

Epoch 1/100

6/Unknown - 19s 1s/step - loss: 739.3462 - reconstruction_error: 738.0358 - regularization_error: 1.3104

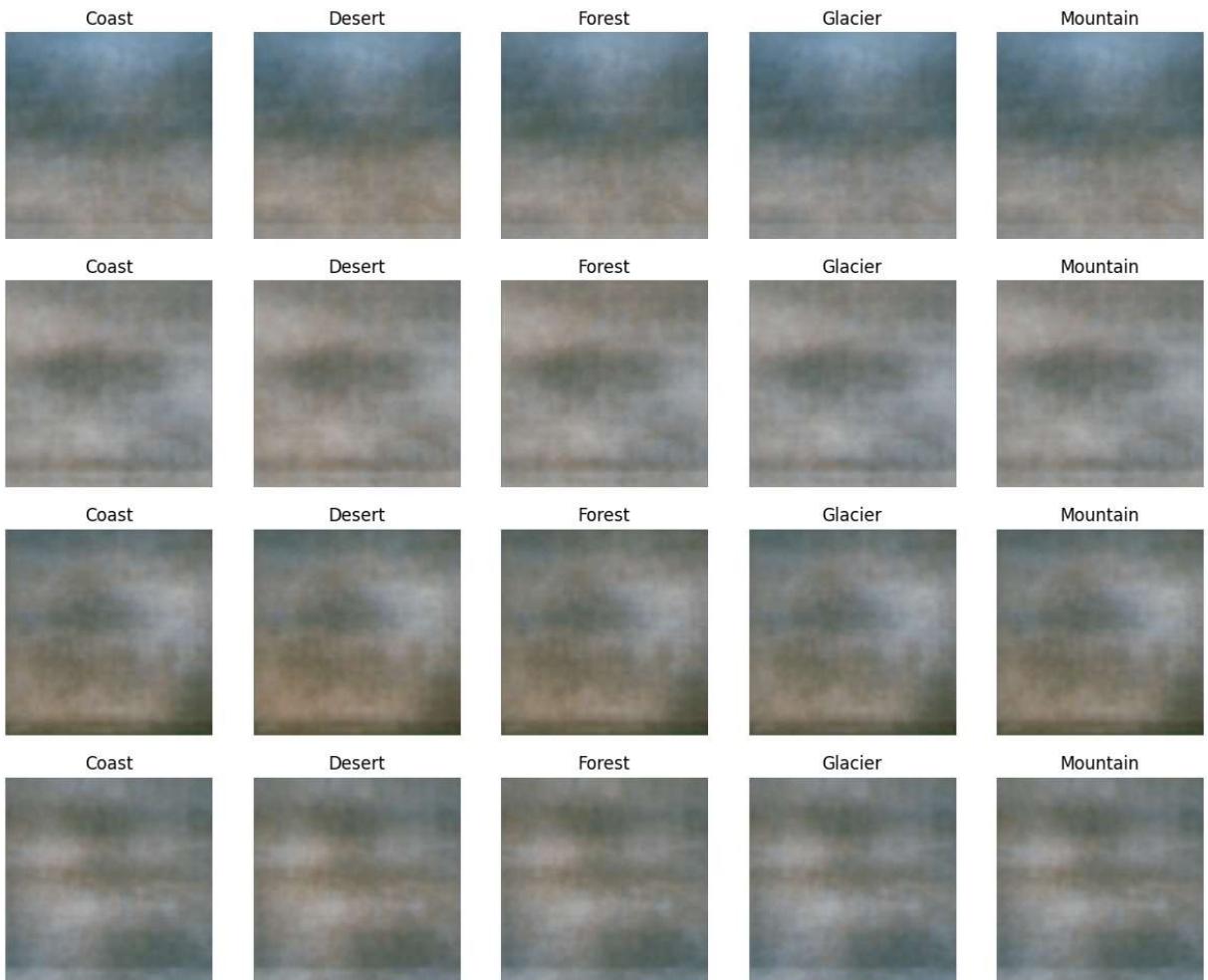
WARNING:tensorflow:Callback method `on_train_batch_end` is slow compared to the batch time (batch time: 0.0823s vs `on_train_batch_end` time: 1.0159s). Check your callbacks.

600/Unknown - 166s 255ms/step - loss: 350.6957 - reconstruction_error: 337.1907 - regularization_error: 13.5052

[2023-11-22 11:10:00.110986]: Generating fixed images for epoch 1 ...



[2023-11-22 11:10:02.197061]: Generating random images for epoch 1 ...



600/600 [=====] - 204s 319ms/step - loss: 350.6957 - reconstruction_error: 337.1907 - regularization_error: 13.5052 - val_loss: 226.5320 - val_reconstruction_error: 210.0431 - val_regularization_error: 16.4889

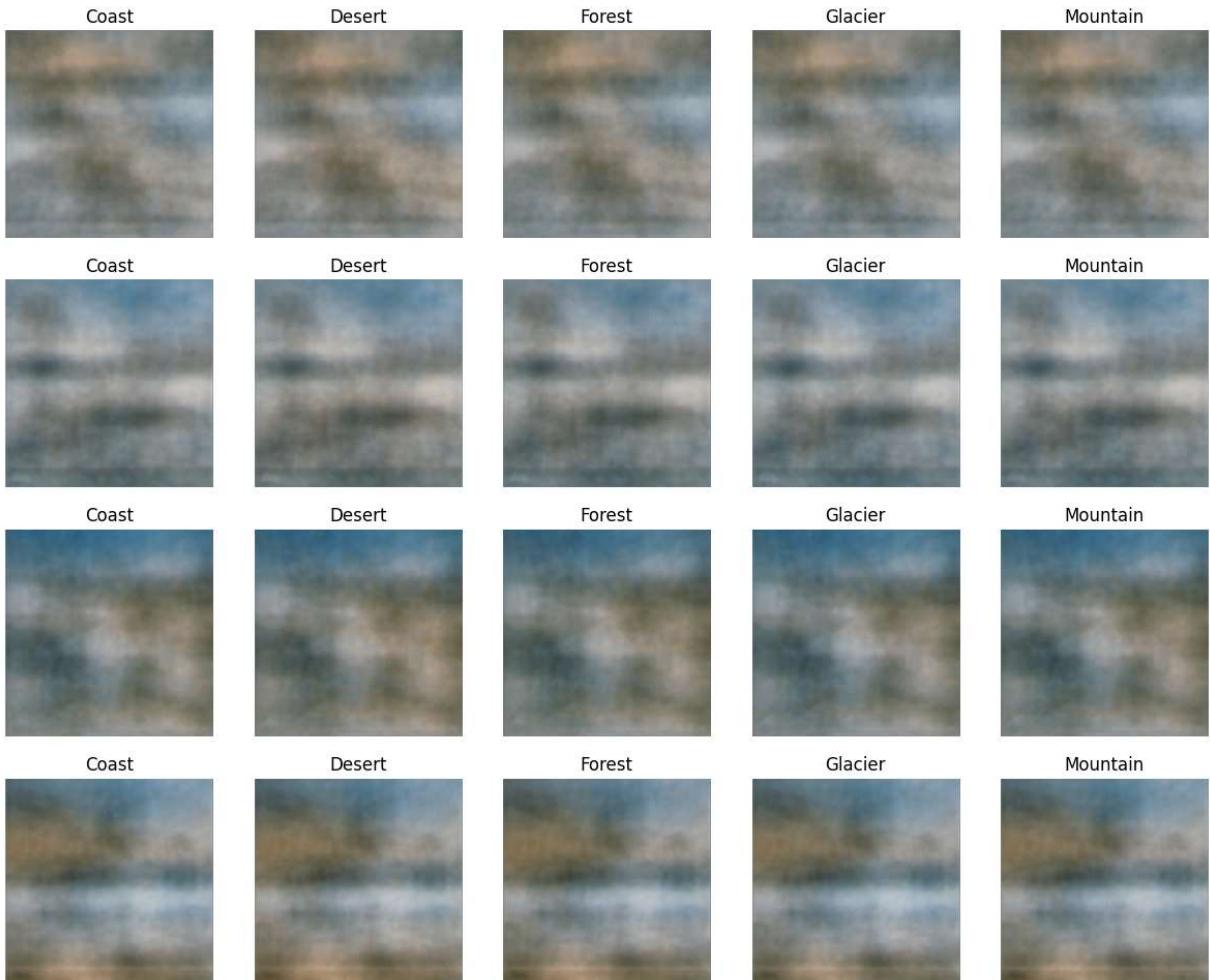
Epoch 2/100

600/600 [=====] - ETA: 0s - loss: 206.6630 - reconstruction_error: 188.1680 - regularization_error: 18.4949

[2023-11-22 11:12:41.449090]: Generating fixed images for epoch 2 ...



[2023-11-22 11:12:43.309864]: Generating random images for epoch 2 ...



600/600 [=====] - 161s 268ms/step - loss: 206.6630 - reconstruction_error: 188.1680 - regularization_error: 18.4949 - val_loss: 199.5712 - val_reconstruction_error: 179.5121 - val_regularization_error: 20.0590

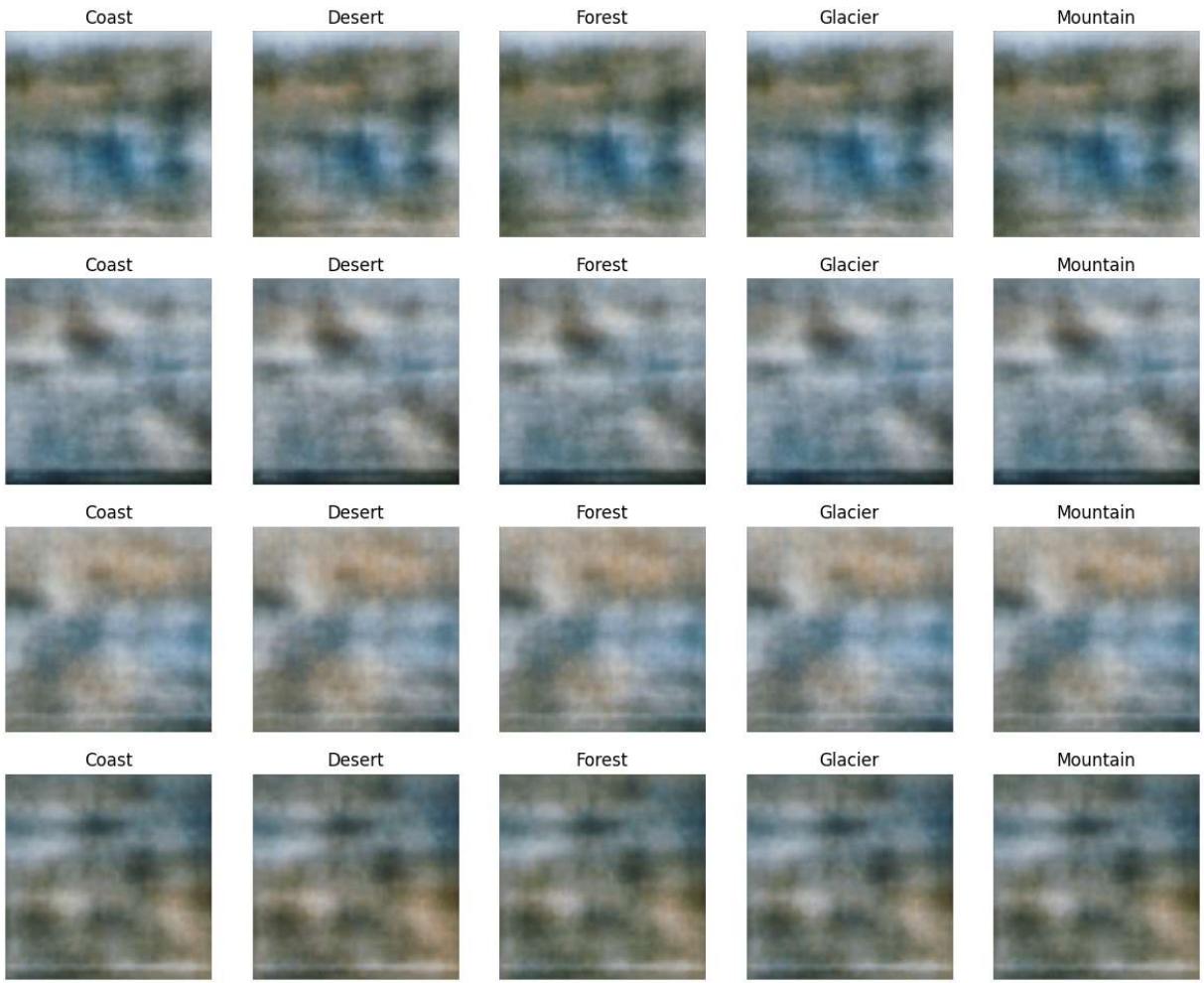
Epoch 3/100

600/600 [=====] - ETA: 0s - loss: 185.0560 - reconstruction_error: 164.1341 - regularization_error: 20.9217

[2023-11-22 11:15:27.918190]: Generating fixed images for epoch 3 ...



[2023-11-22 11:15:29.140553]: Generating random images for epoch 3 ...

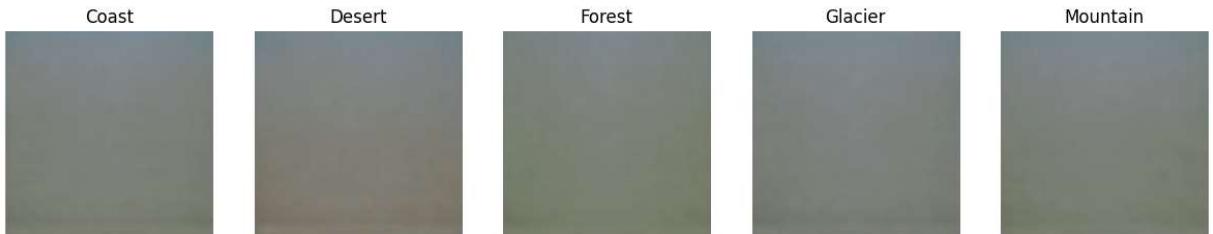


600/600 [=====] - 165s 275ms/step - loss: 185.0560 - reconstruction_error: 164.1341 - regularization_error: 20.9217 - val_loss: 182.0958 - val_reconstruction_error: 160.1835 - val_regularization_error: 21.9123

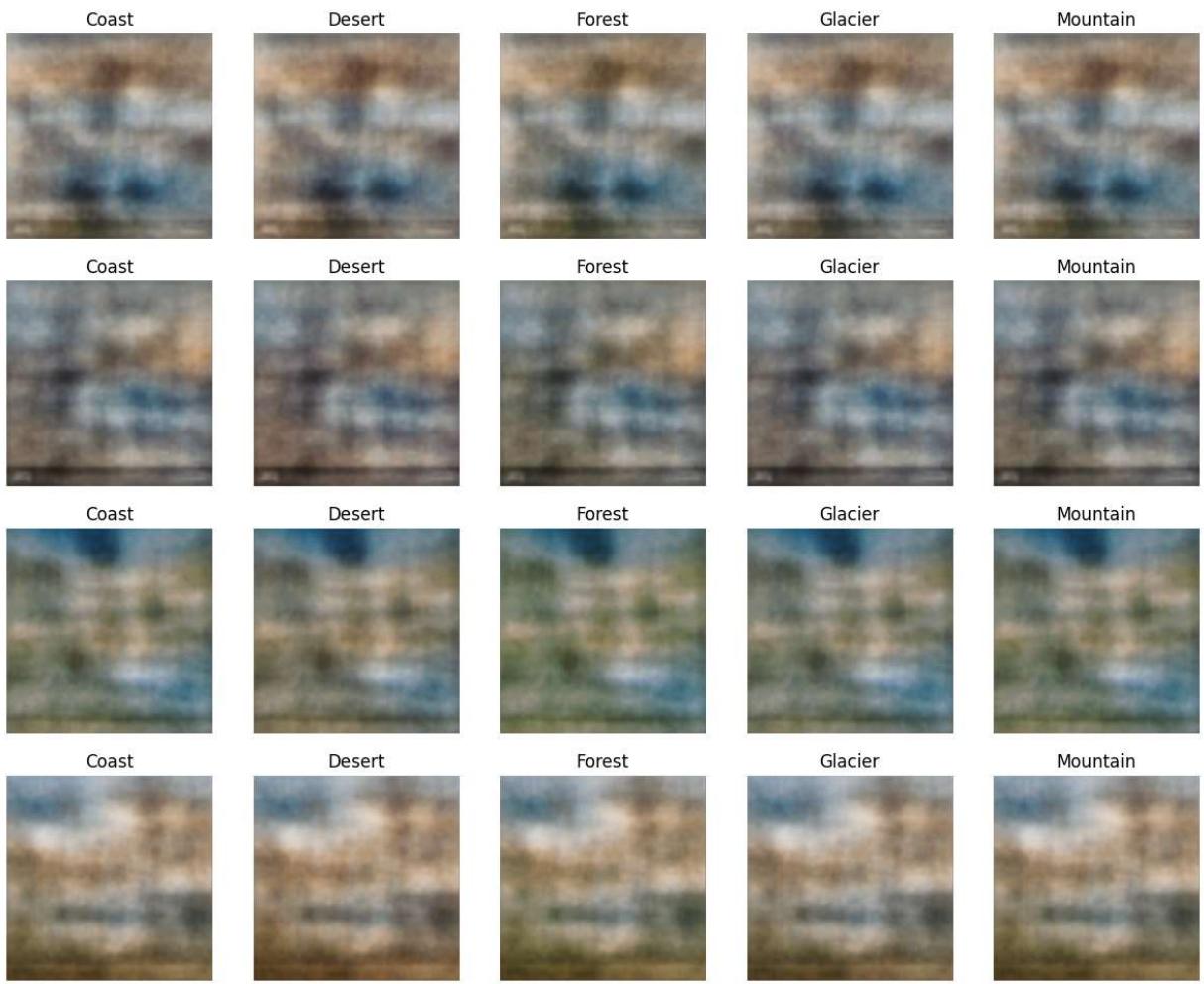
Epoch 4/100

600/600 [=====] - ETA: 0s - loss: 171.6700 - reconstruction_error: 149.1827 - regularization_error: 22.4873

[2023-11-22 11:18:01.820169]: Generating fixed images for epoch 4 ...



[2023-11-22 11:18:03.034112]: Generating random images for epoch 4 ...

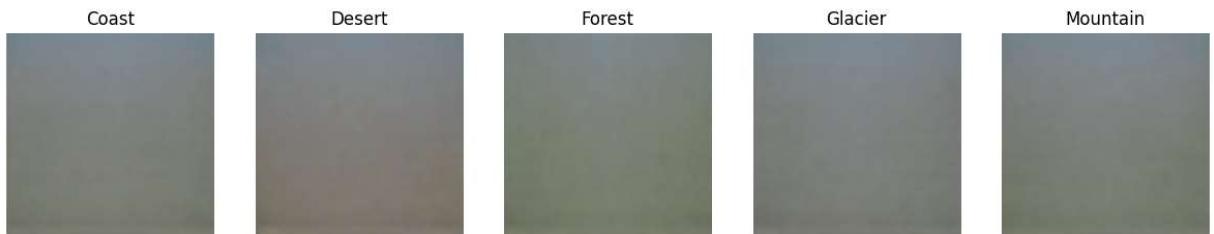


600/600 [=====] - 155s 258ms/step - loss: 171.6700 - reconstruction_error: 149.1827 - regularization_error: 22.4873 - val_loss: 168.7759 - val_reconstruction_error: 146.1445 - val_regularization_error: 22.6315

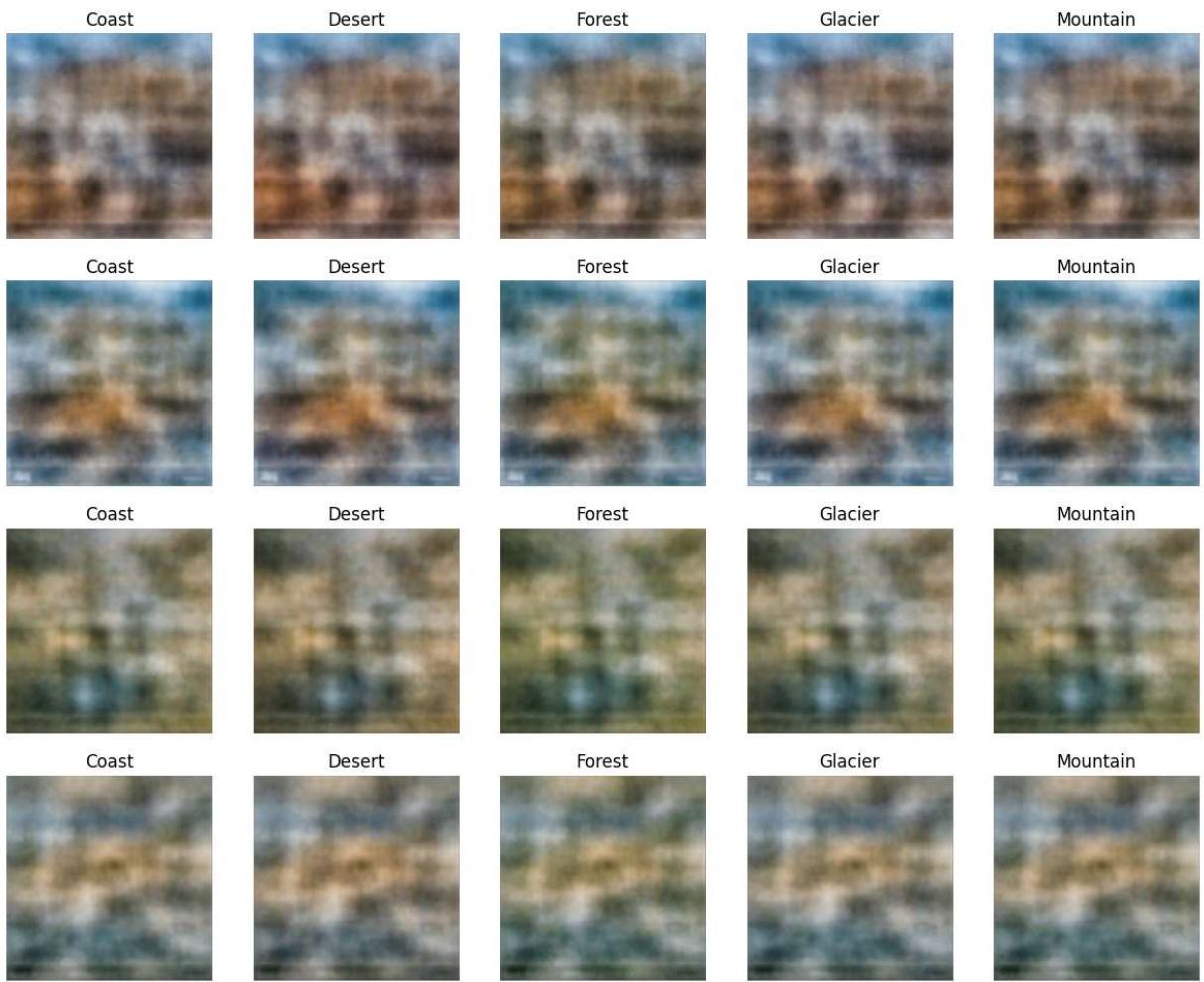
Epoch 5/100

600/600 [=====] - ETA: 0s - loss: 159.5607 - reconstruction_error: 135.6512 - regularization_error: 23.9095

[2023-11-22 11:20:43.516004]: Generating fixed images for epoch 5 ...



