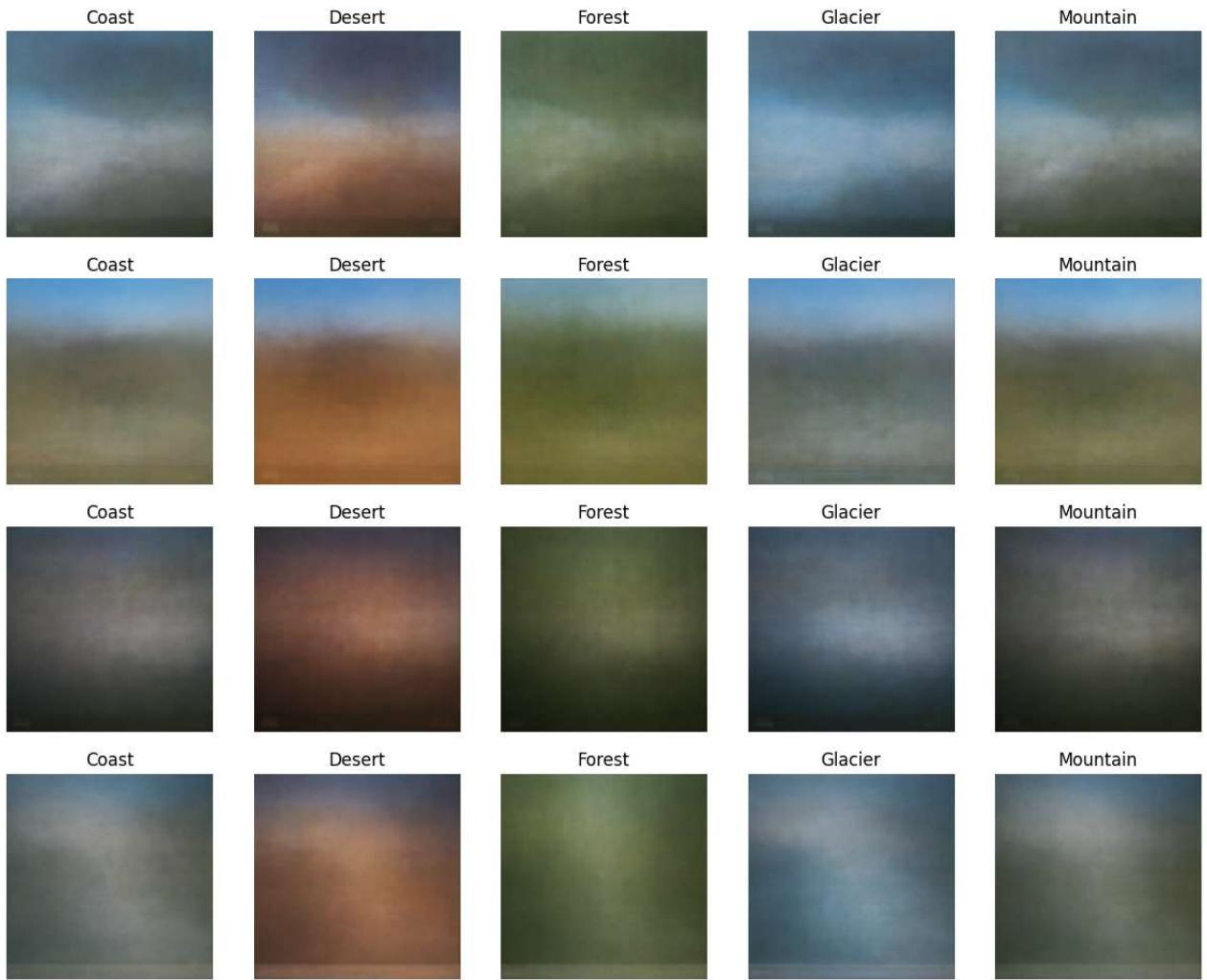
Epoch 30/100

300/300 [=====] - ETA: 0s - loss: 369.7530 - reconstruction_error: 364.3891 - regularization_error: 5.3638

[2023-12-07 13:43:20.072846]: Generating fixed images for epoch 30 ...



[2023-12-07 13:43:20.756050]: Generating random images for epoch 30 ...



300/300 [=====] - 82s 272ms/step - loss: 369.7530 - reconstruction_error: 364.3891 - regularization_error: 5.3638 - val_loss: 382.4104 - val_reconstruction_error: 377.4013 - val_regularization_e
rror: 5.2967

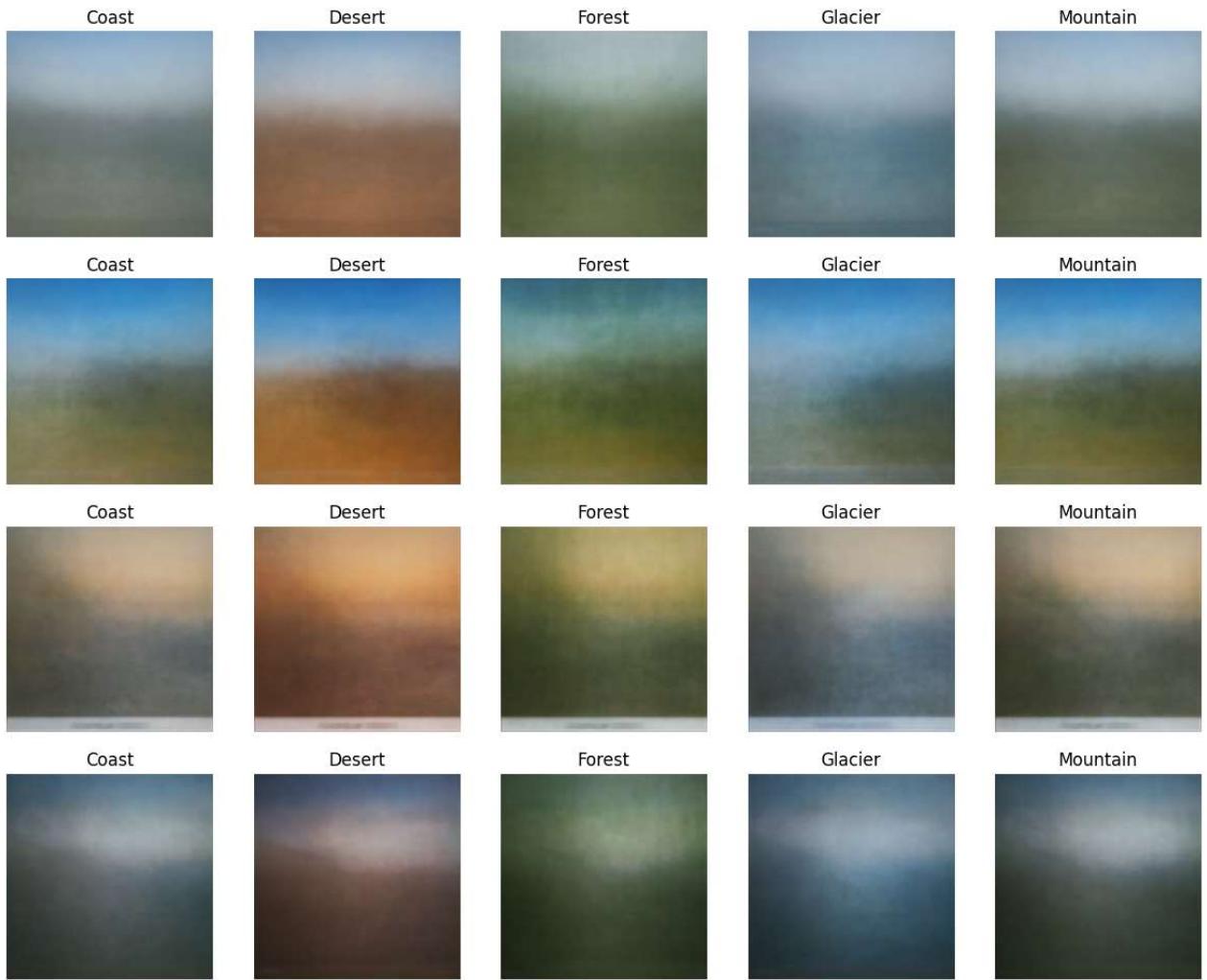
Epoch 31/100

300/300 [=====] - ETA: 0s - loss: 368.5048 - reconstruction_error: 363.1524 - regularization_error: 5.3524

[2023-12-07 13:44:30.506200]: Generating fixed images for epoch 31 ...



[2023-12-07 13:44:30.968423]: Generating random images for epoch 31 ...



300/300 [=====] - 70s 233ms/step - loss: 368.5048 - reconstruction_error: 363.1524 - regularization_error: 5.3524 - val_loss: 380.4986 - val_reconstruction_error: 375.1597 - val_regularization_error: 5.3298

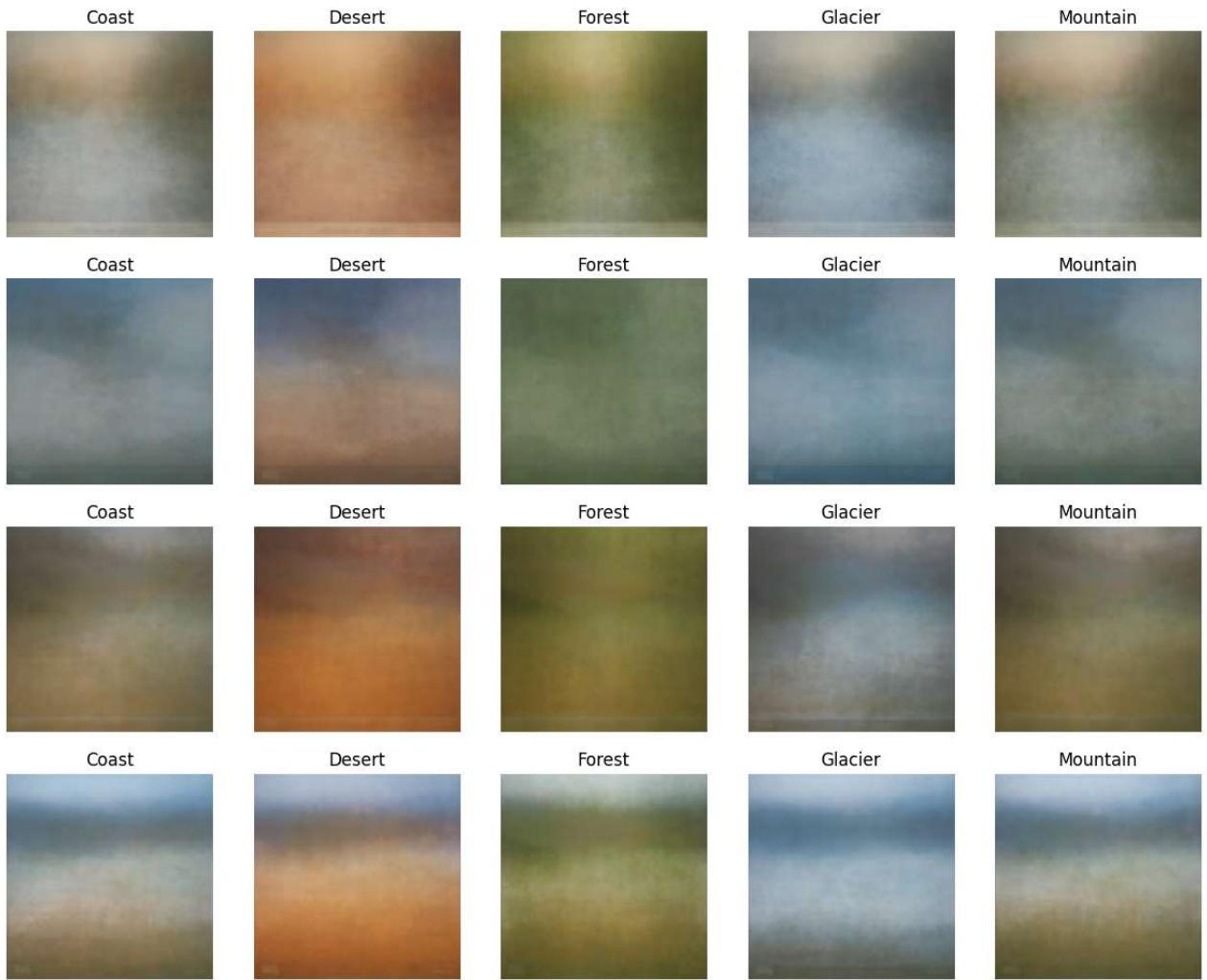
Epoch 32/100

300/300 [=====] - ETA: 0s - loss: 368.2155 - reconstruction_error: 362.8402 - regularization_error: 5.3751

[2023-12-07 13:45:44.863407]: Generating fixed images for epoch 32 ...



[2023-12-07 13:45:45.559365]: Generating random images for epoch 32 ...



300/300 [=====] - 75s 249ms/step - loss: 368.2155 - reconstruction_error: 362.8402 - regularization_error: 5.3751 - val_loss: 379.7673 - val_reconstruction_error: 374.4955 - val_regularization_error: 5.3695

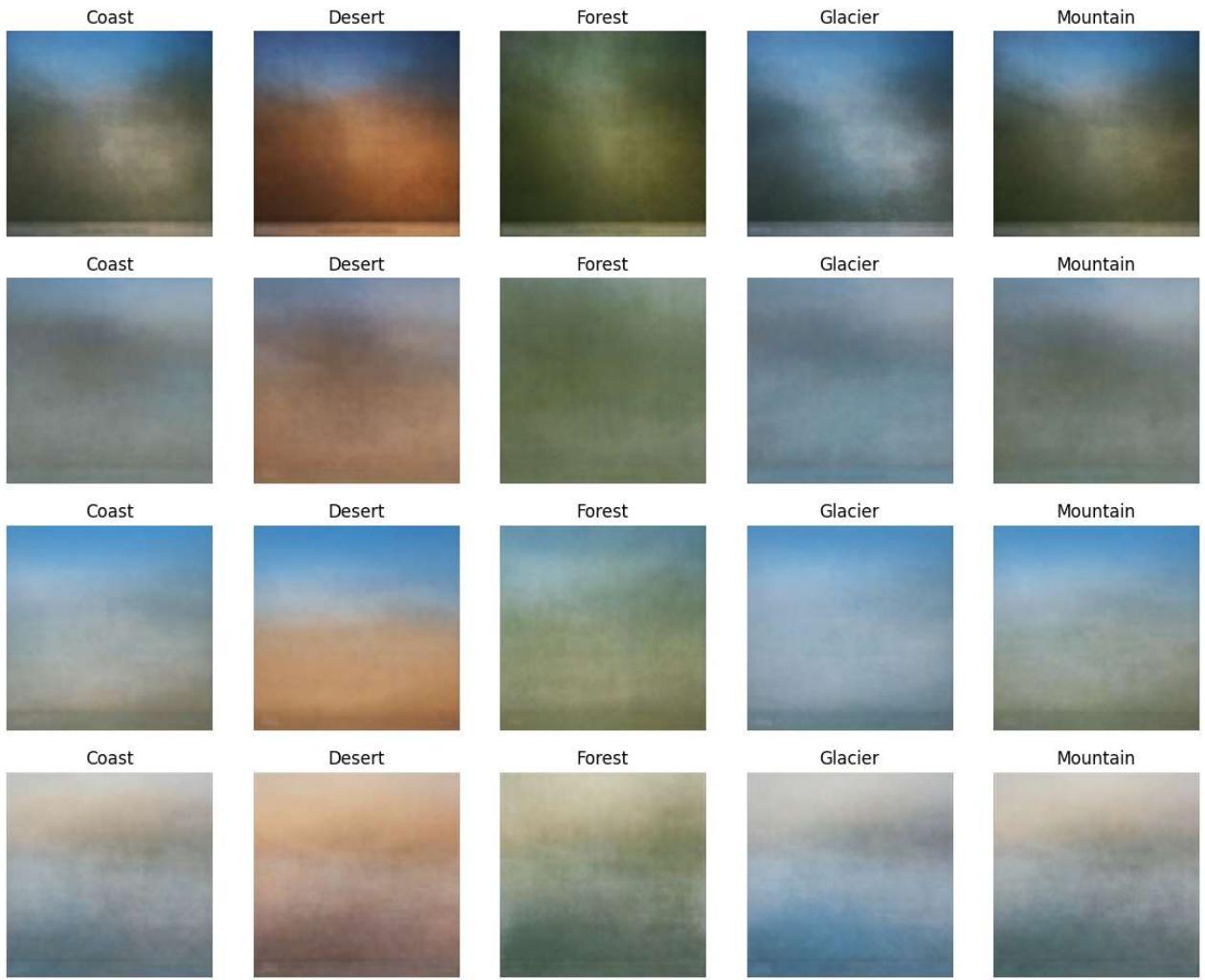
Epoch 33/100

300/300 [=====] - ETA: 0s - loss: 367.3488 - reconstruction_error: 361.9848 - regularization_error: 5.3643

[2023-12-07 13:46:56.707712]: Generating fixed images for epoch 33 ...



[2023-12-07 13:46:57.624951]: Generating random images for epoch 33 ...



300/300 [=====] - 71s 237ms/step - loss: 367.3488 - reconstruction_error: 361.9848 - regularization_error: 5.3643 - val_loss: 375.2382 - val_reconstruction_error: 369.9704 - val_regularization_error: 5.3694

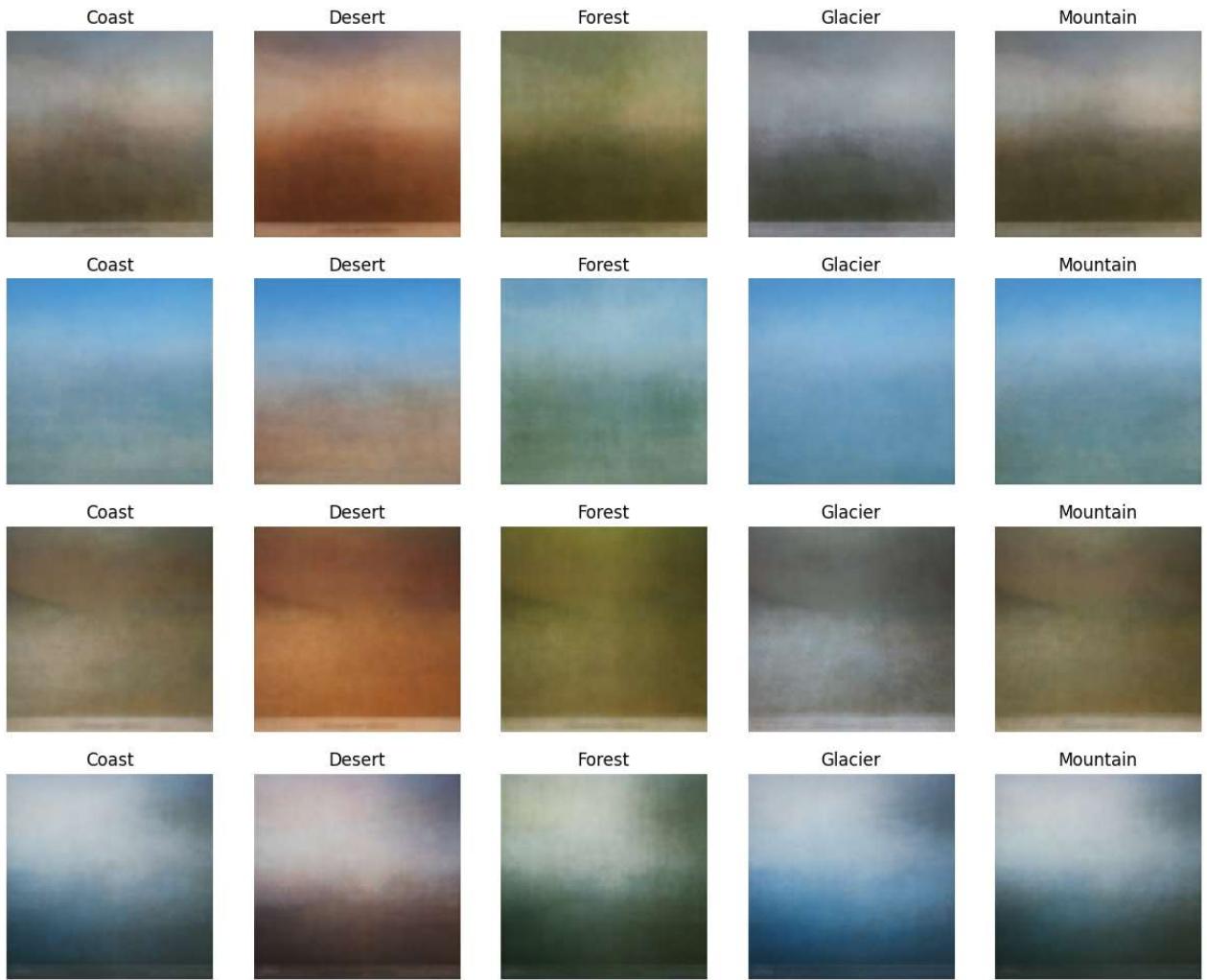
Epoch 34/100

300/300 [=====] - ETA: 0s - loss: 368.5381 - reconstruction_error: 363.1337 - regularization_error: 5.4042

[2023-12-07 13:48:06.028375]: Generating fixed images for epoch 34 ...



[2023-12-07 13:48:06.701951]: Generating random images for epoch 34 ...



300/300 [=====] - 69s 230ms/step - loss: 368.5381 - reconstruction_error: 363.1337 - regularization_error: 5.4042 - val_loss: 380.2317 - val_reconstruction_error: 374.9574 - val_regularization_e

rror: 5.4322

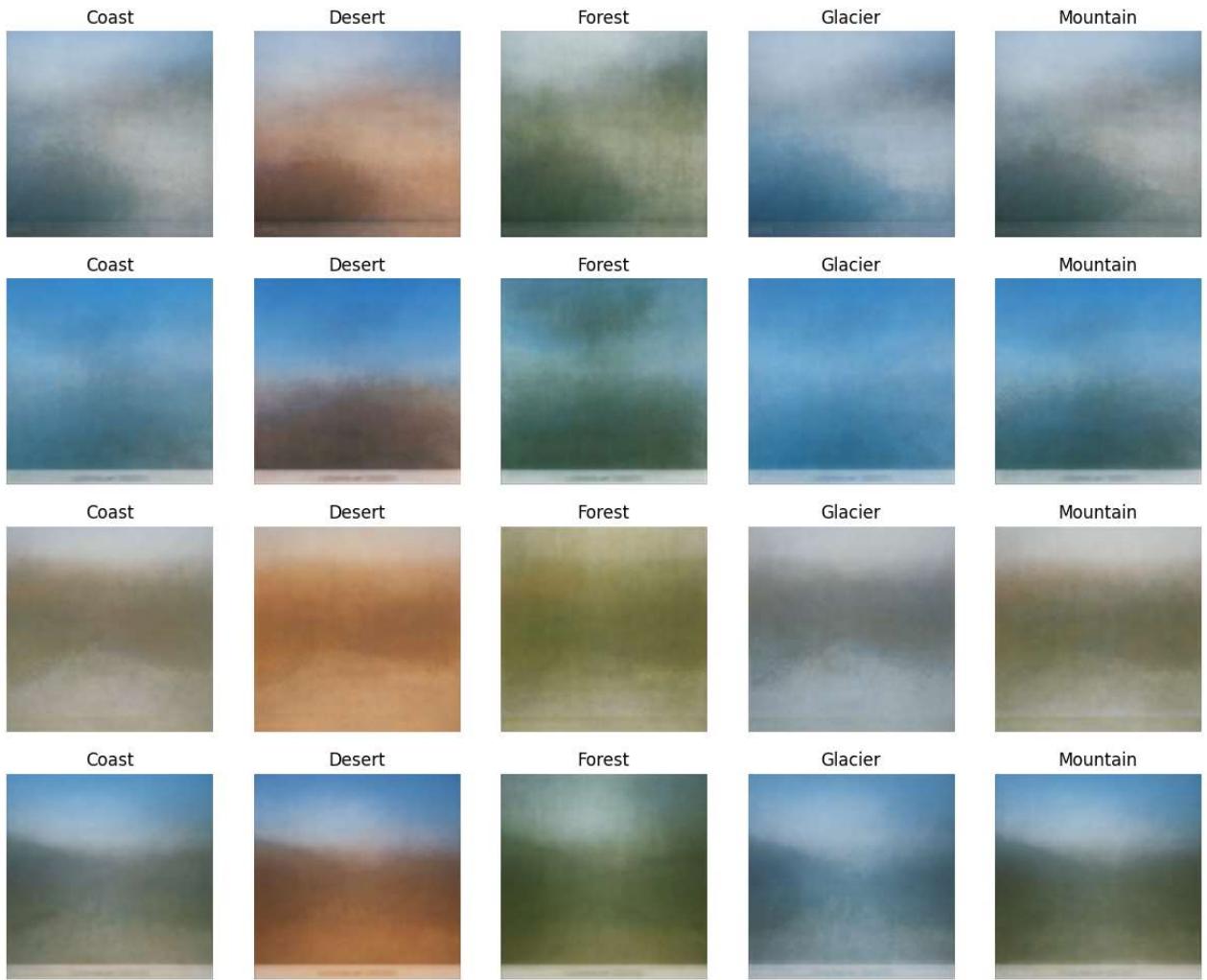
Epoch 35/100

300/300 [=====] - ETA: 0s - loss: 367.2839 - reconstruction_error: 361.8758 - regularization_error: 5.4080

[2023-12-07 13:49:23.262329]: Generating fixed images for epoch 35 ...



[2023-12-07 13:49:23.758761]: Generating random images for epoch 35 ...



300/300 [=====] - 77s 256ms/step - loss: 367.2839 - reconstruction_error: 361.8758 - regularization_error: 5.4080 - val_loss: 379.5722 - val_reconstruction_error: 374.2000 - val_regularization_error: 5.4545

Epoch 36/100

300/300 [=====] - ETA: 0s - loss: 366.9295 - reconstruction_error: 361.5122 - regularization_error: 5.4172

[2023-12-07 13:50:39.162842]: Generating fixed images for epoch 36 ...



[2023-12-07 13:50:40.447814]: Generating random images for epoch 36 ...



300/300 [=====] - 77s 255ms/step - loss: 366.9295 - reconstruction_error: 361.5122 - regularization_error: 5.4172 - val_loss: 378.9444 - val_reconstruction_error: 373.5243 - val_regularization_error: 5.4241

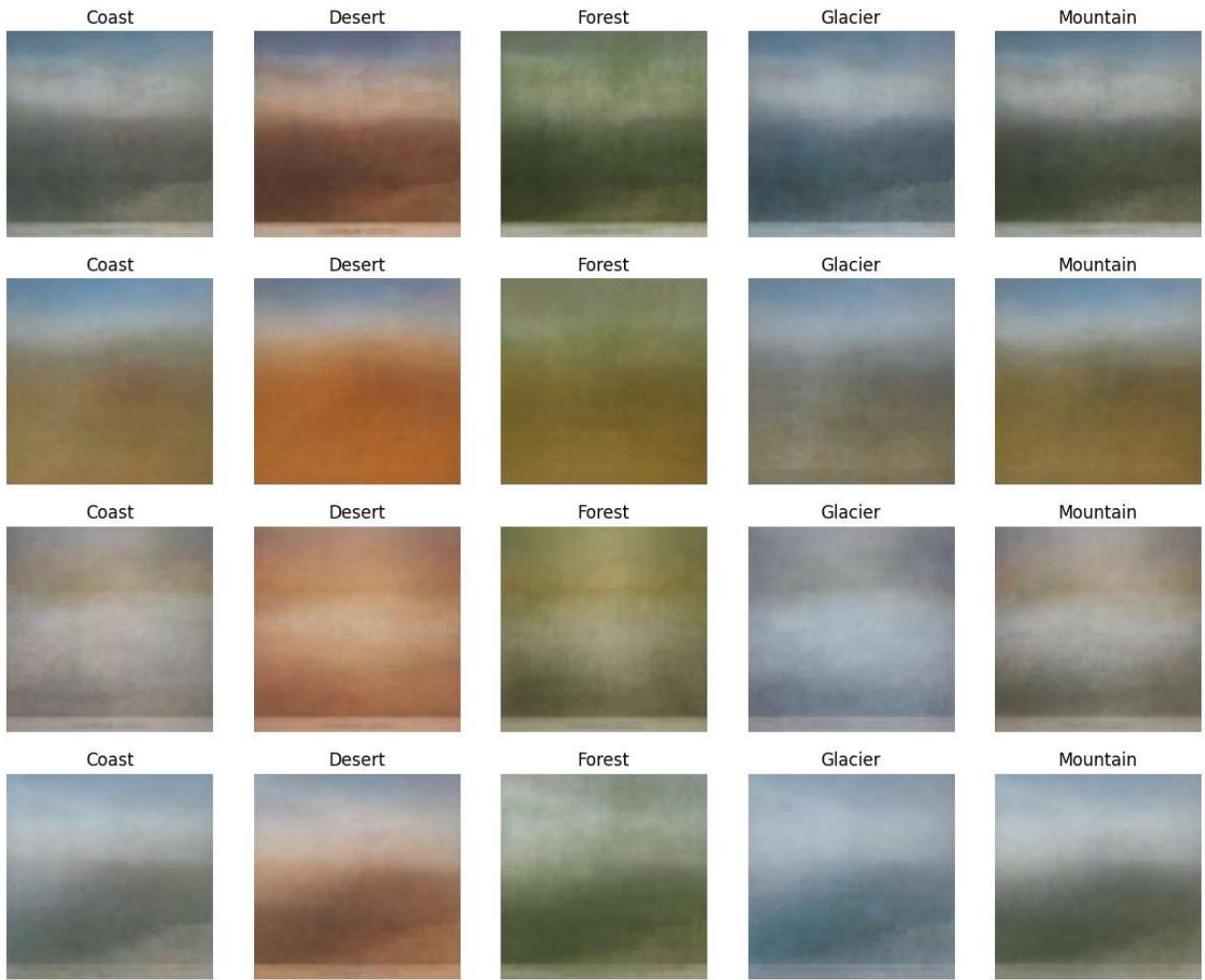
Epoch 37/100

300/300 [=====] - ETA: 0s - loss: 367.3708 - reconstruction_error: 361.9252 - regularization_error: 5.4457

[2023-12-07 13:51:55.807324]: Generating fixed images for epoch 37 ...