[2023-11-22 11:20:44.732587]: Generating random images for epoch 5 ...



600/600 [=====] - 161s 267ms/step - loss: 159.5607 - reconstruction_error: 135.6512 - regularization_error: 23.9095 - val_loss: 159.7779 - val_reconstruction_error: 135.5786 - val_regularization_error: 24.1993

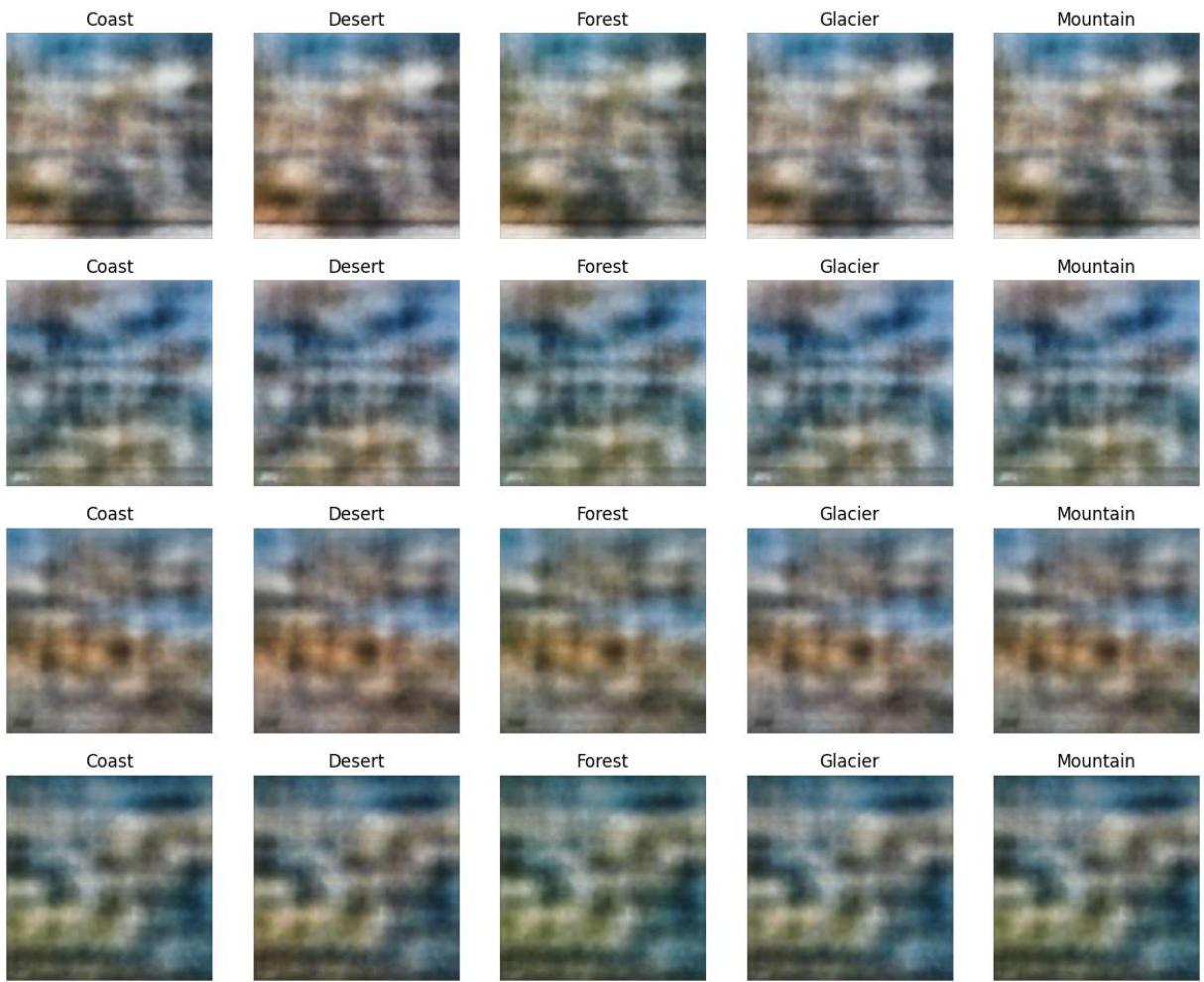
Epoch 6/100

600/600 [=====] - ETA: 0s - loss: 151.6649 - reconstruction_error: 126.8052 - regularization_error: 24.8596

[2023-11-22 11:23:23.573969]: Generating fixed images for epoch 6 ...



[2023-11-22 11:23:24.752957]: Generating random images for epoch 6 ...



600/600 [=====] - 161s 268ms/step - loss: 151.6649 - reconstruction_error: 126.8052 - regularization_error: 24.8596 - val_loss: 155.0132 - val_reconstruction_error: 130.0239 - val_regularization_error: 24.9893

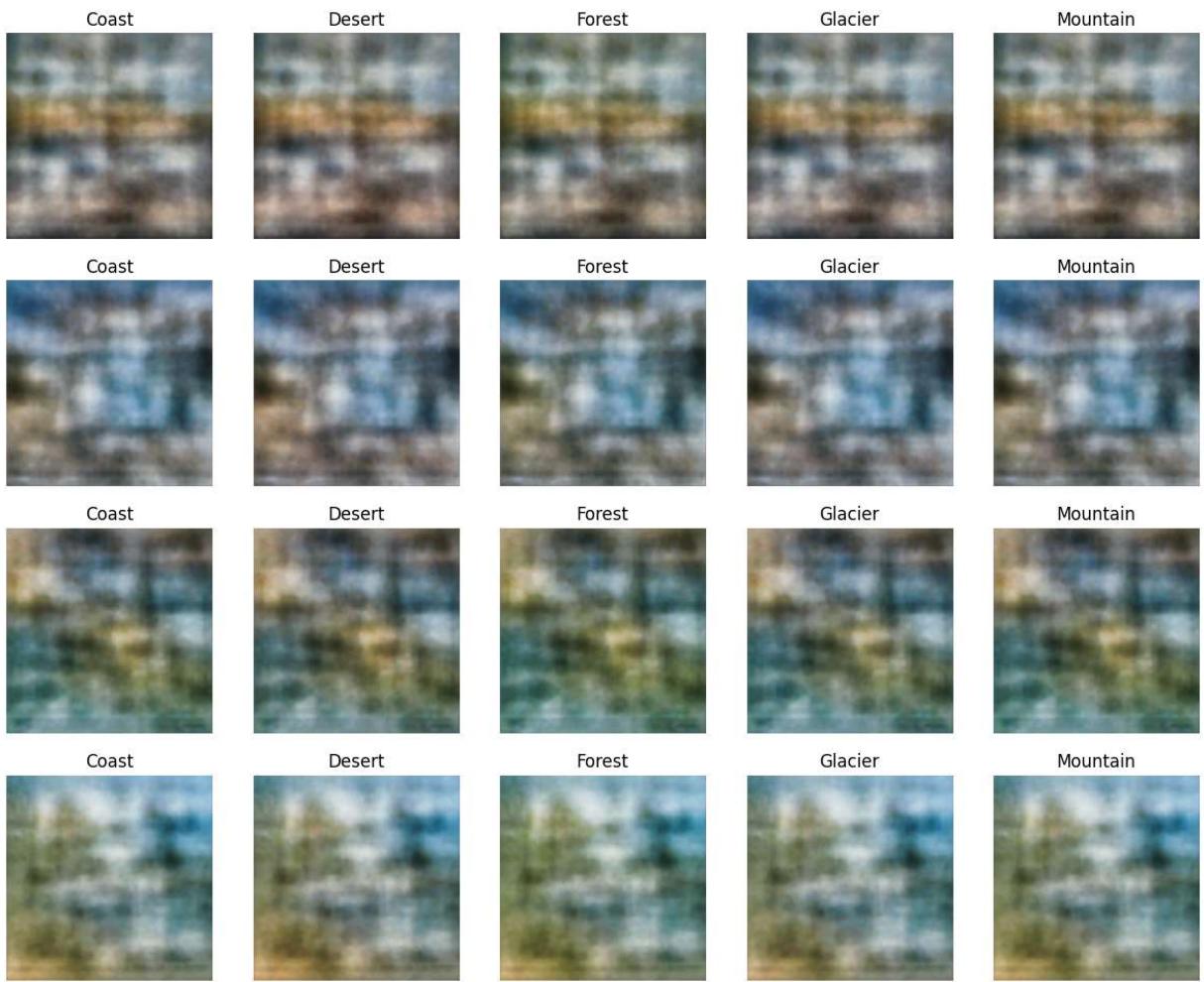
Epoch 7/100

600/600 [=====] - ETA: 0s - loss: 146.2071 - reconstruction_error: 120.6059 - regularization_error: 25.6013

[2023-11-22 11:26:09.362980]: Generating fixed images for epoch 7 ...



[2023-11-22 11:26:11.221437]: Generating random images for epoch 7 ...

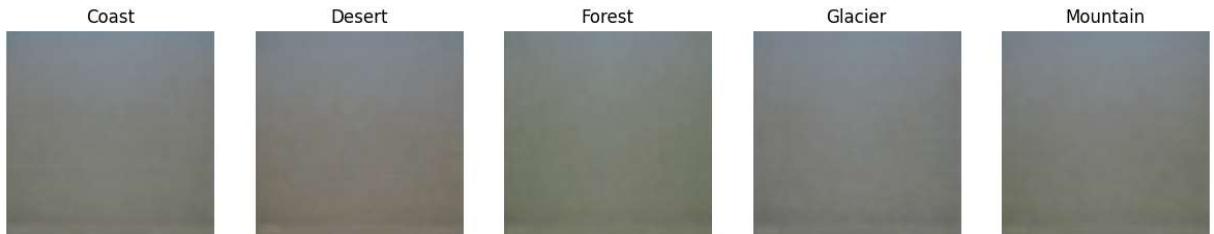


600/600 [=====] - 166s 276ms/step - loss: 146.2071 - reconstruction_error: 120.6059 - regularization_error: 25.6013 - val_loss: 150.8229 - val_reconstruction_error: 124.7275 - val_regularization_error: 26.0954

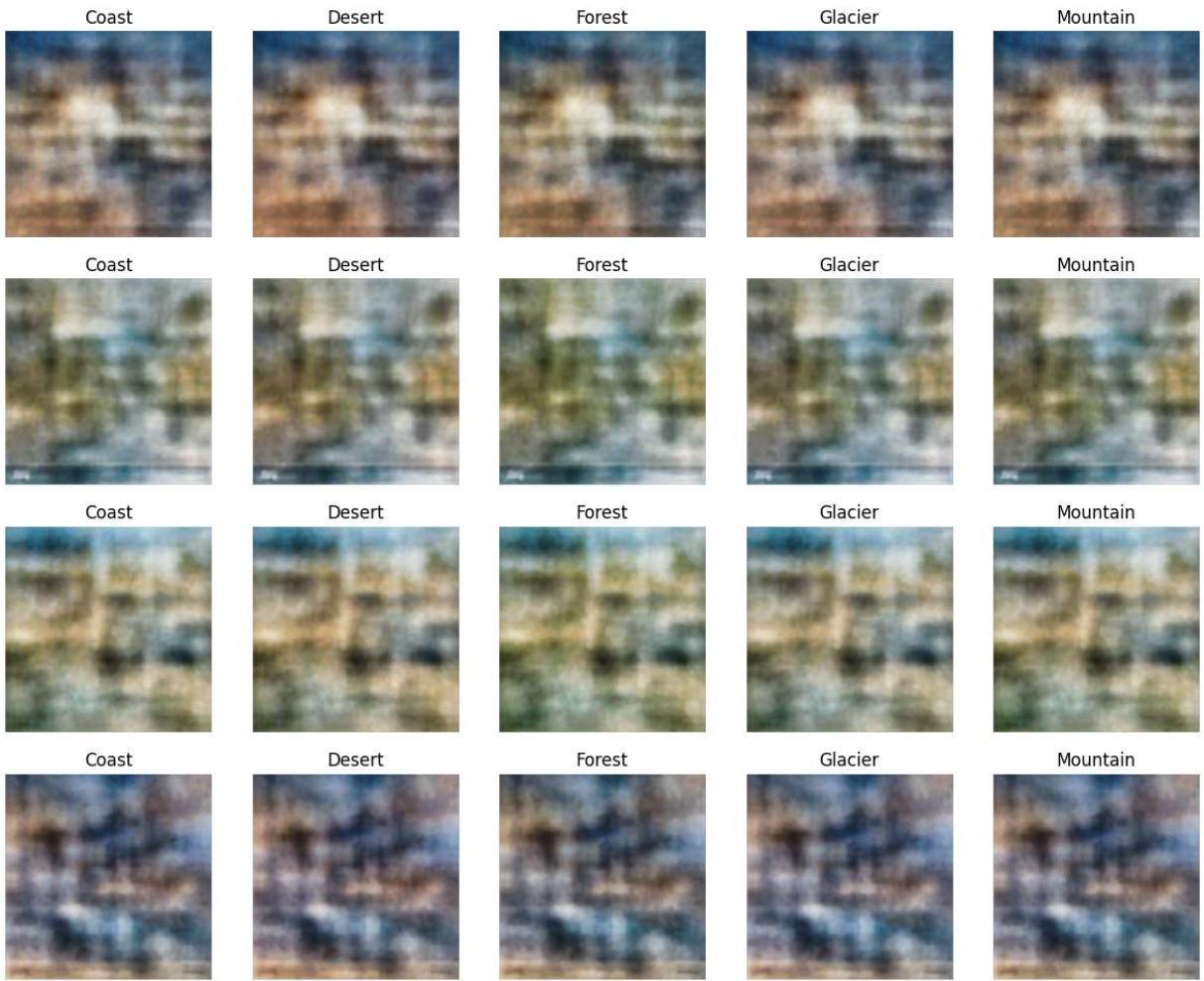
Epoch 8/100

600/600 [=====] - ETA: 0s - loss: 141.7618 - reconstruction_error: 115.6739 - regularization_error: 26.0879

[2023-11-22 11:28:50.102763]: Generating fixed images for epoch 8 ...



[2023-11-22 11:28:51.484175]: Generating random images for epoch 8 ...



600/600 [=====] - 160s 266ms/step - loss: 141.7618 - reconstruction_error: 115.6739 - regularization_error: 26.0879 - val_loss: 148.2162 - val_reconstruction_error: 122.6107 - val_regularization_error: 25.6055

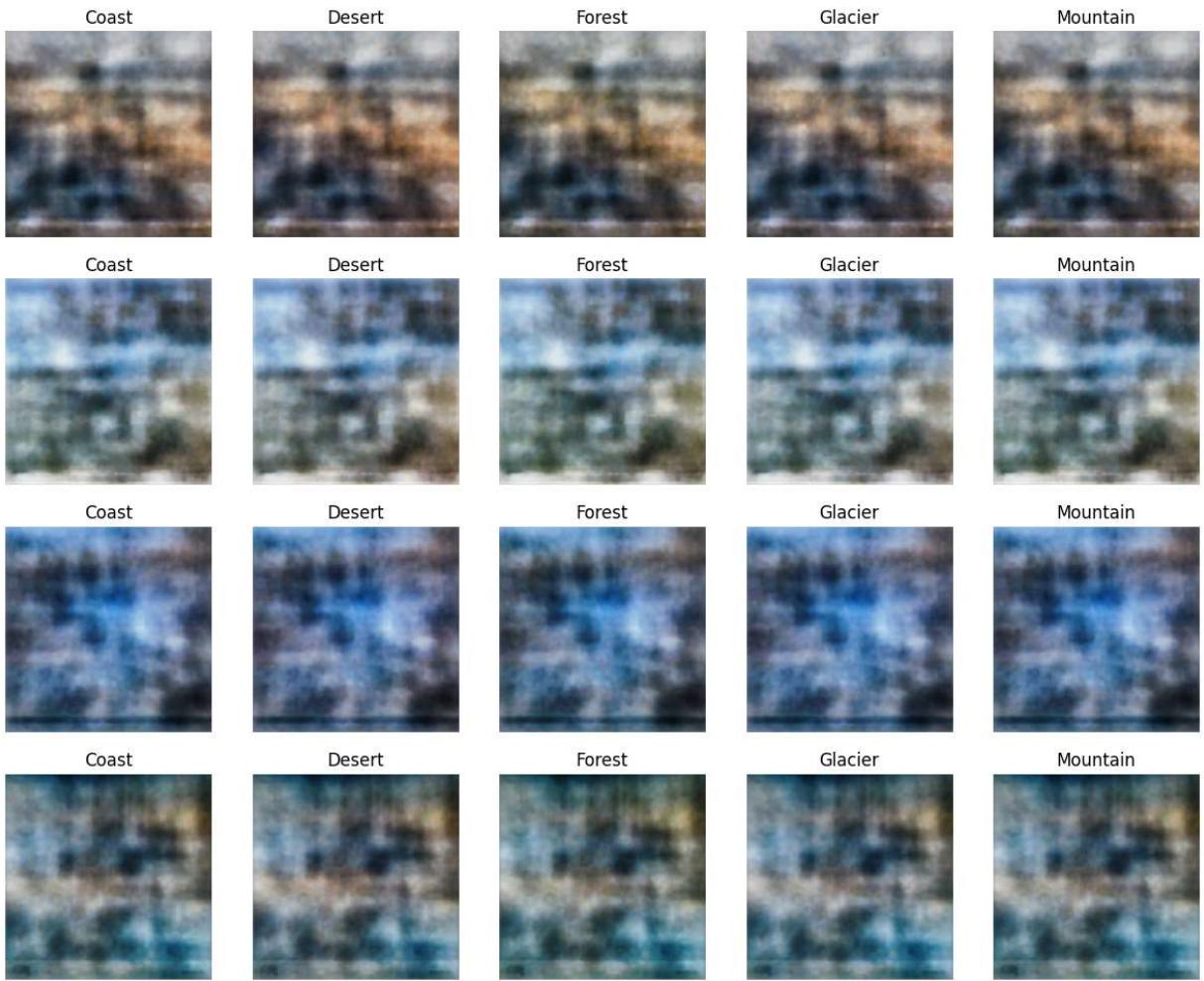
Epoch 9/100

600/600 [=====] - ETA: 0s - loss: 138.2957 - reconstruction_error: 111.8431 - regularization_error: 26.4525

[2023-11-22 11:31:26.231210]: Generating fixed images for epoch 9 ...



[2023-11-22 11:31:27.410387]: Generating random images for epoch 9 ...



600/600 [=====] - 156s 260ms/step - loss: 138.2957 - reconstruction_error: 111.8431 - regularization_error: 26.4525 - val_loss: 146.7784 - val_reconstruction_error: 120.1076 - val_regularization_error: 26.6708

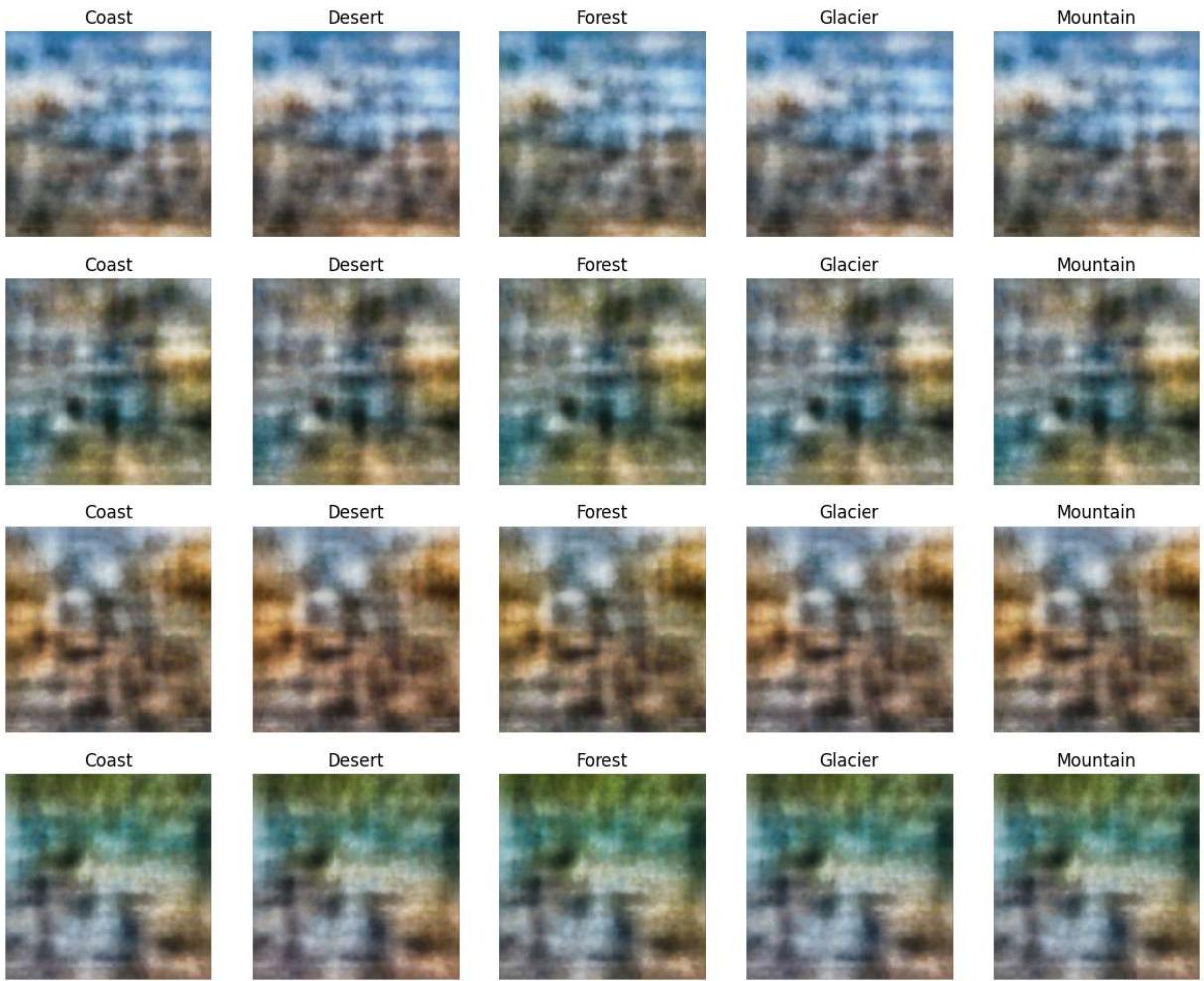
Epoch 10/100

600/600 [=====] - ETA: 0s - loss: 135.2356 - reconstruction_error: 108.4933 - regularization_error: 26.7424

[2023-11-22 11:34:16.627299]: Generating fixed images for epoch 10 ...



[2023-11-22 11:34:18.166526]: Generating random images for epoch 10 ...



600/600 [=====] - 171s 285ms/step - loss: 135.2356 - reconstruction_error: 108.4933 - regularization_error: 26.7424 - val_loss: 146.9906 - val_reconstruction_error: 121.2205 - val_regularization_error: 25.7701

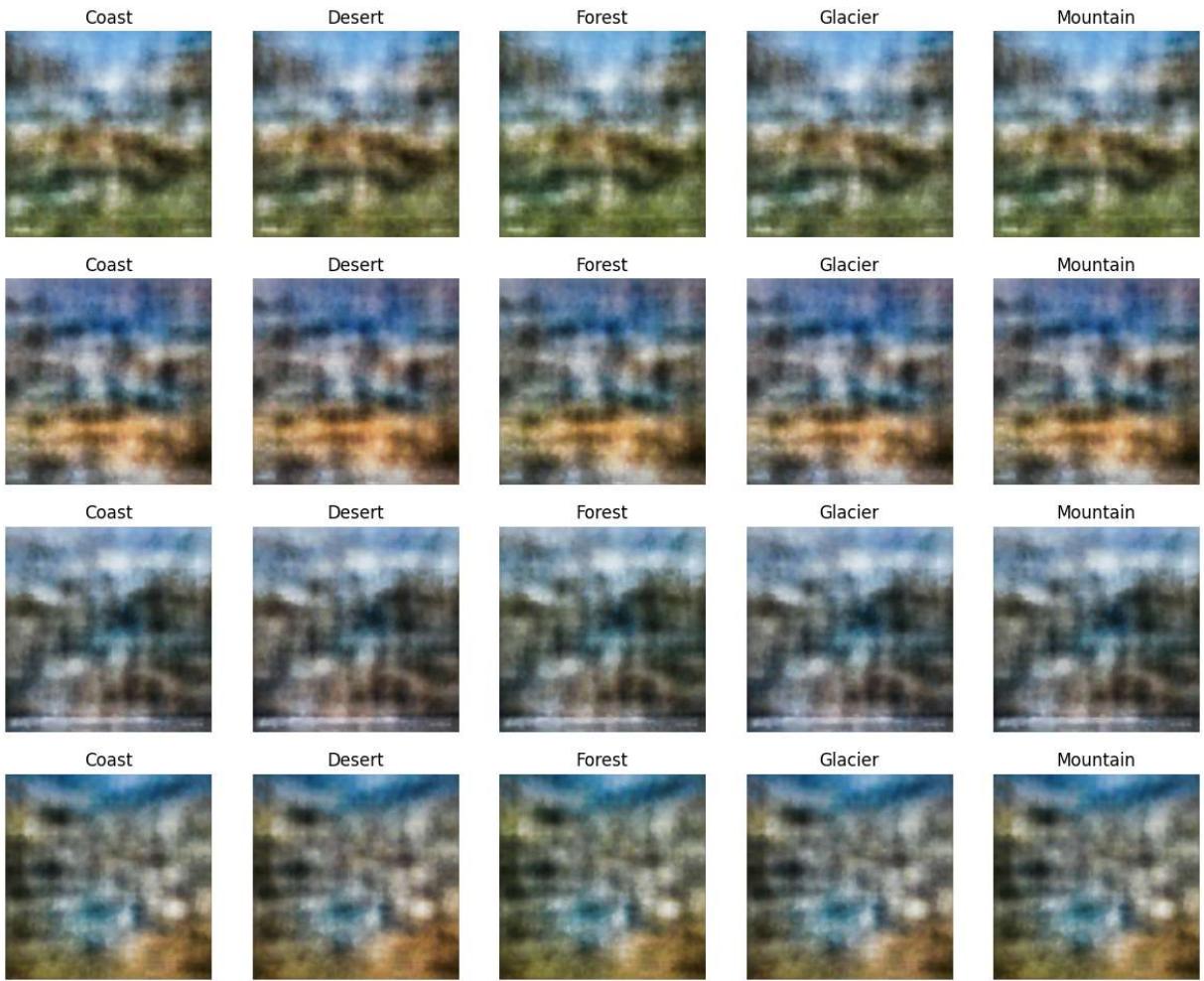
Epoch 11/100

600/600 [=====] - ETA: 0s - loss: 132.3419 - reconstruction_error: 105.3912 - regularization_error: 26.9508

[2023-11-22 11:36:50.205028]: Generating fixed images for epoch 11 ...



[2023-11-22 11:36:51.421207]: Generating random images for epoch 11 ...



600/600 [=====] - 153s 254ms/step - loss: 132.3419 - reconstruction_error: 105.3912 - regularization_error: 26.9508 - val_loss: 145.0067 - val_reconstruction_error: 118.5429 - val_regularization_error: 26.4638

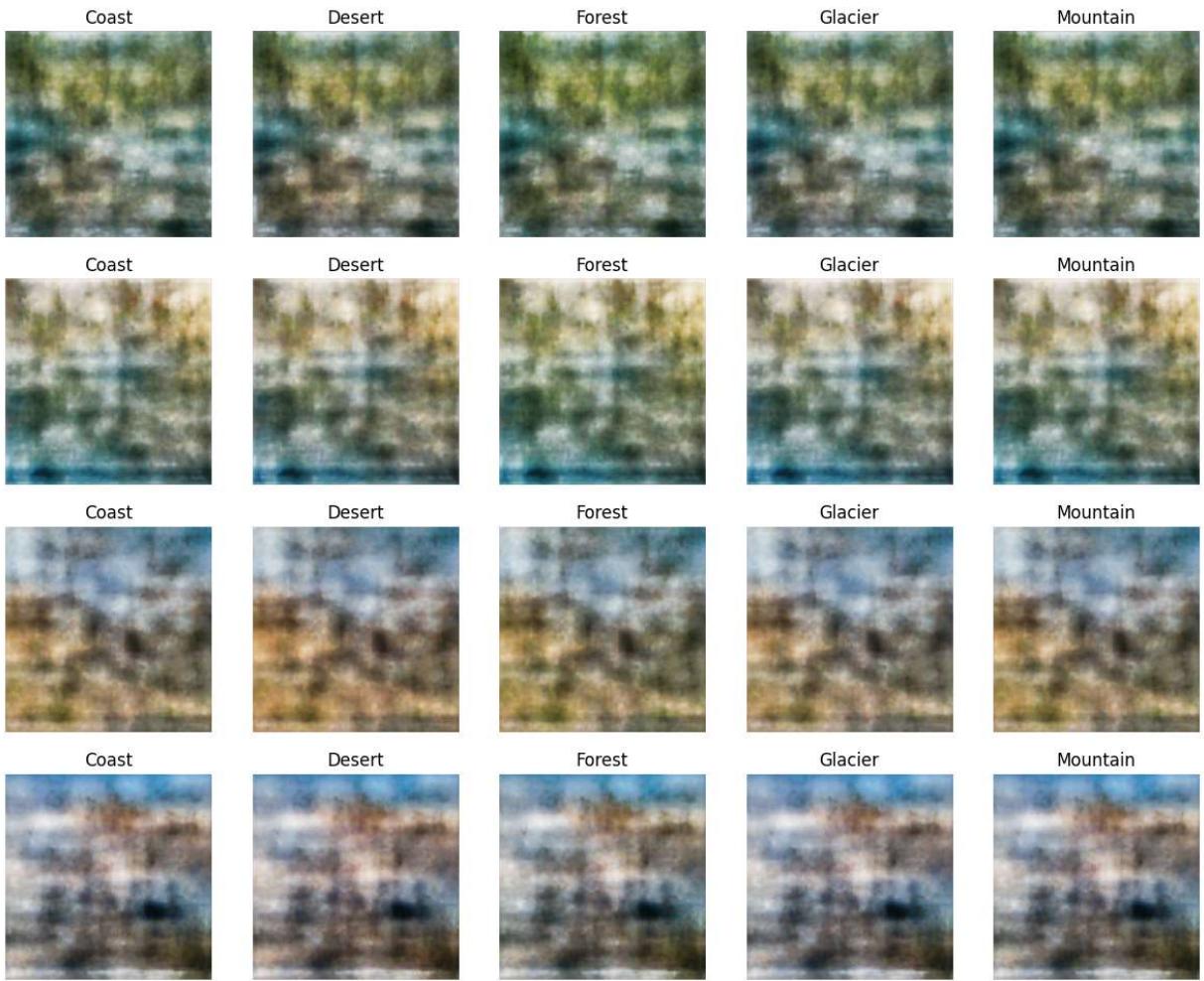
Epoch 12/100

600/600 [=====] - ETA: 0s - loss: 128.9322 - reconstruction_error: 101.7137 - regularization_error: 27.2186

[2023-11-22 11:39:34.343207]: Generating fixed images for epoch 12 ...



[2023-11-22 11:39:35.541032]: Generating random images for epoch 12 ...



600/600 [=====] - 164s 273ms/step - loss: 128.9322 - reconstruction_error: 101.7137 - regularization_error: 27.2186 - val_loss: 145.1253 - val_reconstruction_error: 118.2064 - val_regularization_error: 26.9189

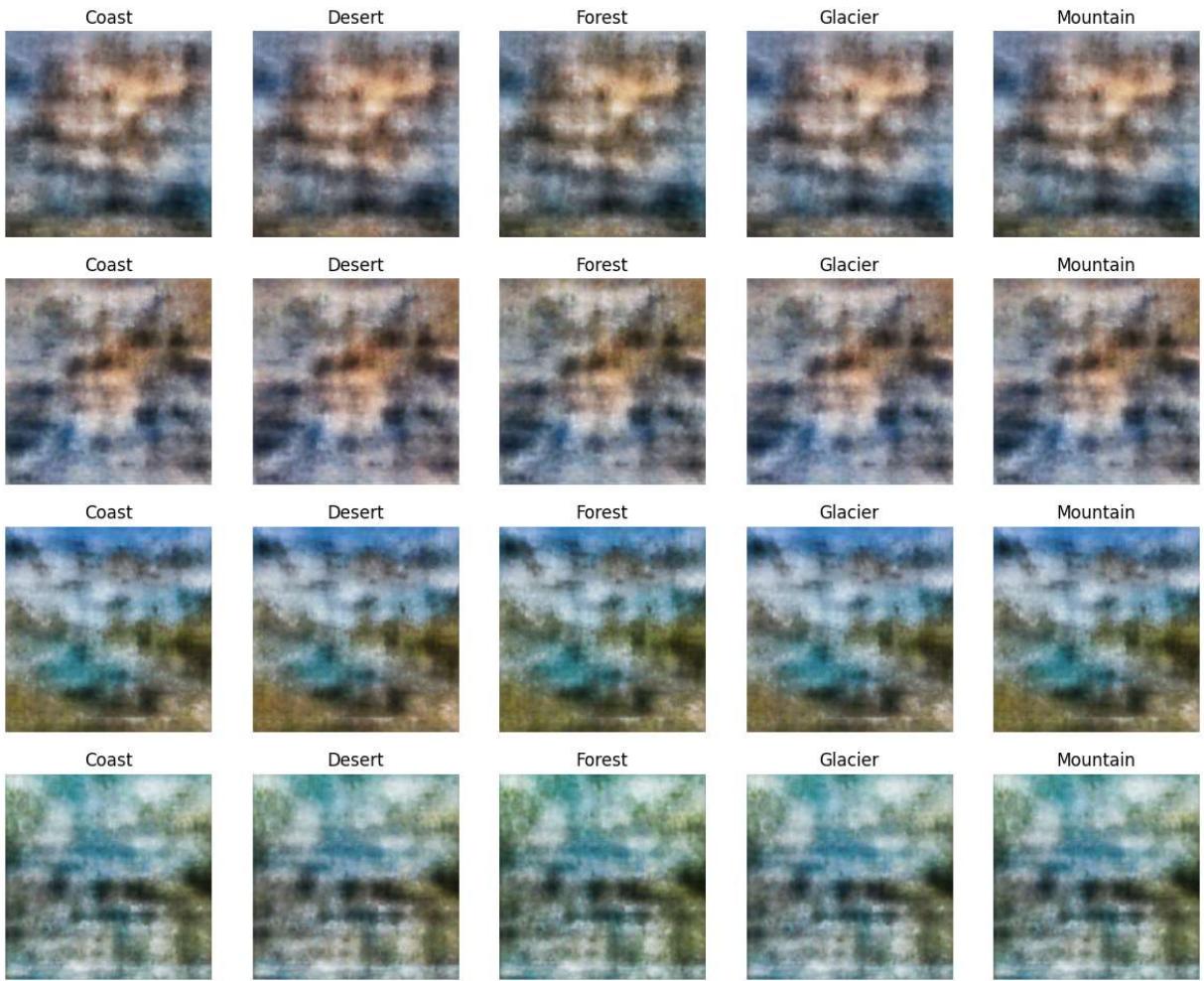
Epoch 13/100

600/600 [=====] - ETA: 0s - loss: 125.0155 - reconstruction_error: 97.5596 - regularization_error: 27.4560

[2023-11-22 11:42:09.930834]: Generating fixed images for epoch 13 ...



[2023-11-22 11:42:11.272091]: Generating random images for epoch 13 ...



600/600 [=====] - 157s 261ms/step - loss: 125.0155 - reconstruction_error: 97.5596 - regularization_error: 27.4560 - val_loss: 145.6560 - val_reconstruction_error: 118.6075 - val_regularization_error: 27.0485

Epoch 14/100

600/600 [=====] - ETA: 0s - loss: 120.3928 - reconstruction_error: 92.6723 - regularization_error: 27.7205

[2023-11-22 11:44:46.452677]: Generating fixed images for epoch 14 ...



[2023-11-22 11:44:47.664165]: Generating random images for epoch 14 ...



600/600 [=====] - 156s 259ms/step - loss: 120.3928 - reconstruction_error: 92.6723 - regularization_error: 27.7205 - val_loss: 146.2717 - val_reconstruction_error: 118.9928 - val_regularization_error: 27.2789

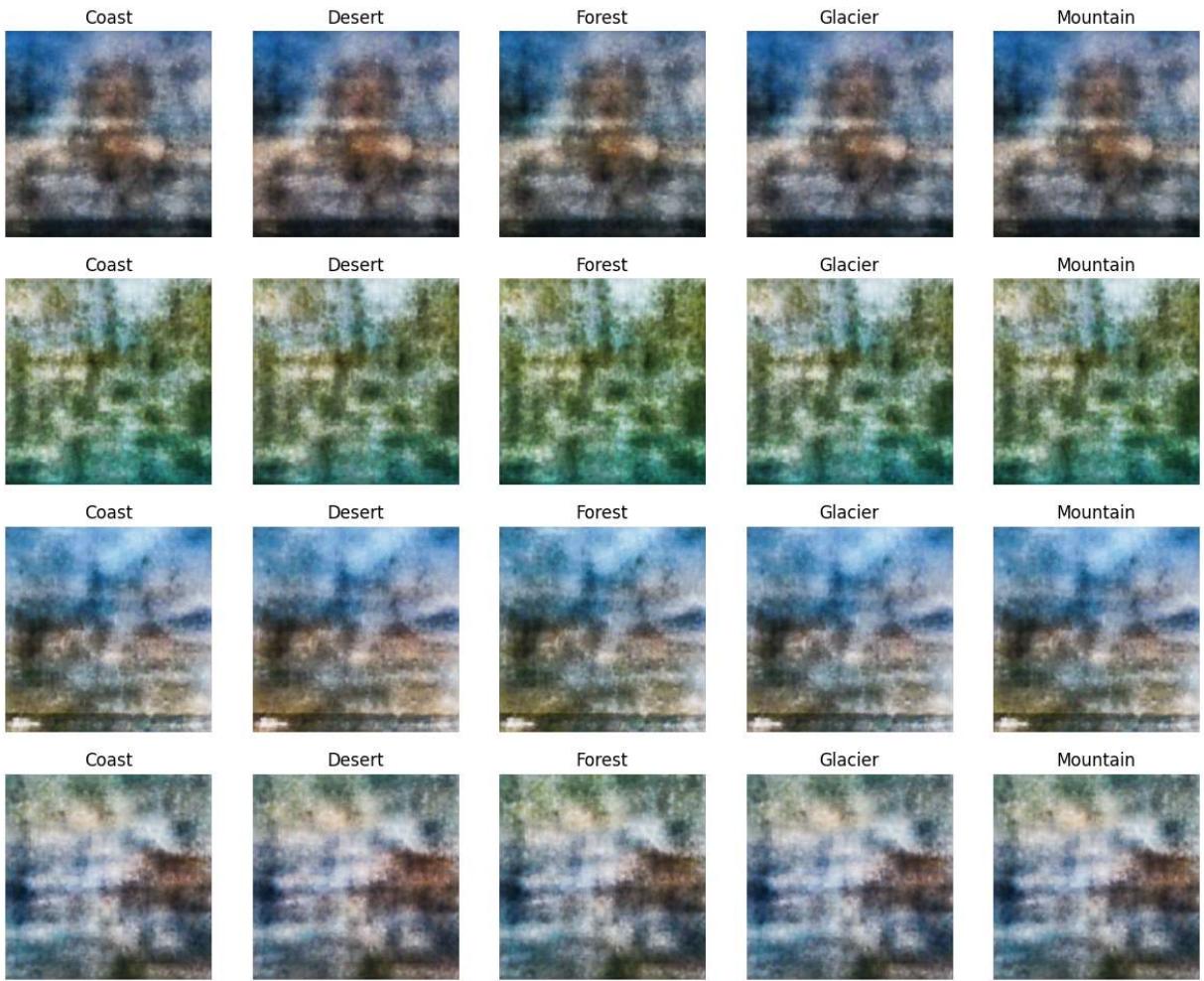
Epoch 15/100

600/600 [=====] - ETA: 0s - loss: 115.5192 - reconstruction_error: 87.6170 - regularization_error: 27.9022

[2023-11-22 11:47:32.280930]: Generating fixed images for epoch 15 ...



[2023-11-22 11:47:33.771320]: Generating random images for epoch 15 ...



600/600 [=====] - 165s 275ms/step - loss: 115.5192 - reconstruction_error: 87.6170 - regularization_error: 27.9022 - val_loss: 152.8742 - val_reconstruction_error: 125.4291 - val_regularization_error: 27.4451

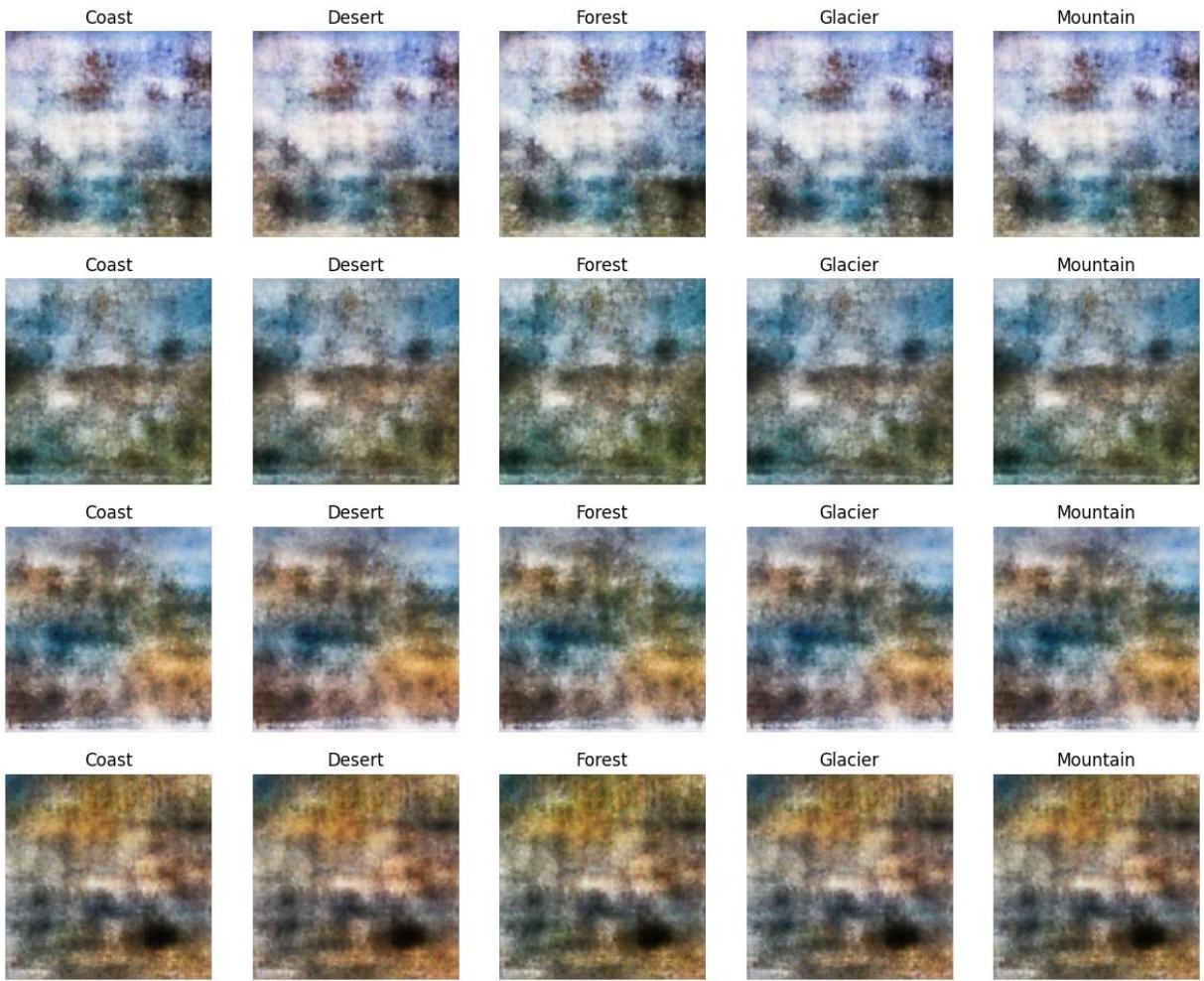
Epoch 16/100

600/600 [=====] - ETA: 0s - loss: 110.5202 - reconstruction_error: 82.3703 - regularization_error: 28.1498

[2023-11-22 11:50:01.461299]: Generating fixed images for epoch 16 ...