[2023-12-07 13:51:56.484992]: Generating random images for epoch 37 ...



300/300 [=====] - 76s 251ms/step - loss: 367.3708 - reconstruction_error: 361.9252 - regularization_error: 5.4457 - val_loss: 375.6841 - val_reconstruction_error: 370.4891 - val_regularization_error: 5.4111

Epoch 38/100

300/300 [=====] - ETA: 0s - loss: 366.4627 - reconstruction_error: 361.0162 - regularization_error: 5.4462

[2023-12-07 13:53:08.178016]: Generating fixed images for epoch 38 ...



[2023-12-07 13:53:08.931330]: Generating random images for epoch 38 ...



300/300 [=====] - 73s 241ms/step - loss: 366.4627 - reconstruction_error: 361.0162 - regularization_error: 5.4462 - val_loss: 376.6931 - val_reconstruction_error: 371.6801 - val_regularization_error: 5.4231

Epoch 39/100

300/300 [=====] - ETA: 0s - loss: 366.1212 - reconstruction_error: 360.6876 - regularization_error: 5.4336

[2023-12-07 13:54:19.742106]: Generating fixed images for epoch 39 ...



[2023-12-07 13:54:20.528851]: Generating random images for epoch 39 ...



300/300 [=====] - 72s 238ms/step - loss: 366.1212 - reconstruction_error: 360.6876 - regularization_error: 5.4336 - val_loss: 377.4770 - val_reconstruction_error: 372.2417 - val_regularization_e
rror: 5.4340

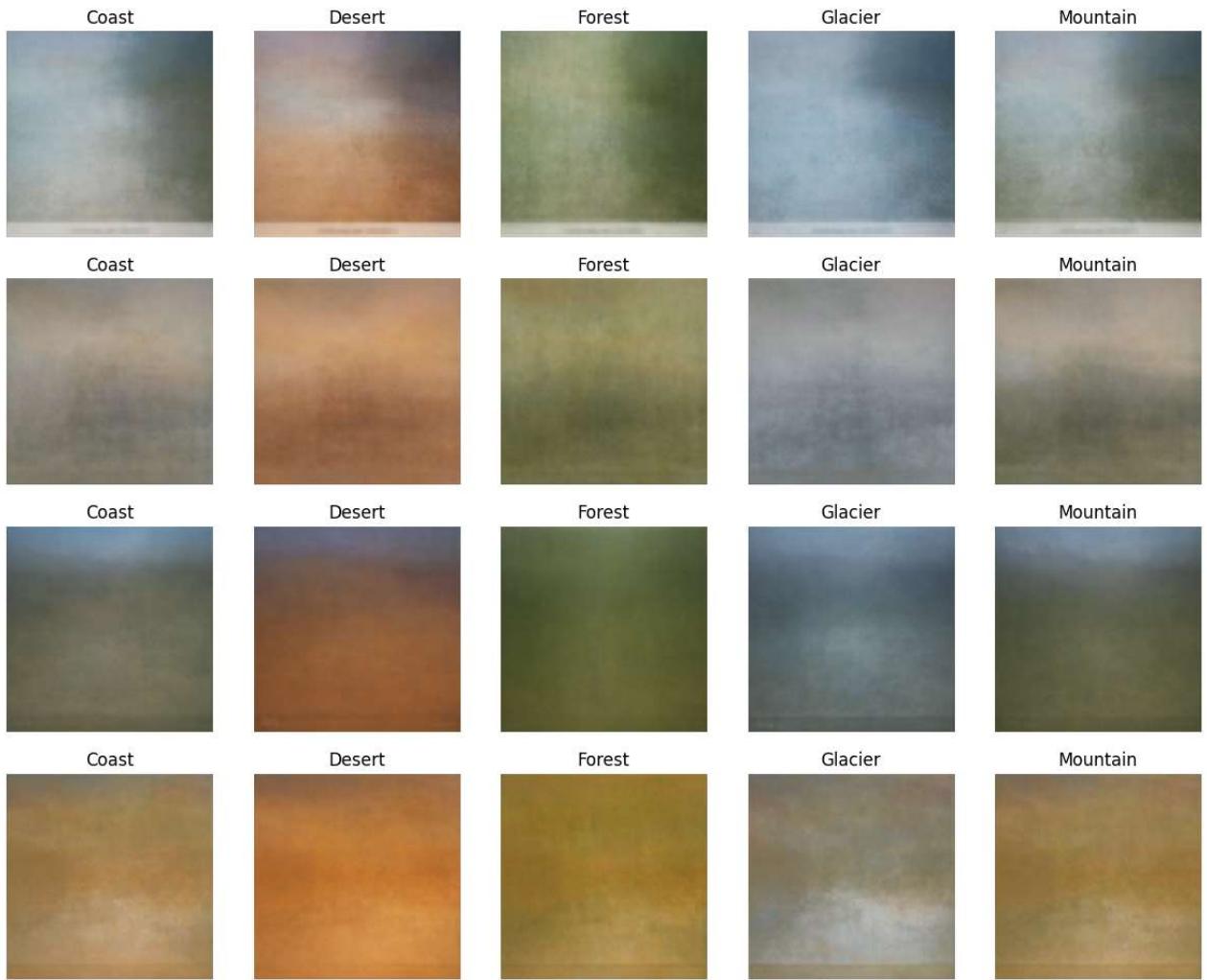
Epoch 40/100

300/300 [=====] - ETA: 0s - loss: 366.0331 - reconstruction_error: 360.5781 - regularization_error: 5.4549

[2023-12-07 13:55:35.369858]: Generating fixed images for epoch 40 ...



[2023-12-07 13:55:36.437216]: Generating random images for epoch 40 ...



300/300 [=====] - 75s 250ms/step - loss: 366.0331 - reconstruction_error: 360.5781 - regularization_error: 5.4549 - val_loss: 376.9774 - val_reconstruction_error: 371.5194 - val_regularization_error: 5.4409

Epoch 41/100

300/300 [=====] - ETA: 0s - loss: 365.7317 - reconstruction_error: 360.2648 - regularization_error: 5.4669

[2023-12-07 13:56:52.131370]: Generating fixed images for epoch 41 ...



[2023-12-07 13:56:53.577305]: Generating random images for epoch 41 ...



300/300 [=====] - 78s 258ms/step - loss: 365.7317 - reconstruction_error: 360.2648 - regularization_error: 5.4669 - val_loss: 373.0051 - val_reconstruction_error: 367.7545 - val_regularization_error: 5.4436

Epoch 42/100

300/300 [=====] - ETA: 0s - loss: 364.6089 - reconstruction_error: 359.1382 - regularization_error: 5.4709

[2023-12-07 13:58:09.813045]: Generating fixed images for epoch 42 ...



[2023-12-07 13:58:10.418901]: Generating random images for epoch 42 ...



300/300 [=====] - 77s 256ms/step - loss: 364.6089 - reconstruction_error: 359.1382 - regularization_error: 5.4709 - val_loss: 378.1528 - val_reconstruction_error: 372.9868 - val_regularization_e
rror: 5.4518

Epoch 43/100

300/300 [=====] - ETA: 0s - loss: 364.2913 - reconstruction_error: 358.7935 - regularization_error: 5.4980

[2023-12-07 13:59:25.363484]: Generating fixed images for epoch 43 ...



[2023-12-07 13:59:26.518363]: Generating random images for epoch 43 ...



300/300 [=====] - 76s 251ms/step - loss: 364.2913 - reconstruction_error: 358.7935 - regularization_error: 5.4980 - val_loss: 381.6122 - val_reconstruction_error: 376.4951 - val_regularization_e
rror: 5.4893

Epoch 44/100

300/300 [=====] - ETA: 0s - loss: 363.6535 - reconstruction_error: 358.1633 - regularization_error: 5.4901

[2023-12-07 14:00:41.163826]: Generating fixed images for epoch 44 ...



[2023-12-07 14:00:41.763948]: Generating random images for epoch 44 ...



300/300 [=====] - 75s 250ms/step - loss: 363.6535 - reconstruction_error: 358.1633 - regularization_error: 5.4901 - val_loss: 374.9682 - val_reconstruction_error: 369.7952 - val_regularization_error: 5.4859

Epoch 45/100

300/300 [=====] - ETA: 0s - loss: 364.6305 - reconstruction_error: 359.1160 - regularization_error: 5.5144

[2023-12-07 14:01:52.559986]: Generating fixed images for epoch 45 ...



[2023-12-07 14:01:53.227531]: Generating random images for epoch 45 ...



300/300 [=====] - 71s 236ms/step - loss: 364.6305 - reconstruction_error: 359.1160 - regularization_error: 5.5144 - val_loss: 378.6593 - val_reconstruction_error: 373.9550 - val_regularization_error: 5.4787

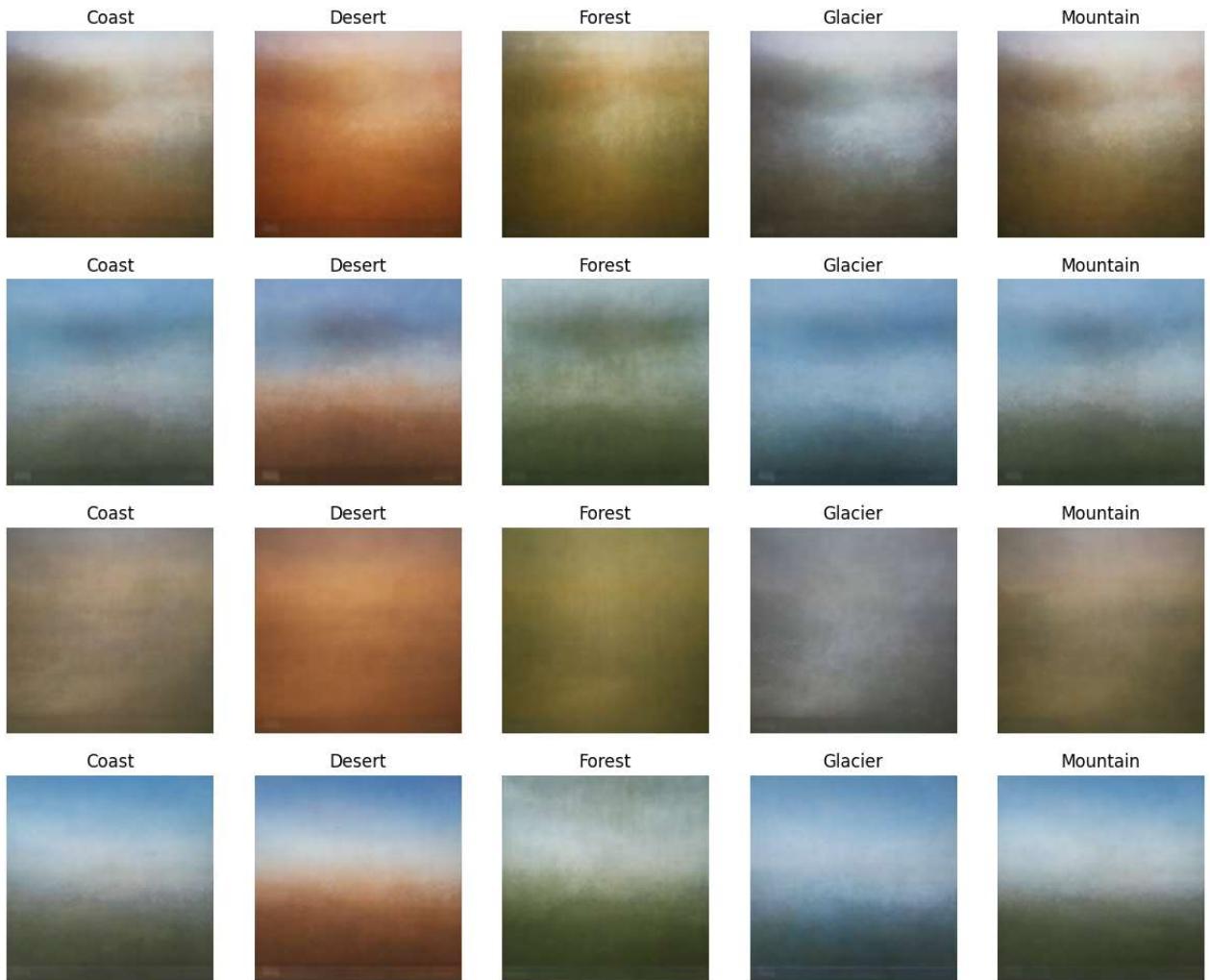
Epoch 46/100

300/300 [=====] - ETA: 0s - loss: 364.1050 - reconstruction_error: 358.5940 - regularization_error: 5.5109

[2023-12-07 14:03:05.083472]: Generating fixed images for epoch 46 ...



[2023-12-07 14:03:05.726962]: Generating random images for epoch 46 ...



300/300 [=====] - 73s 242ms/step - loss: 364.1050 - reconstruction_error: 358.5940 - regularization_error: 5.5109 - val_loss: 377.0027 - val_reconstruction_error: 371.4748 - val_regularization_error: 5.5311

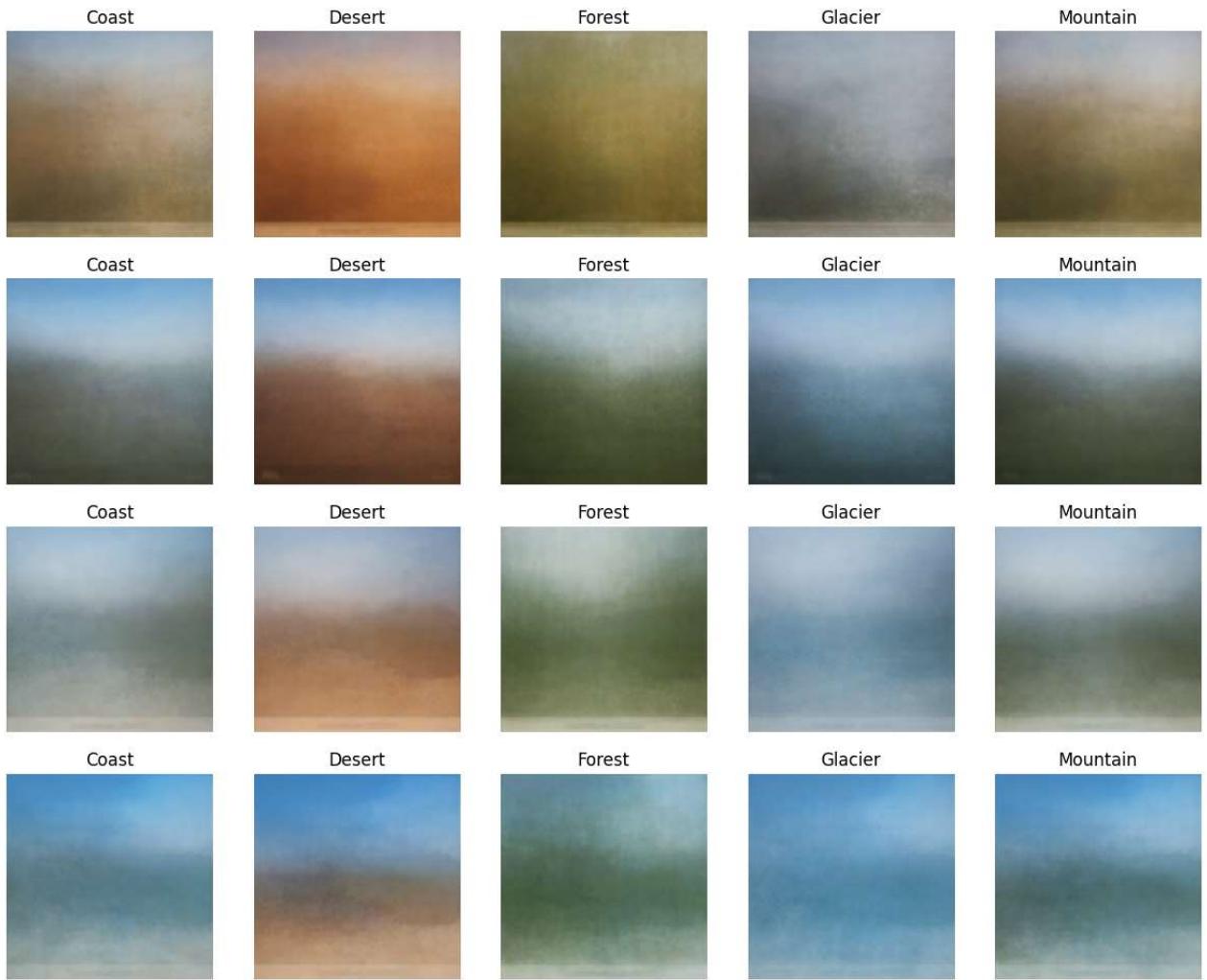
Epoch 47/100

300/300 [=====] - ETA: 0s - loss: 363.6872 - reconstruction_error: 358.1653 - regularization_error: 5.5220

[2023-12-07 14:04:17.258920]: Generating fixed images for epoch 47 ...



[2023-12-07 14:04:18.535173]: Generating random images for epoch 47 ...



300/300 [=====] - 74s 246ms/step - loss: 363.6872 - reconstruction_error: 358.1653 - regularization_error: 5.5220 - val_loss: 378.4546 - val_reconstruction_error: 373.1249 - val_regularization_error: 5.4715

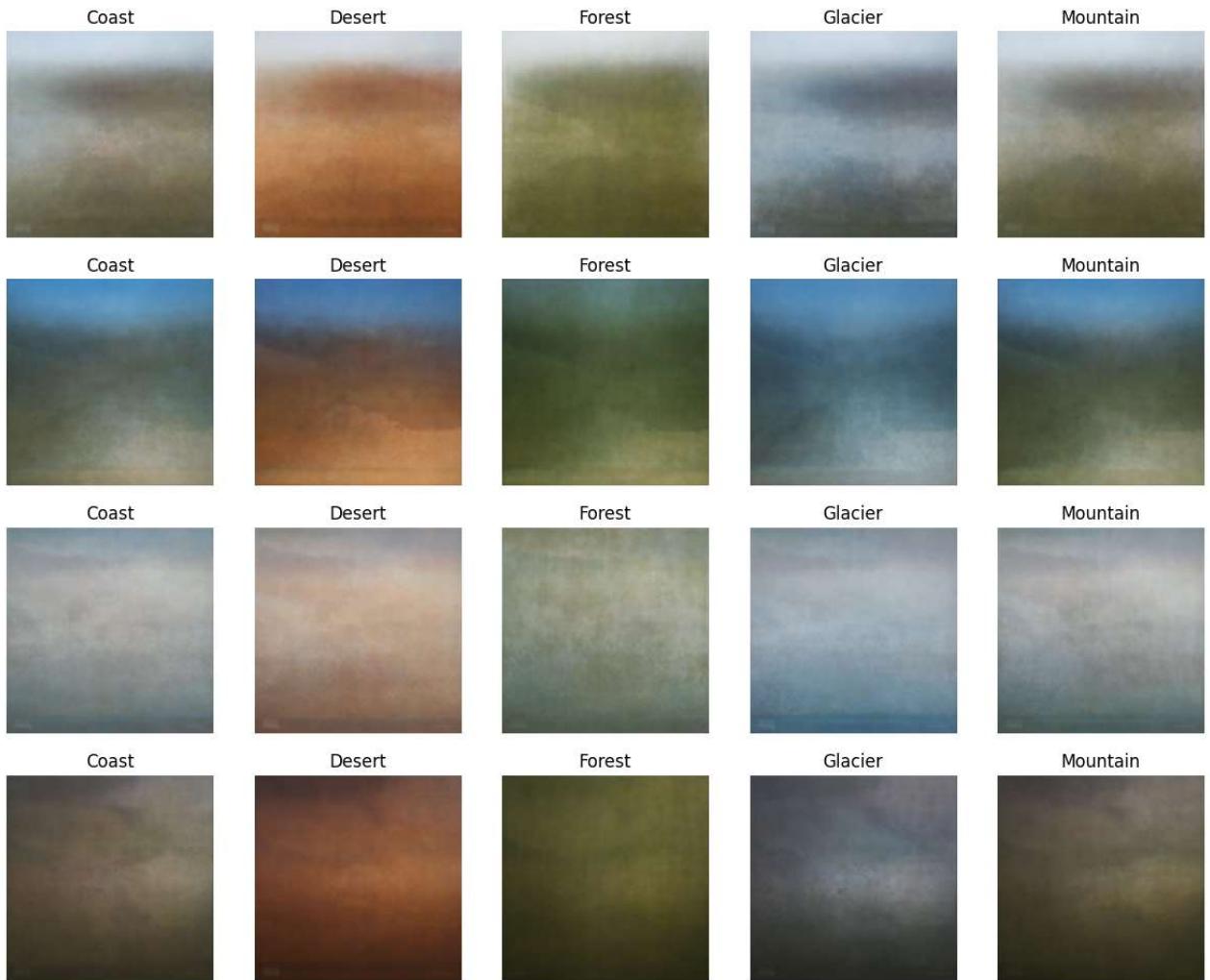
Epoch 48/100

300/300 [=====] - ETA: 0s - loss: 362.3783 - reconstruction_error: 356.8514 - regularization_error: 5.5267

[2023-12-07 14:05:29.571299]: Generating fixed images for epoch 48 ...



[2023-12-07 14:05:30.493918]: Generating random images for epoch 48 ...



300/300 [=====] - 71s 234ms/step - loss: 362.3783 - reconstruction_error: 356.8514 - regularization_error: 5.5267 - val_loss: 377.7941 - val_reconstruction_error: 372.1235 - val_regularization_e
rror: 5.5742

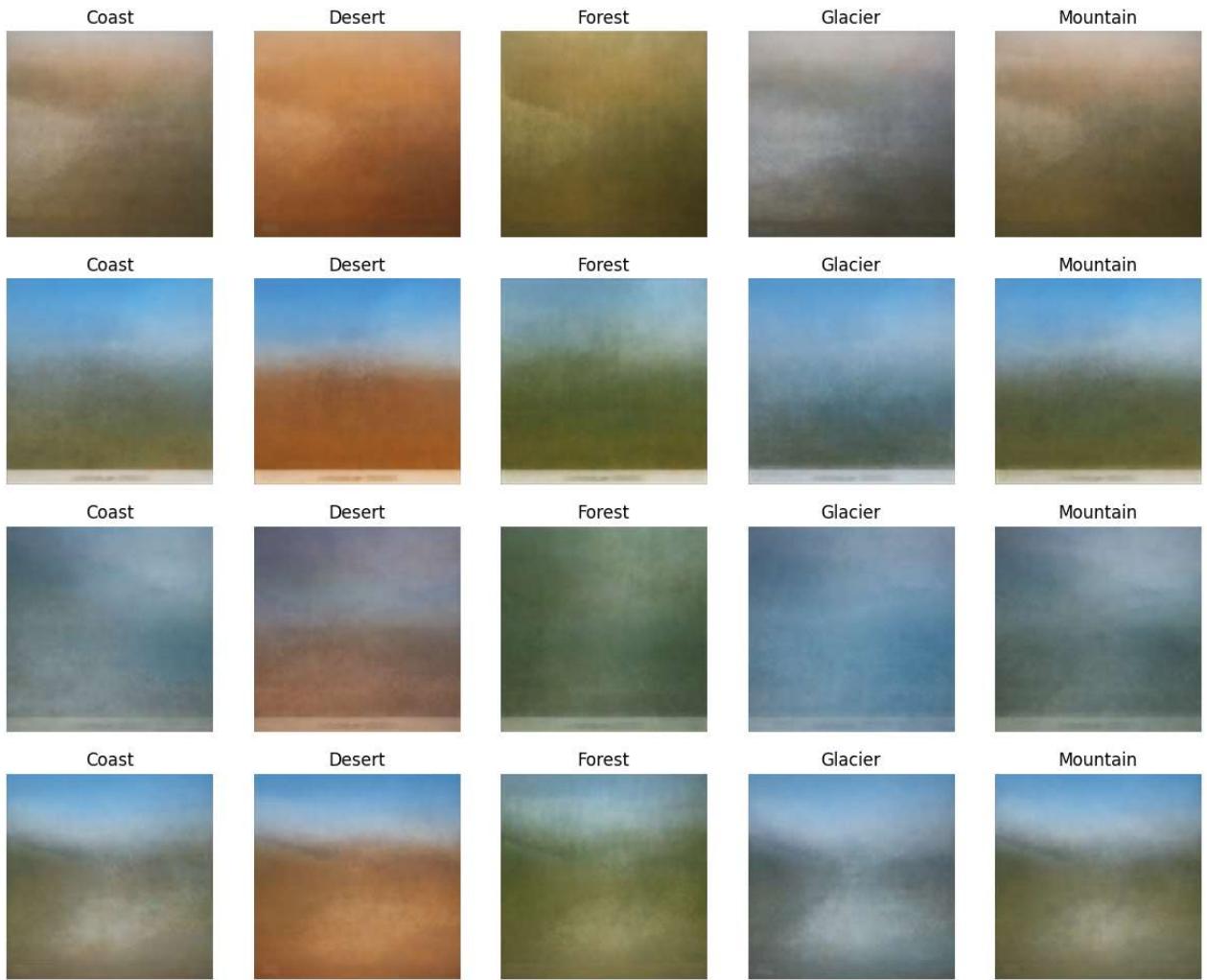
Epoch 49/100

300/300 [=====] - ETA: 0s - loss: 364.0167 - reconstruction_error: 358.4790 - regularization_error: 5.5378

[2023-12-07 14:06:41.216850]: Generating fixed images for epoch 49 ...



[2023-12-07 14:06:41.720933]: Generating random images for epoch 49 ...