[2023-11-22 11:50:03.198975]: Generating random images for epoch 16 ...



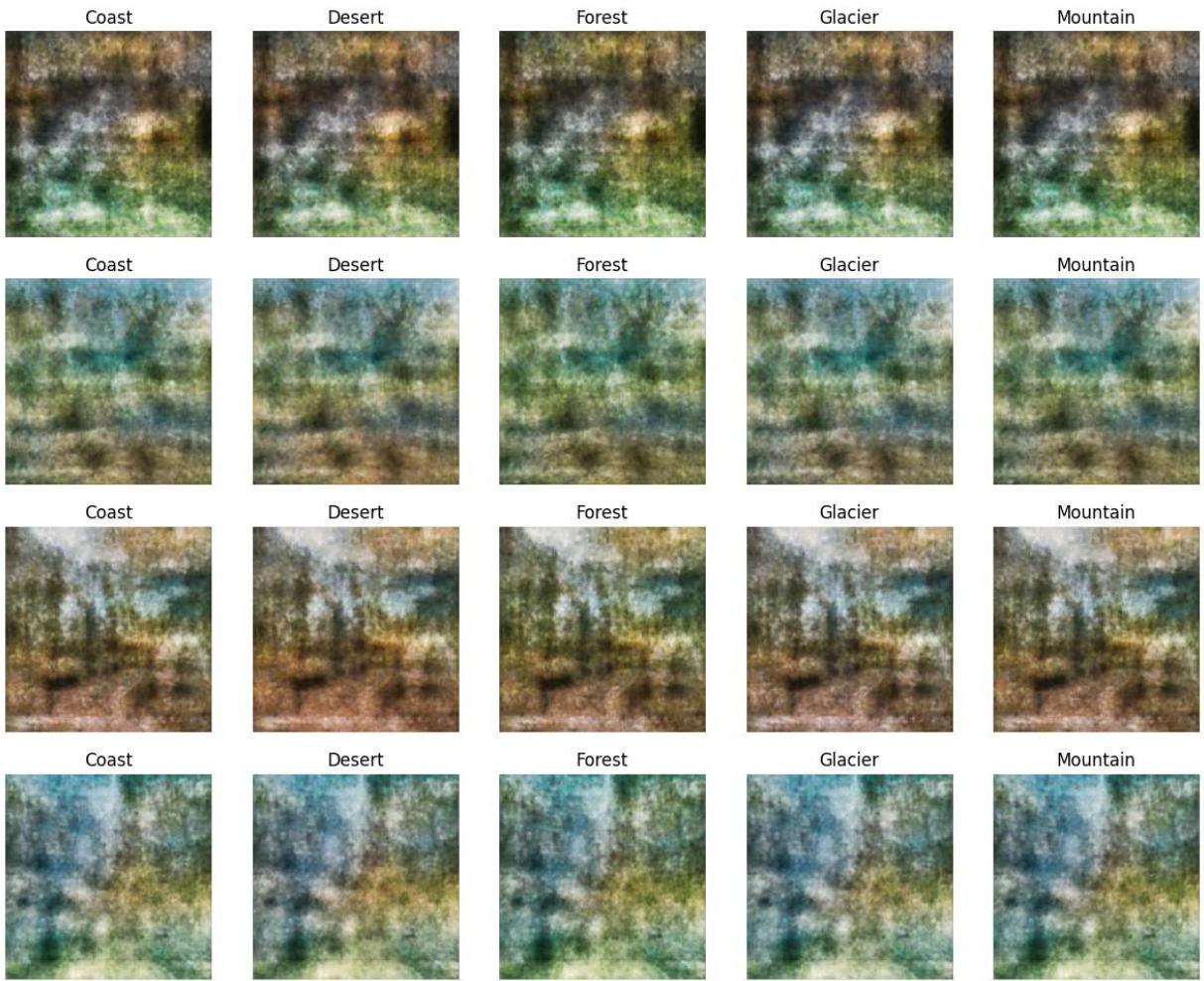
600/600 [=====] - 150s 249ms/step - loss: 110.5202 - reconstruction_error: 82.3703 - regularization_error: 28.1498 - val_loss: 151.1282 - val_reconstruction_error: 122.1692 - val_regularization_error: 28.9590
Epoch 17/100

600/600 [=====] - ETA: 0s - loss: 106.1131 - reconstruction_error: 77.8352 - regularization_error: 28.2779

[2023-11-22 11:52:40.682708]: Generating fixed images for epoch 17 ...



[2023-11-22 11:52:42.238812]: Generating random images for epoch 17 ...



600/600 [=====] - 159s 264ms/step - loss: 106.1131 - reconstruction_error: 77.8352 - regularization_error: 28.2779 - val_loss: 151.5476 - val_reconstruction_error: 123.1917 - val_regularization_error: 28.3559

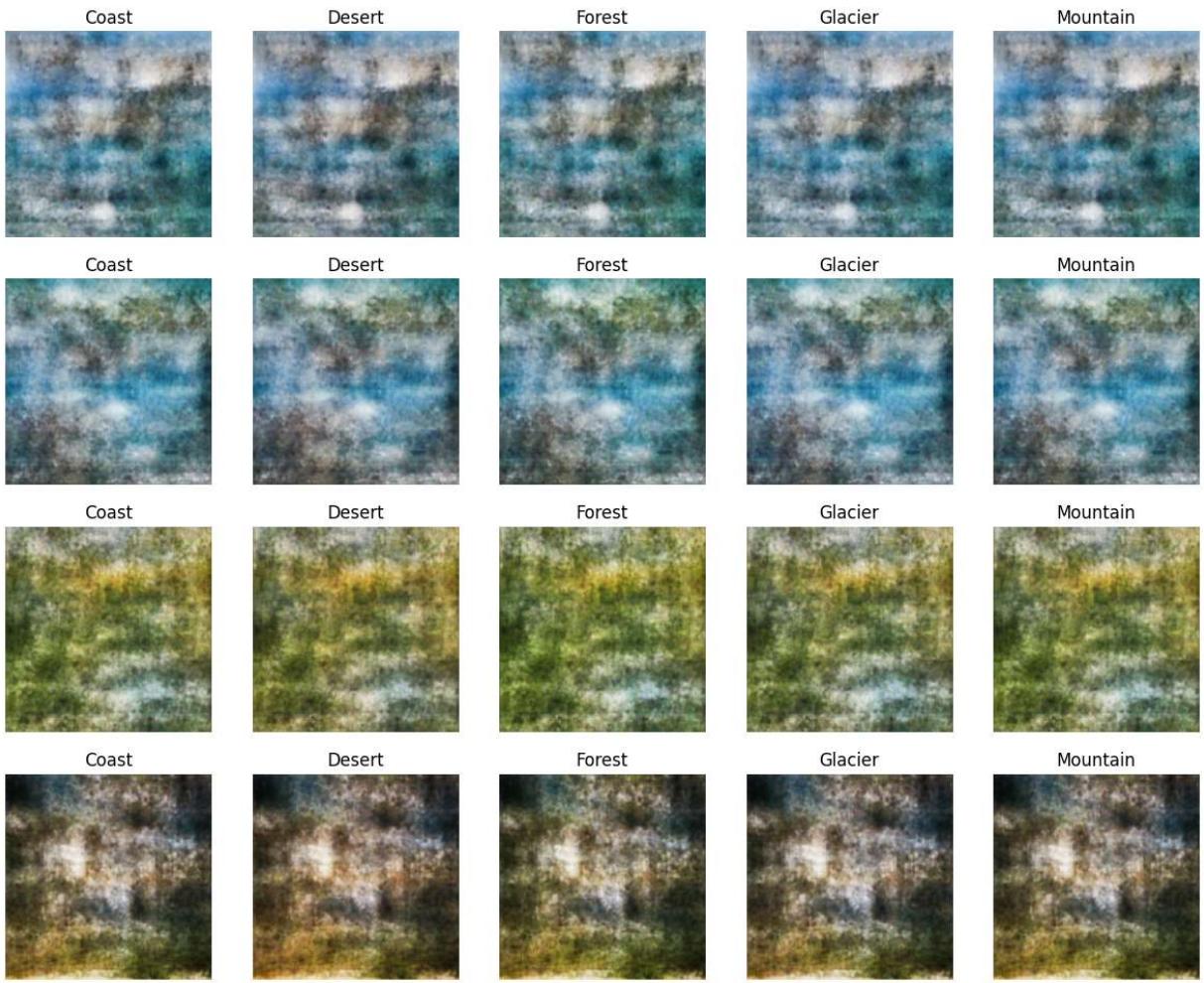
Epoch 18/100

600/600 [=====] - ETA: 0s - loss: 101.9793 - reconstruction_error: 73.6203 - regularization_error: 28.3590

[2023-11-22 11:55:19.963526]: Generating fixed images for epoch 18 ...



[2023-11-22 11:55:21.219836]: Generating random images for epoch 18 ...



600/600 [=====] - 159s 264ms/step - loss: 101.9793 - reconstruction_error: 73.6203 - regularization_error: 28.3590 - val_loss: 154.9373 - val_reconstruction_error: 126.9585 - val_regularization_error: 27.9788

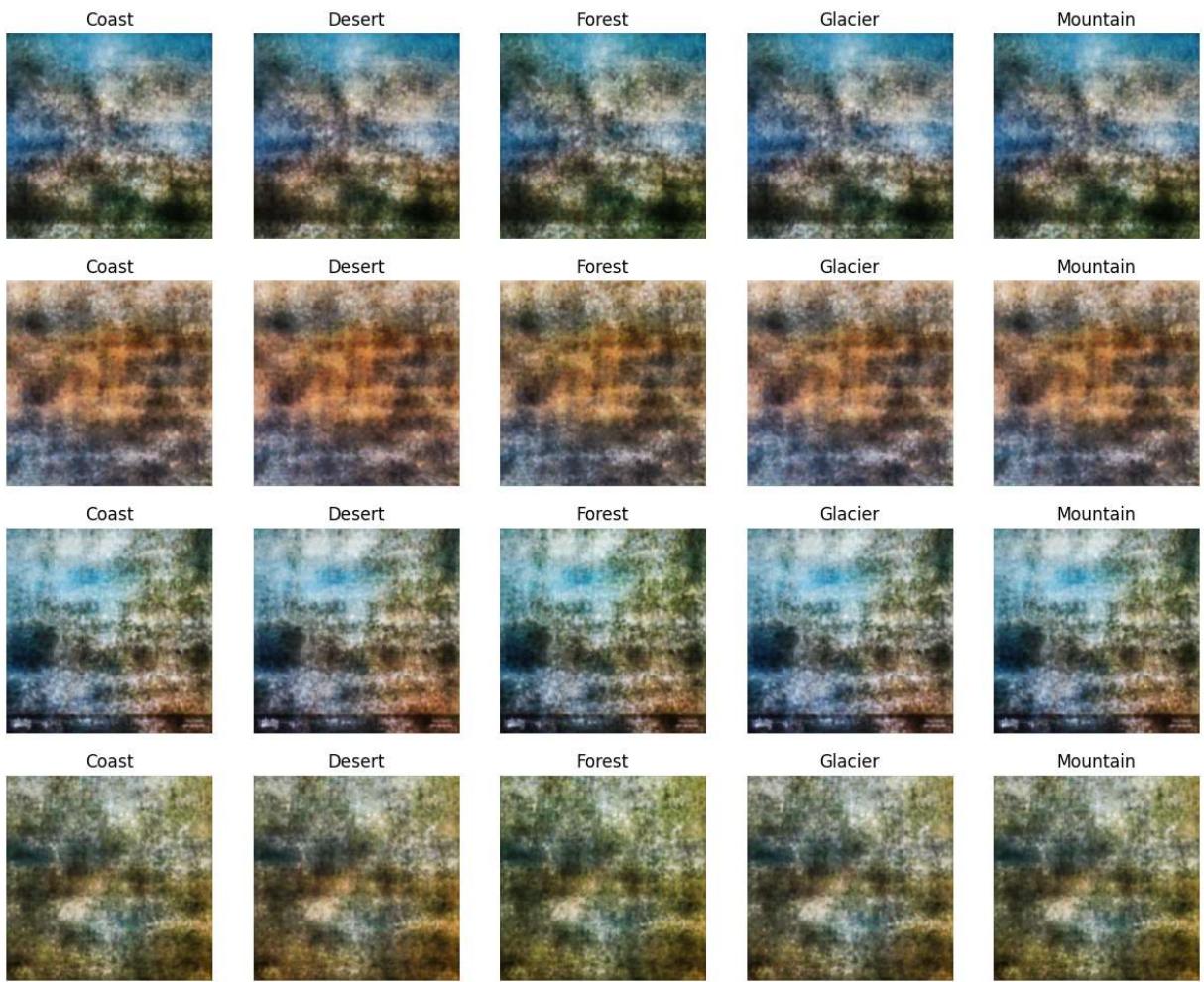
Epoch 19/100

600/600 [=====] - ETA: 0s - loss: 98.5467 - reconstruction_error: 70.0937 - regularization_error: 28.4531

[2023-11-22 11:58:04.391066]: Generating fixed images for epoch 19 ...



[2023-11-22 11:58:05.636169]: Generating random images for epoch 19 ...



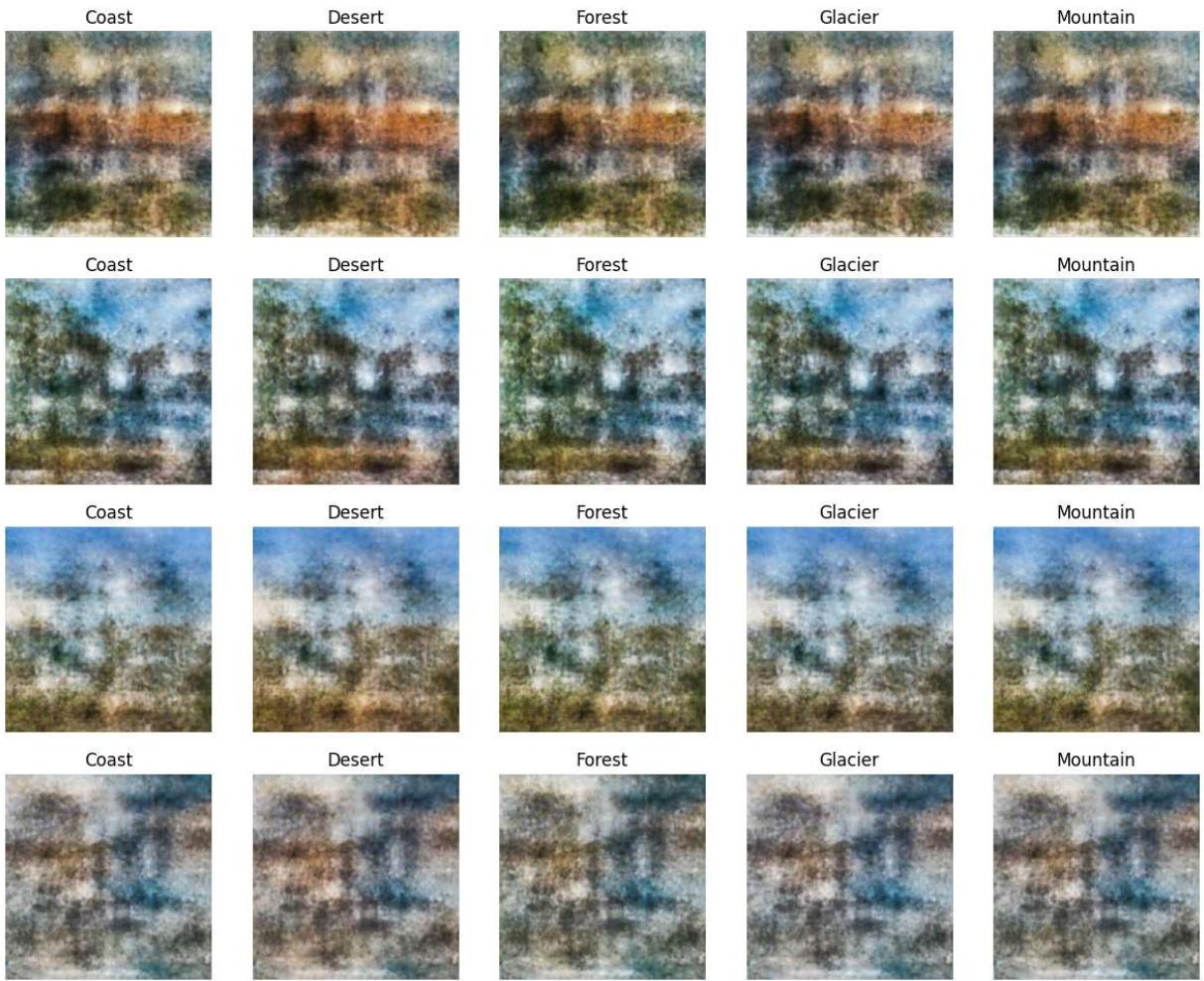
600/600 [=====] - 164s 273ms/step - loss: 98.5467 - reconstruction_error: 70.0937 - regularization_error: 28.4531 - val_loss: 154.7312 - val_reconstruction_error: 125.9727 - val_regularization_error: 28.7584
Epoch 20/100

600/600 [=====] - ETA: 0s - loss: 95.2709 - reconstruction_error: 66.7741 - regularization_error: 28.4968

[2023-11-22 12:00:41.971689]: Generating fixed images for epoch 20 ...



[2023-11-22 12:00:43.133307]: Generating random images for epoch 20 ...



600/600 [=====] - 158s 263ms/step - loss: 95.2709 - reconstruction_error: 66.7741 - regularization_error: 28.4968 - val_loss: 154.5238 - val_reconstruction_error: 126.0026 - val_regularization_error: 28.5213

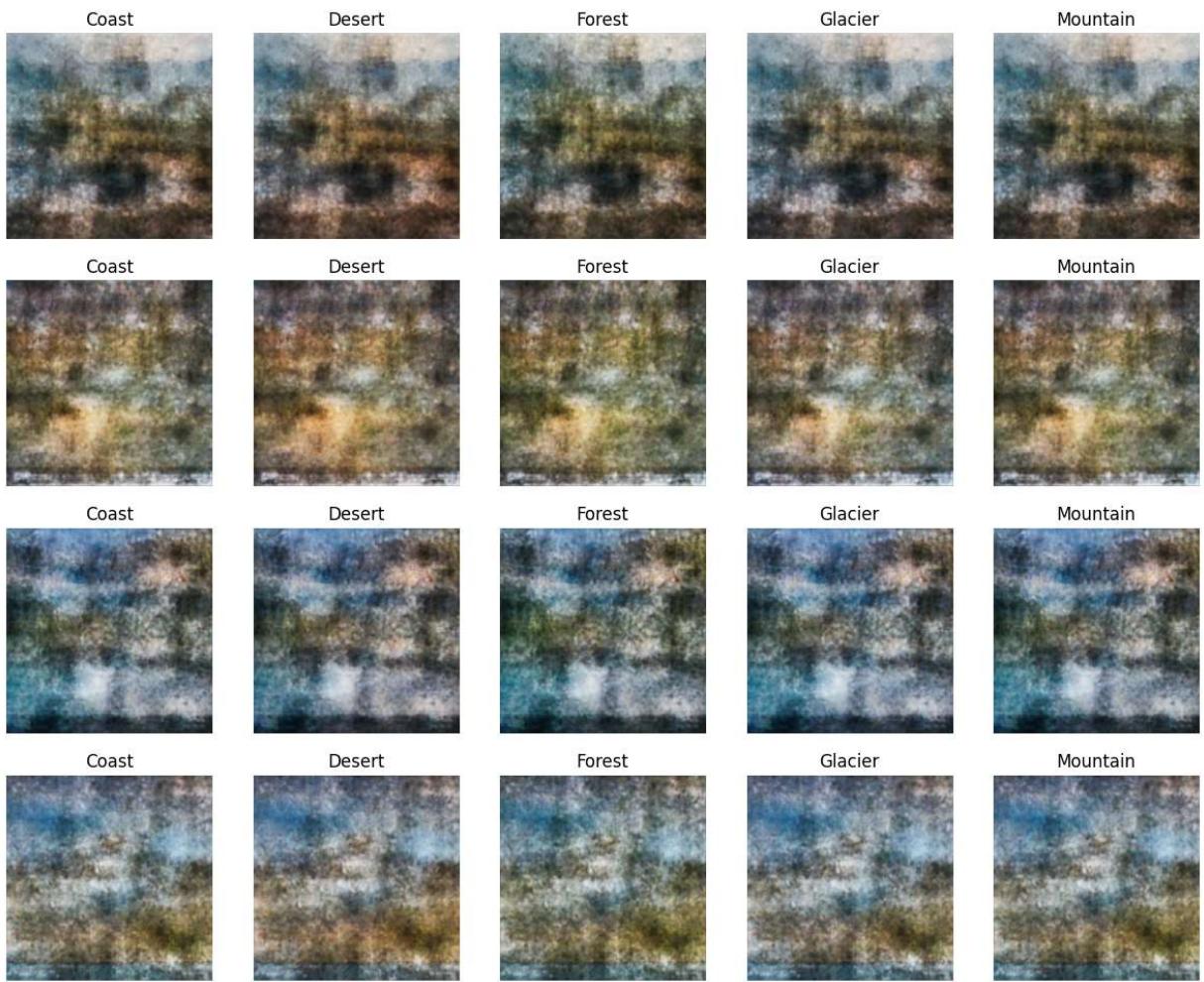
Epoch 21/100

600/600 [=====] - ETA: 0s - loss: 92.5773 - reconstruction_error: 64.0573 - regularization_error: 28.5200

[2023-11-22 12:03:25.844526]: Generating fixed images for epoch 21 ...



[2023-11-22 12:03:27.266116]: Generating random images for epoch 21 ...