300/300 [=====] - 71s 236ms/step - loss: 364.0167 - reconstruction_error: 358.4790 - regularization_error: 5.5378 - val_loss: 373.9605 - val_reconstruction_error: 368.7257 - val_regularization_error: 5.5114

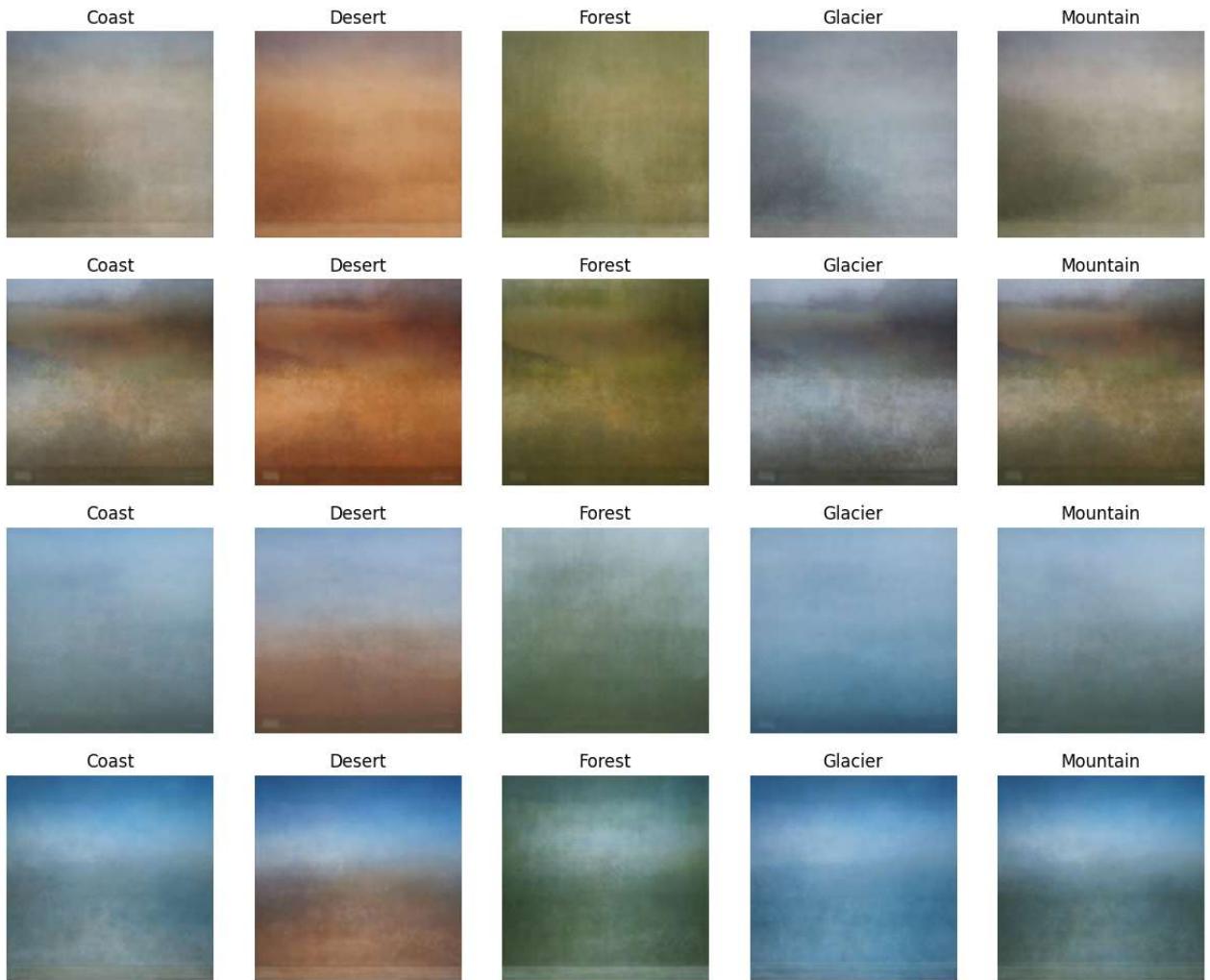
Epoch 50/100

300/300 [=====] - ETA: 0s - loss: 362.1205 - reconstruction_error: 356.5674 - regularization_error: 5.5529

[2023-12-07 14:07:54.539680]: Generating fixed images for epoch 50 ...



[2023-12-07 14:07:55.294241]: Generating random images for epoch 50 ...



300/300 [=====] - 75s 248ms/step - loss: 362.1205 - reconstruction_error: 356.5674 - regularization_error: 5.5529 - val_loss: 373.8481 - val_reconstruction_error: 368.2638 - val_regularization_error: 5.5884

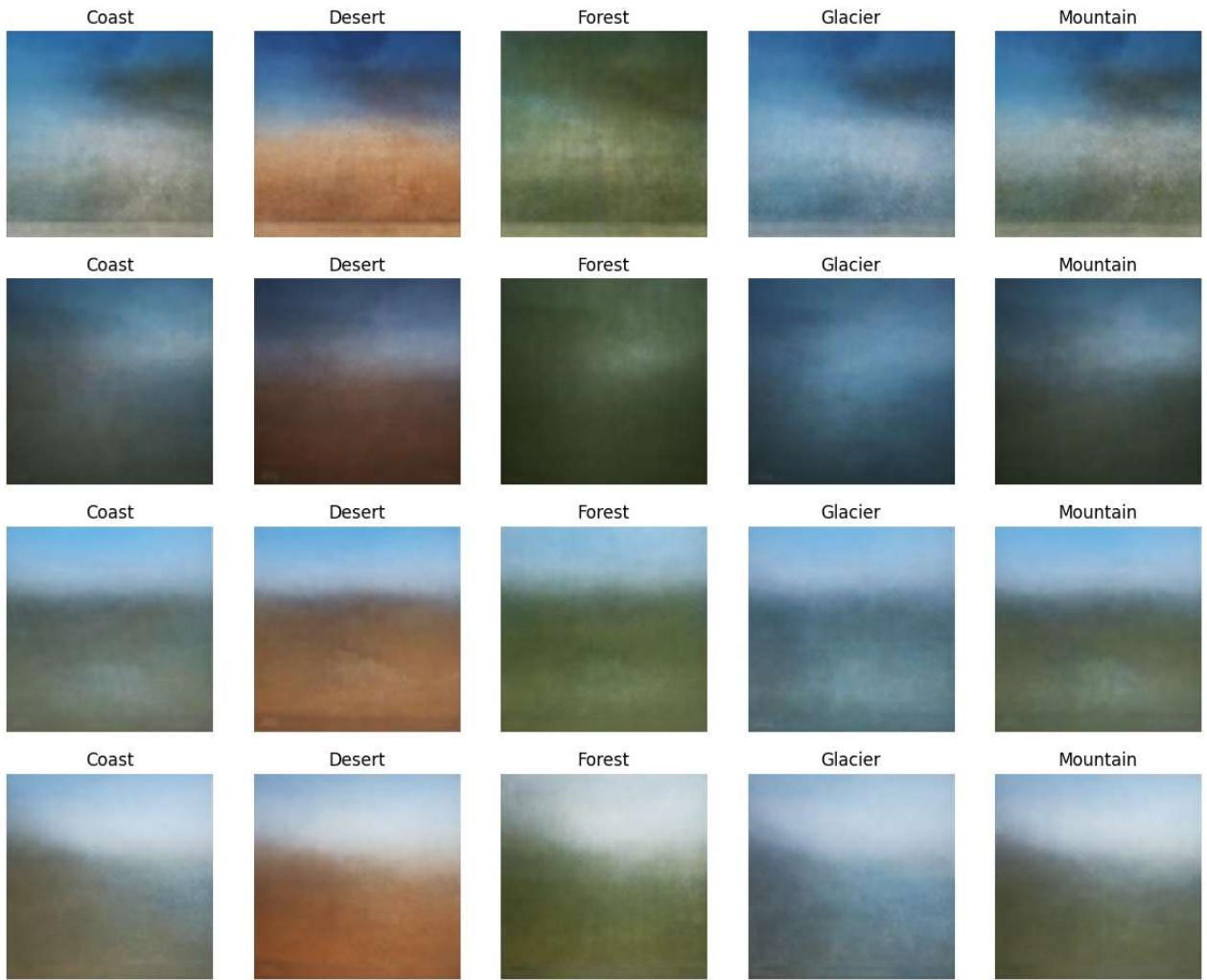
Epoch 51/100

300/300 [=====] - ETA: 0s - loss: 362.0208 - reconstruction_error: 356.4666 - regularization_error: 5.5542

[2023-12-07 14:09:07.044764]: Generating fixed images for epoch 51 ...



[2023-12-07 14:09:07.527153]: Generating random images for epoch 51 ...



300/300 [=====] - 71s 237ms/step - loss: 362.0208 - reconstruction_error: 356.4666 - regularization_error: 5.5542 - val_loss: 377.7369 - val_reconstruction_error: 372.6843 - val_regularization_error: 5.5972

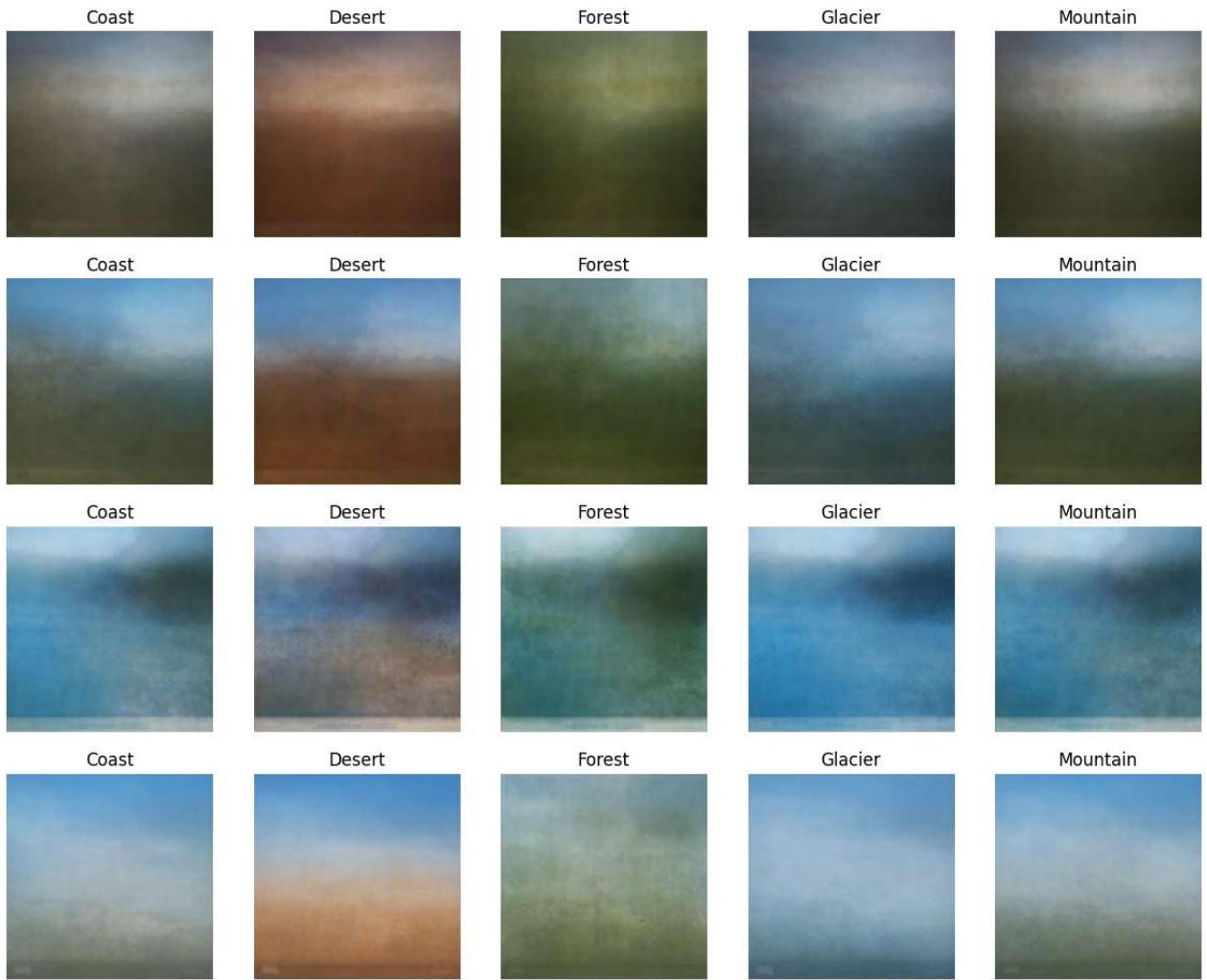
Epoch 52/100

300/300 [=====] - ETA: 0s - loss: 362.9249 - reconstruction_error: 357.3718 - regularization_error: 5.5531

[2023-12-07 14:10:24.996702]: Generating fixed images for epoch 52 ...



[2023-12-07 14:10:25.496754]: Generating random images for epoch 52 ...



300/300 [=====] - 78s 259ms/step - loss: 362.9249 - reconstruction_error: 357.3718 - regularization_error: 5.5531 - val_loss: 376.5104 - val_reconstruction_error: 371.0809 - val_regularization_error: 5.5080

Epoch 53/100

300/300 [=====] - ETA: 0s - loss: 362.3380 - reconstruction_error: 356.7754 - regularization_error: 5.5627

[2023-12-07 14:11:38.095050]: Generating fixed images for epoch 53 ...



[2023-12-07 14:11:38.586057]: Generating random images for epoch 53 ...



300/300 [=====] - 73s 242ms/step - loss: 362.3380 - reconstruction_error: 356.7754 - regularization_error: 5.5627 - val_loss: 376.2509 - val_reconstruction_error: 370.6920 - val_regularization_error: 5.5717

Epoch 54/100

300/300 [=====] - ETA: 0s - loss: 361.4232 - reconstruction_error: 355.8564 - regularization_error: 5.5668

[2023-12-07 14:12:46.722768]: Generating fixed images for epoch 54 ...



[2023-12-07 14:12:47.493403]: Generating random images for epoch 54 ...



300/300 [=====] - 70s 232ms/step - loss: 361.4232 - reconstruction_error: 355.8564 - regularization_error: 5.5668 - val_loss: 374.4821 - val_reconstruction_error: 369.1281 - val_regularization_error: 5.5734

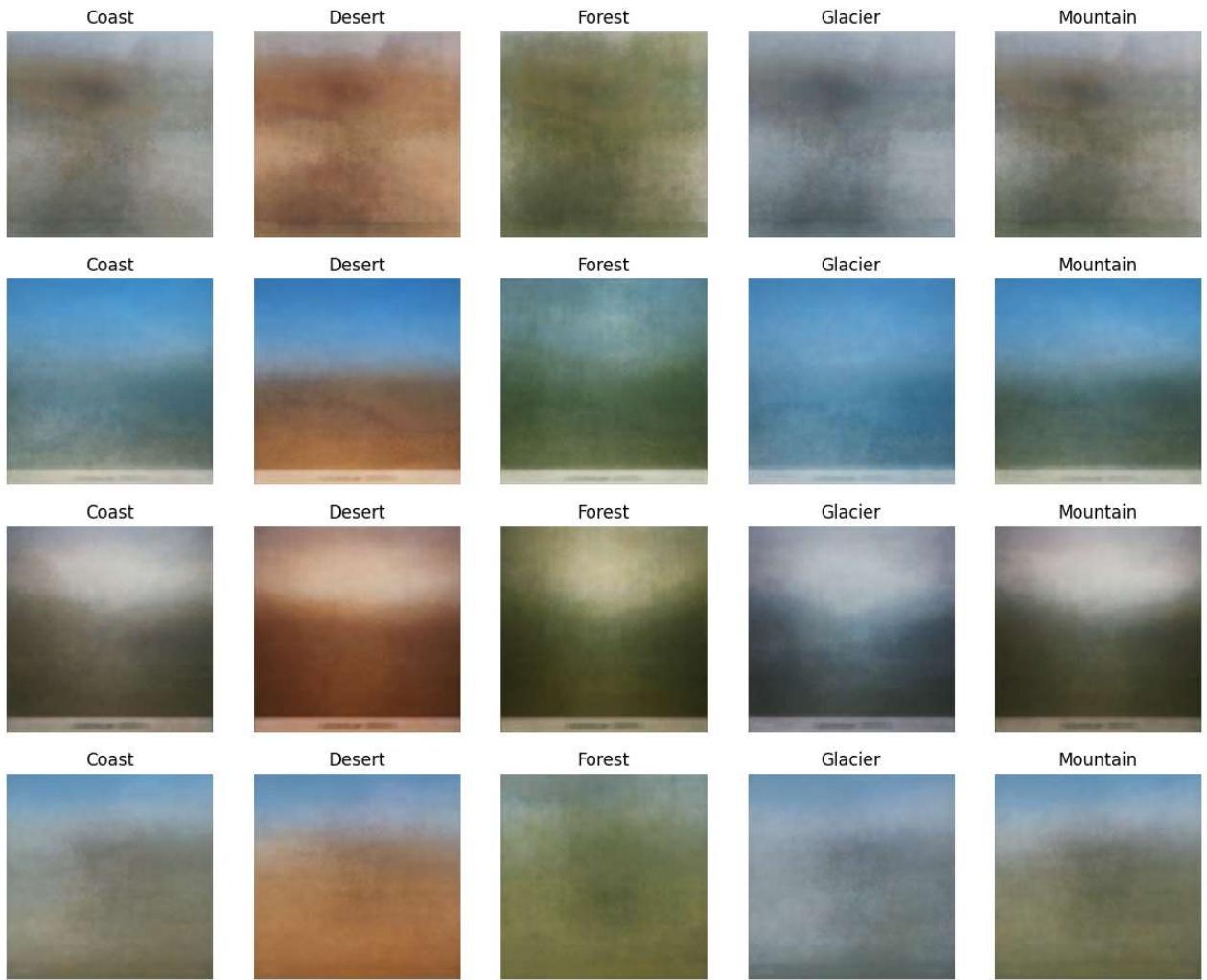
Epoch 55/100

300/300 [=====] - ETA: 0s - loss: 361.9757 - reconstruction_error: 356.3940 - regularization_error: 5.5817

[2023-12-07 14:14:09.260510]: Generating fixed images for epoch 55 ...



[2023-12-07 14:14:09.746142]: Generating random images for epoch 55 ...



300/300 [=====] - 81s 269ms/step - loss: 361.9757 - reconstruction_error: 356.3940 - regularization_error: 5.5817 - val_loss: 373.5167 - val_reconstruction_error: 368.0296 - val_regularization_e
rror: 5.5410

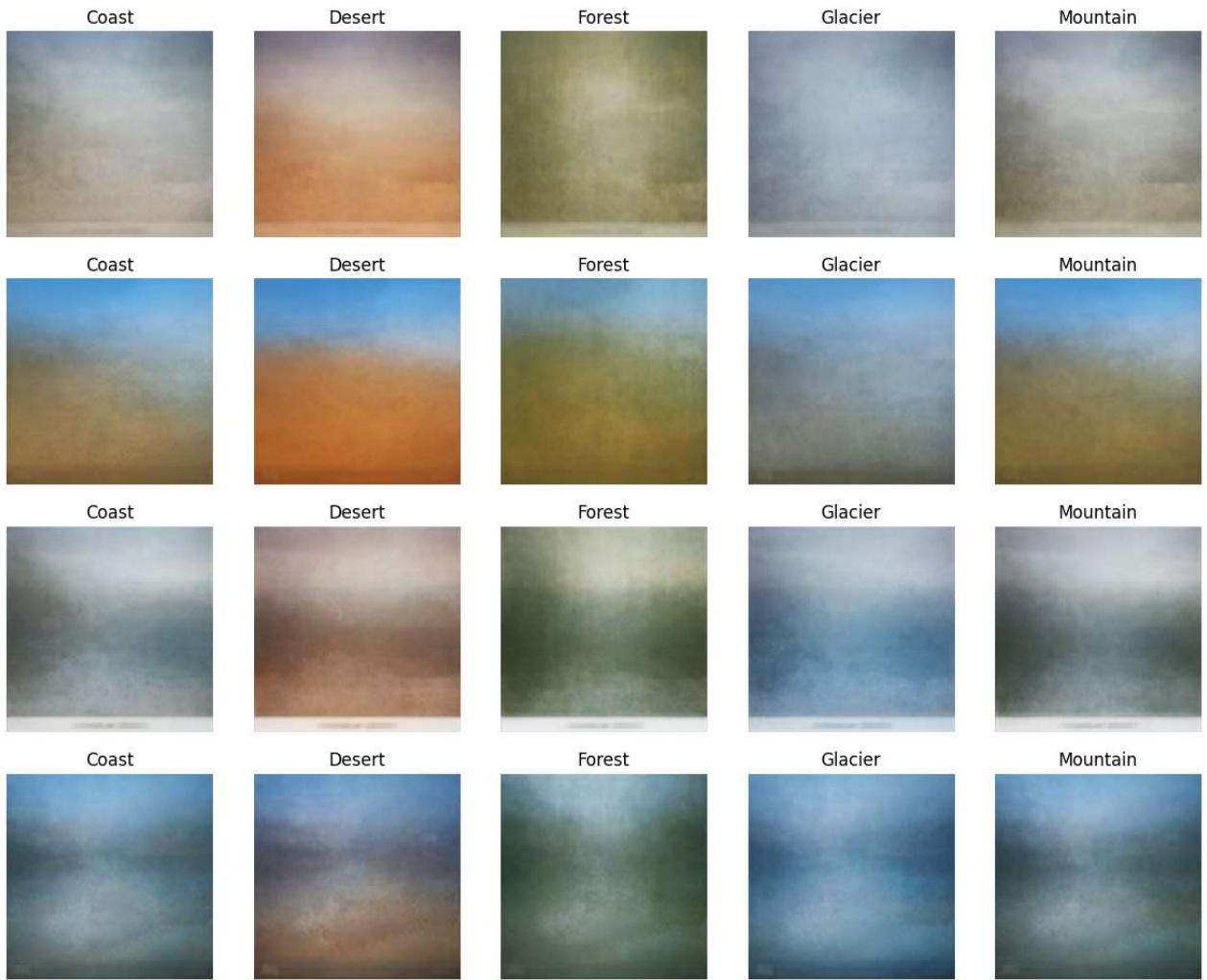
Epoch 56/100

300/300 [=====] - ETA: 0s - loss: 361.4404 - reconstruction_error: 355.8504 - regularization_error: 5.5899

[2023-12-07 14:15:21.003448]: Generating fixed images for epoch 56 ...



[2023-12-07 14:15:21.492859]: Generating random images for epoch 56 ...



300/300 [=====] - 72s 238ms/step - loss: 361.4404 - reconstruction_error: 355.8504 - regularization_error: 5.5899 - val_loss: 375.2212 - val_reconstruction_error: 369.9699 - val_regularization_e
rror: 5.5295

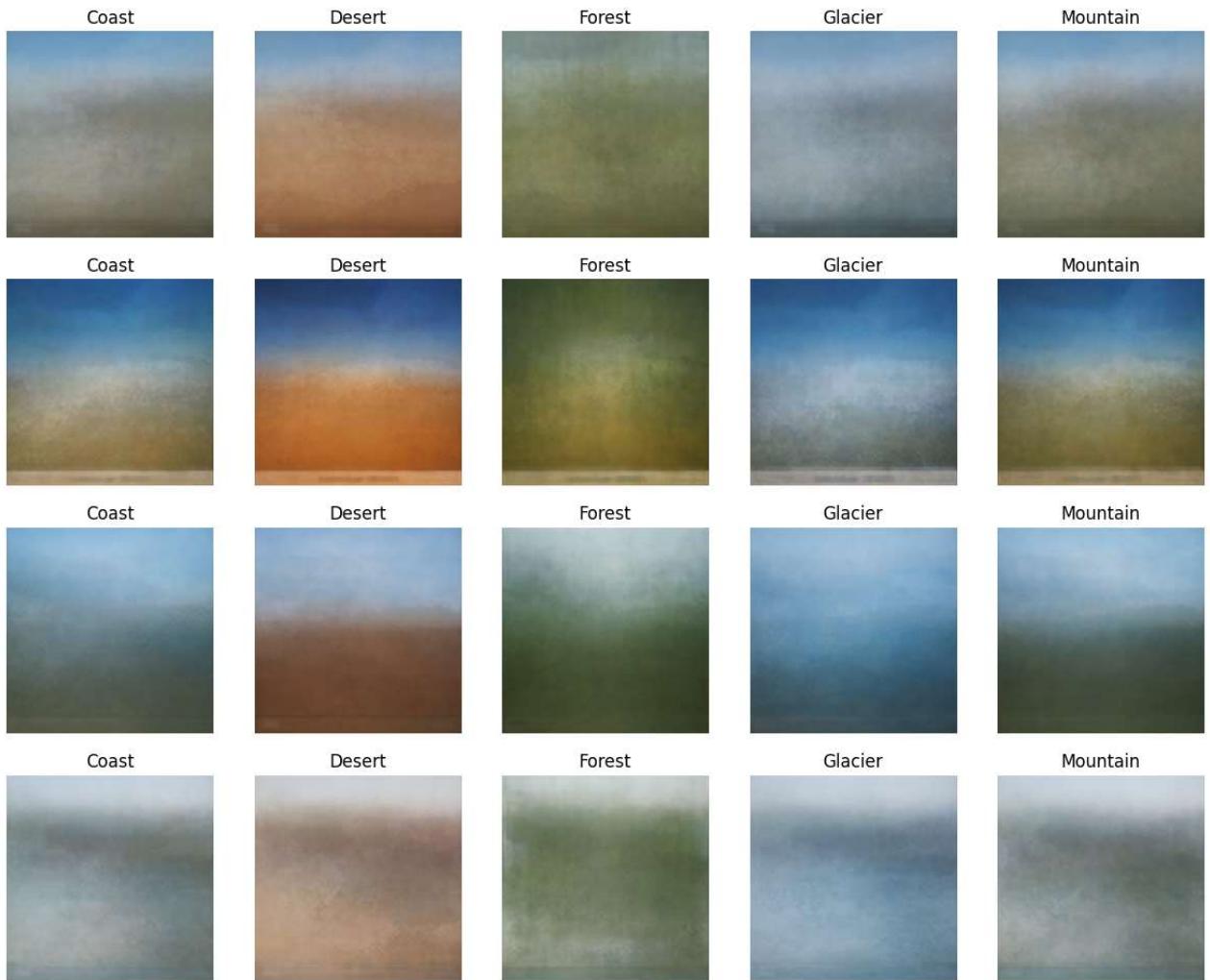
Epoch 57/100

300/300 [=====] - ETA: 0s - loss: 360.7866 - reconstruction_error: 355.1938 - regularization_error: 5.5930

[2023-12-07 14:16:34.281265]: Generating fixed images for epoch 57 ...



[2023-12-07 14:16:35.562483]: Generating random images for epoch 57 ...



300/300 [=====] - 74s 247ms/step - loss: 360.7866 - reconstruction_error: 355.1938 - regularization_error: 5.5930 - val_loss: 376.5647 - val_reconstruction_error: 371.2871 - val_regularization_error: 5.5317

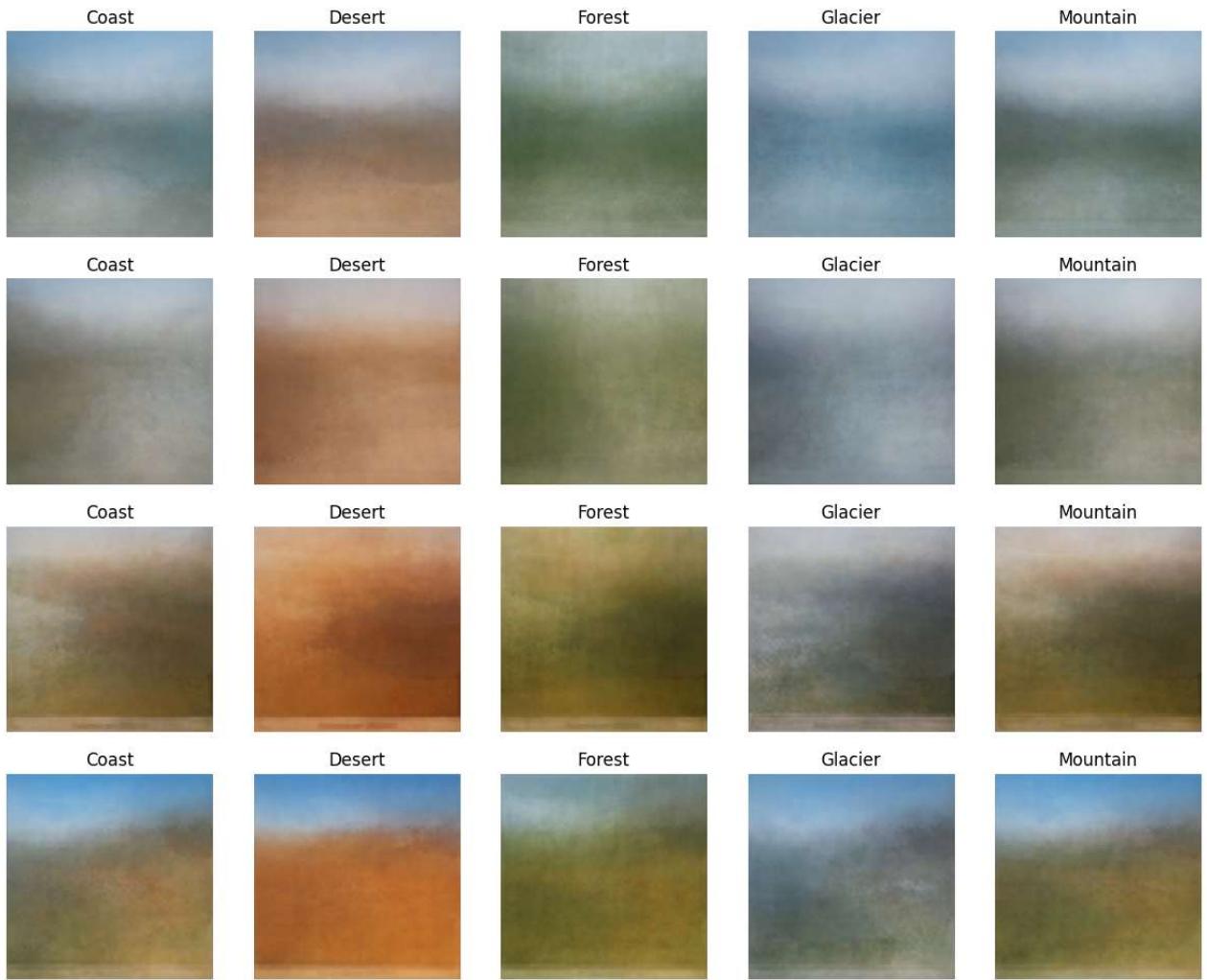
Epoch 58/100

300/300 [=====] - ETA: 0s - loss: 361.1210 - reconstruction_error: 355.5362 - regularization_error: 5.5848

[2023-12-07 14:17:51.326638]: Generating fixed images for epoch 58 ...