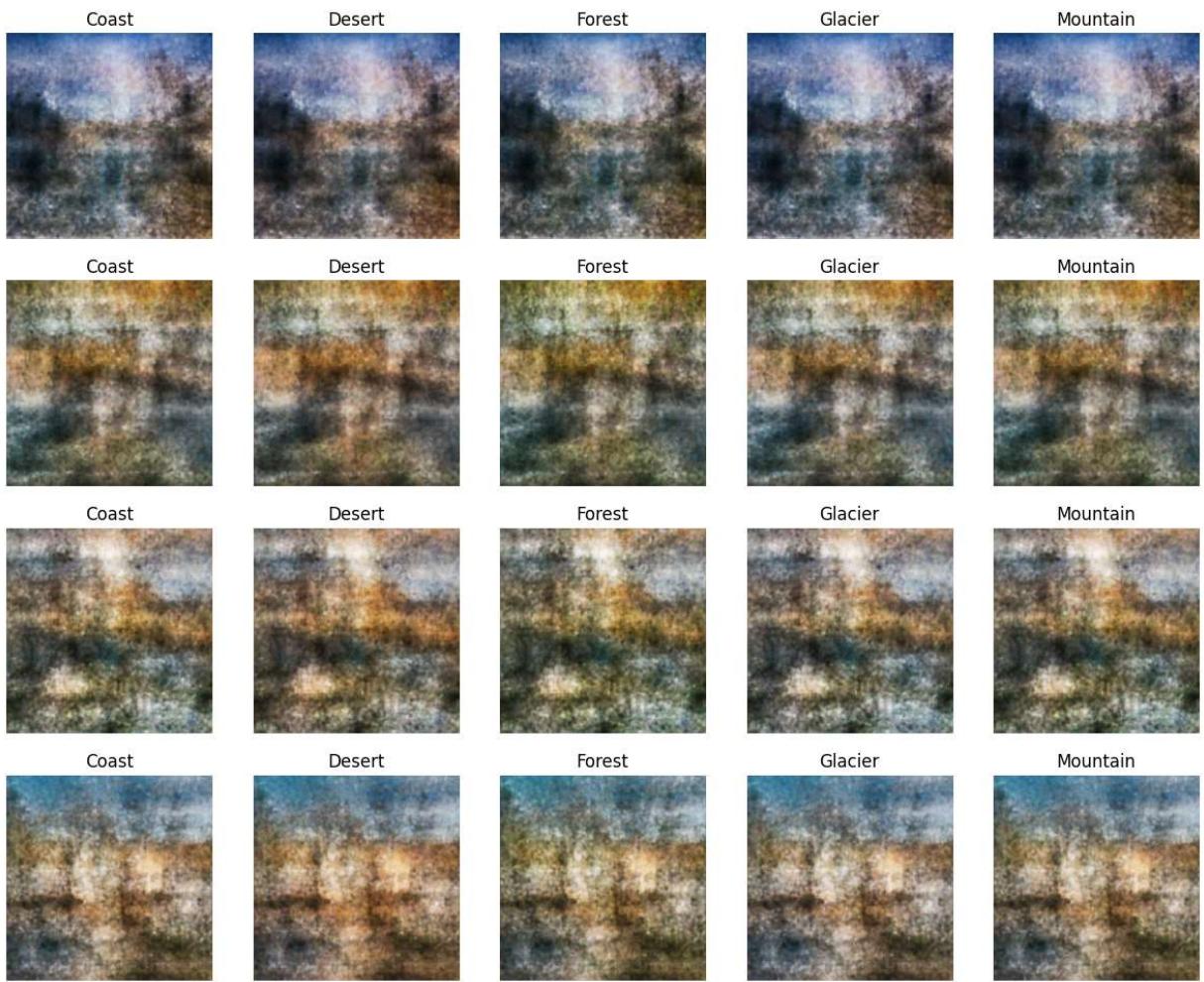
600/600 [=====] - 164s 272ms/step - loss: 92.5773 - reconstruction_error: 64.0573 - regularization_error: 28.5200 - val_loss: 154.6936 - val_reconstruction_error: 126.7218 - val_regularization_error: 27.9718
Epoch 22/100

600/600 [=====] - ETA: 0s - loss: 90.3731 - reconstruction_error: 61.8751 - regularization_error: 28.4979

[2023-11-22 12:06:14.896109]: Generating fixed images for epoch 22 ...



[2023-11-22 12:06:16.181979]: Generating random images for epoch 22 ...



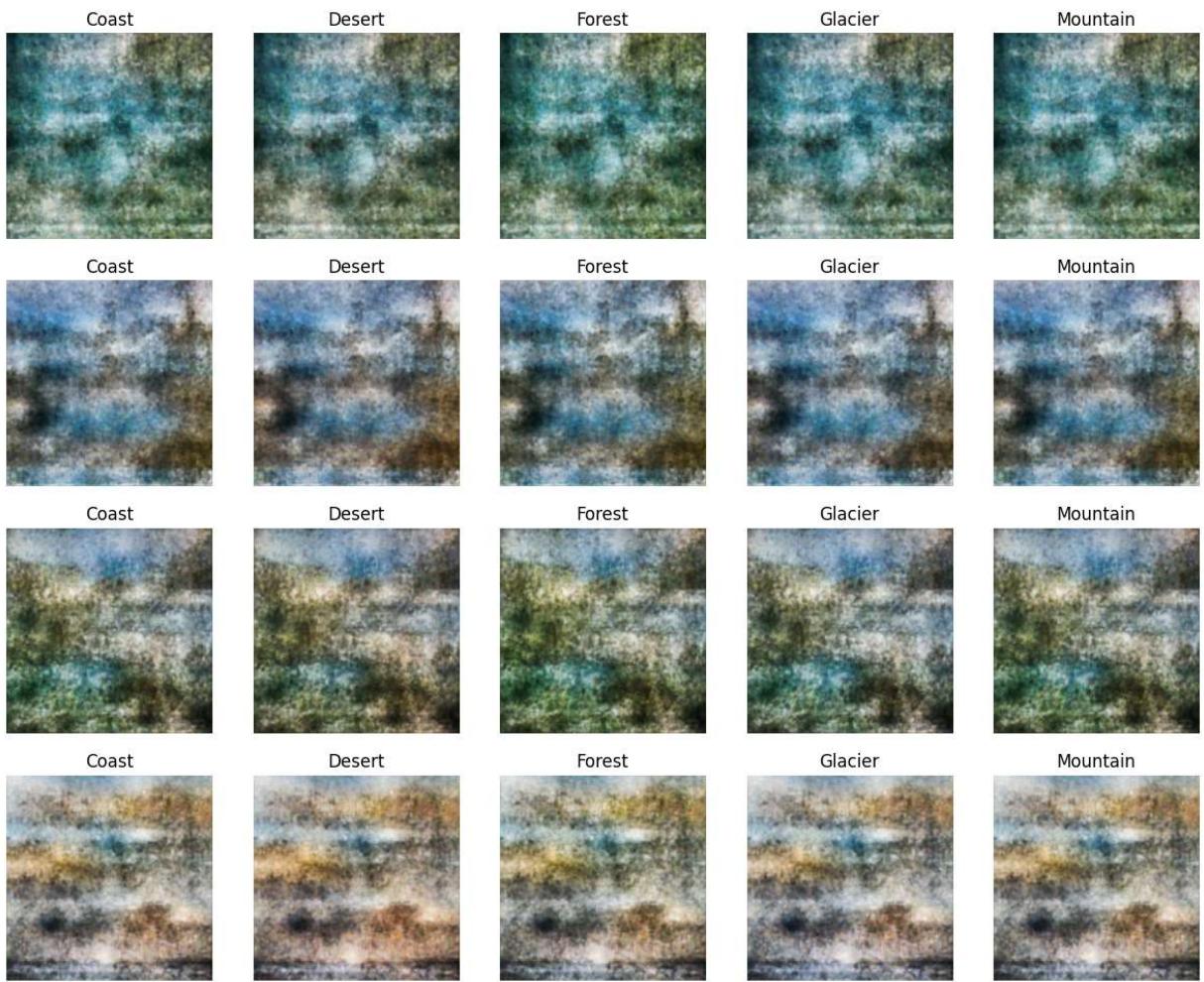
600/600 [=====] - 169s 282ms/step - loss: 90.3731 - reconstruction_error: 61.8751 - regularization_error: 28.4979 - val_loss: 155.4745 - val_reconstruction_error: 127.1616 - val_regularization_error: 28.3130
Epoch 23/100

600/600 [=====] - ETA: 0s - loss: 88.2476 - reconstruction_error: 59.7438 - regularization_error: 28.5037

[2023-11-22 12:08:52.978482]: Generating fixed images for epoch 23 ...



[2023-11-22 12:08:54.205468]: Generating random images for epoch 23 ...



600/600 [=====] - 158s 262ms/step - loss: 88.2476 - reconstruction_error: 59.7438 - regularization_error: 28.5037 - val_loss: 155.8069 - val_reconstruction_error: 126.3700 - val_regularization_error: 29.4369

Epoch 24/100

600/600 [=====] - ETA: 0s - loss: 86.6028 - reconstruction_error: 58.1016 - regularization_error: 28.5012

[2023-11-22 12:11:30.603465]: Generating fixed images for epoch 24 ...



[2023-11-22 12:11:31.784522]: Generating random images for epoch 24 ...



600/600 [=====] - 158s 263ms/step - loss: 86.6028 - reconstruction_error: 58.1016 - regularization_error: 28.5012 - val_loss: 159.2959 - val_reconstruction_error: 131.1568 - val_regularization_error: 28.1391

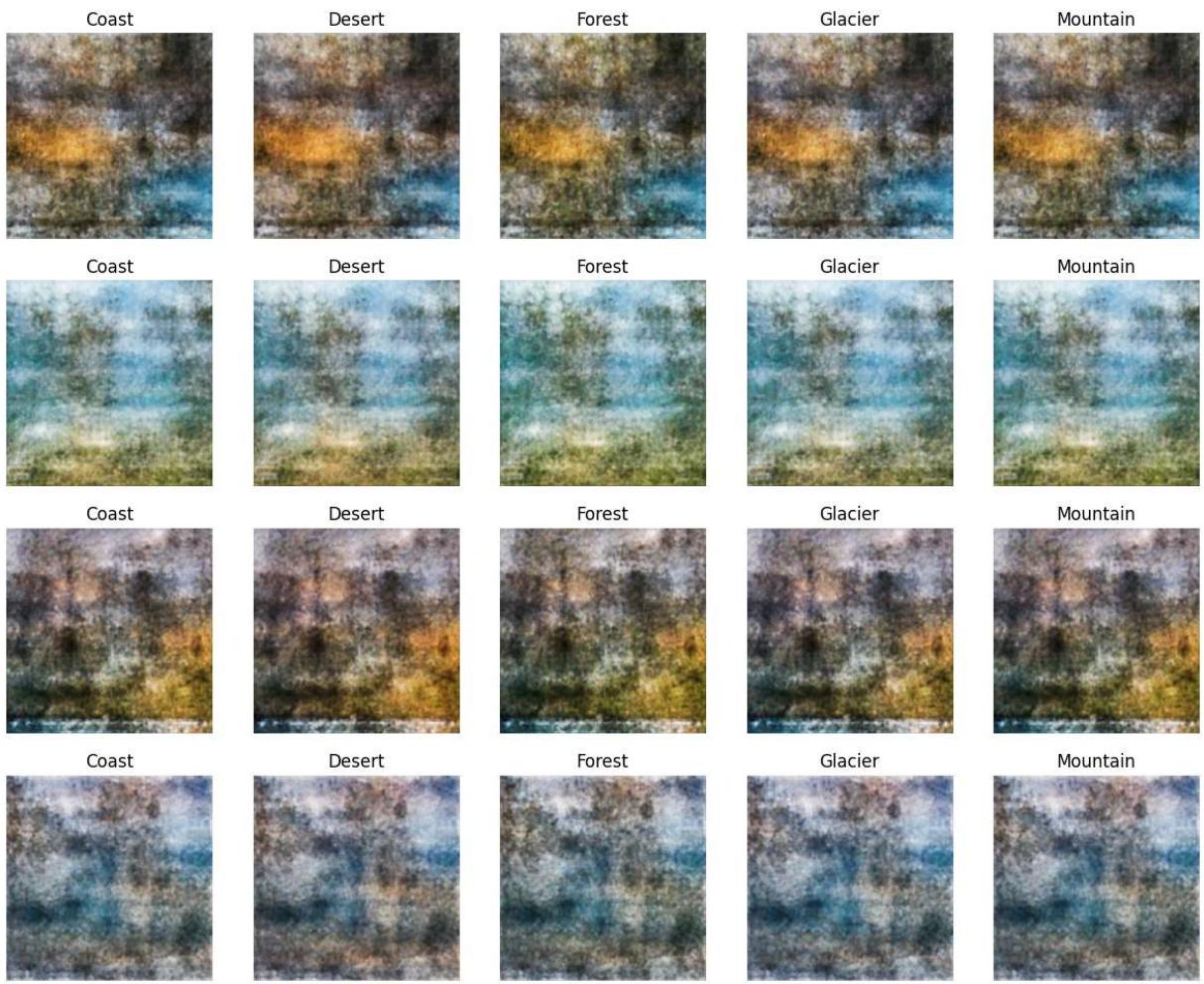
Epoch 25/100

600/600 [=====] - ETA: 0s - loss: 84.9369 - reconstruction_error: 56.5018 - regularization_error: 28.4351

[2023-11-22 12:14:17.571698]: Generating fixed images for epoch 25 ...



[2023-11-22 12:14:19.181488]: Generating random images for epoch 25 ...



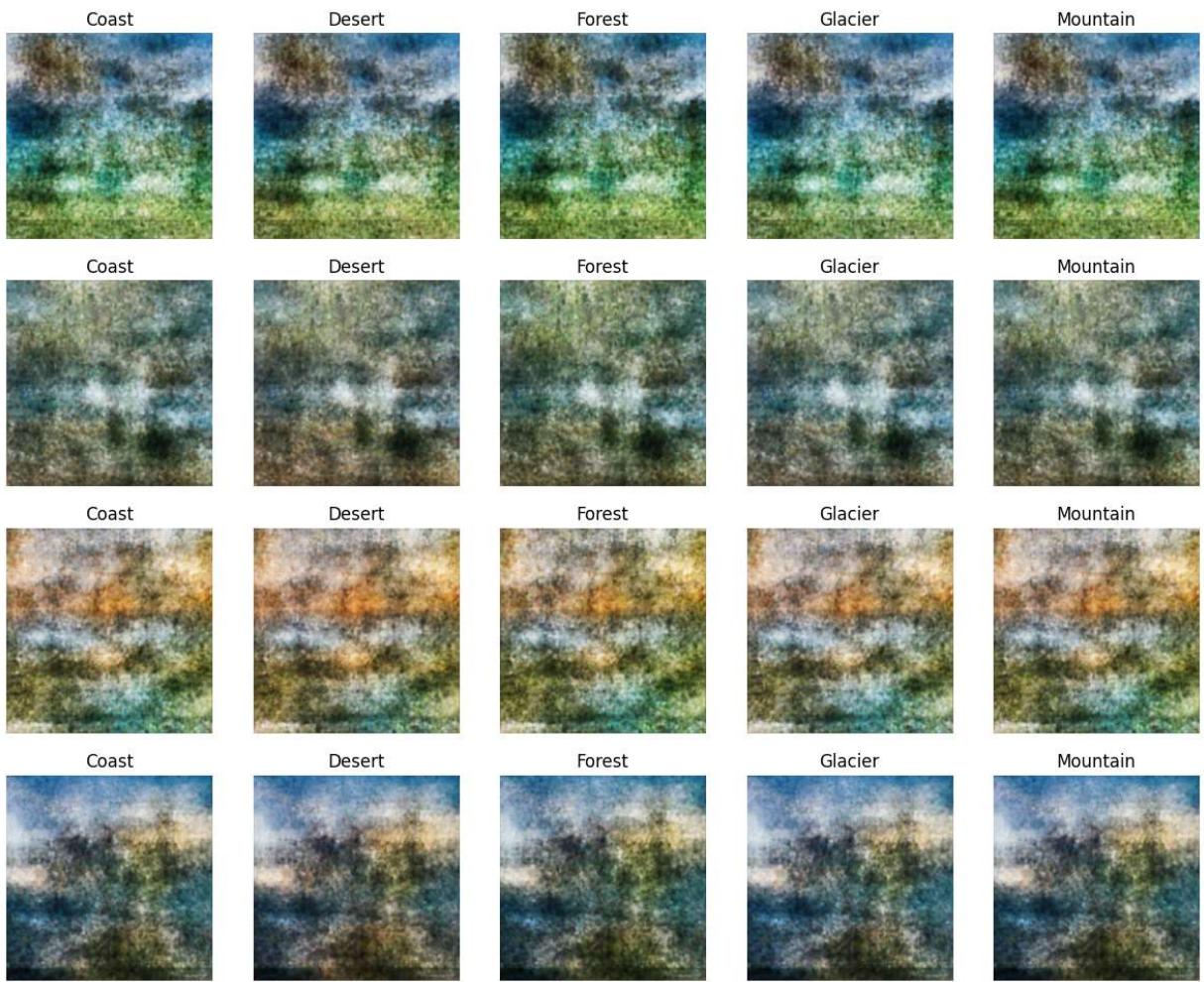
600/600 [=====] - 168s 280ms/step - loss: 84.9369 - reconstruction_error: 56.5018 - regularization_error: 28.4351 - val_loss: 160.7224 - val_reconstruction_error: 132.7305 - val_regularization_error: 27.9919
Epoch 26/100

600/600 [=====] - ETA: 0s - loss: 83.6048 - reconstruction_error: 55.2283 - regularization_error: 28.3765

[2023-11-22 12:16:54.764697]: Generating fixed images for epoch 26 ...



[2023-11-22 12:16:55.859105]: Generating random images for epoch 26 ...

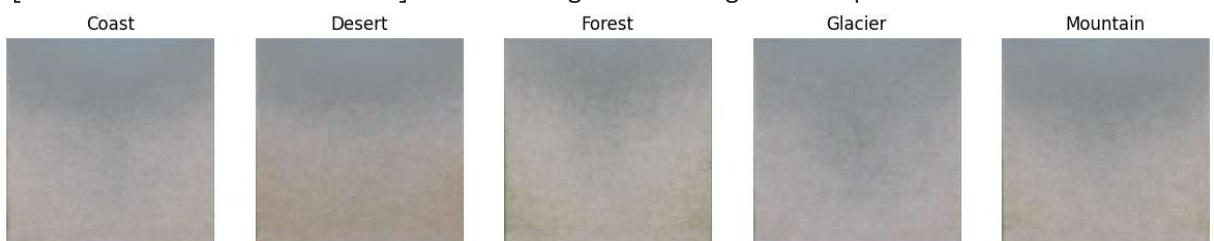


600/600 [=====] - 157s 261ms/step - loss: 83.6048 - reconstruction_error: 55.2283 - regularization_error: 28.3765 - val_loss: 157.3855 - val_reconstruction_error: 129.0745 - val_regularization_error: 28.3109

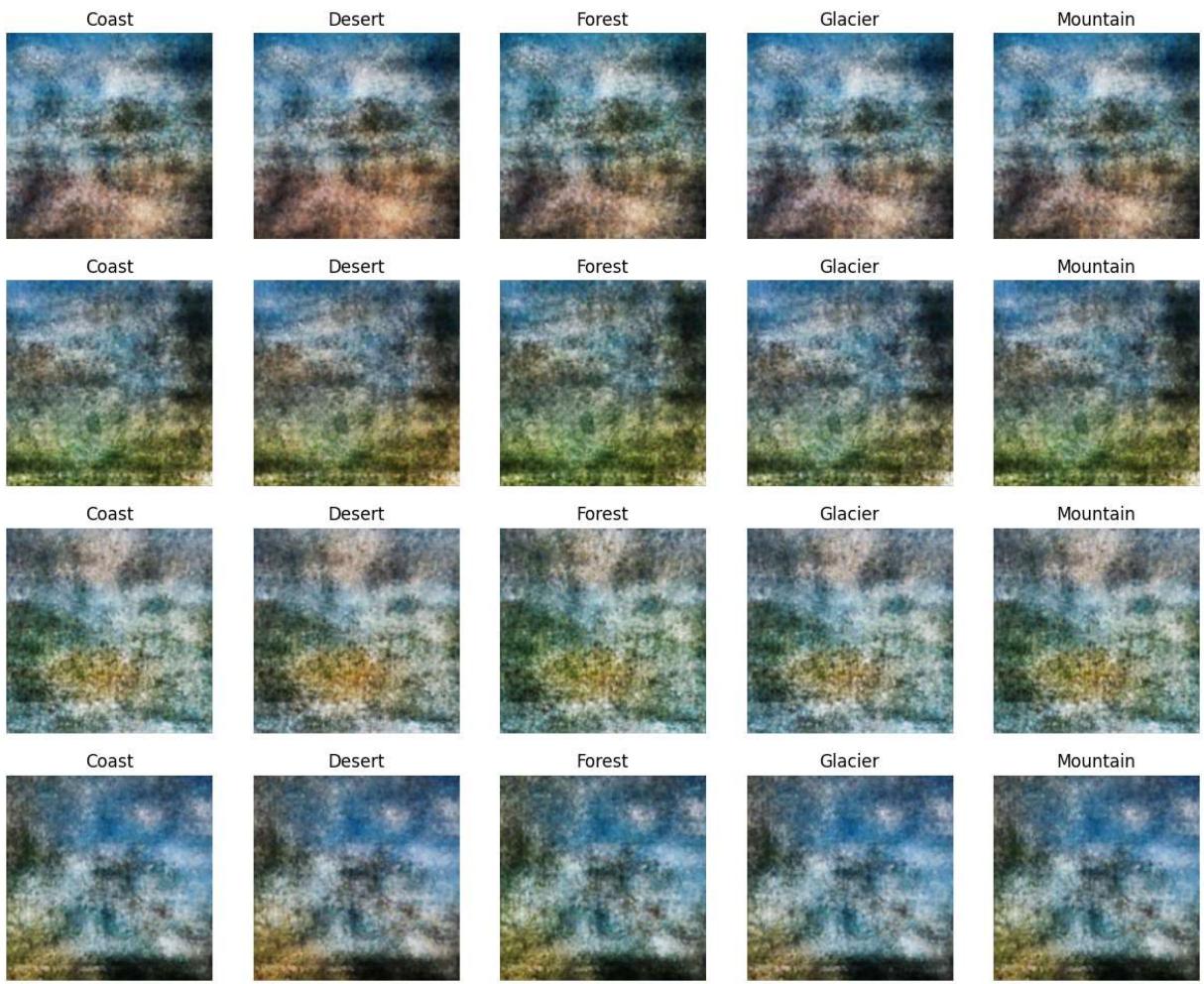
Epoch 27/100

600/600 [=====] - ETA: 0s - loss: 82.2424 - reconstruction_error: 53.8884 - regularization_error: 28.3540

[2023-11-22 12:19:32.249469]: Generating fixed images for epoch 27 ...