[2023-12-07 14:17:51.805946]: Generating random images for epoch 58 ...



300/300 [=====] - 77s 256ms/step - loss: 361.1210 - reconstruction_error: 355.5362 - regularization_error: 5.5848 - val_loss: 369.3348 - val_reconstruction_error: 364.3187 - val_regularization_error: 5.5459

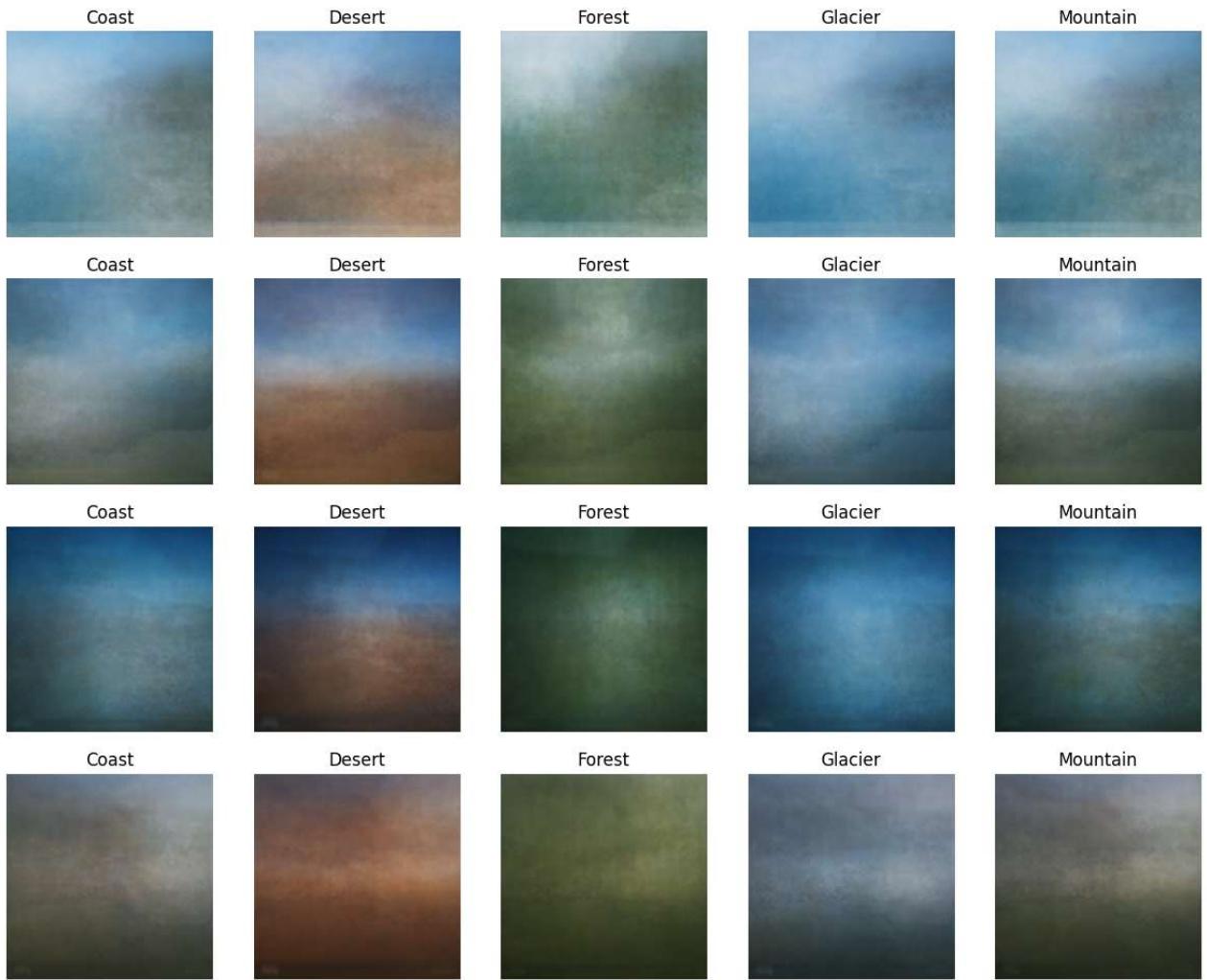
Epoch 59/100

300/300 [=====] - ETA: 0s - loss: 362.0063 - reconstruction_error: 356.4085 - regularization_error: 5.5978

[2023-12-07 14:19:00.154851]: Generating fixed images for epoch 59 ...



[2023-12-07 14:19:00.632442]: Generating random images for epoch 59 ...



300/300 [=====] - 69s 228ms/step - loss: 362.0063 - reconstruction_error: 356.4085 - regularization_error: 5.5978 - val_loss: 377.1675 - val_reconstruction_error: 371.9763 - val_regularization_error: 5.5612

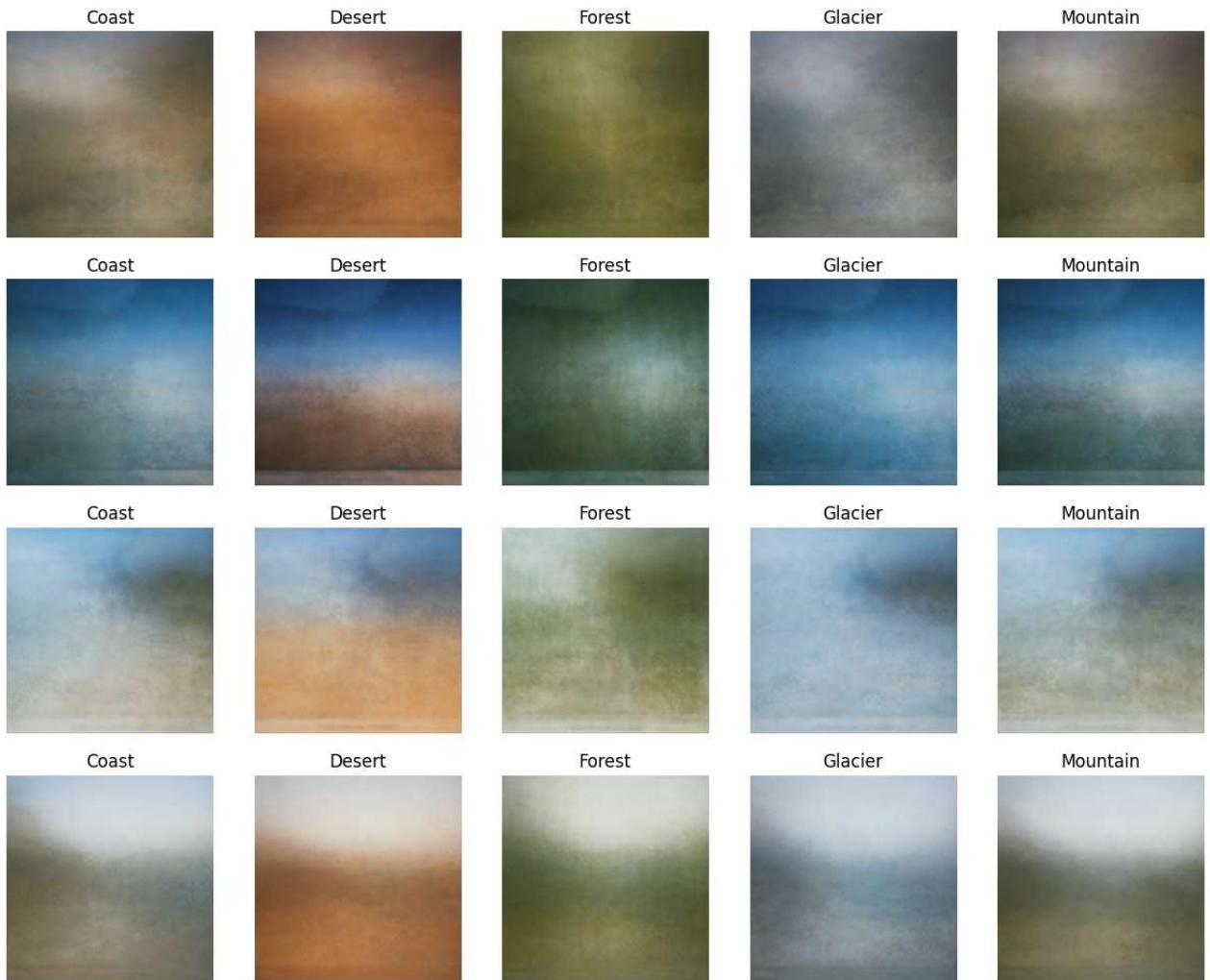
Epoch 60/100

300/300 [=====] - ETA: 0s - loss: 359.1997 - reconstruction_error: 353.6066 - regularization_error: 5.5930

[2023-12-07 14:20:11.498808]: Generating fixed images for epoch 60 ...



[2023-12-07 14:20:12.638628]: Generating random images for epoch 60 ...



300/300 [=====] - 71s 236ms/step - loss: 359.1997 - reconstruction_error: 353.6066 - regularization_error: 5.5930 - val_loss: 376.0810 - val_reconstruction_error: 370.7071 - val_regularization_error: 5.5827

Epoch 61/100

300/300 [=====] - ETA: 0s - loss: 360.6476 - reconstruction_error: 355.0188 - regularization_error: 5.6290

[2023-12-07 14:21:27.291737]: Generating fixed images for epoch 61 ...



[2023-12-07 14:21:28.519930]: Generating random images for epoch 61 ...



300/300 [=====] - 76s 252ms/step - loss: 360.6476 - reconstruction_error: 355.0188 - regularization_error: 5.6290 - val_loss: 375.0139 - val_reconstruction_error: 369.4814 - val_regularization_e
rror: 5.5929

Epoch 62/100

300/300 [=====] - ETA: 0s - loss: 359.2440 - reconstruction_error: 353.6104 - regularization_error: 5.6336

[2023-12-07 14:22:33.881975]: Generating fixed images for epoch 62 ...



[2023-12-07 14:22:34.354152]: Generating random images for epoch 62 ...



300/300 [=====] - 66s 218ms/step - loss: 359.2440 - reconstruction_error: 353.6104 - regularization_error: 5.6336 - val_loss: 377.5340 - val_reconstruction_error: 372.0939 - val_regularization_error: 5.6062

Epoch 63/100

300/300 [=====] - ETA: 0s - loss: 359.7560 - reconstruction_error: 354.1221 - regularization_error: 5.6338

[2023-12-07 14:23:45.355813]: Generating fixed images for epoch 63 ...



[2023-12-07 14:23:46.555084]: Generating random images for epoch 63 ...



300/300 [=====] - 72s 239ms/step - loss: 359.7560 - reconstruction_error: 354.1221 - regularization_error: 5.6338 - val_loss: 377.3724 - val_reconstruction_error: 371.9205 - val_regularization_error: 5.5298

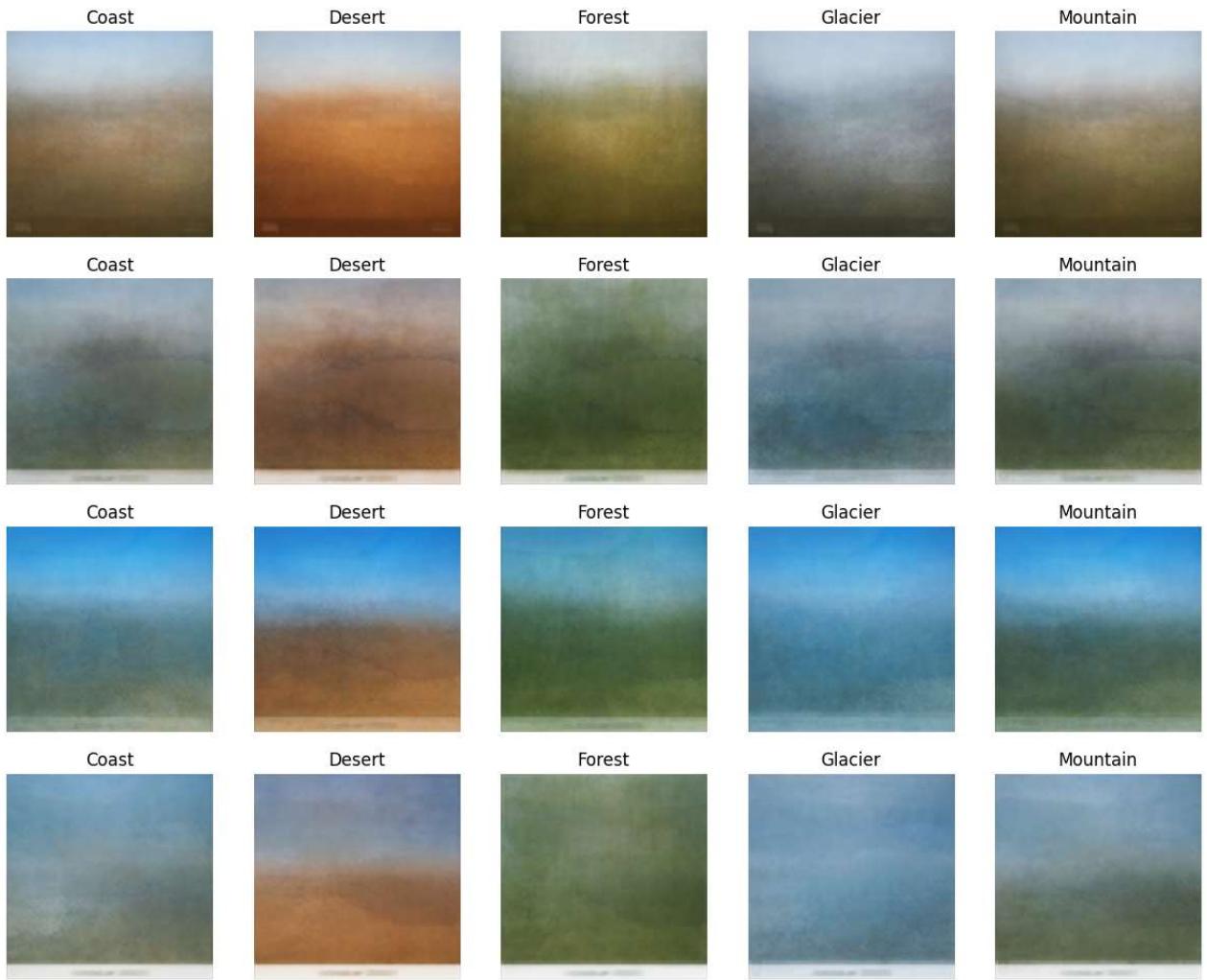
Epoch 64/100

300/300 [=====] - ETA: 0s - loss: 359.5206 - reconstruction_error: 353.8907 - regularization_error: 5.6300

[2023-12-07 14:24:48.515478]: Generating fixed images for epoch 64 ...



[2023-12-07 14:24:49.604565]: Generating random images for epoch 64 ...



300/300 [=====] - 63s 210ms/step - loss: 359.5206 - reconstruction_error: 353.8907 - regularization_error: 5.6300 - val_loss: 375.7882 - val_reconstruction_error: 370.4610 - val_regularization_e
rror: 5.5557

Epoch 65/100

300/300 [=====] - ETA: 0s - loss: 359.1425 - reconstruction_error: 353.4909 - regularization_error: 5.6515

[2023-12-07 14:25:59.361699]: Generating fixed images for epoch 65 ...



[2023-12-07 14:26:00.569957]: Generating random images for epoch 65 ...



300/300 [=====] - 71s 235ms/step - loss: 359.1425 - reconstruction_error: 353.4909 - regularization_error: 5.6515 - val_loss: 376.2941 - val_reconstruction_error: 371.1029 - val_regularization_error: 5.5491

Epoch 66/100

300/300 [=====] - ETA: 0s - loss: 360.2154 - reconstruction_error: 354.5484 - regularization_error: 5.6670

[2023-12-07 14:27:25.469937]: Generating fixed images for epoch 66 ...



[2023-12-07 14:27:26.218016]: Generating random images for epoch 66 ...

08/12/23, 18:39

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300/300 [=====] - 75s 248ms/step - loss: 360.2154 - reconstruction_error: 354.5484 - regularization_error: 5.6670 - val_loss: 373.6180 - val_reconstruction_error: 368.1525 - val_regularization_error: 5.5822

Epoch 67/100

300/300 [=====] - ETA: 0s - loss: 359.7274 - reconstruction_error: 354.0523 - regularization_error: 5.6751

[2023-12-07 14:28:41.273537]: Generating fixed images for epoch 67 ...



[2023-12-07 14:28:41.755067]: Generating random images for epoch 67 ...



300/300 [=====] - 75s 249ms/step - loss: 359.7274 - reconstruction_error: 354.0523 - regularization_error: 5.6751 - val_loss: 372.5063 - val_reconstruction_error: 367.1206 - val_regularization_error: 5.5910

Epoch 68/100

300/300 [=====] - ETA: 0s - loss: 358.0616 - reconstruction_error: 352.3980 - regularization_error: 5.6637

[2023-12-07 14:29:56.277597]: Generating fixed images for epoch 68 ...



[2023-12-07 14:29:57.447631]: Generating random images for epoch 68 ...



300/300 [=====] - 76s 252ms/step - loss: 358.0616 - reconstruction_error: 352.3980 - regularization_error: 5.6637 - val_loss: 373.4891 - val_reconstruction_error: 368.0902 - val_regularization_error: 5.6066

Epoch 69/100

300/300 [=====] - ETA: 0s - loss: 358.7042 - reconstruction_error: 353.0359 - regularization_error: 5.6685

[2023-12-07 14:31:17.036523]: Generating fixed images for epoch 69 ...



[2023-12-07 14:31:17.546790]: Generating random images for epoch 69 ...



300/300 [=====] - 81s 269ms/step - loss: 358.7042 - reconstruction_error: 353.0359 - regularization_error: 5.6685 - val_loss: 374.5757 - val_reconstruction_error: 369.1822 - val_regularization_error: 5.6631

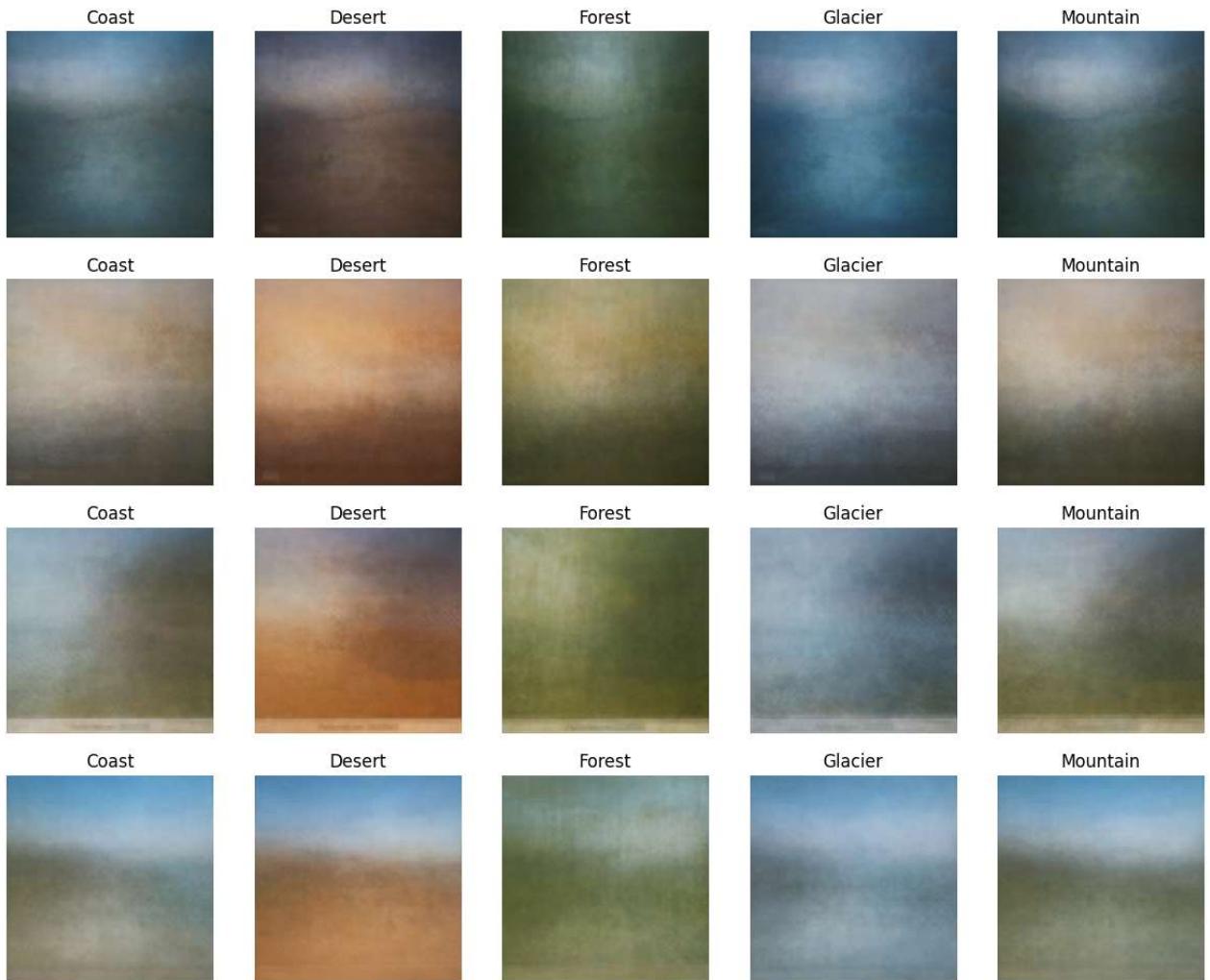
Epoch 70/100

300/300 [=====] - ETA: 0s - loss: 358.2689 - reconstruction_error: 352.5847 - regularization_error: 5.6843

[2023-12-07 14:32:25.916286]: Generating fixed images for epoch 70 ...



[2023-12-07 14:32:26.389610]: Generating random images for epoch 70 ...



300/300 [=====] - 69s 228ms/step - loss: 358.2689 - reconstruction_error: 352.5847 - regularization_error: 5.6843 - val_loss: 375.5303 - val_reconstruction_error: 370.0797 - val_regularization_error: 5.6181

Epoch 71/100

300/300 [=====] - ETA: 0s - loss: 358.1785 - reconstruction_error: 352.4968 - regularization_error: 5.6817

[2023-12-07 14:33:41.653680]: Generating fixed images for epoch 71 ...



[2023-12-07 14:33:42.675392]: Generating random images for epoch 71 ...

08/12/23, 18:39

wide-variant-d10



300/300 [=====] - 75s 249ms/step - loss: 358.1785 - reconstruction_error: 352.4968 - regularization_error: 5.6817 - val_loss: 372.2854 - val_reconstruction_error: 367.3104 - val_regularization_error: 5.6378

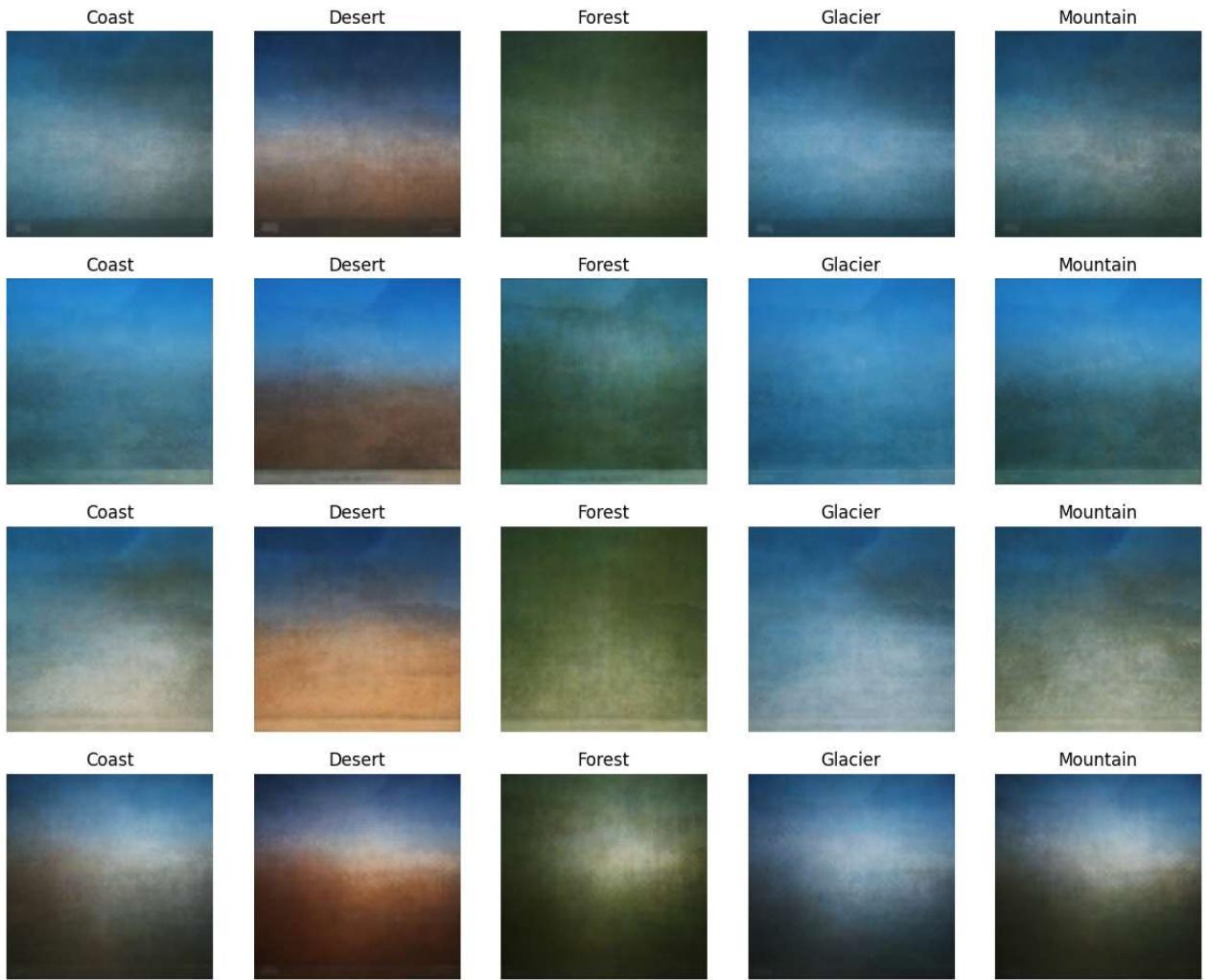
Epoch 72/100

300/300 [=====] - ETA: 0s - loss: 358.1080 - reconstruction_error: 352.4144 - regularization_error: 5.6937

[2023-12-07 14:34:58.968555]: Generating fixed images for epoch 72 ...



[2023-12-07 14:34:59.459536]: Generating random images for epoch 72 ...



300/300 [=====] - 77s 255ms/step - loss: 358.1080 - reconstruction_error: 352.4144 - regularization_error: 5.6937 - val_loss: 375.3213 - val_reconstruction_error: 369.7505 - val_regularization_e
rror: 5.5884

Epoch 73/100

300/300 [=====] - ETA: 0s - loss: 357.1239 - reconstruction_error: 351.4215 - regularization_error: 5.7021

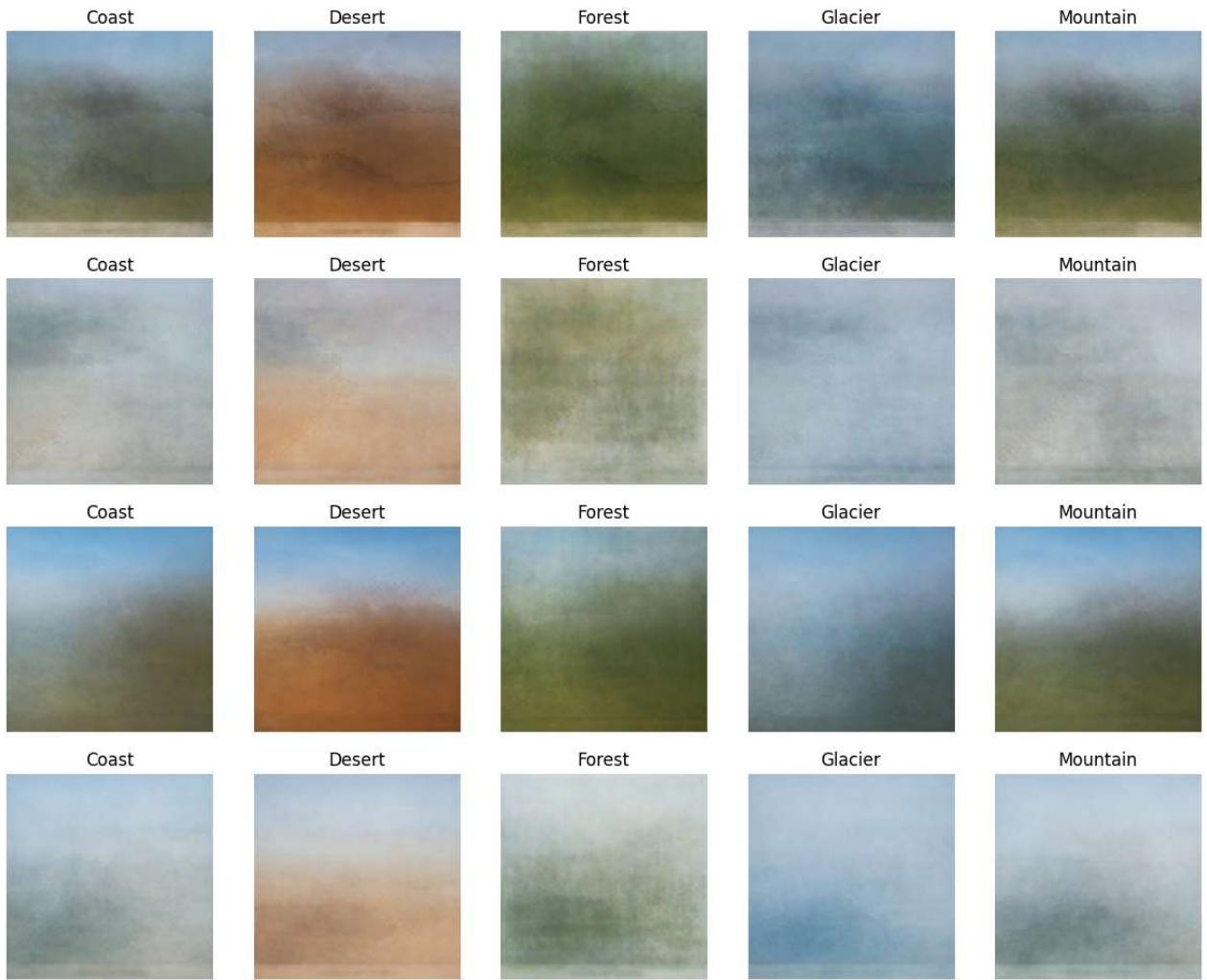
[2023-12-07 14:36:11.023301]: Generating fixed images for epoch 73 ...



[2023-12-07 14:36:11.503759]: Generating random images for epoch 73 ...

08/12/23, 18:39

wide-variant-d10



300/300 [=====] - 72s 239ms/step - loss: 357.1239 - reconstruction_error: 351.4215 - regularization_error: 5.7021 - val_loss: 375.4955 - val_reconstruction_error: 370.0833 - val_regularization_error: 5.6357

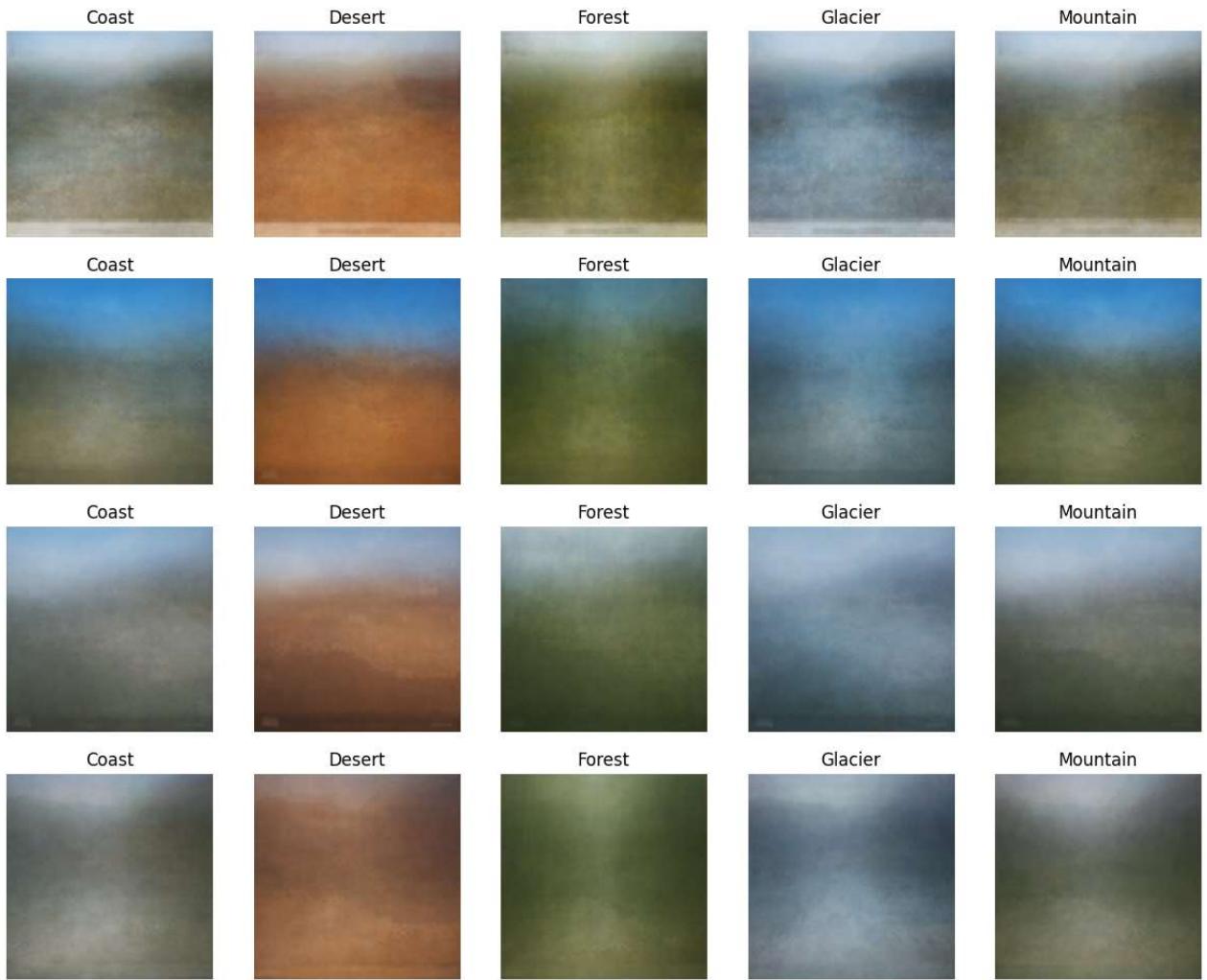
Epoch 74/100

300/300 [=====] - ETA: 0s - loss: 357.8612 - reconstruction_error: 352.1602 - regularization_error: 5.7013

[2023-12-07 14:37:31.088954]: Generating fixed images for epoch 74 ...



[2023-12-07 14:37:31.665998]: Generating random images for epoch 74 ...



300/300 [=====] - 80s 264ms/step - loss: 357.8612 - reconstruction_error: 352.1602 - regularization_error: 5.7013 - val_loss: 374.3165 - val_reconstruction_error: 369.0062 - val_regularization_e
rror: 5.6506

Epoch 75/100

300/300 [=====] - ETA: 0s - loss: 356.6022 - reconstruction_error: 350.8845 - regularization_error: 5.7178

[2023-12-07 14:38:44.072247]: Generating fixed images for epoch 75 ...



[2023-12-07 14:38:44.820614]: Generating random images for epoch 75 ...

08/12/23, 18:39

wide-variant-d10



300/300 [=====] - 73s 243ms/step - loss: 356.6022 - reconstruction_error: 350.8845 - regularization_error: 5.7178 - val_loss: 375.6273 - val_reconstruction_error: 370.1000 - val_regularization_error: 5.6646

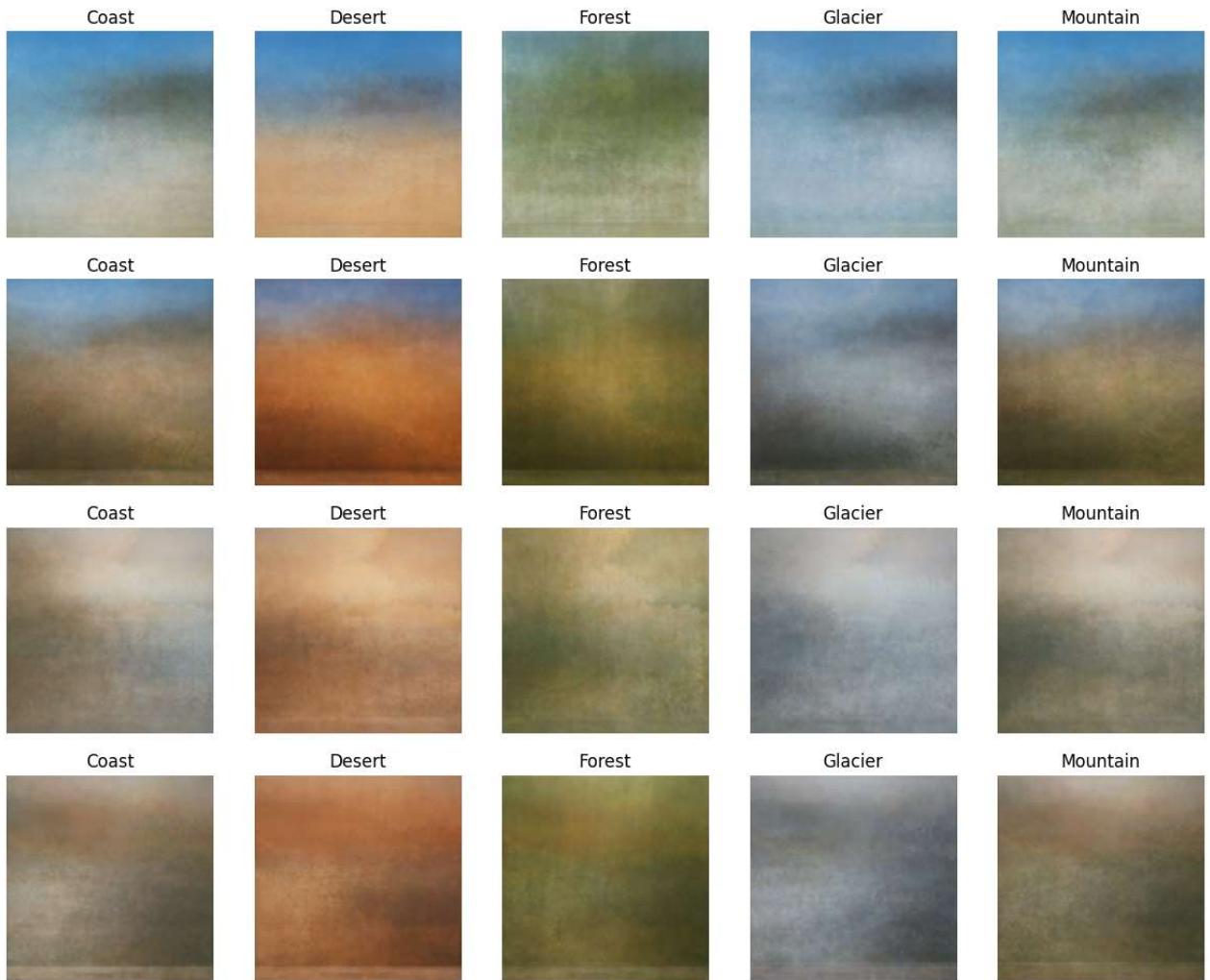
Epoch 76/100

300/300 [=====] - ETA: 0s - loss: 357.7441 - reconstruction_error: 352.0366 - regularization_error: 5.7077

[2023-12-07 14:39:54.556150]: Generating fixed images for epoch 76 ...



[2023-12-07 14:39:55.515040]: Generating random images for epoch 76 ...



300/300 [=====] - 71s 235ms/step - loss: 357.7441 - reconstruction_error: 352.0366 - regularization_error: 5.7077 - val_loss: 372.4546 - val_reconstruction_error: 367.1689 - val_regularization_e
rror: 5.6203

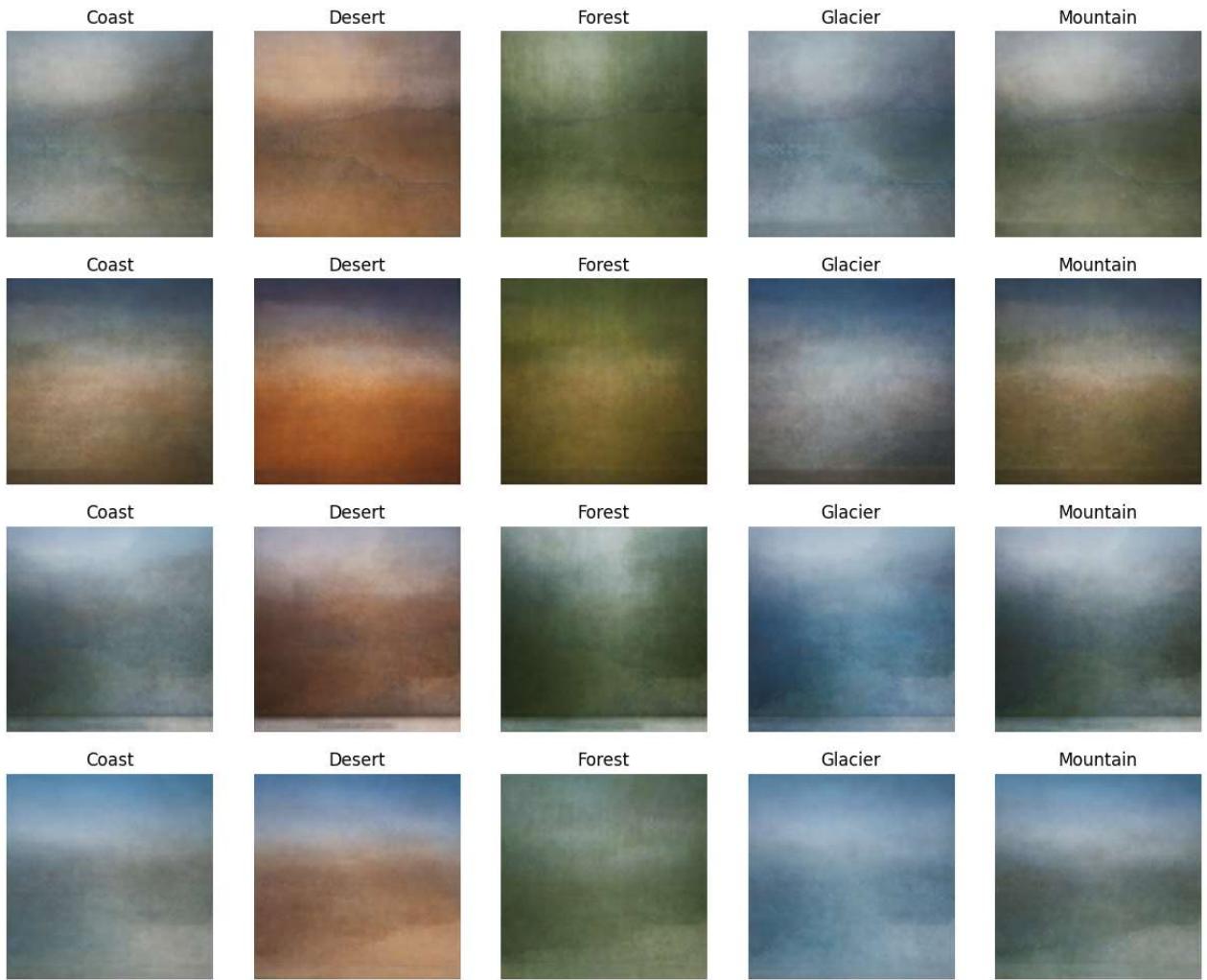
Epoch 77/100

300/300 [=====] - ETA: 0s - loss: 357.1744 - reconstruction_error: 351.4648 - regularization_error: 5.7096

[2023-12-07 14:41:03.159791]: Generating fixed images for epoch 77 ...



[2023-12-07 14:41:03.835987]: Generating random images for epoch 77 ...



300/300 [=====] - 68s 227ms/step - loss: 357.1744 - reconstruction_error: 351.4648 - regularization_error: 5.7096 - val_loss: 375.6902 - val_reconstruction_error: 370.1887 - val_regularization_error: 5.6940

Epoch 78/100

300/300 [=====] - ETA: 0s - loss: 356.4659 - reconstruction_error: 350.7473 - regularization_error: 5.7187

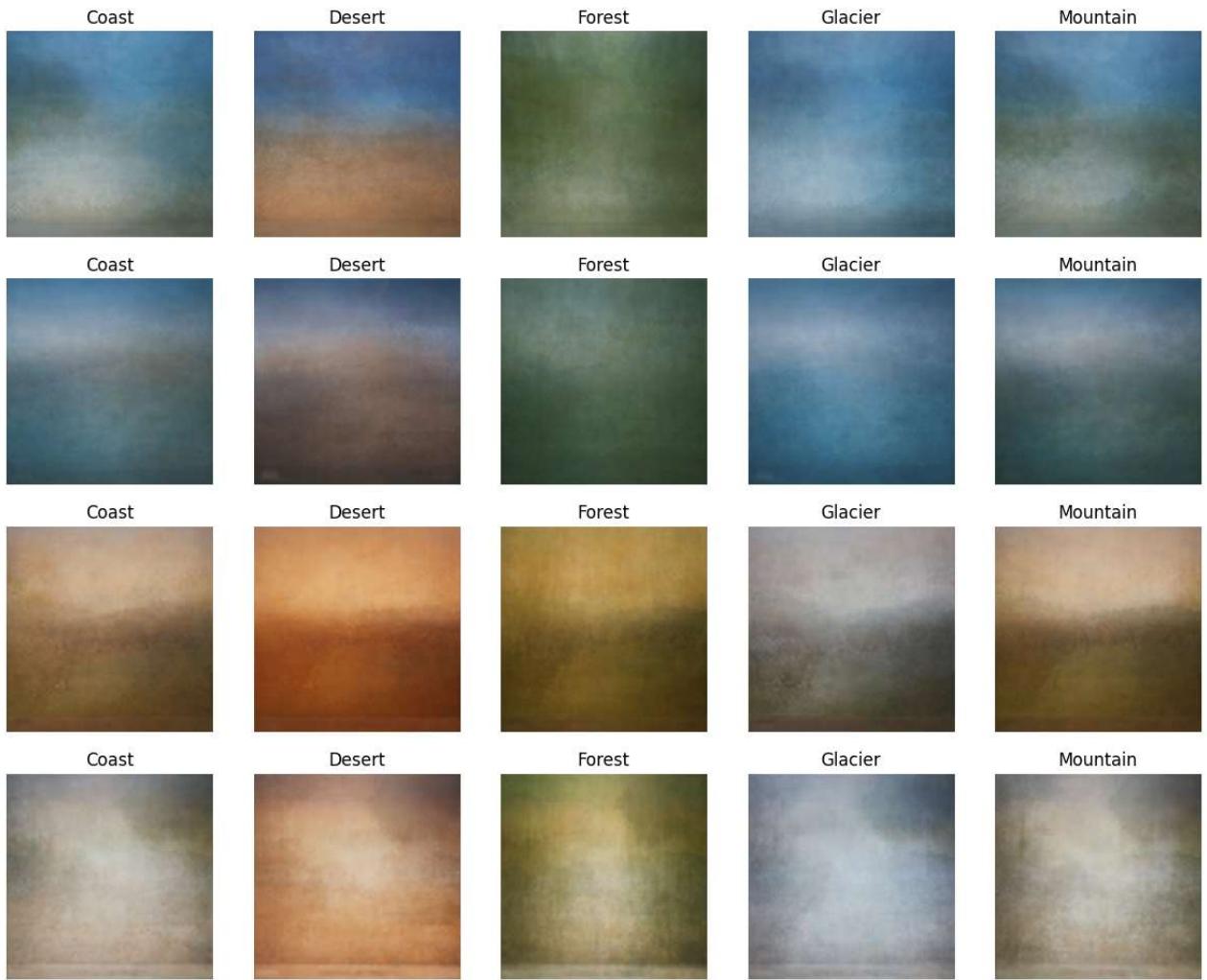
[2023-12-07 14:42:20.293226]: Generating fixed images for epoch 78 ...



[2023-12-07 14:42:20.825491]: Generating random images for epoch 78 ...

08/12/23, 18:39

wide-variant-d10



300/300 [=====] - 77s 256ms/step - loss: 356.4659 - reconstruction_error: 350.7473 - regularization_error: 5.7187 - val_loss: 373.1648 - val_reconstruction_error: 367.8463 - val_regularization_e
rror: 5.6674

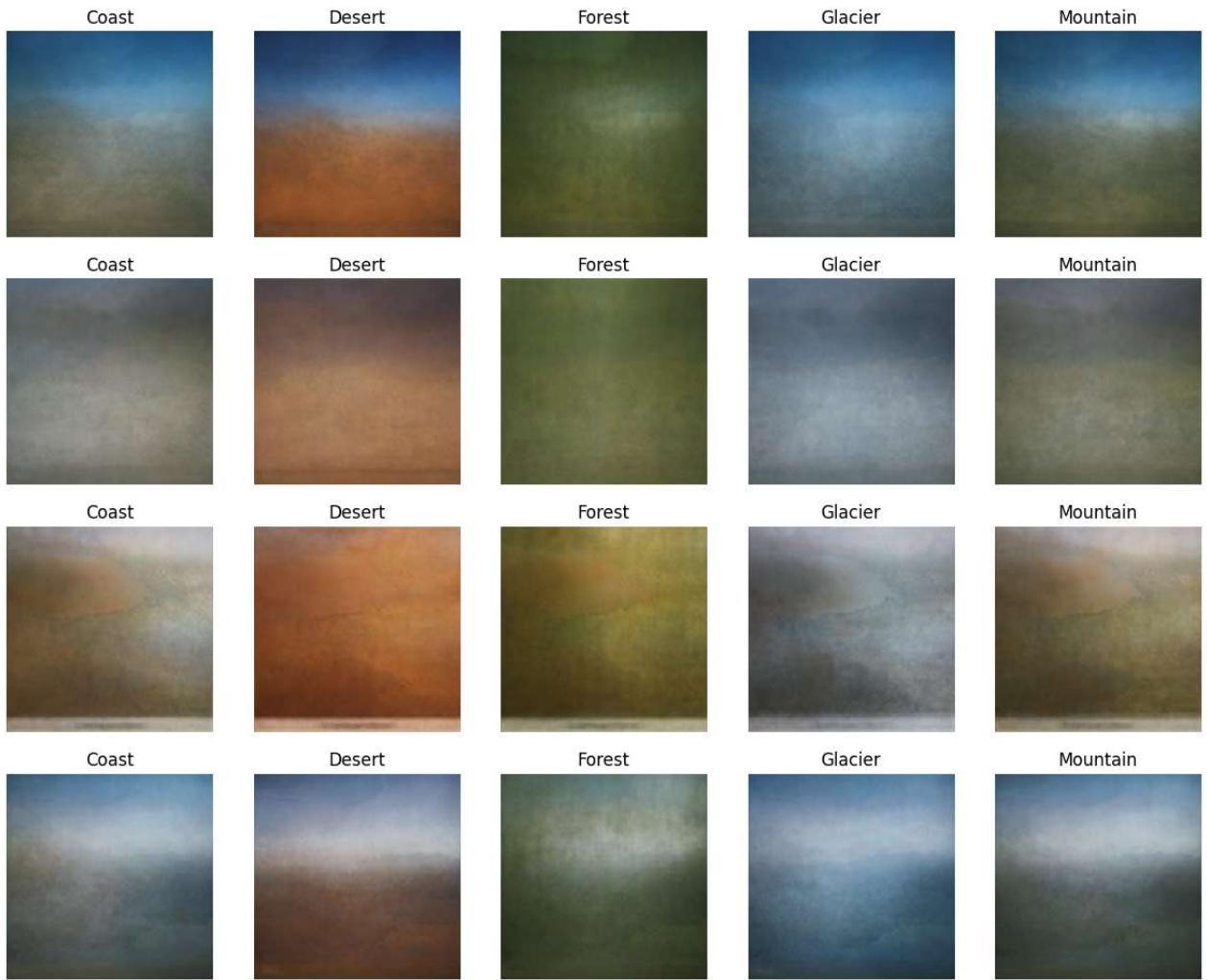
Epoch 79/100

300/300 [=====] - ETA: 0s - loss: 357.6816 - reconstruction_error: 351.9512 - regularization_error: 5.7304

[2023-12-07 14:43:34.367312]: Generating fixed images for epoch 79 ...



[2023-12-07 14:43:35.517967]: Generating random images for epoch 79 ...