[2023-11-22 12:19:33.503682]: Generating random images for epoch 27 ...



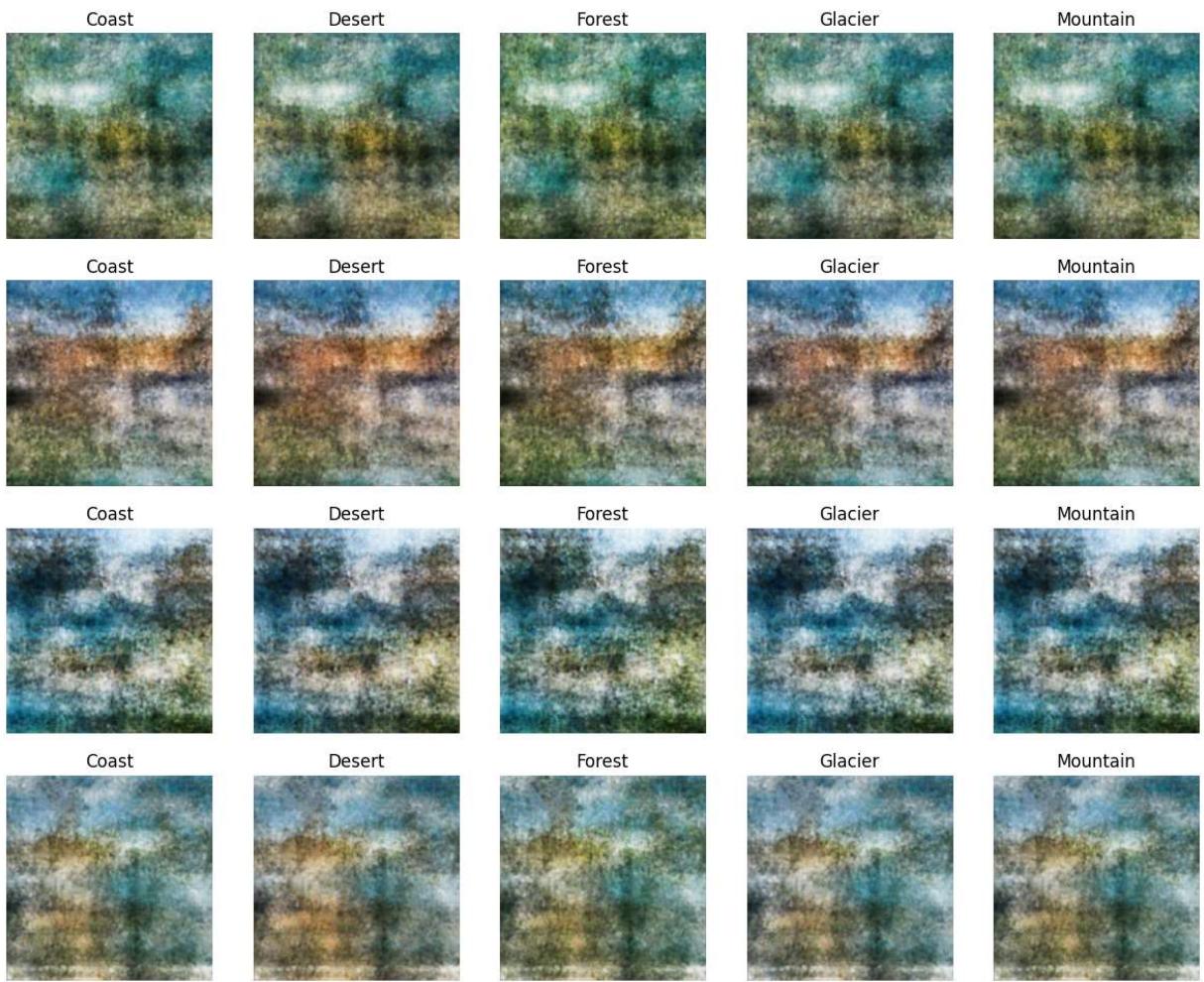
600/600 [=====] - 157s 260ms/step - loss: 82.2424 - reconstruction_error: 53.8884 - regularization_error: 28.3540 - val_loss: 158.5041 - val_reconstruction_error: 131.0796 - val_regularization_error: 27.4245
Epoch 28/100

600/600 [=====] - ETA: 0s - loss: 81.0048 - reconstruction_error: 52.7015 - regularization_error: 28.3033

[2023-11-22 12:22:06.227897]: Generating fixed images for epoch 28 ...



[2023-11-22 12:22:07.486135]: Generating random images for epoch 28 ...



600/600 [=====] - 154s 257ms/step - loss: 81.0048 - reconstruction_error: 52.7015 - regularization_error: 28.3033 - val_loss: 159.6566 - val_reconstruction_error: 132.2186 - val_regularization_error: 27.4380

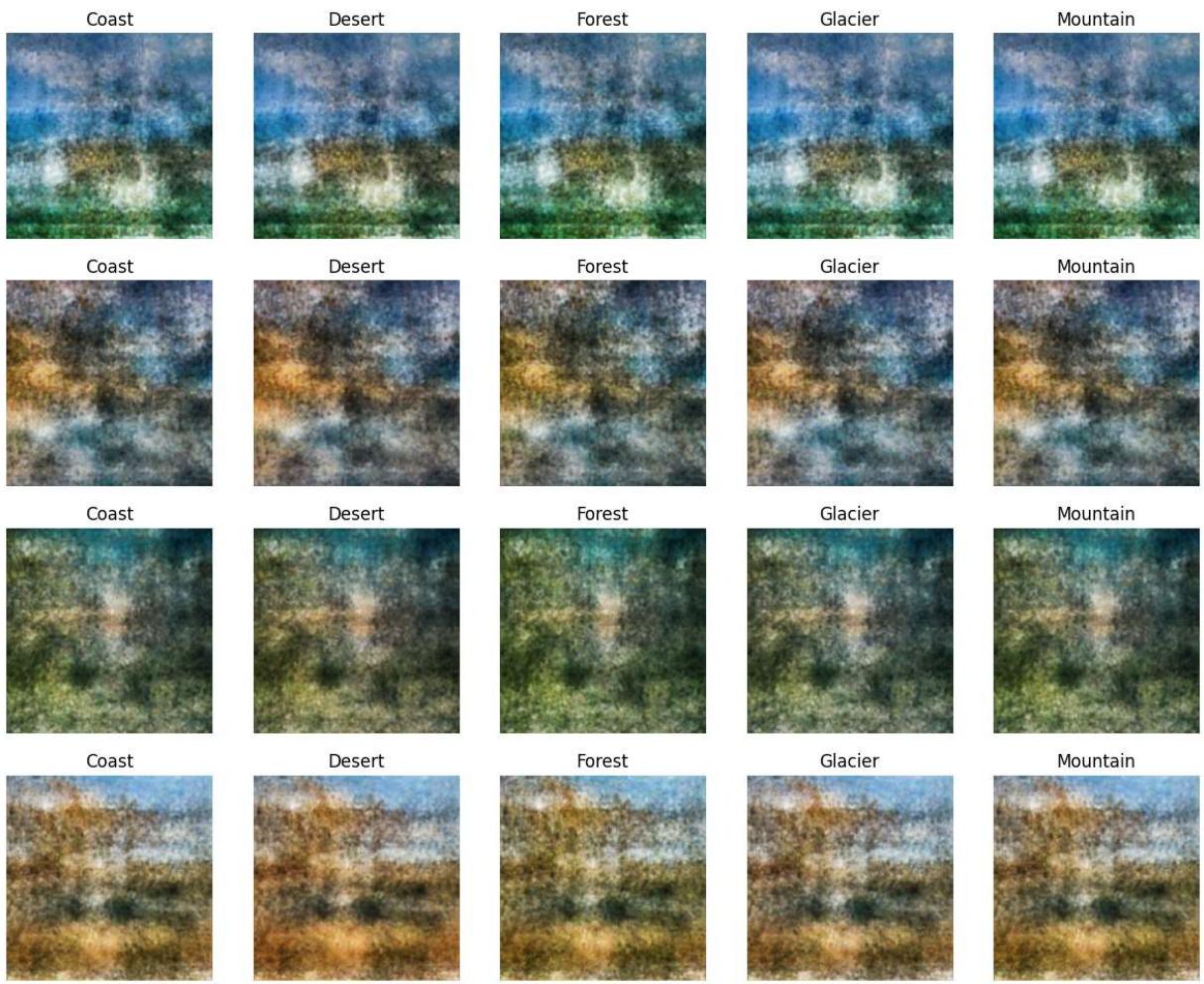
Epoch 29/100

600/600 [=====] - ETA: 0s - loss: 79.6765 - reconstruction_error: 51.4224 - regularization_error: 28.2542

[2023-11-22 12:24:45.395632]: Generating fixed images for epoch 29 ...



[2023-11-22 12:24:47.294905]: Generating random images for epoch 29 ...



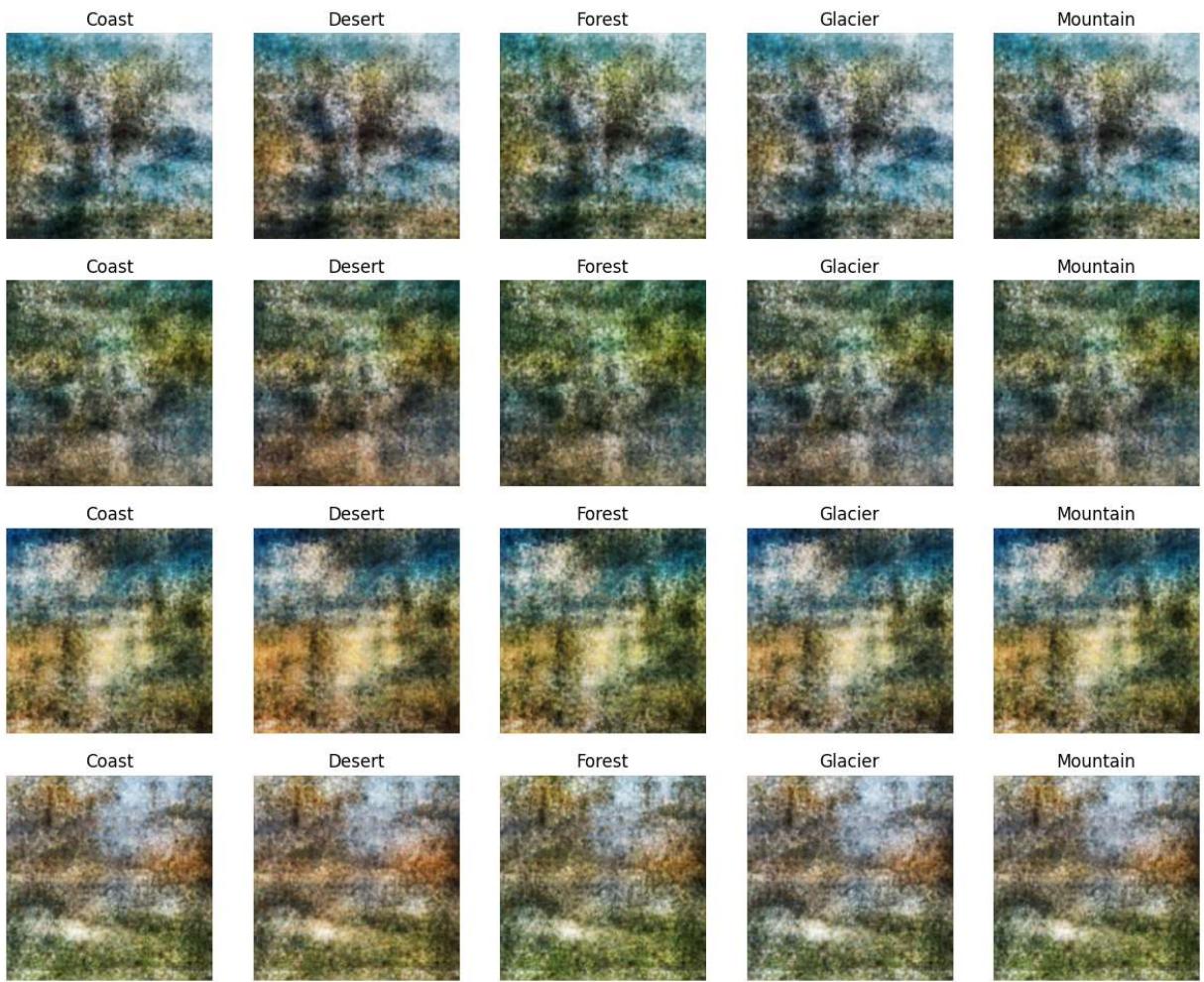
600/600 [=====] - 160s 266ms/step - loss: 79.6765 - reconstruction_error: 51.4224 - regularization_error: 28.2542 - val_loss: 159.9089 - val_reconstruction_error: 131.9587 - val_regularization_error: 27.9502
Epoch 30/100

600/600 [=====] - ETA: 0s - loss: 78.9493 - reconstruction_error: 50.7563 - regularization_error: 28.1931

[2023-11-22 12:27:26.568720]: Generating fixed images for epoch 30 ...



[2023-11-22 12:27:27.767148]: Generating random images for epoch 30 ...



600/600 [=====] - 160s 267ms/step - loss: 78.9493 - reconstruction_error: 50.7563 - regularization_error: 28.1931 - val_loss: 159.1153 - val_reconstruction_error: 131.7564 - val_regularization_error: 27.3589
Epoch 31/100

600/600 [=====] - ETA: 0s - loss: 77.9565 - reconstruction_error: 49.8146 - regularization_error: 28.1419

[2023-11-22 12:30:04.424144]: Generating fixed images for epoch 31 ...



[2023-11-22 12:30:06.295949]: Generating random images for epoch 31 ...



600/600 [=====] - 158s 263ms/step - loss: 77.9565 - reconstruction_error: 49.8146 - regularization_error: 28.1419 - val_loss: 159.2983 - val_reconstruction_error: 131.5178 - val_regularization_error: 27.7805

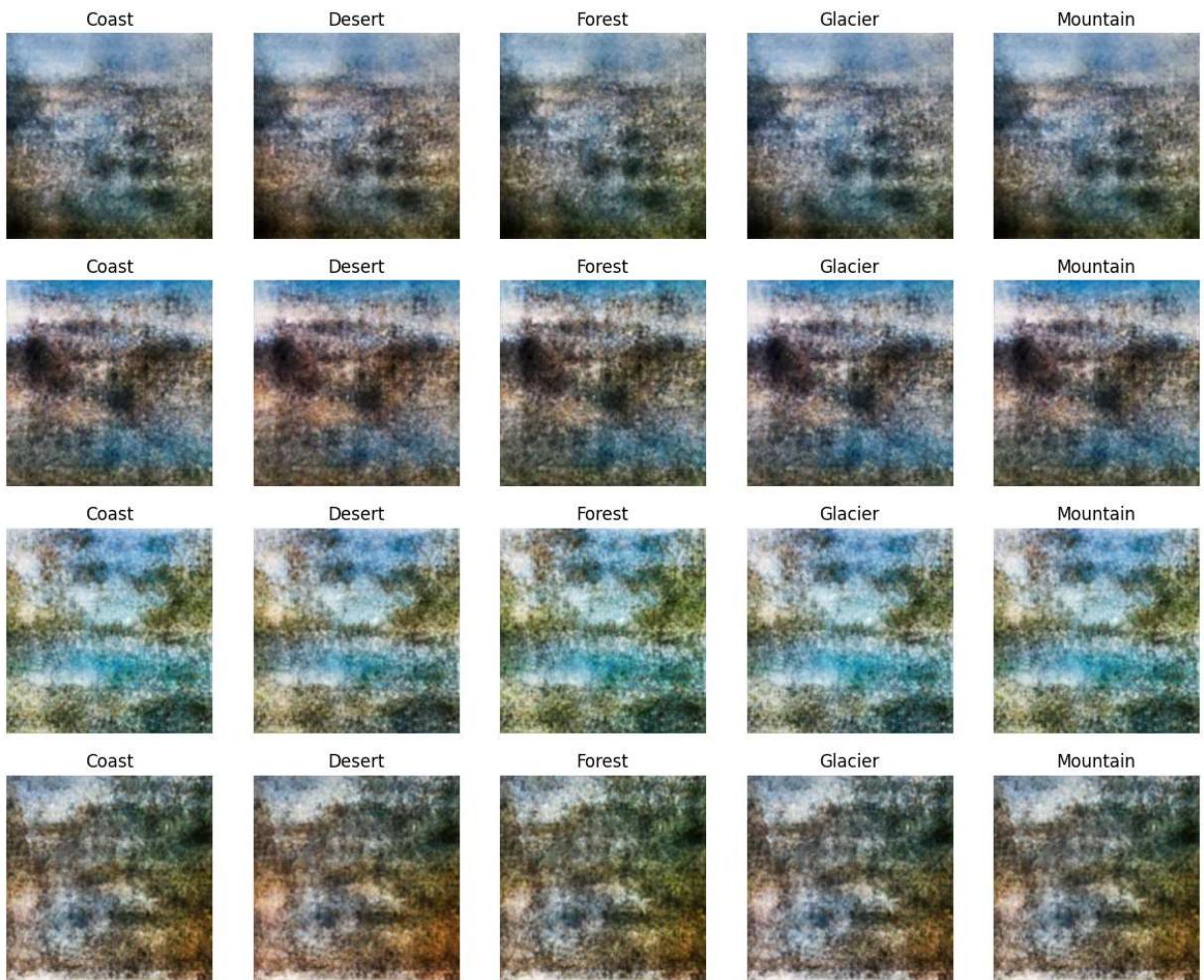
Epoch 32/100

600/600 [=====] - ETA: 0s - loss: 76.9931 - reconstruction_error: 48.8848 - regularization_error: 28.1083

[2023-11-22 12:32:48.643888]: Generating fixed images for epoch 32 ...



[2023-11-22 12:32:50.183733]: Generating random images for epoch 32 ...



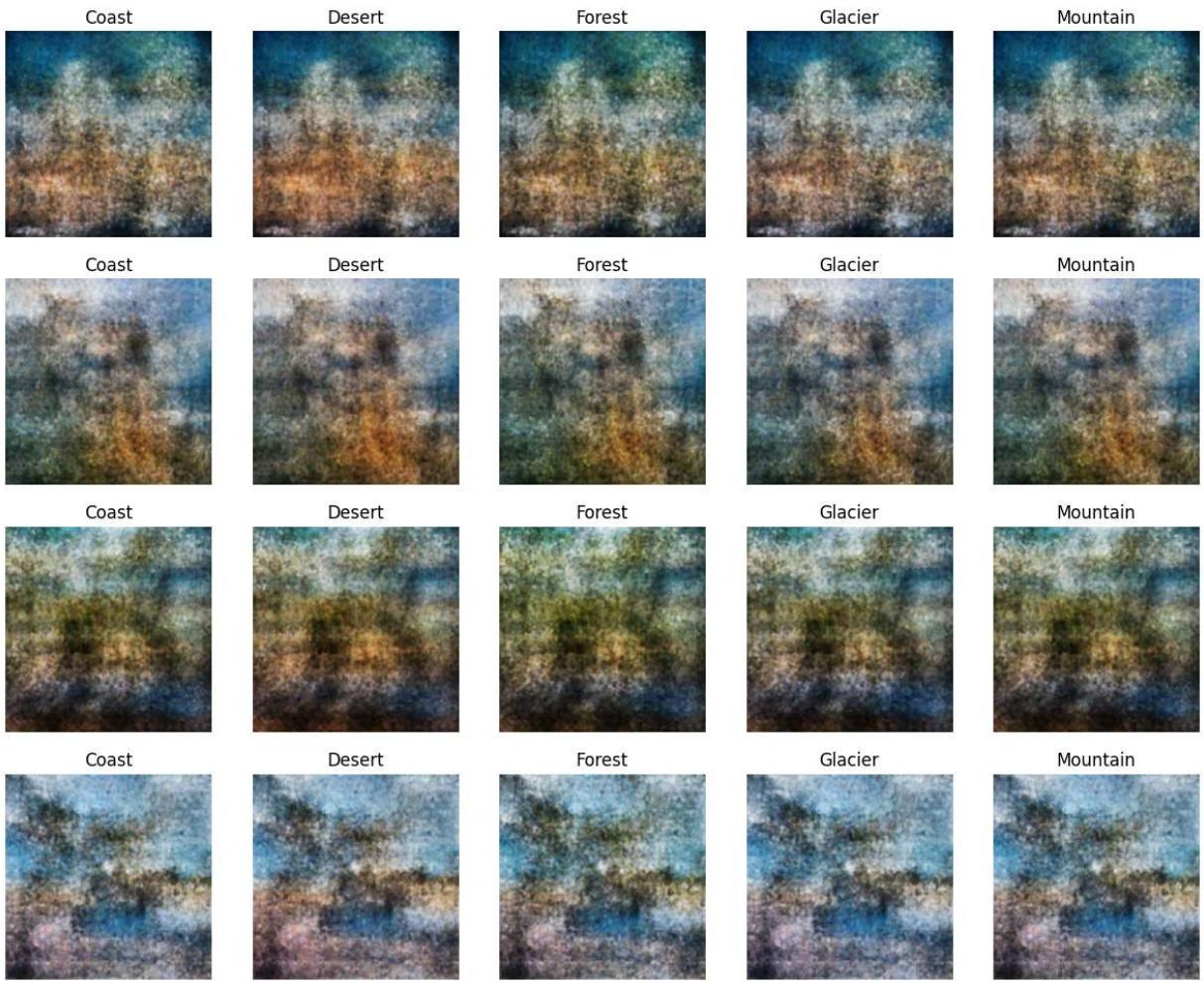
600/600 [=====] - 164s 273ms/step - loss: 76.9931 - reconstruction_error: 48.8848 - regularization_error: 28.1083 - val_loss: 160.1396 - val_reconstruction_error: 132.6654 - val_regularization_error: 27.4742
Epoch 33/100

600/600 [=====] - ETA: 0s - loss: 76.2894 - reconstruction_error: 48.2353 - regularization_error: 28.0540

[2023-11-22 12:35:23.906342]: Generating fixed images for epoch 33 ...



[2023-11-22 12:35:25.242605]: Generating random images for epoch 33 ...



600/600 [=====] - 154s 257ms/step - loss: 76.2894 - reconstruction_error: 48.2353 - regularization_error: 28.0540 - val_loss: 161.5816 - val_reconstruction_error: 133.0747 - val_regularization_error: 28.5070
Epoch 34/100

600/600 [=====] - ETA: 0s - loss: 75.5455 - reconstruction_error: 47.5502 - regularization_error: 27.9954

[2023-11-22 12:37:49.361987]: Generating fixed images for epoch 34 ...