300/300 [=====] - 75s 249ms/step - loss: 357.6816 - reconstruction_error: 351.9512 - regularization_error: 5.7304 - val_loss: 376.5747 - val_reconstruction_error: 370.8969 - val_regularization_error: 5.6433

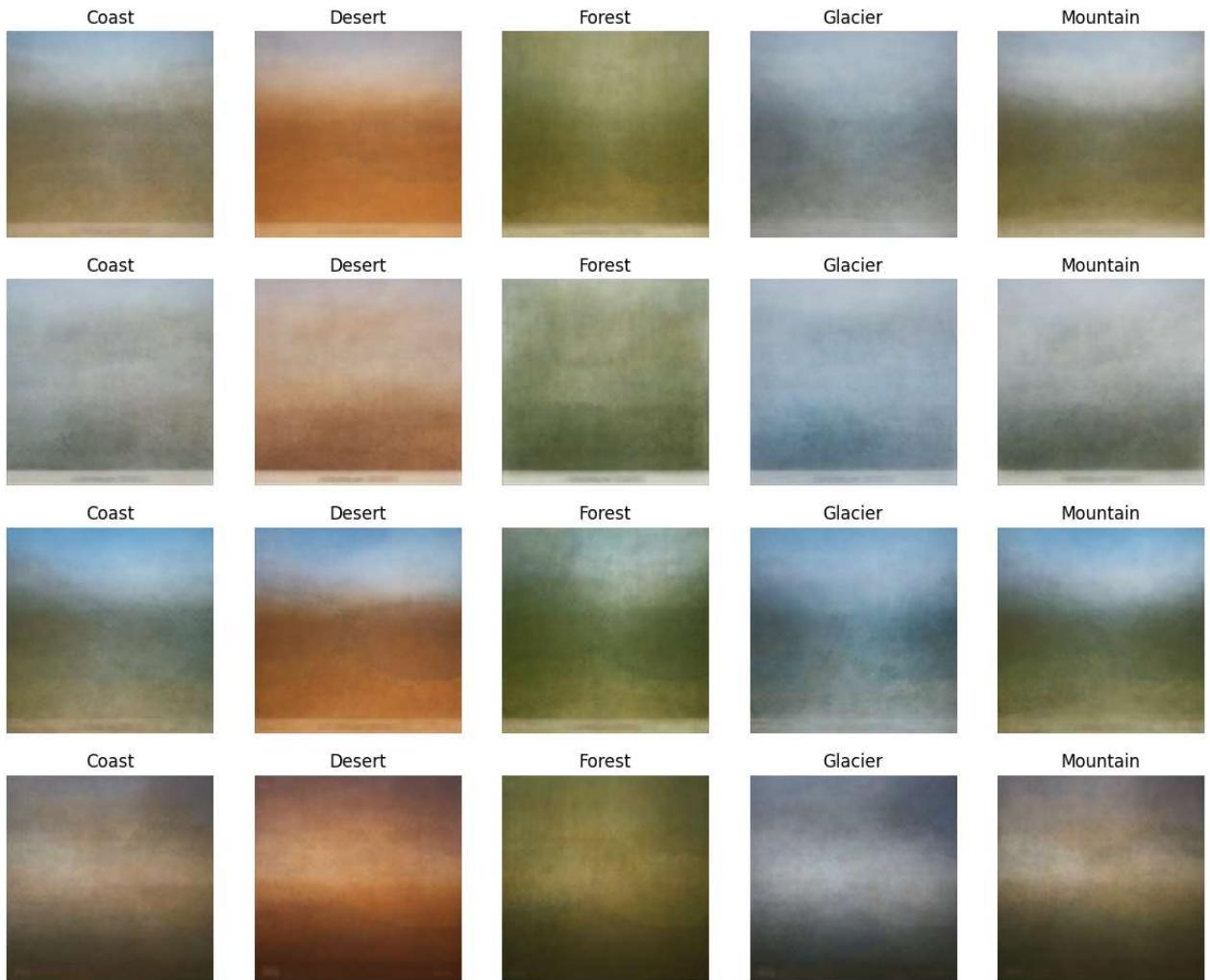
Epoch 80/100

300/300 [=====] - ETA: 0s - loss: 356.5997 - reconstruction_error: 350.8523 - regularization_error: 5.7473

[2023-12-07 14:44:49.043470]: Generating fixed images for epoch 80 ...



[2023-12-07 14:44:49.582943]: Generating random images for epoch 80 ...



300/300 [=====] - 74s 245ms/step - loss: 356.5997 - reconstruction_error: 350.8523 - regularization_error: 5.7473 - val_loss: 375.9475 - val_reconstruction_error: 370.6605 - val_regularization_e
rror: 5.6739

Epoch 81/100

300/300 [=====] - ETA: 0s - loss: 357.0329 - reconstruction_error: 351.2769 - regularization_error: 5.7559

[2023-12-07 14:46:02.745346]: Generating fixed images for epoch 81 ...



[2023-12-07 14:46:03.442682]: Generating random images for epoch 81 ...



300/300 [=====] - 74s 247ms/step - loss: 357.0329 - reconstruction_error: 351.2769 - regularization_error: 5.7559 - val_loss: 376.2224 - val_reconstruction_error: 370.8823 - val_regularization_error: 5.7004

Epoch 82/100

300/300 [=====] - ETA: 0s - loss: 356.7278 - reconstruction_error: 350.9872 - regularization_error: 5.7407

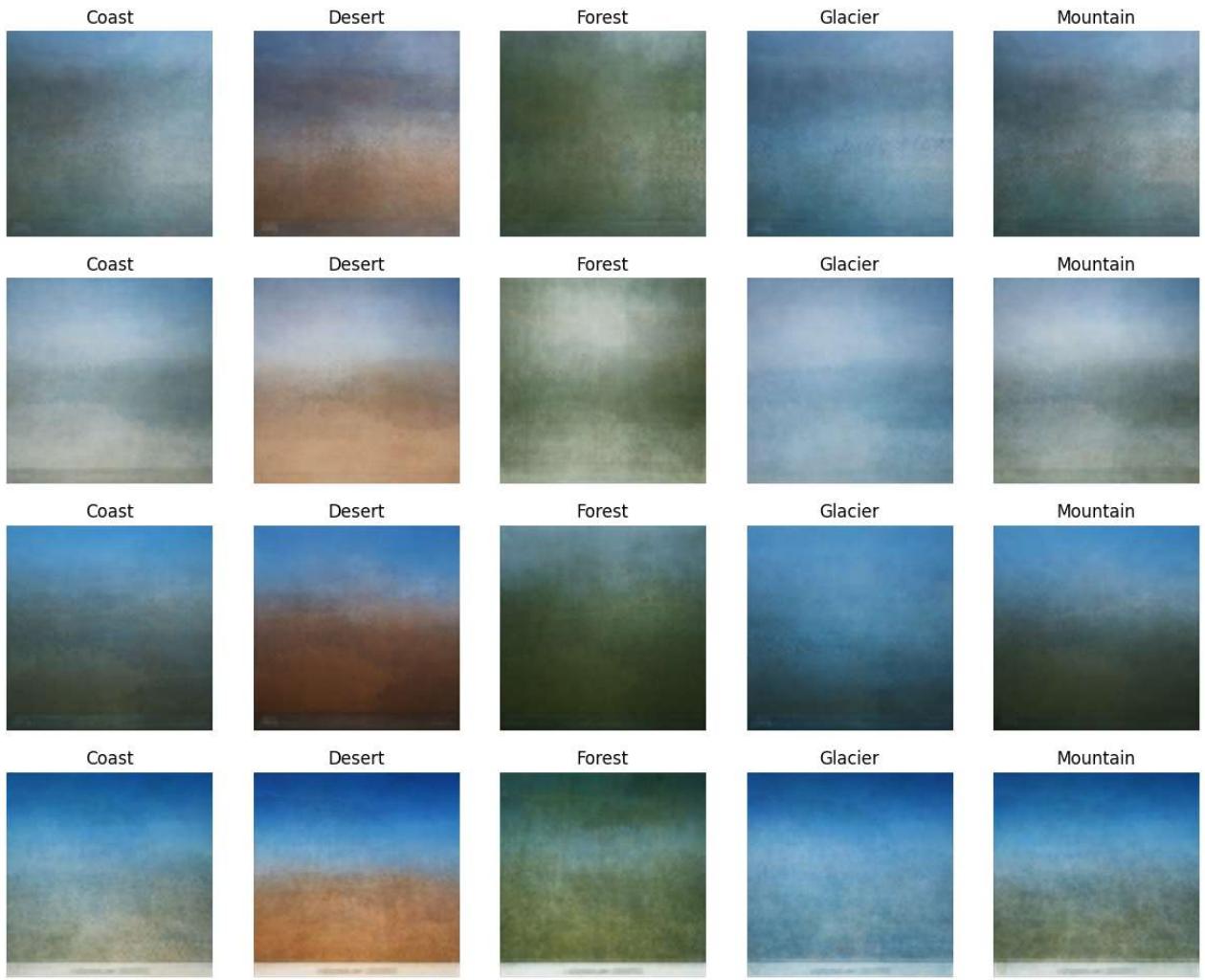
[2023-12-07 14:47:28.983736]: Generating fixed images for epoch 82 ...



[2023-12-07 14:47:29.505677]: Generating random images for epoch 82 ...

08/12/23, 18:39

wide-variant-d10



300/300 [=====] - 78s 259ms/step - loss: 356.7278 - reconstruction_error: 350.9872 - regularization_error: 5.7407 - val_loss: 374.3316 - val_reconstruction_error: 368.5845 - val_regularization_error: 5.6447

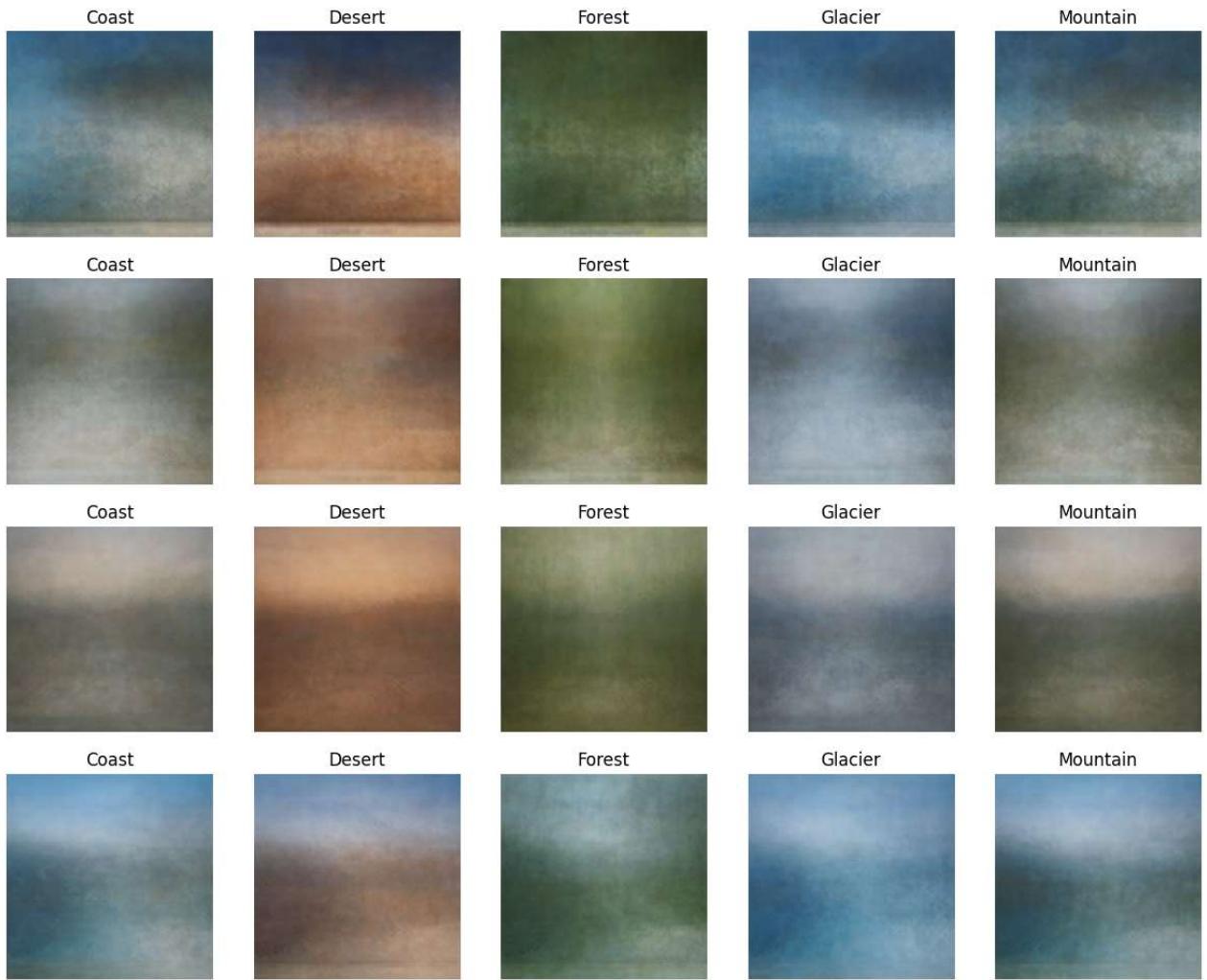
Epoch 83/100

300/300 [=====] - ETA: 0s - loss: 355.5390 - reconstruction_error: 349.7988 - regularization_error: 5.7403

[2023-12-07 14:48:41.133035]: Generating fixed images for epoch 83 ...



[2023-12-07 14:48:41.631076]: Generating random images for epoch 83 ...



300/300 [=====] - 72s 239ms/step - loss: 355.5390 - reconstruction_error: 349.7988 - regularization_error: 5.7403 - val_loss: 371.0205 - val_reconstruction_error: 365.2838 - val_regularization_e
rror: 5.6916

Epoch 84/100

300/300 [=====] - ETA: 0s - loss: 357.0168 - reconstruction_error: 351.2734 - regularization_error: 5.7433

[2023-12-07 14:49:51.746145]: Generating fixed images for epoch 84 ...



[2023-12-07 14:49:52.233205]: Generating random images for epoch 84 ...



300/300 [=====] - 70s 233ms/step - loss: 357.0168 - reconstruction_error: 351.2734 - regularization_error: 5.7433 - val_loss: 375.8898 - val_reconstruction_error: 370.2904 - val_regularization_e
rror: 5.7388

Epoch 85/100

300/300 [=====] - ETA: 0s - loss: 357.1329 - reconstruction_error: 351.3673 - regularization_error: 5.7657

[2023-12-07 14:50:55.445537]: Generating fixed images for epoch 85 ...



[2023-12-07 14:50:56.495307]: Generating random images for epoch 85 ...



300/300 [=====] - 65s 215ms/step - loss: 357.1329 - reconstruction_error: 351.3673 - regularization_error: 5.7657 - val_loss: 374.0240 - val_reconstruction_error: 368.2611 - val_regularization_error: 5.6646

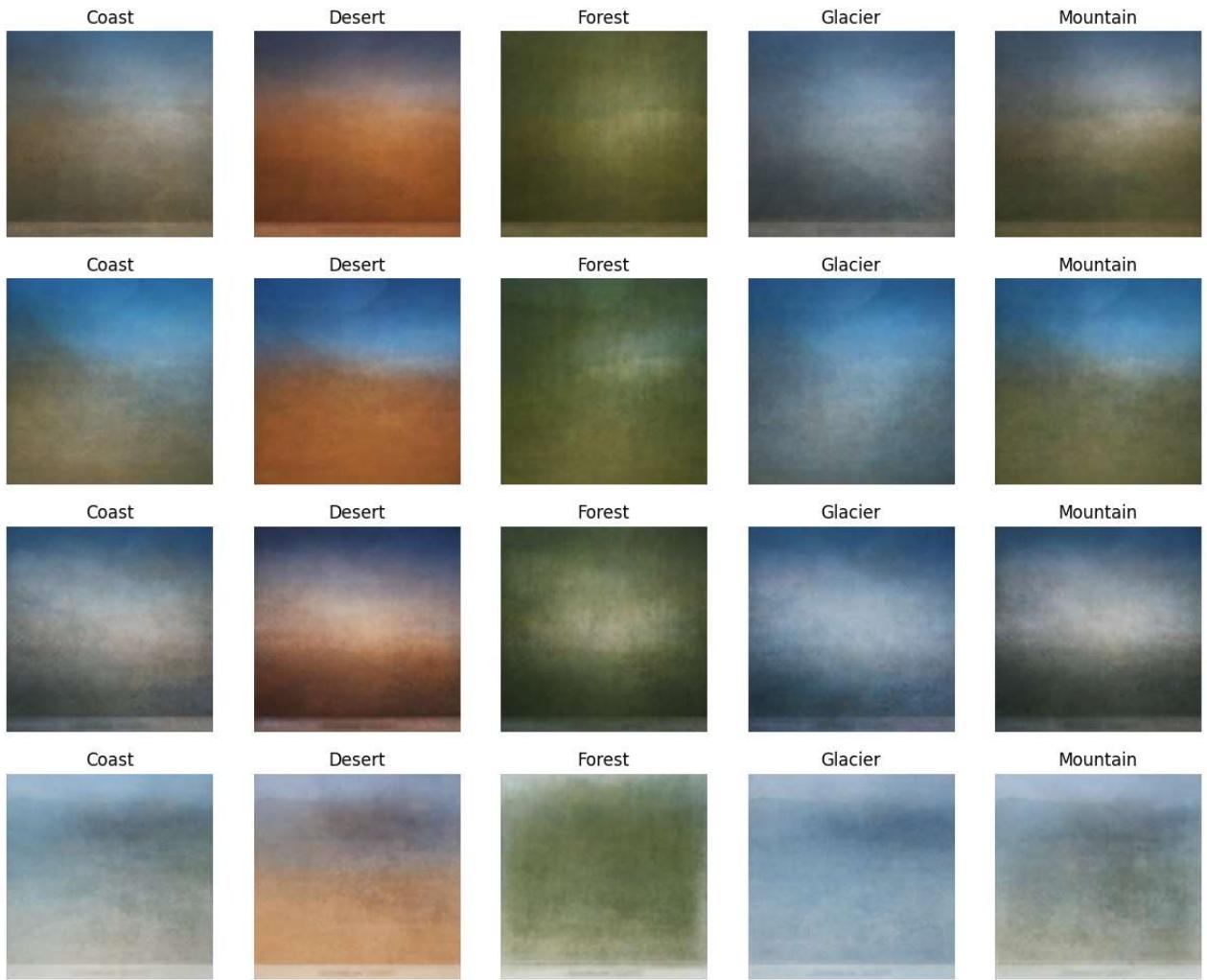
Epoch 86/100

300/300 [=====] - ETA: 0s - loss: 356.1525 - reconstruction_error: 350.3723 - regularization_error: 5.7802

[2023-12-07 14:52:34.126776]: Generating fixed images for epoch 86 ...



[2023-12-07 14:52:34.634504]: Generating random images for epoch 86 ...



300/300 [=====] - 81s 268ms/step - loss: 356.1525 - reconstruction_error: 350.3723 - regularization_error: 5.7802 - val_loss: 374.7364 - val_reconstruction_error: 368.9538 - val_regularization_e
rror: 5.7229

Epoch 87/100

300/300 [=====] - ETA: 0s - loss: 355.7885 - reconstruction_error: 350.0204 - regularization_error: 5.7680

[2023-12-07 14:53:56.506402]: Generating fixed images for epoch 87 ...



[2023-12-07 14:53:56.991322]: Generating random images for epoch 87 ...

08/12/23, 18:39

wide-variant-d10



300/300 [=====] - 83s 277ms/step - loss: 355.7885 - reconstruction_error: 350.0204 - regularization_error: 5.7680 - val_loss: 373.3757 - val_reconstruction_error: 367.7910 - val_regularization_error: 5.6508

Epoch 88/100

300/300 [=====] - ETA: 0s - loss: 355.0692 - reconstruction_error: 349.2915 - regularization_error: 5.7777

[2023-12-07 14:55:06.086830]: Generating fixed images for epoch 88 ...



[2023-12-07 14:55:06.605561]: Generating random images for epoch 88 ...



300/300 [=====] - 68s 227ms/step - loss: 355.0692 - reconstruction_error: 349.2915 - regularization_error: 5.7777 - val_loss: 373.6373 - val_reconstruction_error: 367.7707 - val_regularization_e
rror: 5.6786

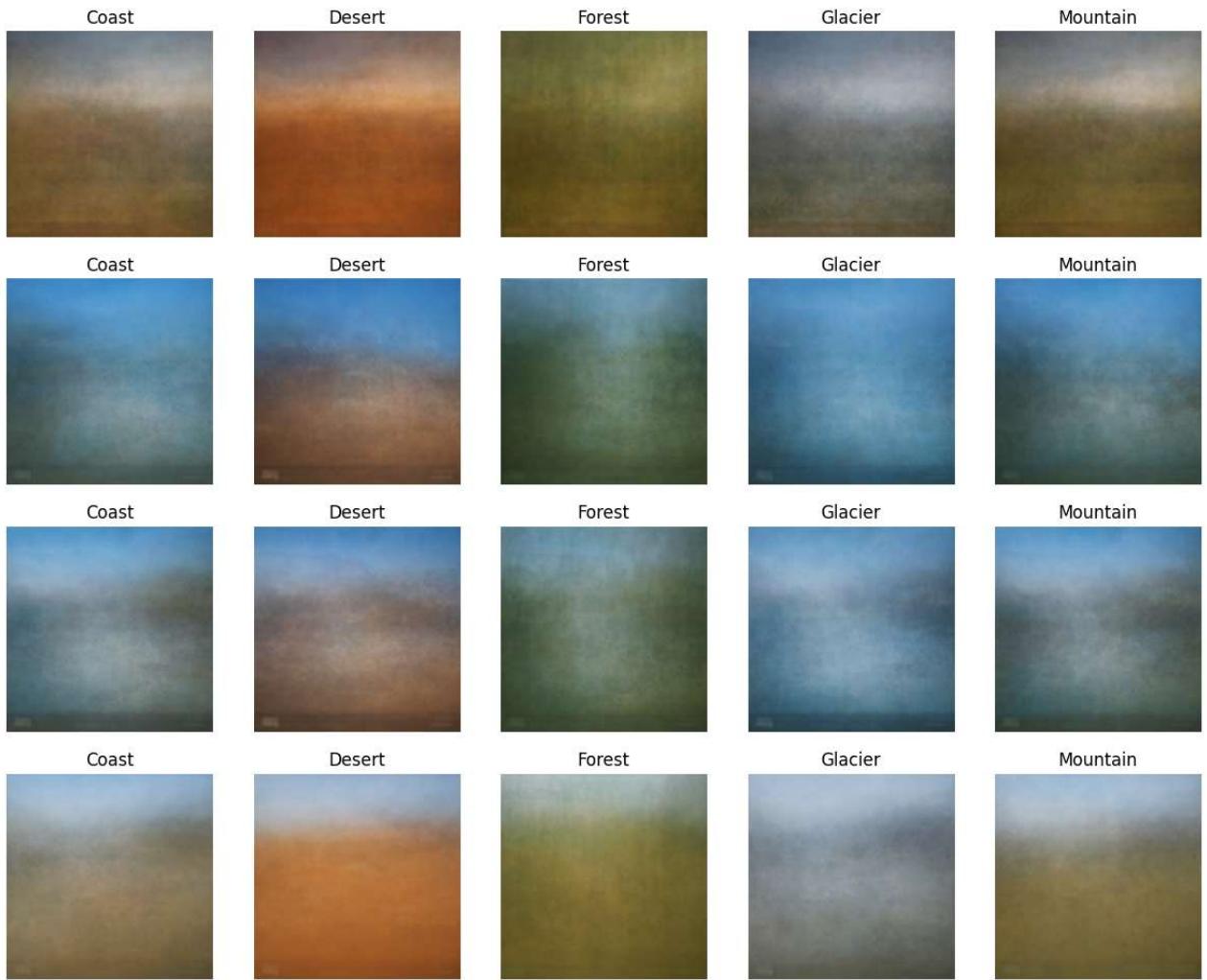
Epoch 89/100

300/300 [=====] - ETA: 0s - loss: 355.0404 - reconstruction_error: 349.2561 - regularization_error: 5.7841

[2023-12-07 14:56:14.369287]: Generating fixed images for epoch 89 ...



[2023-12-07 14:56:14.905657]: Generating random images for epoch 89 ...



300/300 [=====] - 68s 227ms/step - loss: 355.0404 - reconstruction_error: 349.2561 - regularization_error: 5.7841 - val_loss: 373.9559 - val_reconstruction_error: 368.1965 - val_regularization_e
rror: 5.7060

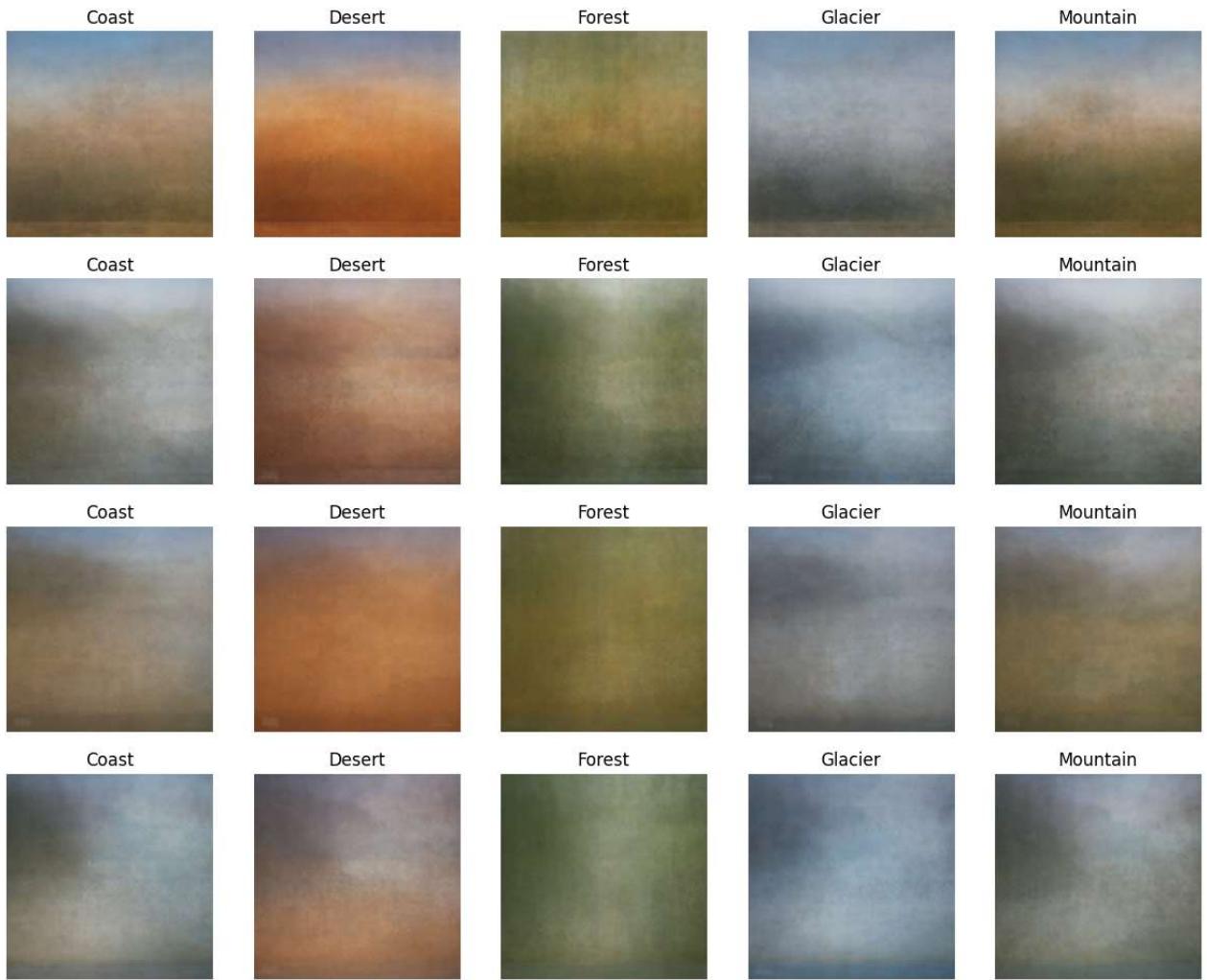
Epoch 90/100

300/300 [=====] - ETA: 0s - loss: 354.8212 - reconstruction_error: 349.0312 - regularization_error: 5.7900

[2023-12-07 14:57:25.342679]: Generating fixed images for epoch 90 ...



[2023-12-07 14:57:26.491943]: Generating random images for epoch 90 ...