[2023-11-22 12:37:50.488177]: Generating random images for epoch 34 ...



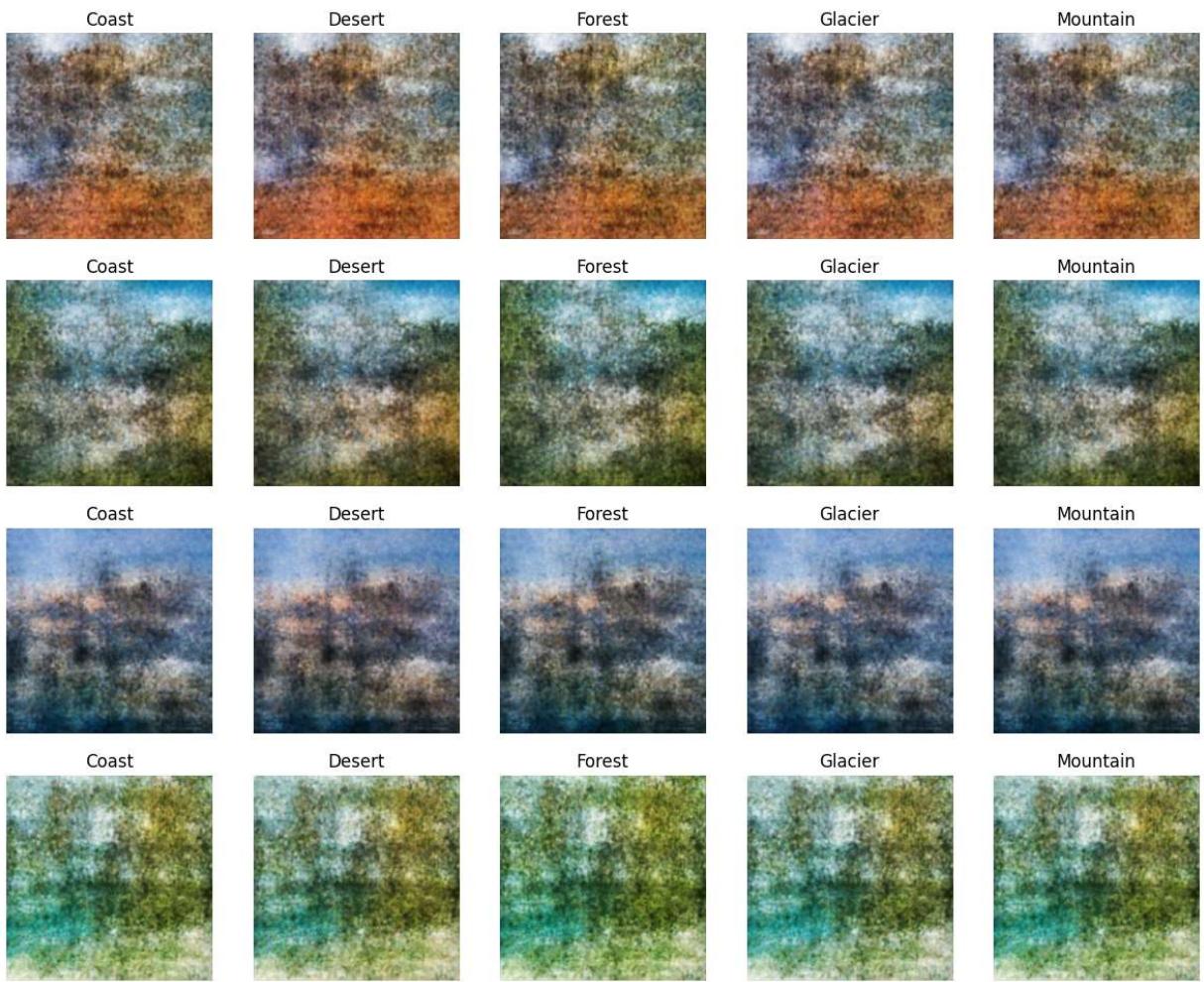
600/600 [=====] - 145s 242ms/step - loss: 75.5455 - reconstruction_error: 47.5502 - regularization_error: 27.9954 - val_loss: 161.6775 - val_reconstruction_error: 135.0379 - val_regularization_error: 26.6396
Epoch 35/100

600/600 [=====] - ETA: 0s - loss: 74.6690 - reconstruction_error: 46.7332 - regularization_error: 27.9358

[2023-11-22 12:40:25.792179]: Generating fixed images for epoch 35 ...



[2023-11-22 12:40:27.248204]: Generating random images for epoch 35 ...



600/600 [=====] - 157s 262ms/step - loss: 74.6690 - reconstruction_error: 46.7332 - regularization_error: 27.9358 - val_loss: 160.7464 - val_reconstruction_error: 133.0798 - val_regularization_error: 27.6665

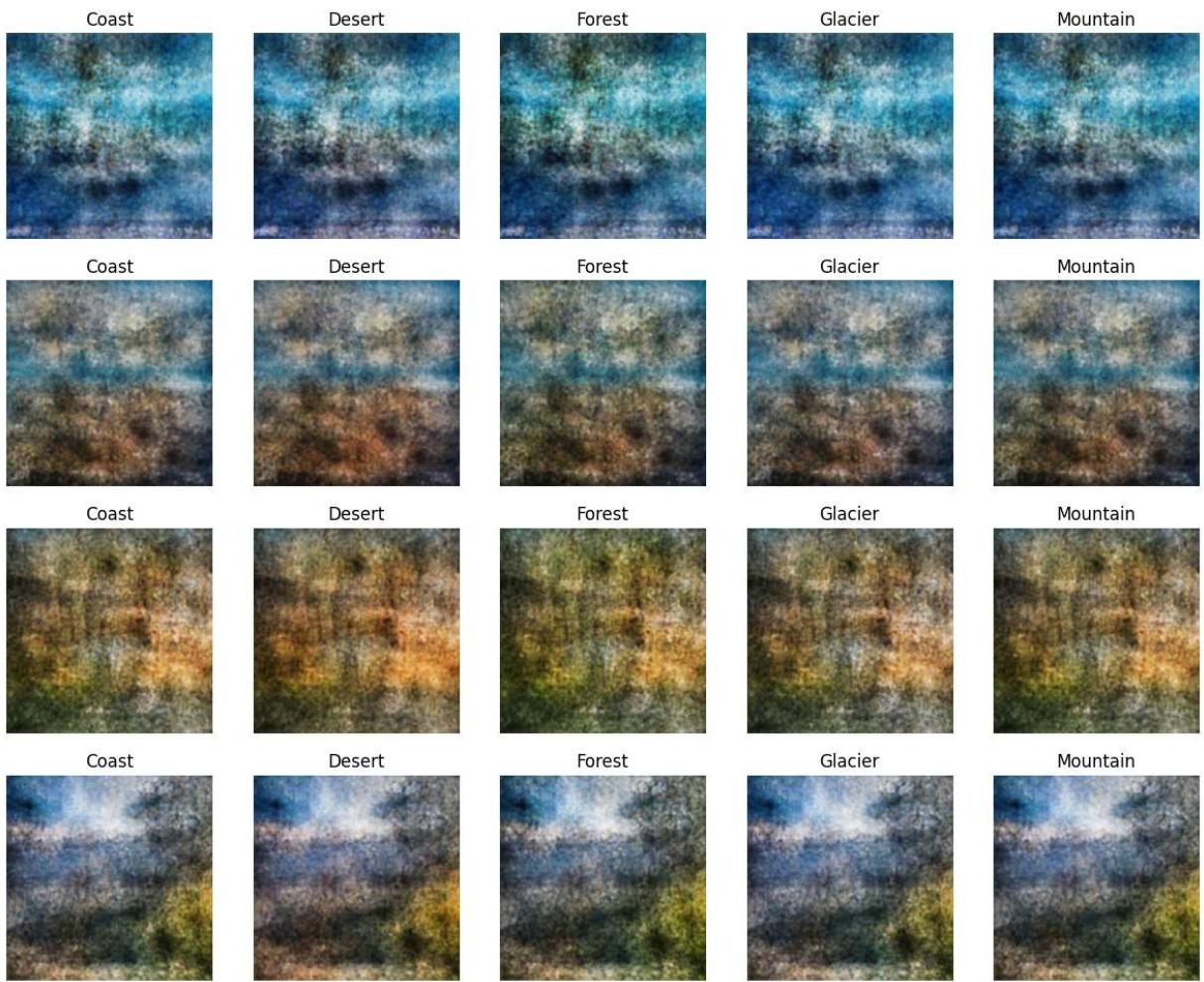
Epoch 36/100

600/600 [=====] - ETA: 0s - loss: 73.9602 - reconstruction_error: 46.0760 - regularization_error: 27.8842

[2023-11-22 12:42:56.292292]: Generating fixed images for epoch 36 ...



[2023-11-22 12:42:57.382909]: Generating random images for epoch 36 ...



600/600 [=====] - 150s 250ms/step - loss: 73.9602 - reconstruction_error: 46.0760 - regularization_error: 27.8842 - val_loss: 160.9525 - val_reconstruction_error: 133.7163 - val_regularization_error: 27.2362
Epoch 37/100

600/600 [=====] - ETA: 0s - loss: 73.2704 - reconstruction_error: 45.4370 - regularization_error: 27.8334

[2023-11-22 12:45:35.755772]: Generating fixed images for epoch 37 ...



[2023-11-22 12:45:37.202627]: Generating random images for epoch 37 ...



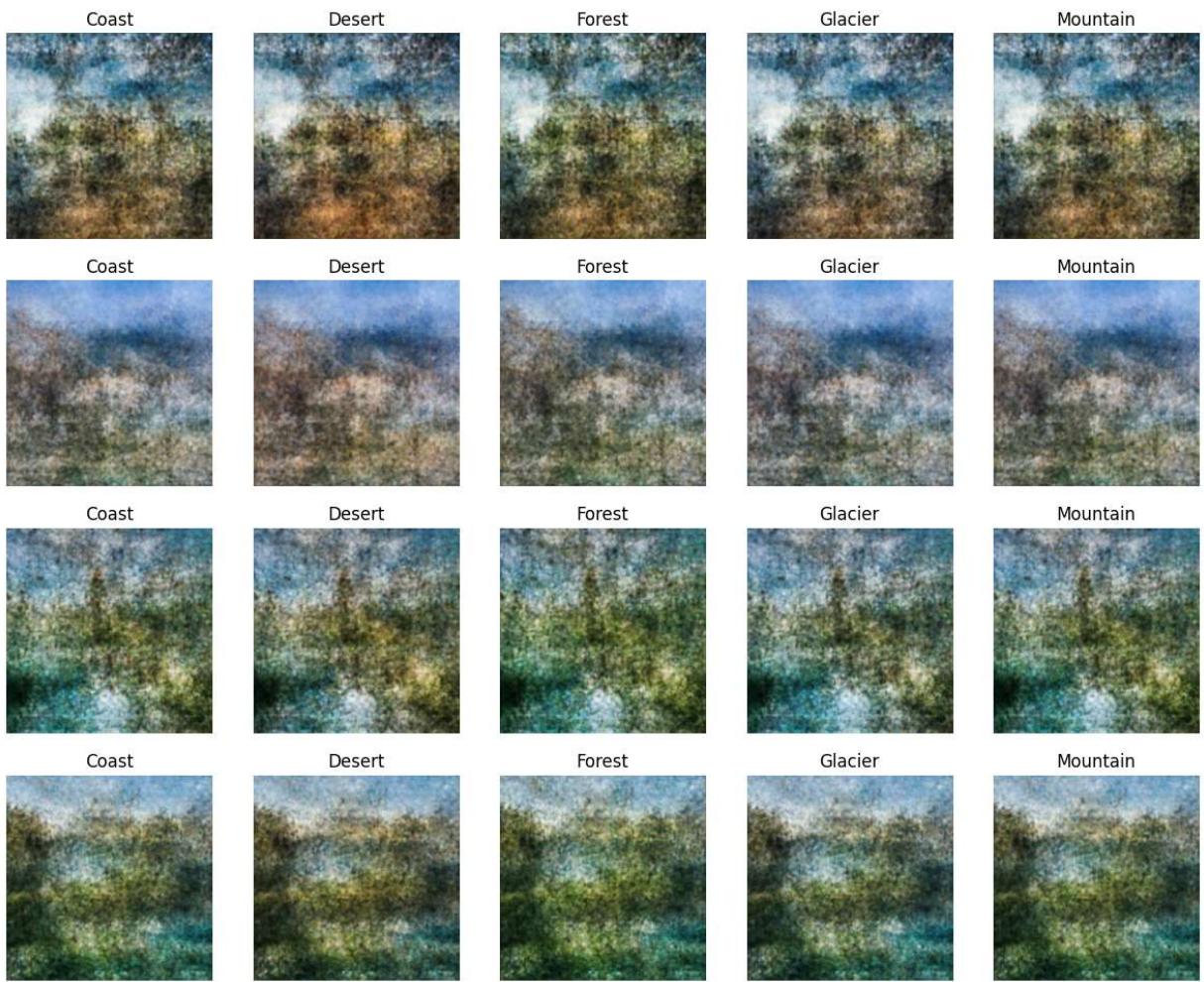
600/600 [=====] - 159s 265ms/step - loss: 73.2704 - reconstruction_error: 45.4370 - regularization_error: 27.8334 - val_loss: 161.4663 - val_reconstruction_error: 133.9902 - val_regularization_error: 27.4762
Epoch 38/100

600/600 [=====] - ETA: 0s - loss: 72.6060 - reconstruction_error: 44.8331 - regularization_error: 27.7729

[2023-11-22 12:48:12.005689]: Generating fixed images for epoch 38 ...



[2023-11-22 12:48:13.181403]: Generating random images for epoch 38 ...



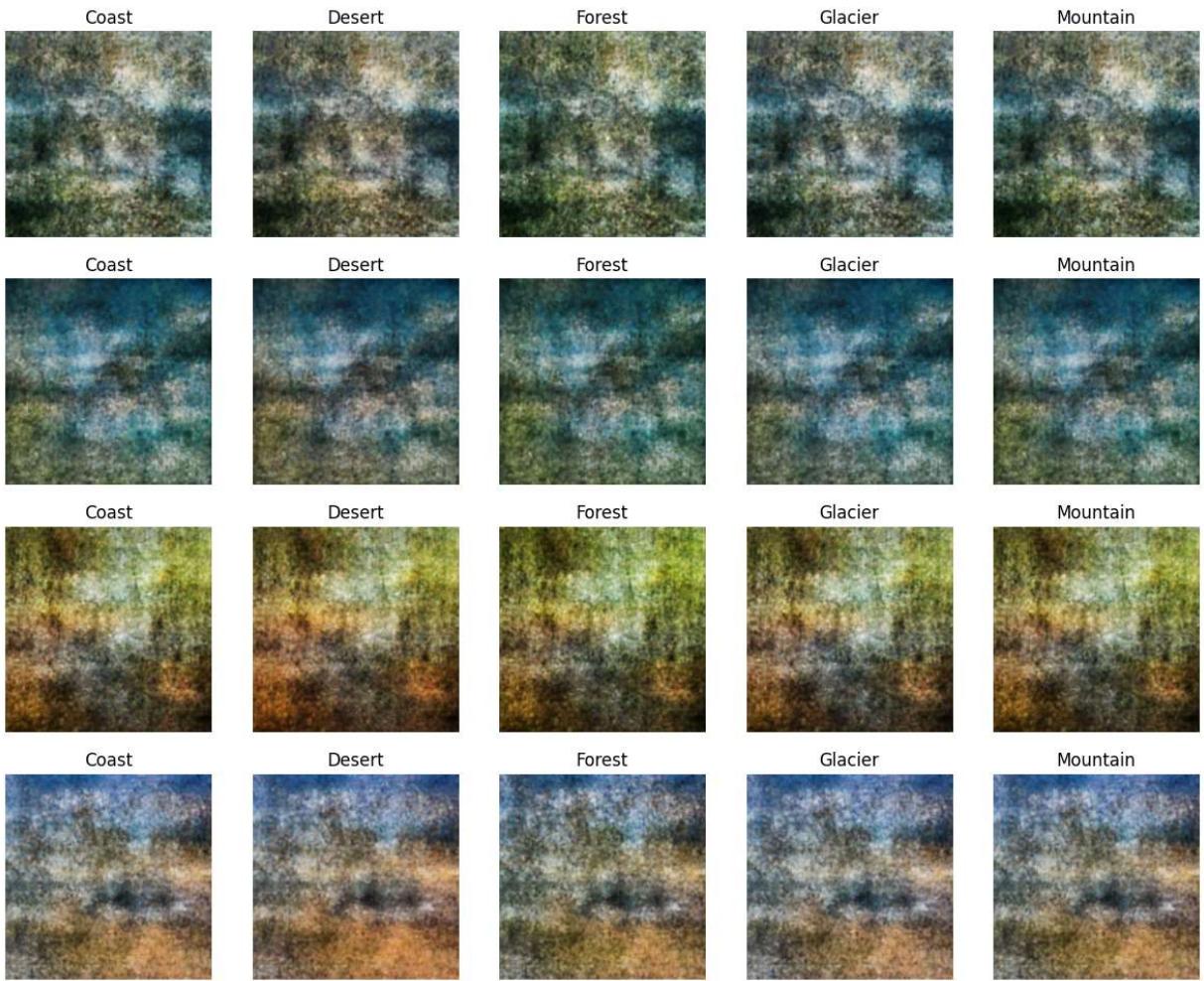
600/600 [=====] - 157s 261ms/step - loss: 72.6060 - reconstruction_error: 44.8331 - regularization_error: 27.7729 - val_loss: 160.1410 - val_reconstruction_error: 133.2456 - val_regularization_error: 26.8953
Epoch 39/100

600/600 [=====] - ETA: 0s - loss: 72.1647 - reconstruction_error: 44.4146 - regularization_error: 27.7500

[2023-11-22 12:50:47.541632]: Generating fixed images for epoch 39 ...



[2023-11-22 12:50:49.262371]: Generating random images for epoch 39 ...



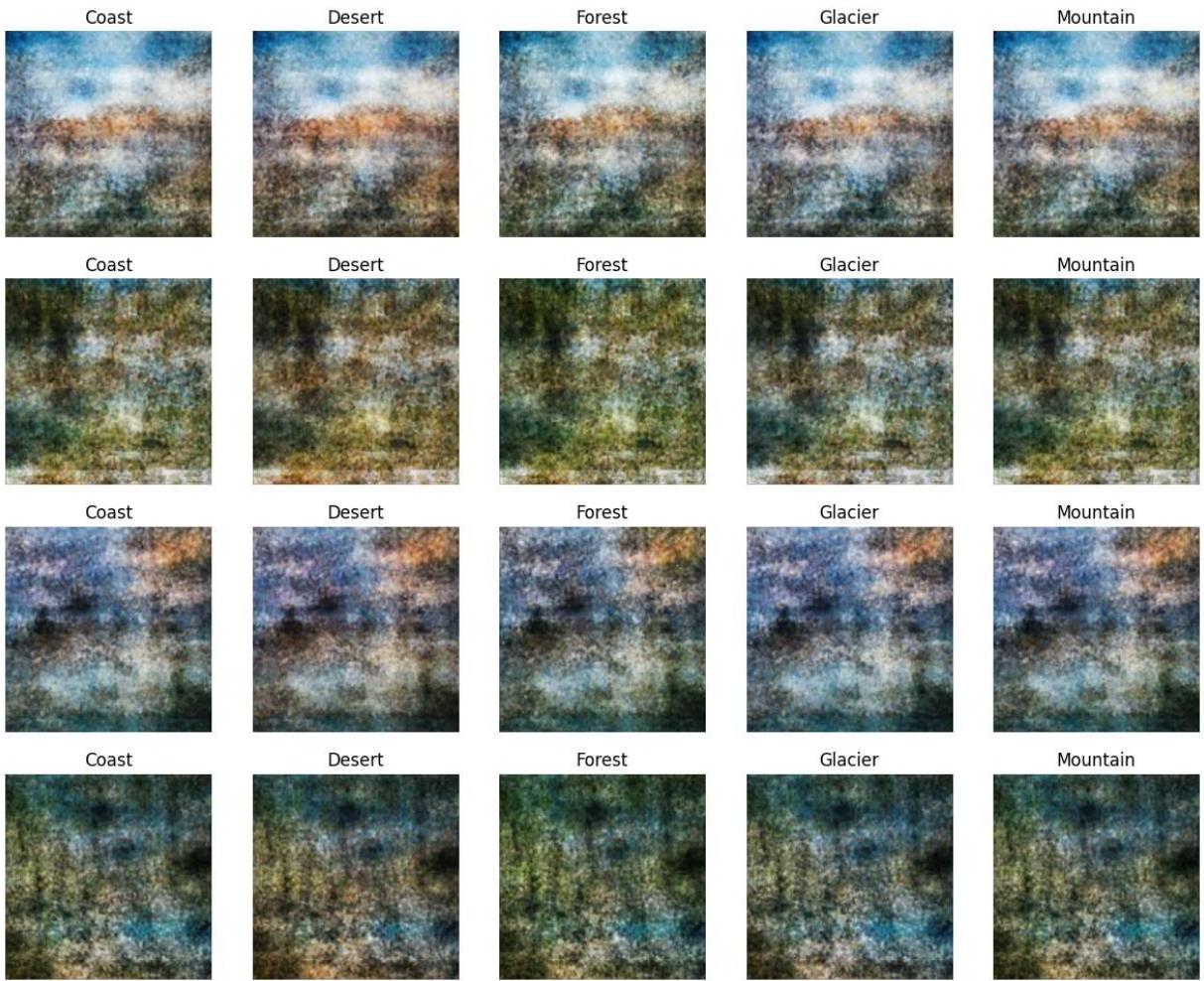
600/600 [=====] - 157s 261ms/step - loss: 72.1647 - reconstruction_error: 44.4146 - regularization_error: 27.7500 - val_loss: 162.3975 - val_reconstruction_error: 134.1379 - val_regularization_error: 28.2597
Epoch 40/100

600/600 [=====] - ETA: 0s - loss: 71.4118 - reconstruction_error: 43.7256 - regularization_error: 27.6862

[2023-11-22 12:53:33.039177]: Generating fixed images for epoch 40 ...



[2023-11-22 12:53:34.443164]: Generating random images for epoch 40 ...