300/300 [=====] - 73s 242ms/step - loss: 354.8212 - reconstruction_error: 349.0312 - regularization_error: 5.7900 - val_loss: 376.8650 - val_reconstruction_error: 371.4848 - val_regularization_error: 5.7076

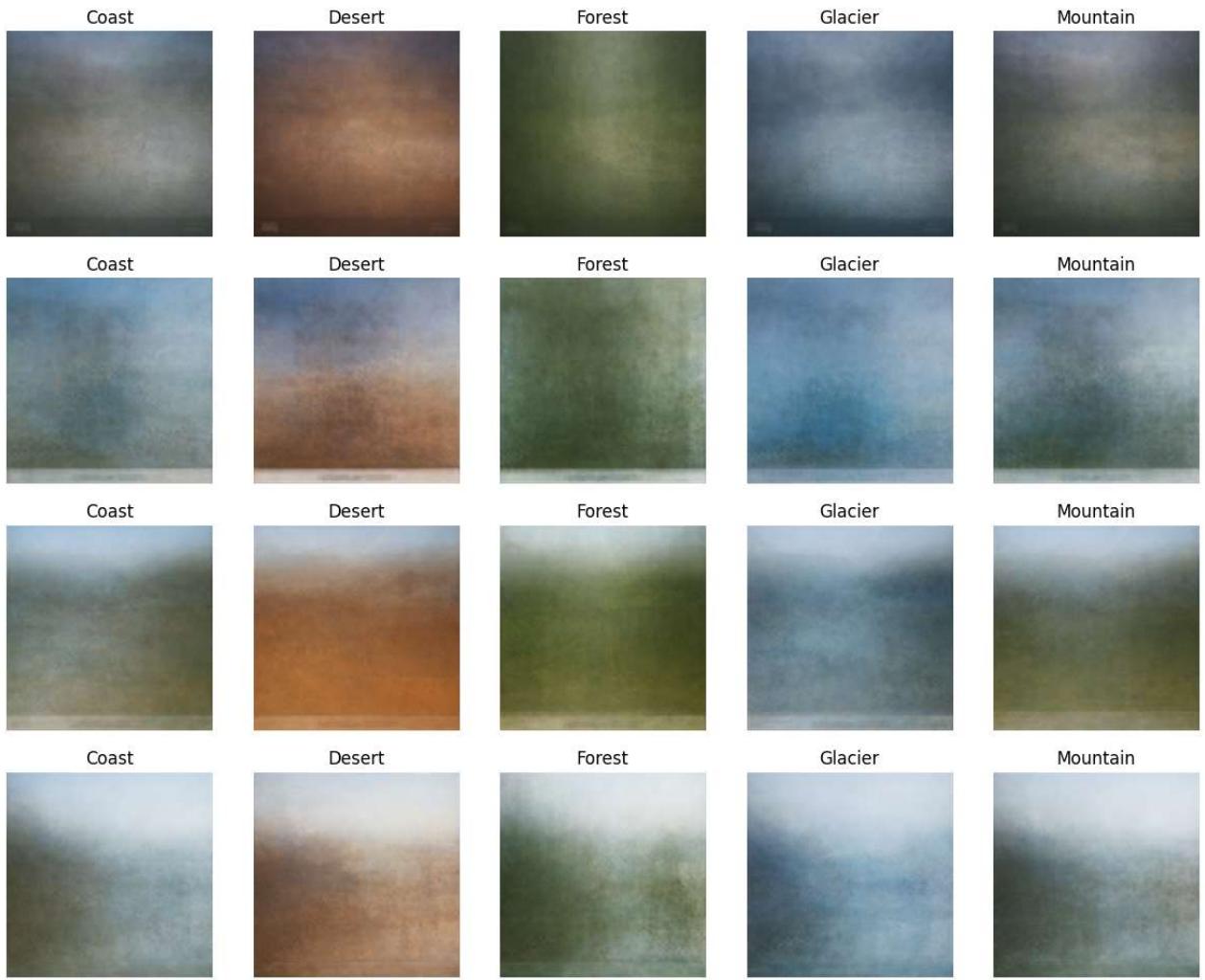
Epoch 91/100

300/300 [=====] - ETA: 0s - loss: 354.8719 - reconstruction_error: 349.0766 - regularization_error: 5.7953

[2023-12-07 14:58:40.924202]: Generating fixed images for epoch 91 ...



[2023-12-07 14:58:41.463438]: Generating random images for epoch 91 ...



300/300 [=====] - 73s 244ms/step - loss: 354.8719 - reconstruction_error: 349.0766 - regularization_error: 5.7953 - val_loss: 375.0341 - val_reconstruction_error: 369.3502 - val_regularization_error: 5.7017

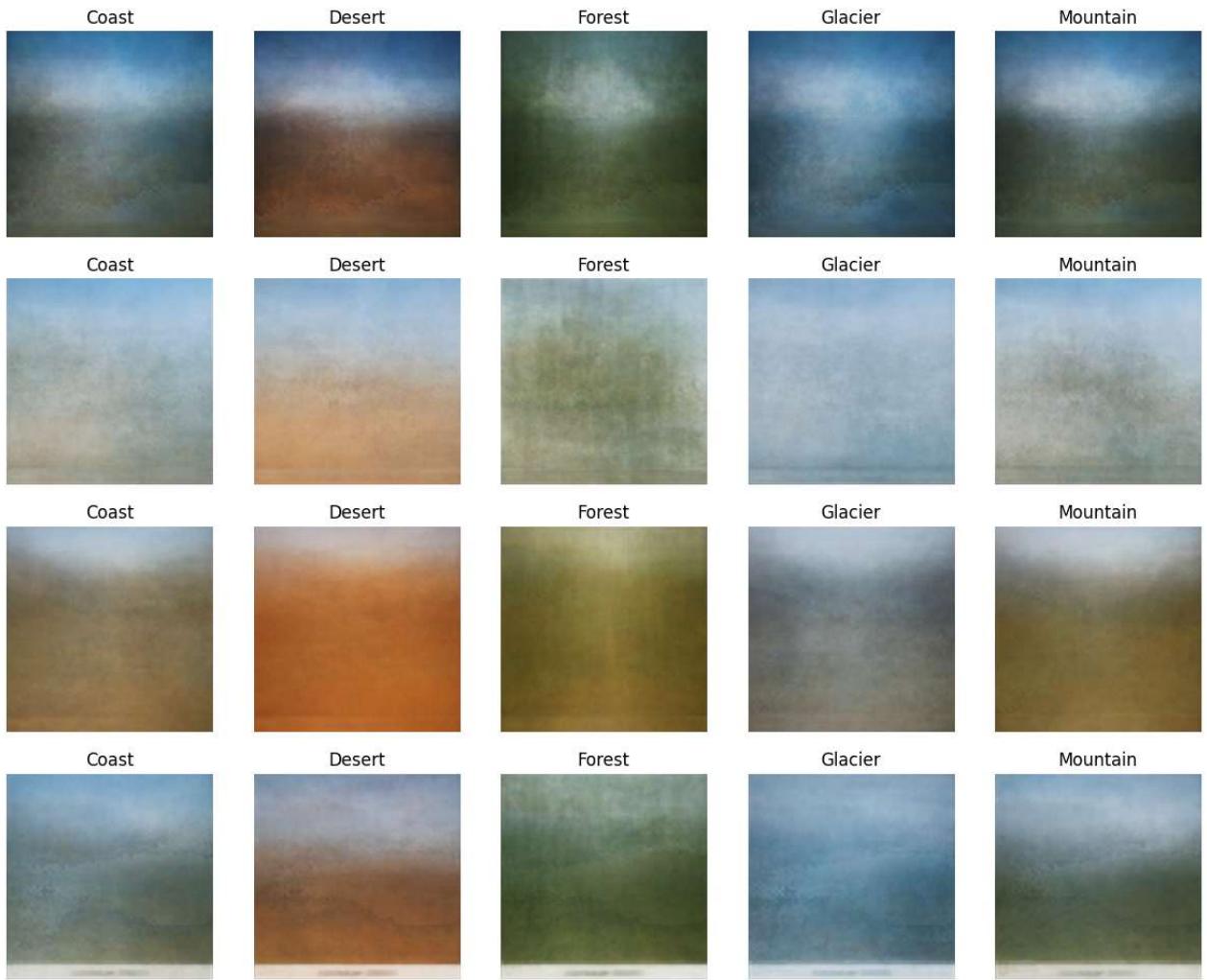
Epoch 92/100

300/300 [=====] - ETA: 0s - loss: 355.5377 - reconstruction_error: 349.7386 - regularization_error: 5.7989

[2023-12-07 14:59:50.921356]: Generating fixed images for epoch 92 ...



[2023-12-07 14:59:51.398849]: Generating random images for epoch 92 ...



300/300 [=====] - 70s 234ms/step - loss: 355.5377 - reconstruction_error: 349.7386 - regularization_error: 5.7989 - val_loss: 372.4294 - val_reconstruction_error: 366.7456 - val_regularization_error: 5.7138

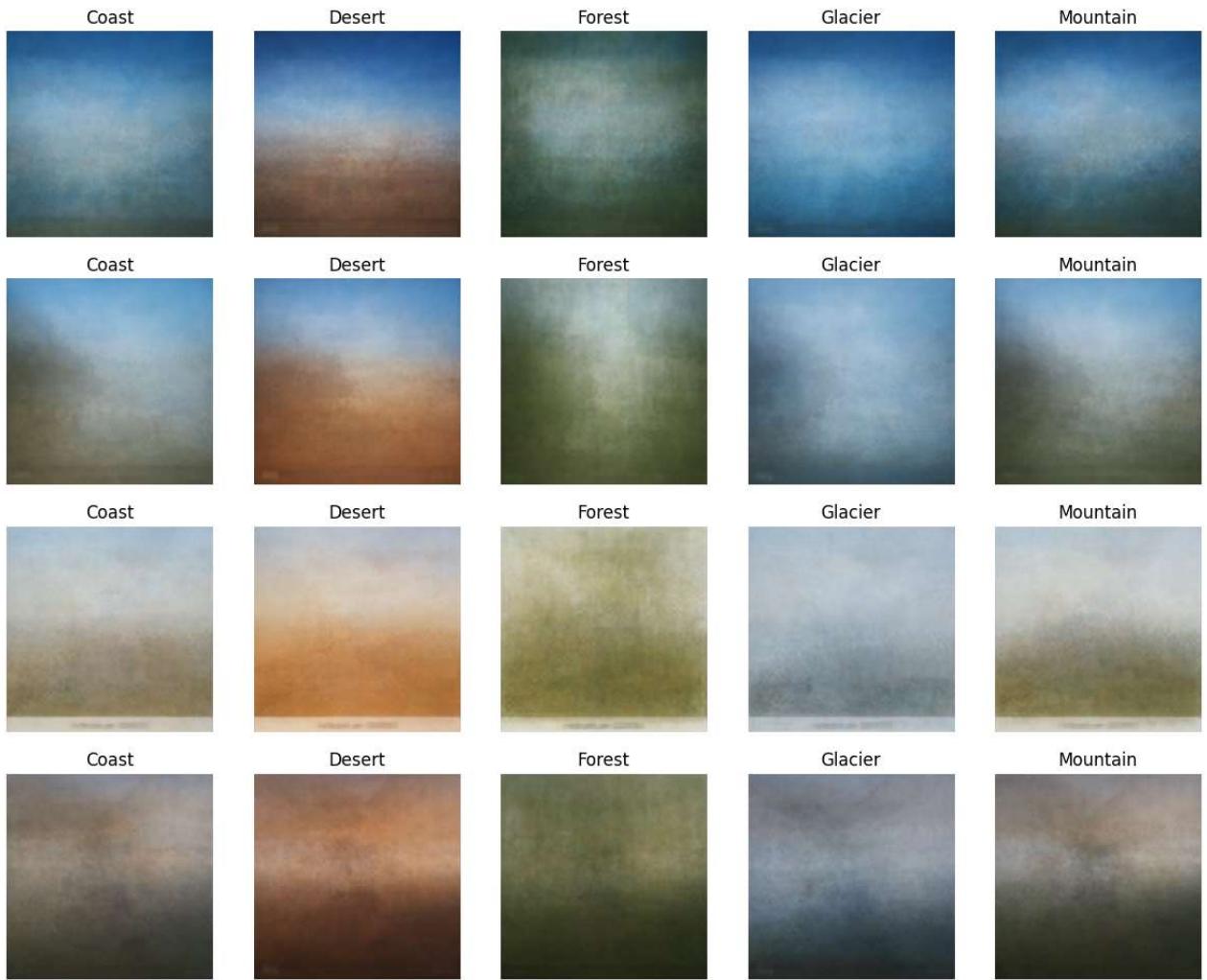
Epoch 93/100

300/300 [=====] - ETA: 0s - loss: 355.0336 - reconstruction_error: 349.2227 - regularization_error: 5.8107

[2023-12-07 15:00:59.091344]: Generating fixed images for epoch 93 ...



[2023-12-07 15:00:59.693398]: Generating random images for epoch 93 ...



300/300 [=====] - 68s 226ms/step - loss: 355.0336 - reconstruction_error: 349.2227 - regularization_error: 5.8107 - val_loss: 378.6164 - val_reconstruction_error: 373.0142 - val_regularization_error: 5.6985

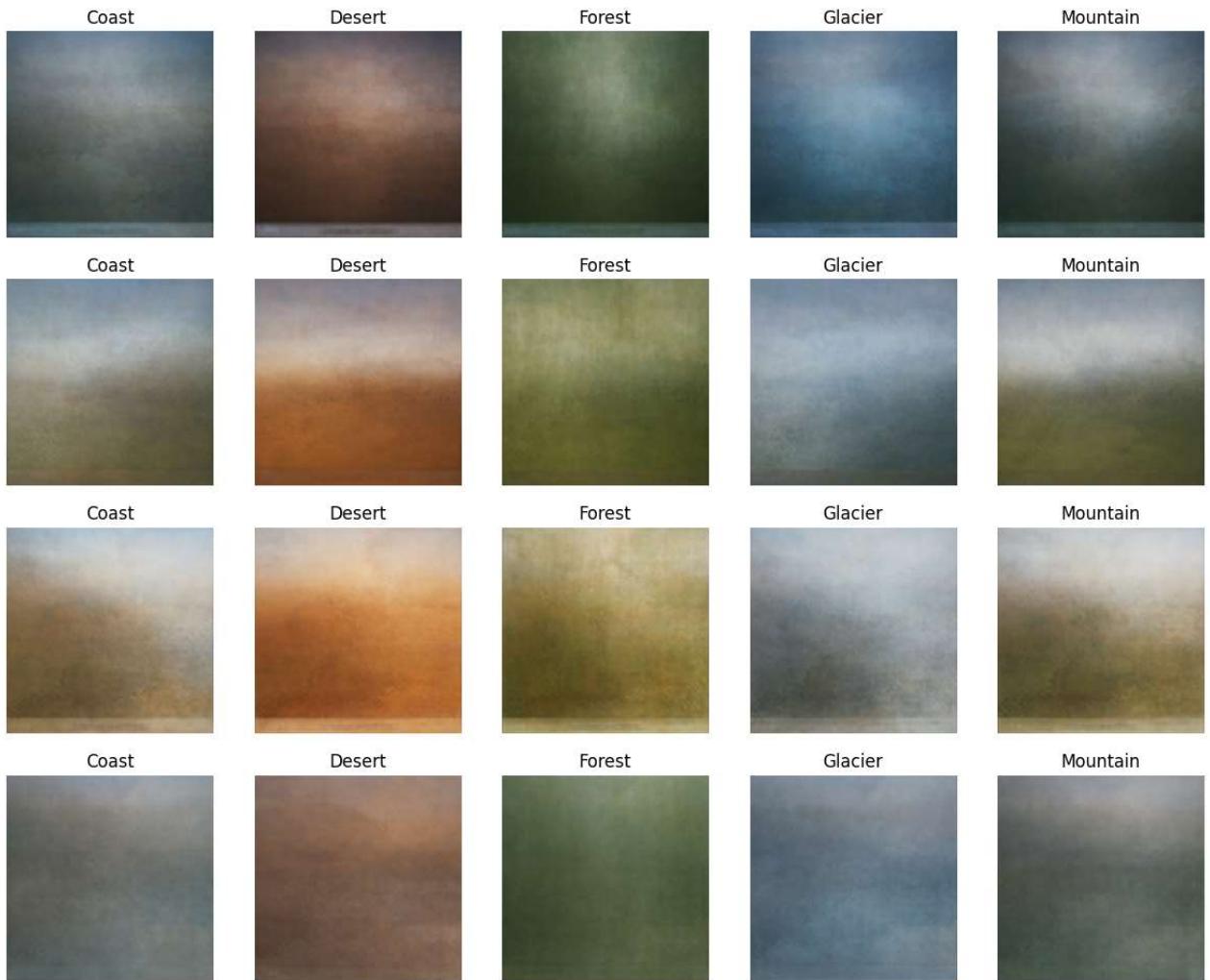
Epoch 94/100

300/300 [=====] - ETA: 0s - loss: 354.3437 - reconstruction_error: 348.5321 - regularization_error: 5.8116

[2023-12-07 15:02:08.943431]: Generating fixed images for epoch 94 ...



[2023-12-07 15:02:09.471011]: Generating random images for epoch 94 ...



300/300 [=====] - 70s 232ms/step - loss: 354.3437 - reconstruction_error: 348.5321 - regularization_error: 5.8116 - val_loss: 377.3340 - val_reconstruction_error: 371.6682 - val_regularization_error: 5.6841

Epoch 95/100

300/300 [=====] - ETA: 0s - loss: 354.8095 - reconstruction_error: 349.0092 - regularization_error: 5.8004

[2023-12-07 15:03:15.360485]: Generating fixed images for epoch 95 ...



[2023-12-07 15:03:16.542745]: Generating random images for epoch 95 ...



300/300 [=====] - 68s 225ms/step - loss: 354.8095 - reconstruction_error: 349.0092 - regularization_error: 5.8004 - val_loss: 373.4617 - val_reconstruction_error: 367.7094 - val_regularization_error: 5.6951

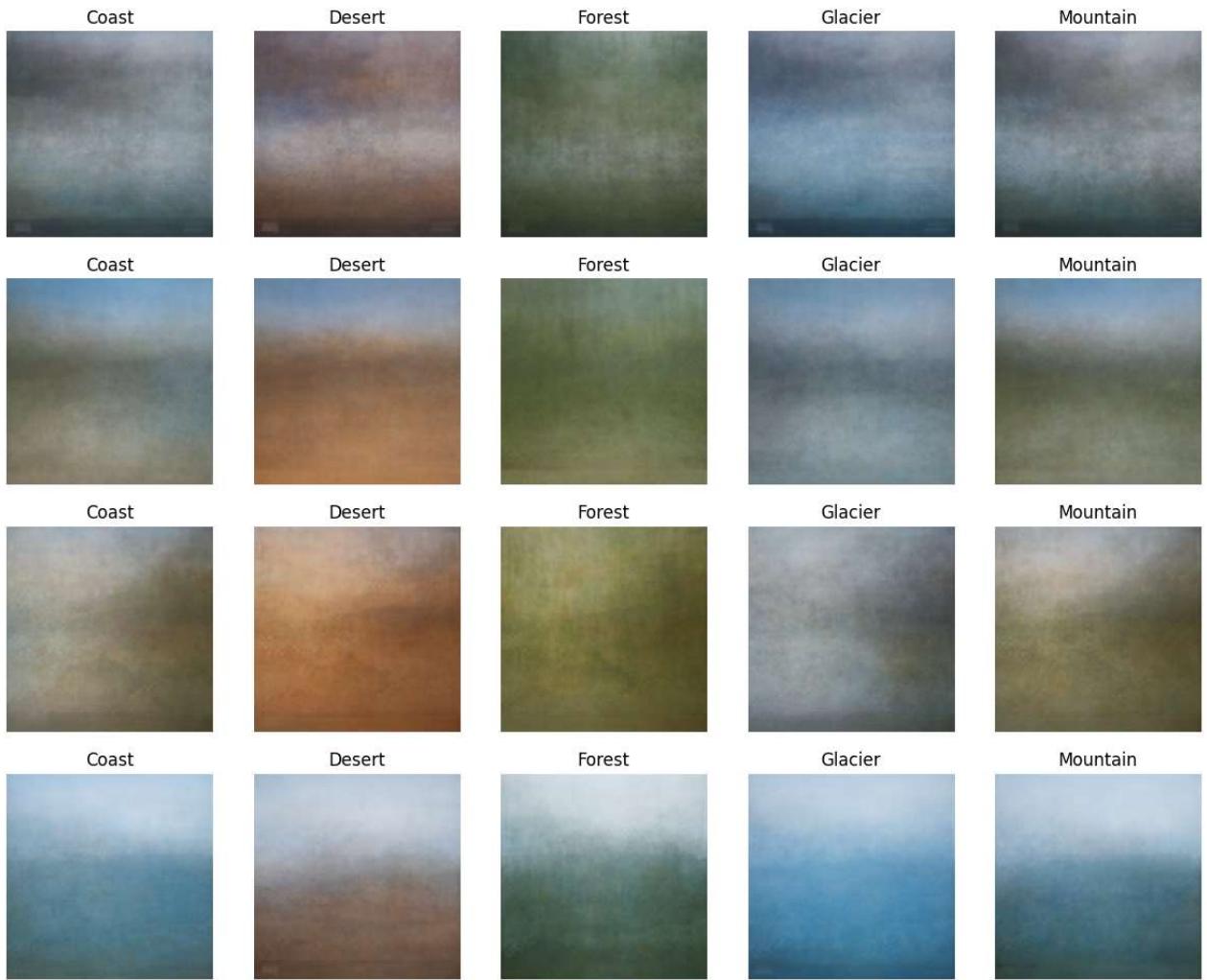
Epoch 96/100

300/300 [=====] - ETA: 0s - loss: 354.5087 - reconstruction_error: 348.6875 - regularization_error: 5.8211

[2023-12-07 15:04:24.306279]: Generating fixed images for epoch 96 ...



[2023-12-07 15:04:25.421356]: Generating random images for epoch 96 ...



300/300 [=====] - 69s 228ms/step - loss: 354.5087 - reconstruction_error: 348.6875 - regularization_error: 5.8211 - val_loss: 372.1888 - val_reconstruction_error: 366.7302 - val_regularization_error: 5.7344

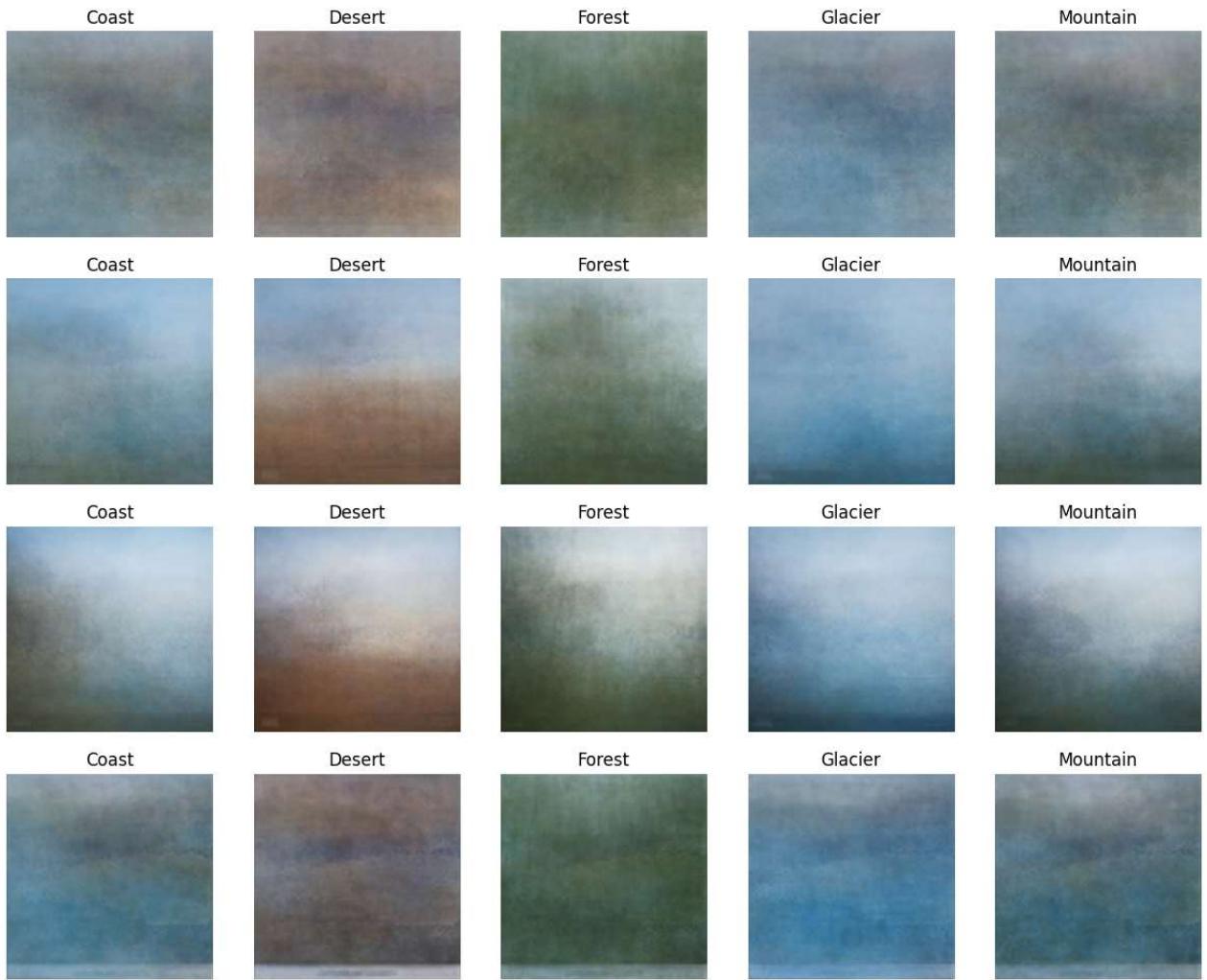
Epoch 97/100

300/300 [=====] - ETA: 0s - loss: 353.8372 - reconstruction_error: 348.0318 - regularization_error: 5.8055

[2023-12-07 15:05:38.174105]: Generating fixed images for epoch 97 ...



[2023-12-07 15:05:39.476787]: Generating random images for epoch 97 ...



300/300 [=====] - 73s 242ms/step - loss: 353.8372 - reconstruction_error: 348.0318 - regularization_error: 5.8055 - val_loss: 377.6212 - val_reconstruction_error: 371.7777 - val_regularization_error: 5.7429

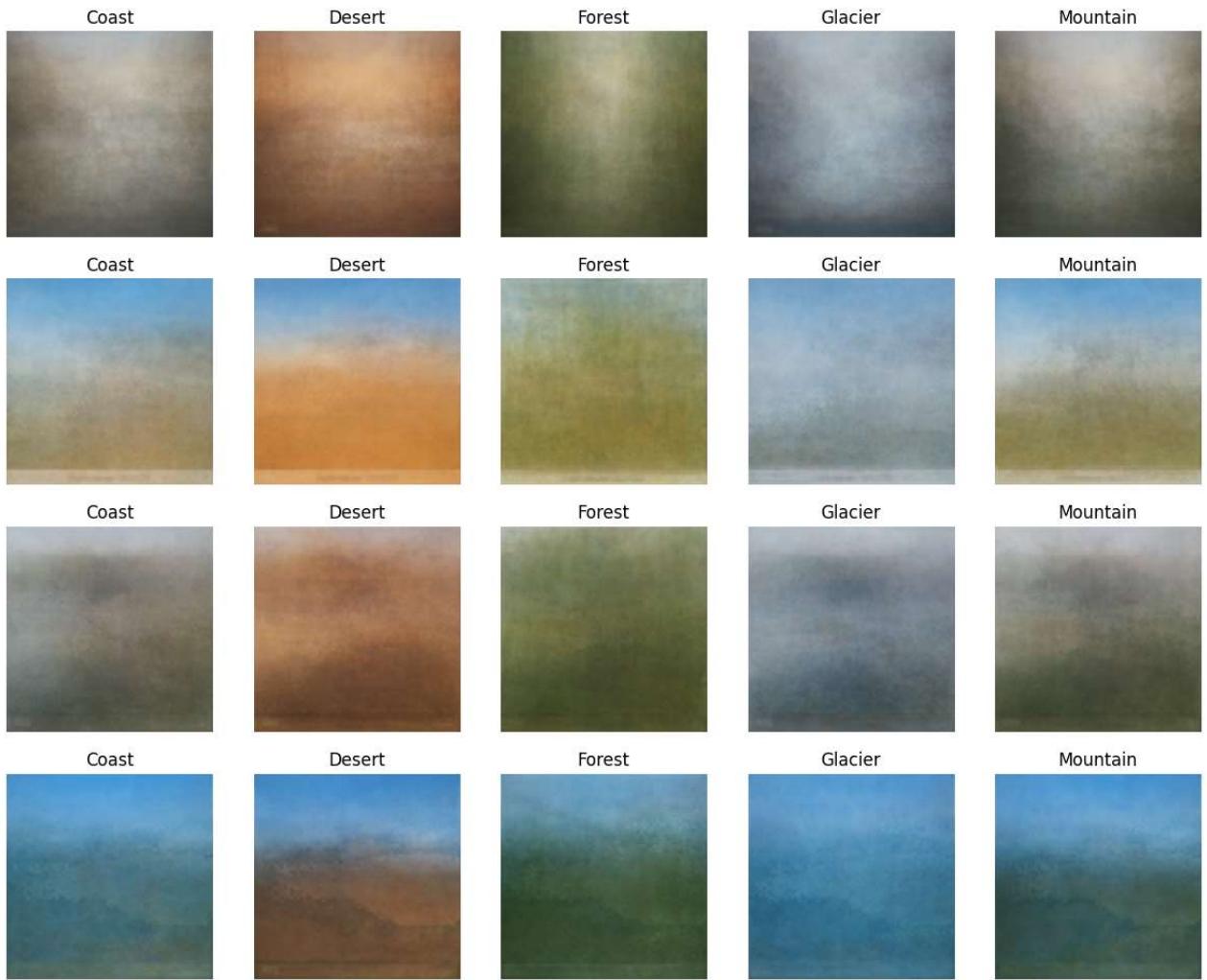
Epoch 98/100

300/300 [=====] - ETA: 0s - loss: 353.6325 - reconstruction_error: 347.8103 - regularization_error: 5.8222

[2023-12-07 15:06:56.568351]: Generating fixed images for epoch 98 ...



[2023-12-07 15:06:57.070568]: Generating random images for epoch 98 ...



300/300 [=====] - 77s 257ms/step - loss: 353.6325 - reconstruction_error: 347.8103 - regularization_error: 5.8222 - val_loss: 375.2033 - val_reconstruction_error: 369.6197 - val_regularization_e
rror: 5.7498

Epoch 99/100

300/300 [=====] - ETA: 0s - loss: 354.7822 - reconstruction_error: 348.9555 - regularization_error: 5.8267

[2023-12-07 15:08:04.342705]: Generating fixed images for epoch 99 ...



[2023-12-07 15:08:05.556207]: Generating random images for epoch 99 ...

08/12/23, 18:39

wide-variant-d10



300/300 [=====] - 68s 227ms/step - loss: 354.7822 - reconstruction_error: 348.9555 - regularization_error: 5.8267 - val_loss: 373.4290 - val_reconstruction_error: 367.6273 - val_regularization_error: 5.7230

Epoch 100/100

300/300 [=====] - ETA: 0s - loss: 355.3274 - reconstruction_error: 349.4976 - regularization_error: 5.8298

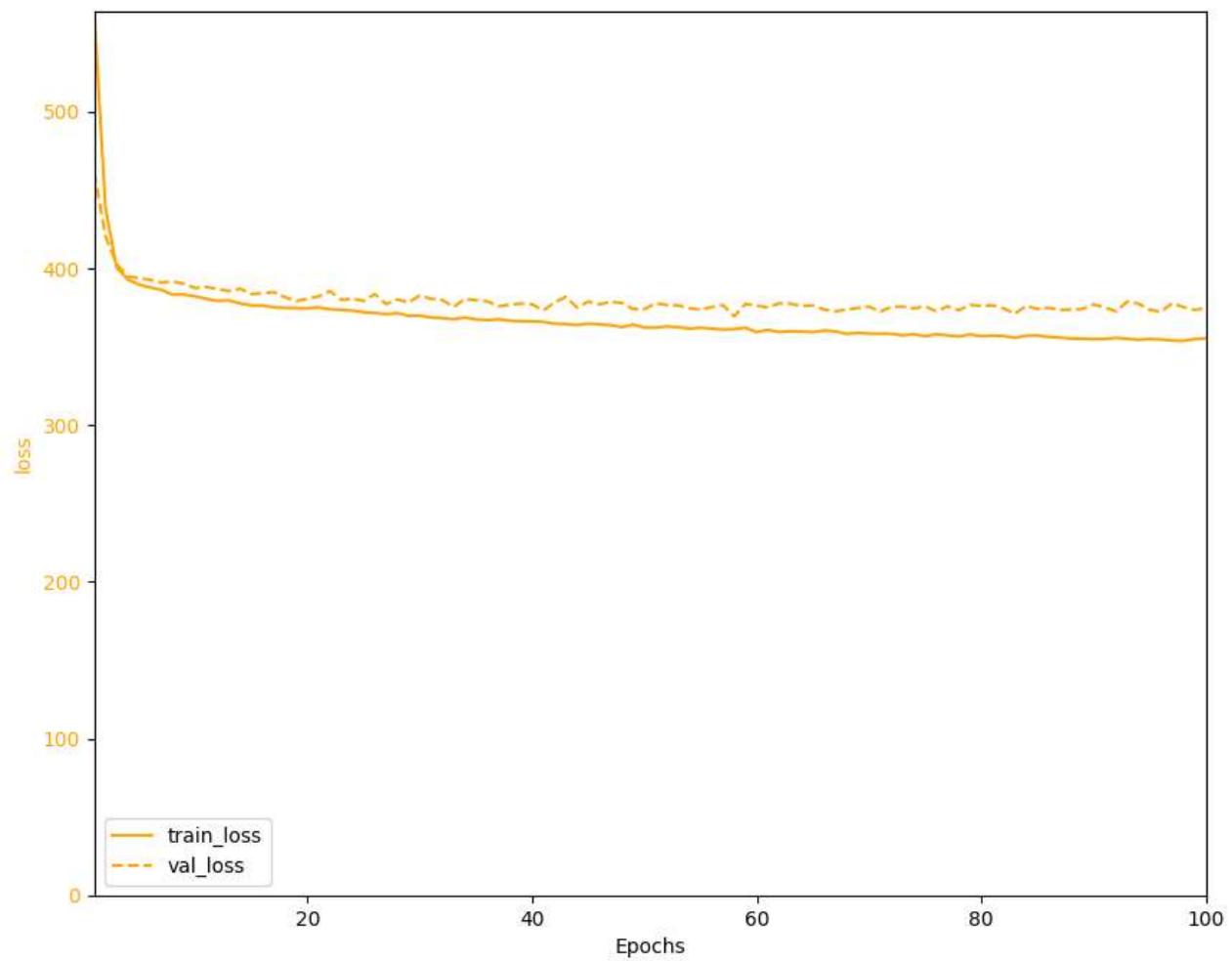
[2023-12-07 15:09:12.306237]: Generating fixed images for epoch 100 ...



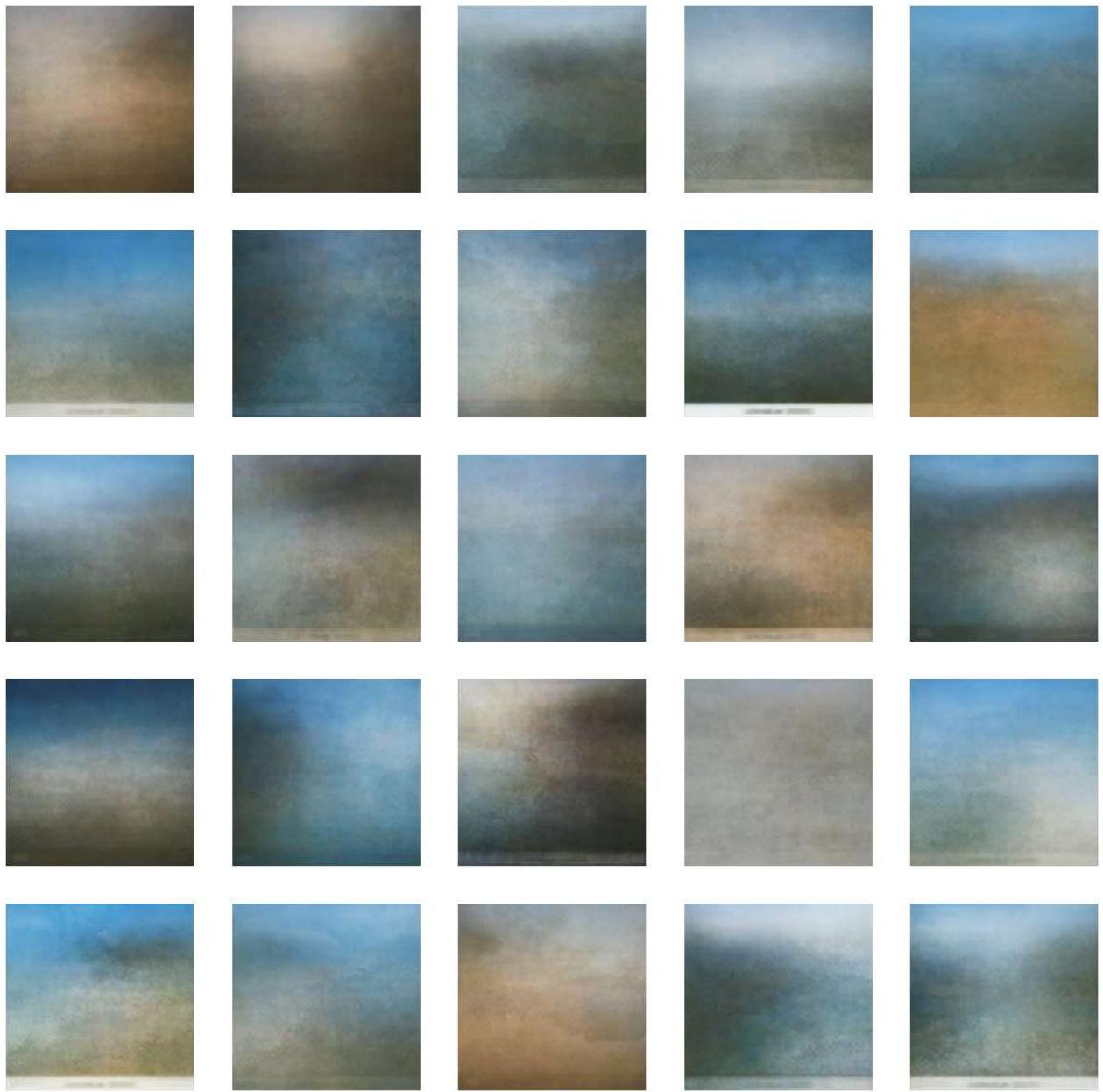
[2023-12-07 15:09:13.527730]: Generating random images for epoch 100 ...



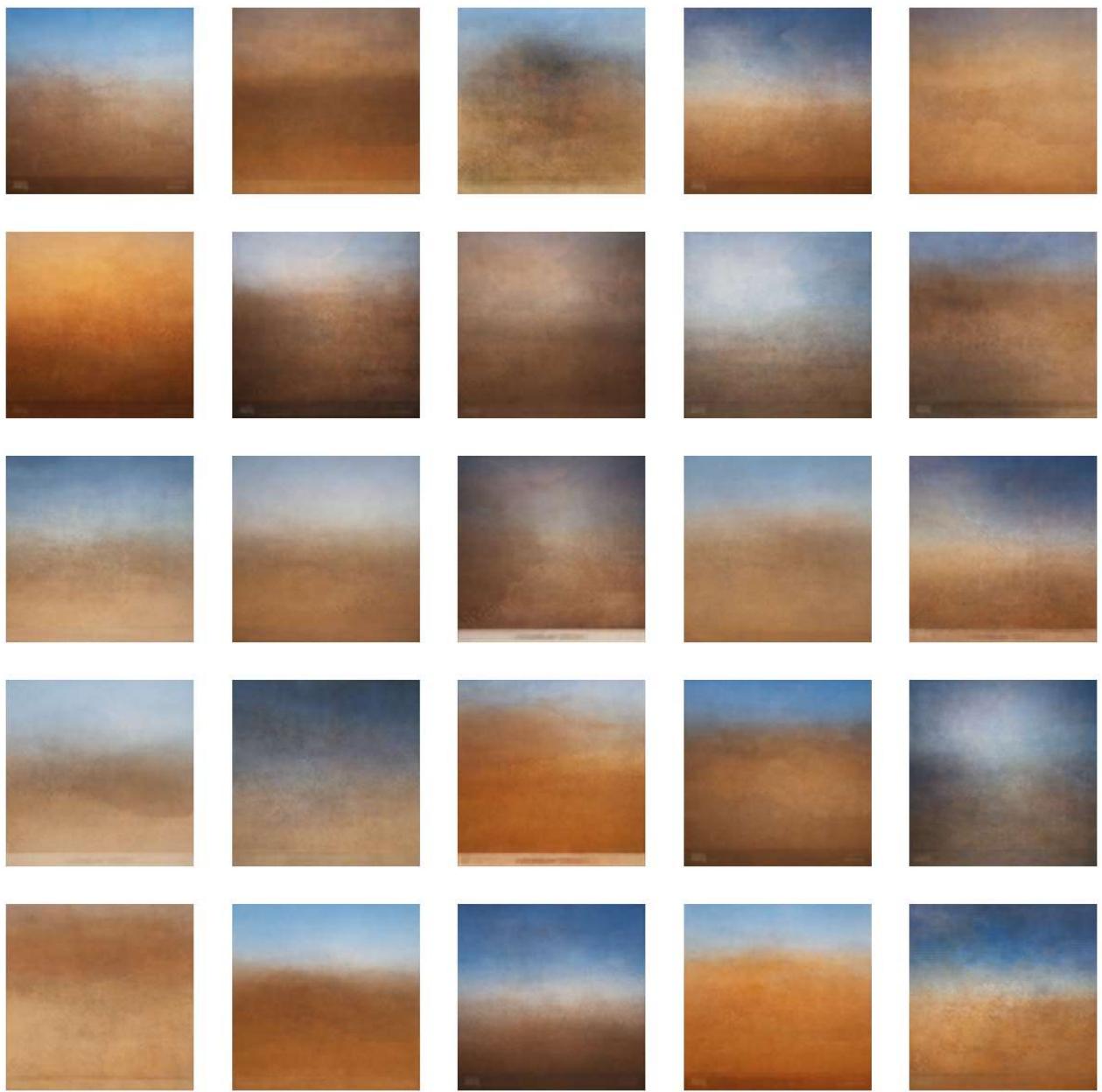
300/300 [=====] - 68s 226ms/step - loss: 355.3274 - reconstruction_error: 349.4976 - regularization_error: 5.8298 - val_loss: 374.4232 - val_reconstruction_error: 368.6745 - val_regularization_error: 5.7124

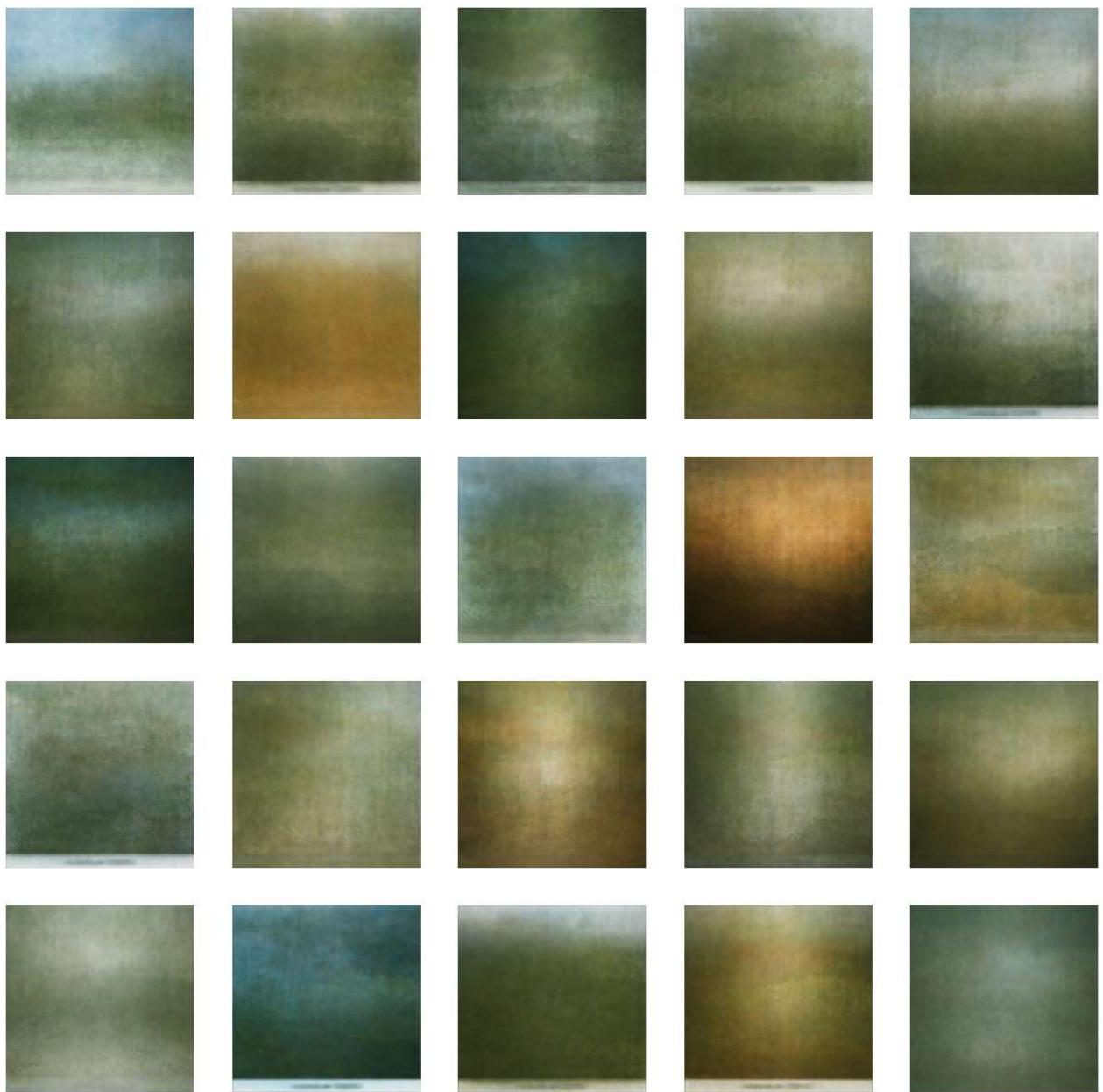


Coasts

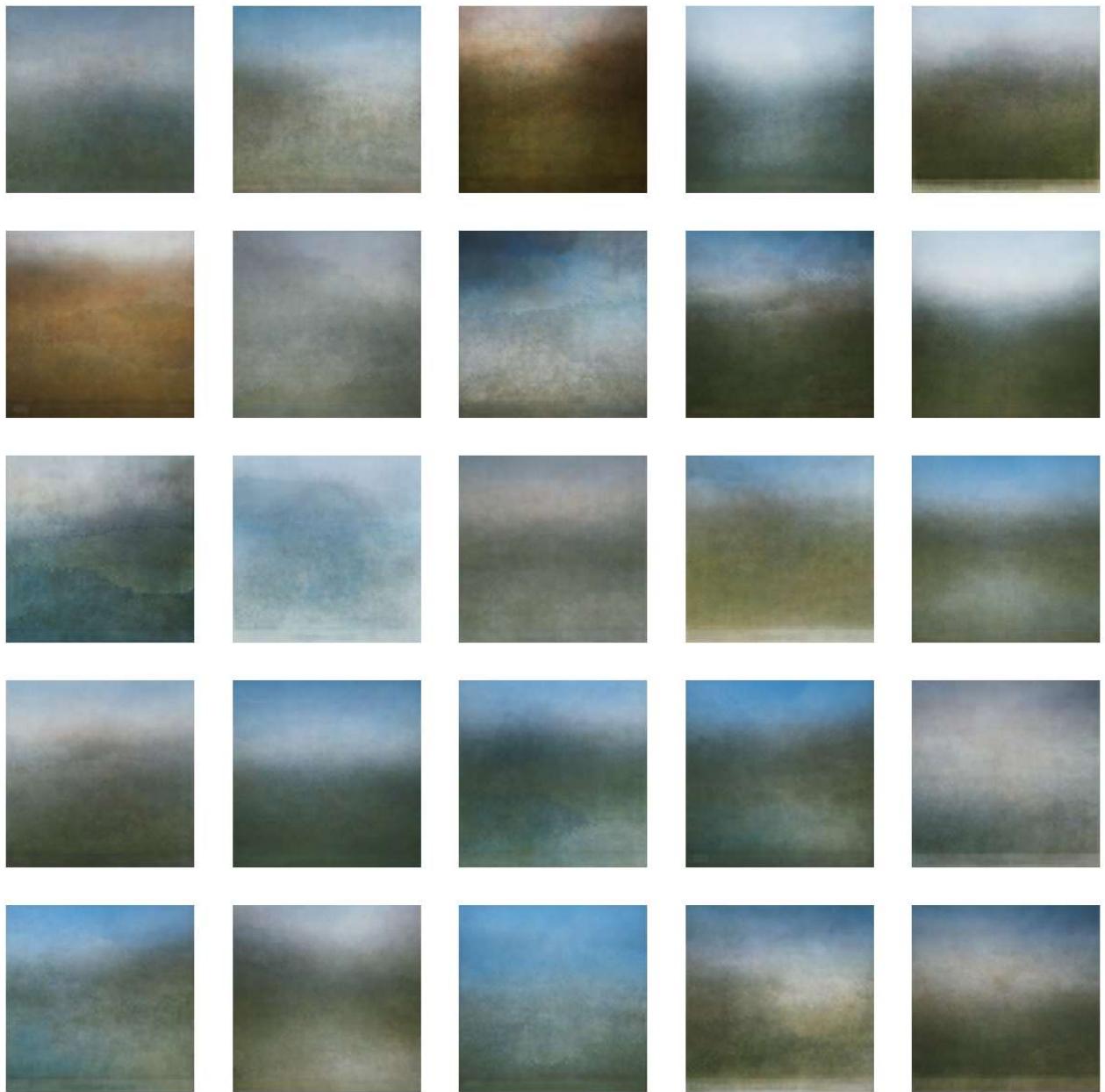


Deserts

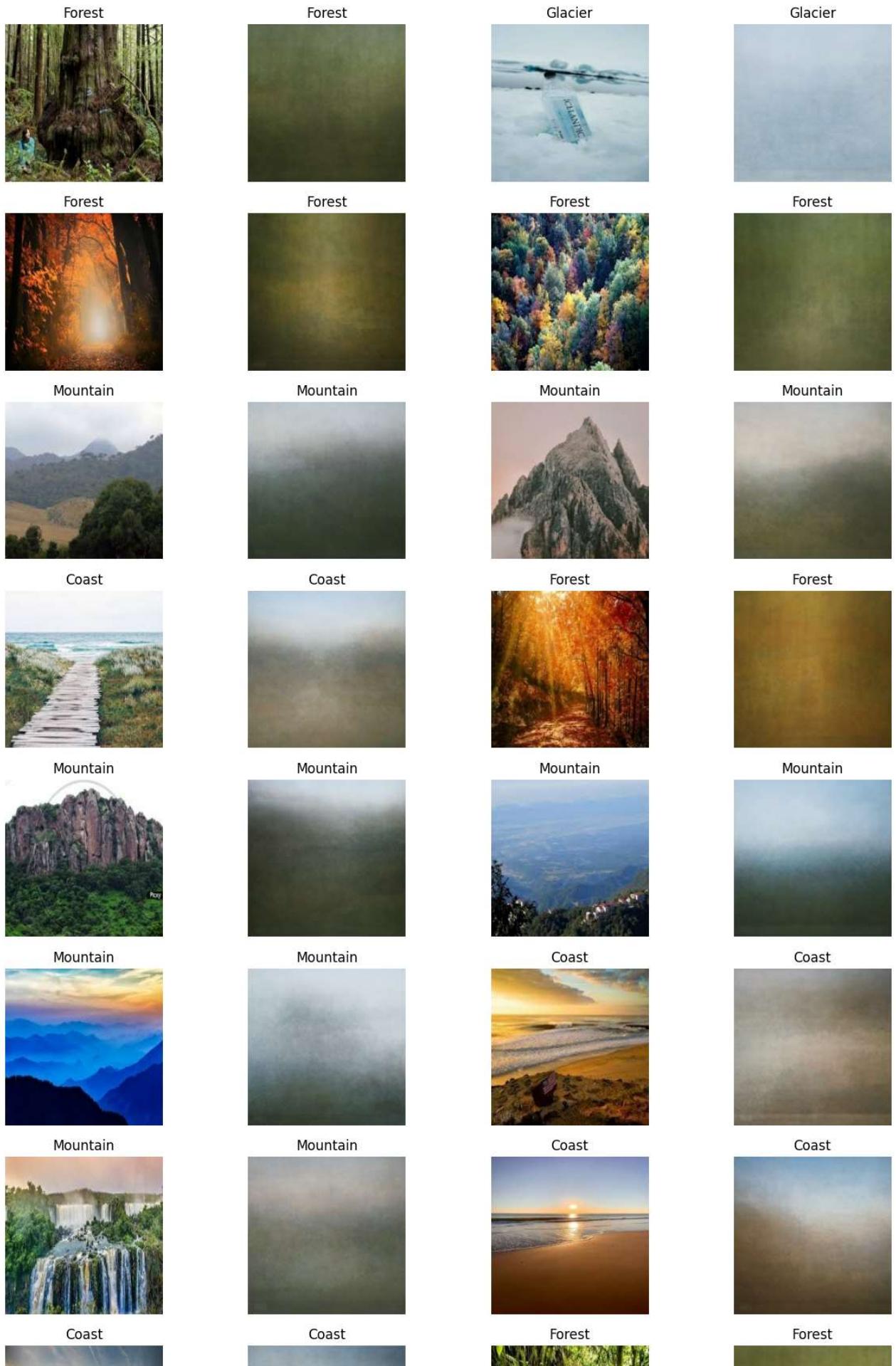
**Forests**

**Glaciers**

**Mountains**



Reconstruction





Performance Summary

```
[2023-12-07 15:12:09.841832]: Configuration
[2023-12-07 15:12:09.841918]: - Preprocessing:
[2023-12-07 15:12:09.841991]:   - Dataset Size: 12000
[2023-12-07 15:12:09.975728]:   - Image Size: (256, 256, 3)
[2023-12-07 15:12:10.104023]:   - Label Size: (5,)
[2023-12-07 15:12:10.105228]:   - Augmentations:
[2023-12-07 15:12:10.105372]:     - Grayscale: No
[2023-12-07 15:12:10.105448]:     - Cut Out: No
[2023-12-07 15:12:10.107263]:   - Architecture:
[2023-12-07 15:12:10.107374]:     - # Classes: 5
[2023-12-07 15:12:10.107510]:     - Code Size: 10
[2023-12-07 15:12:10.107640]:     - Hidden Layers: []
[2023-12-07 15:12:10.107870]:     - CNN Activation: relu
[2023-12-07 15:12:10.107953]:     - Hidden Activation: relu
[2023-12-07 15:12:10.108070]:     - Output Activation: sigmoid
[2023-12-07 15:12:10.108131]:   - Training:
[2023-12-07 15:12:10.108165]:     - Training Set Size: 9600
[2023-12-07 15:12:10.108281]:     - Validation Size: 1200
[2023-12-07 15:12:10.108352]:     - Test Size: 1200
[2023-12-07 15:12:10.108480]:     - Shuffle Size: 1024
[2023-12-07 15:12:10.108606]:     - Batch Size: 32
[2023-12-07 15:12:10.108731]:     - Max Epochs: 100
[2023-12-07 15:12:10.108858]:     - Patience: 100
[2023-12-07 15:12:10.108983]:     - KL Coefficient: 1
[2023-12-07 15:12:10.122014]:     - Optimizer: <keras.src.optimizers.adam.Adam object at 0x7ff49091c580>
[2023-12-07 15:12:10.123246]:     - Learning Rate: 0.0001
[2023-12-07 15:12:10.124658]:     - Pre-trained: No

[2023-12-07 15:12:10.125021]: Reconstruction & Regularization
[2023-12-07 15:12:10.125242]: Training loss: 353.568726
[2023-12-07 15:12:10.125456]: - Reconstruction Error: 347.725739
[2023-12-07 15:12:10.125670]: - Regularization Error: 5.842995
[2023-12-07 15:12:10.125880]: Validation loss: 376.000031
[2023-12-07 15:12:10.126084]: - Reconstruction Error: 370.124146
[2023-12-07 15:12:10.126284]: - Regularization Error: 5.712440
[2023-12-07 15:12:10.126412]: Test loss: 374.114563
[2023-12-07 15:12:10.126491]: - Reconstruction Error: 368.434784
[2023-12-07 15:12:10.132791]: - Regularization Error: 5.709801

[2023-12-07 15:12:10.132928]: Generation Quality
[2023-12-07 15:12:10.132975]: Coast | accuracy: 0.78% | loss: 18.918
[2023-12-07 15:12:10.133041]: Desert | accuracy: 96.88% | loss: 0.101
[2023-12-07 15:12:10.133107]: Forest | accuracy: 97.66% | loss: 0.119
[2023-12-07 15:12:10.135819]: Glacier | accuracy: 0.00% | loss: 24.338
[2023-12-07 15:12:10.135934]: Mountain | accuracy: 2.34% | loss: 11.326
[2023-12-07 15:12:10.136040]: -----
[2023-12-07 15:12:10.136218]: Average | accuracy: 39.53% | loss: 10.960
```