600/600 [=====] - 163s 271ms/step - loss: 71.4118 - reconstruction_error: 43.7256 - regularization_error: 27.6862 - val_loss: 161.1986 - val_reconstruction_error: 134.2434 - val_regularization_error: 26.9552

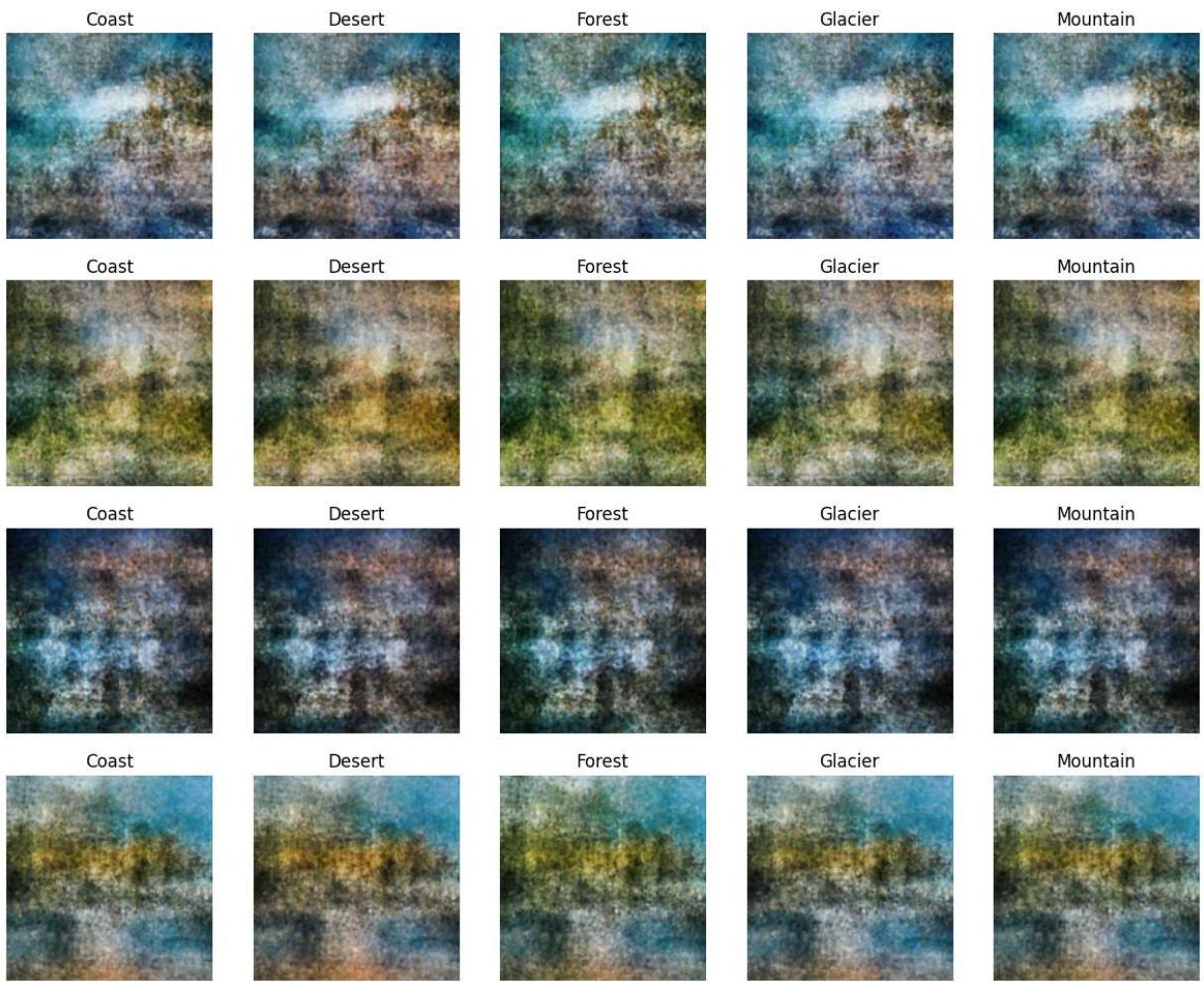
Epoch 41/100

600/600 [=====] - ETA: 0s - loss: 71.1862 - reconstruction_error: 43.5458 - regularization_error: 27.6404

[2023-11-22 12:56:03.866457]: Generating fixed images for epoch 41 ...



[2023-11-22 12:56:05.345666]: Generating random images for epoch 41 ...



600/600 [=====] - 151s 251ms/step - loss: 71.1862 - reconstruction_error: 43.5458 - regularization_error: 27.6404 - val_loss: 161.9568 - val_reconstruction_error: 134.1844 - val_regularization_error: 27.7725

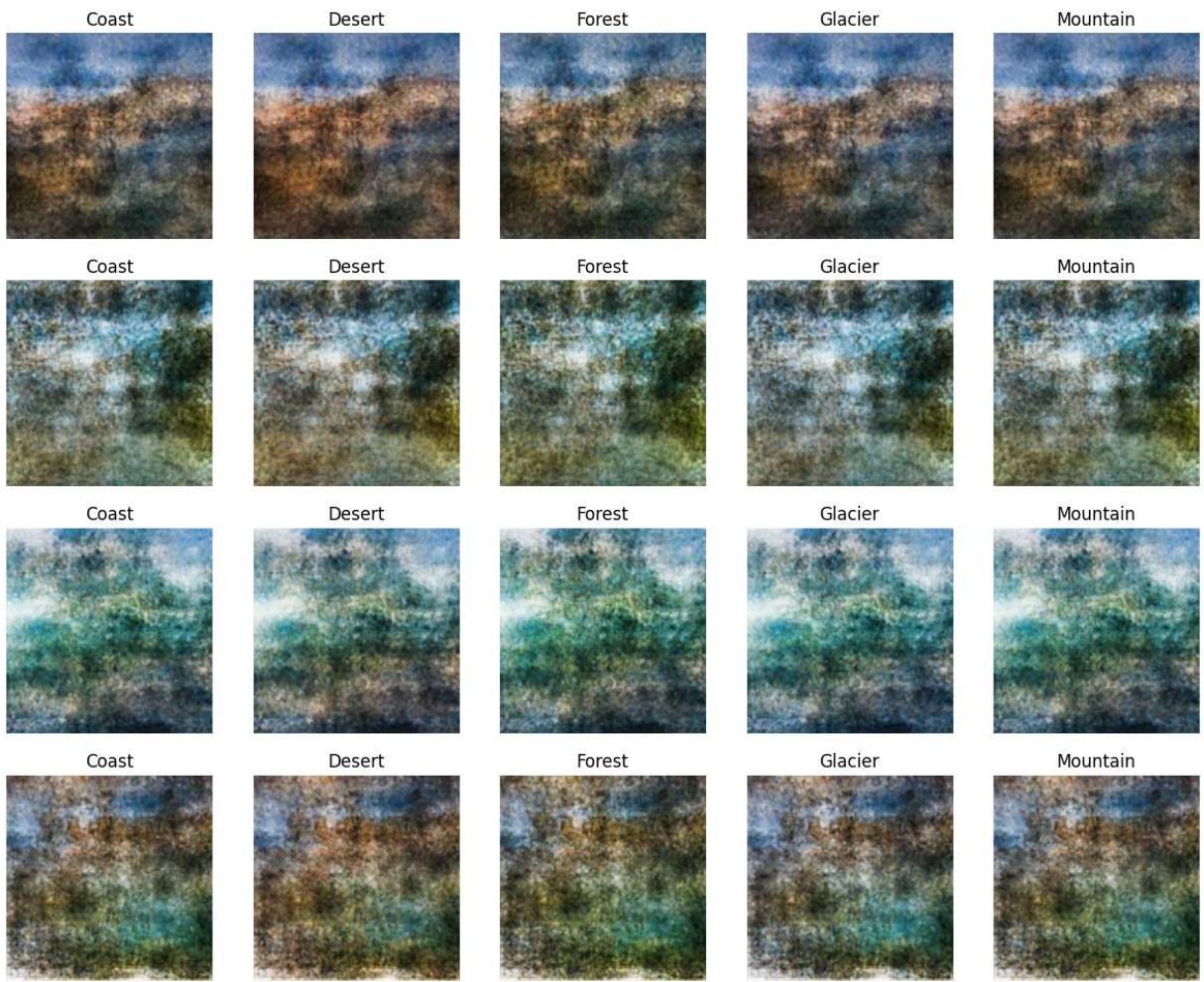
Epoch 42/100

600/600 [=====] - ETA: 0s - loss: 70.4666 - reconstruction_error: 42.8841 - regularization_error: 27.5824

[2023-11-22 12:58:48.302937]: Generating fixed images for epoch 42 ...



[2023-11-22 12:58:49.500088]: Generating random images for epoch 42 ...



600/600 [=====] - 164s 272ms/step - loss: 70.4666 - reconstruction_error: 42.8841 - regularization_error: 27.5824 - val_loss: 160.9128 - val_reconstruction_error: 134.3345 - val_regularization_error: 26.5782
Epoch 43/100

600/600 [=====] - ETA: 0s - loss: 69.8600 - reconstruction_error: 42.3149 - regularization_error: 27.5451

[2023-11-22 13:01:28.650322]: Generating fixed images for epoch 43 ...



[2023-11-22 13:01:30.225997]: Generating random images for epoch 43 ...



600/600 [=====] - 161s 268ms/step - loss: 69.8600 - reconstruction_error: 42.3149 - regularization_error: 27.5451 - val_loss: 162.5591 - val_reconstruction_error: 135.6857 - val_regularization_error: 26.8734

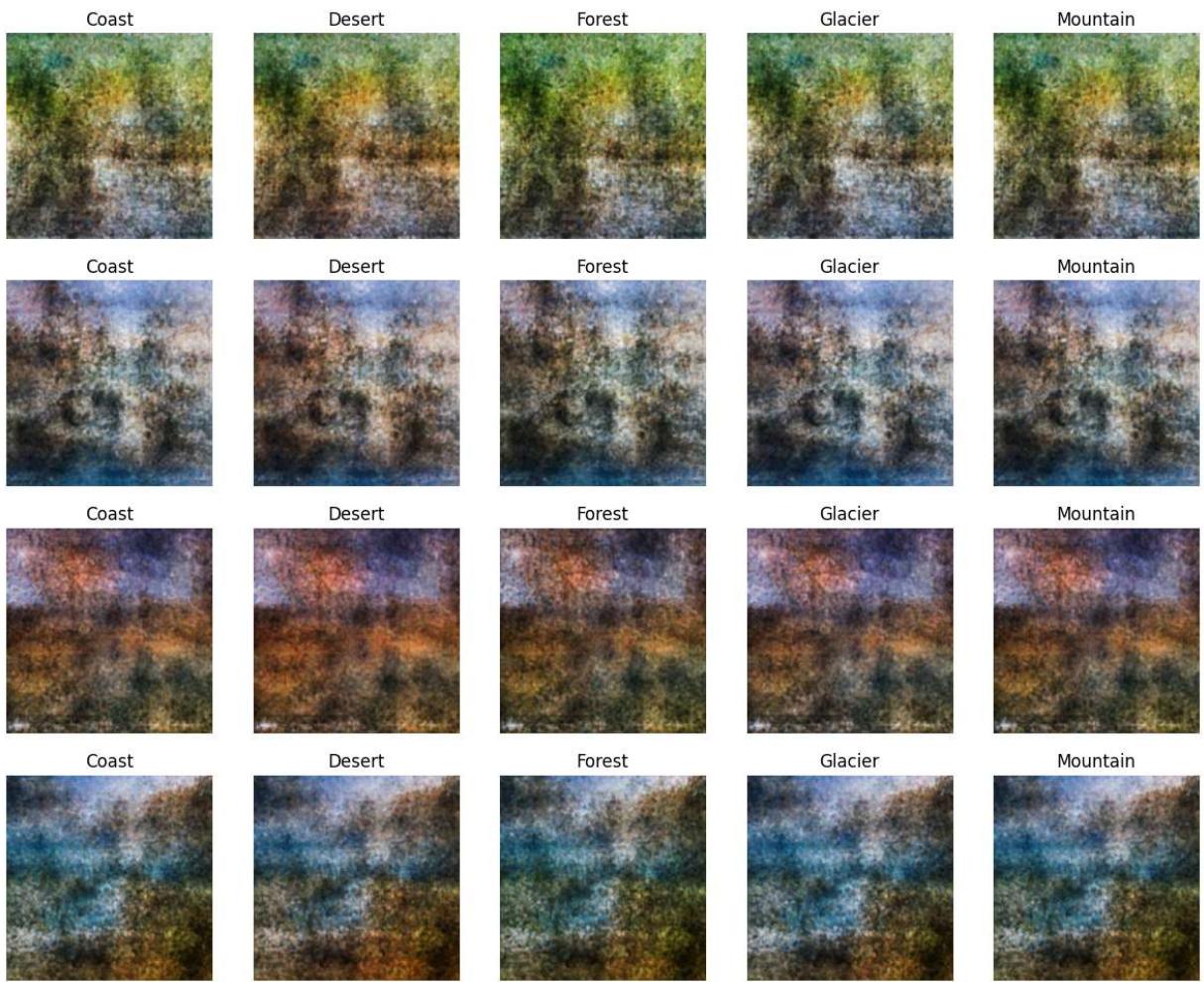
Epoch 44/100

600/600 [=====] - ETA: 0s - loss: 69.4152 - reconstruction_error: 41.9263 - regularization_error: 27.4889

[2023-11-22 13:04:02.097310]: Generating fixed images for epoch 44 ...



[2023-11-22 13:04:03.404581]: Generating random images for epoch 44 ...



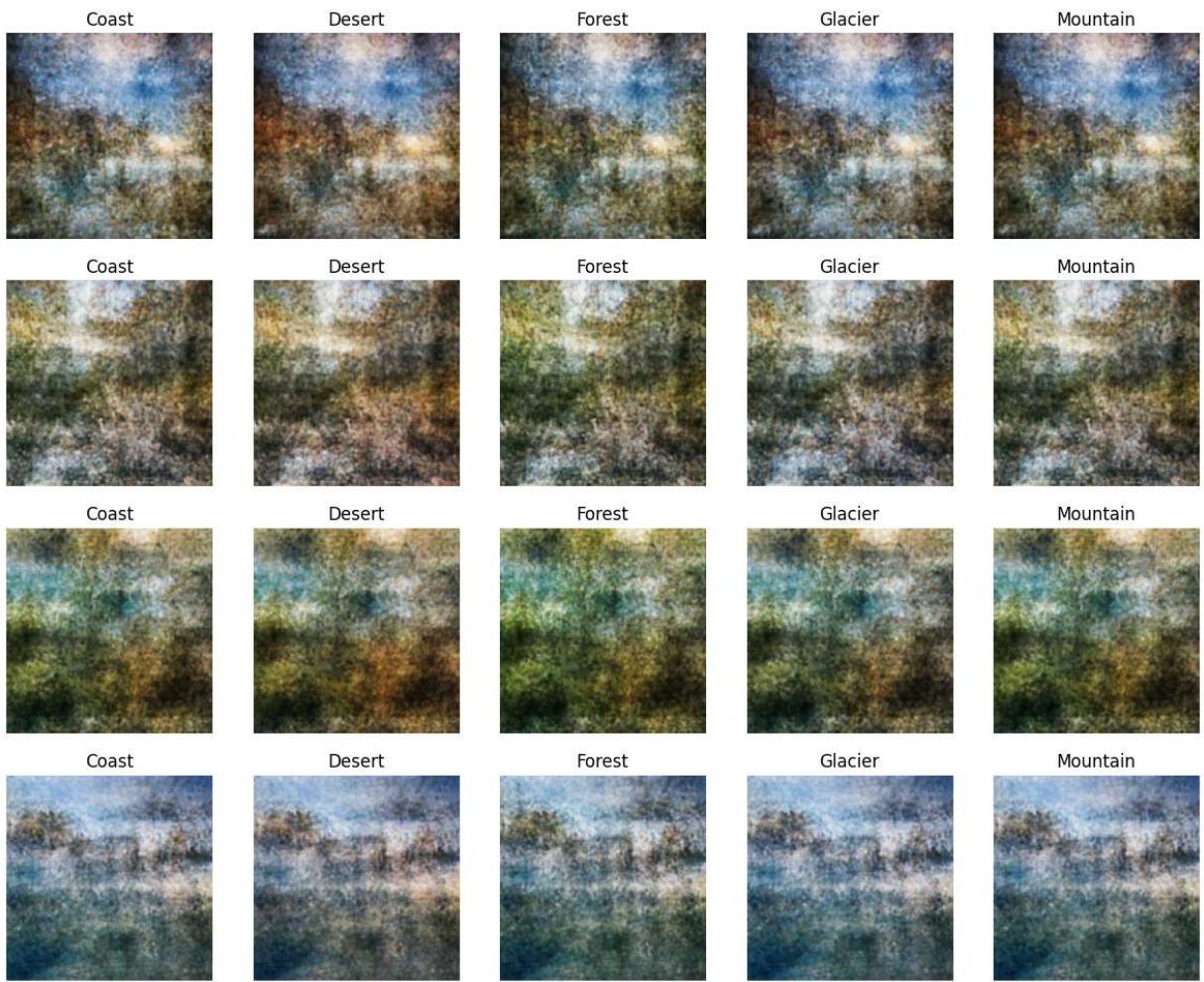
600/600 [=====] - 153s 255ms/step - loss: 69.4152 - reconstruction_error: 41.9263 - regularization_error: 27.4889 - val_loss: 160.9221 - val_reconstruction_error: 133.9260 - val_regularization_error: 26.9960
Epoch 45/100

600/600 [=====] - ETA: 0s - loss: 68.9754 - reconstruction_error: 41.5347 - regularization_error: 27.4406

[2023-11-22 13:06:41.984161]: Generating fixed images for epoch 45 ...



[2023-11-22 13:06:43.250428]: Generating random images for epoch 45 ...



600/600 [=====] - 160s 267ms/step - loss: 68.9754 - reconstruction_error: 41.5347 - regularization_error: 27.4406 - val_loss: 161.3970 - val_reconstruction_error: 134.1068 - val_regularization_error: 27.2901

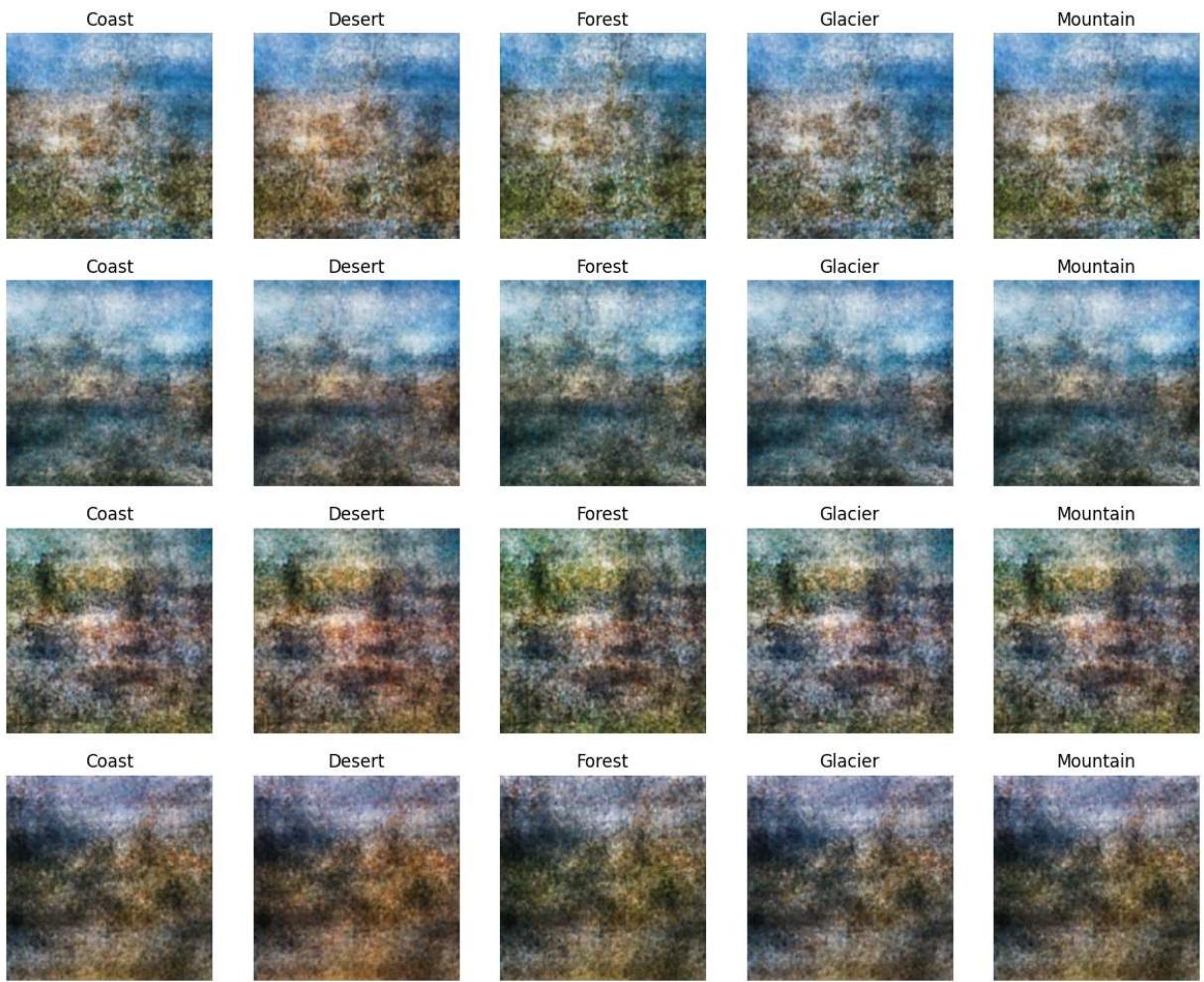
Epoch 46/100

600/600 [=====] - ETA: 0s - loss: 68.4896 - reconstruction_error: 41.0835 - regularization_error: 27.4062

[2023-11-22 13:09:12.249887]: Generating fixed images for epoch 46 ...



[2023-11-22 13:09:14.304475]: Generating random images for epoch 46 ...



600/600 [=====] - 151s 251ms/step - loss: 68.4896 - reconstruction_error: 41.0835 - regularization_error: 27.4062 - val_loss: 164.8746 - val_reconstruction_error: 137.5111 - val_regularization_error: 27.3636

Epoch 47/100

600/600 [=====] - ETA: 0s - loss: 68.1409 - reconstruction_error: 40.7675 - regularization_error: 27.3735

[2023-11-22 13:11:55.002466]: Generating fixed images for epoch 47 ...



[2023-11-22 13:11:56.227571]: Generating random images for epoch 47 ...



600/600 [=====] - 161s 268ms/step - loss: 68.1409 - reconstruction_error: 40.7675 - regularization_error: 27.3735 - val_loss: 162.6472 - val_reconstruction_error: 136.3329 - val_regularization_error: 26.3143

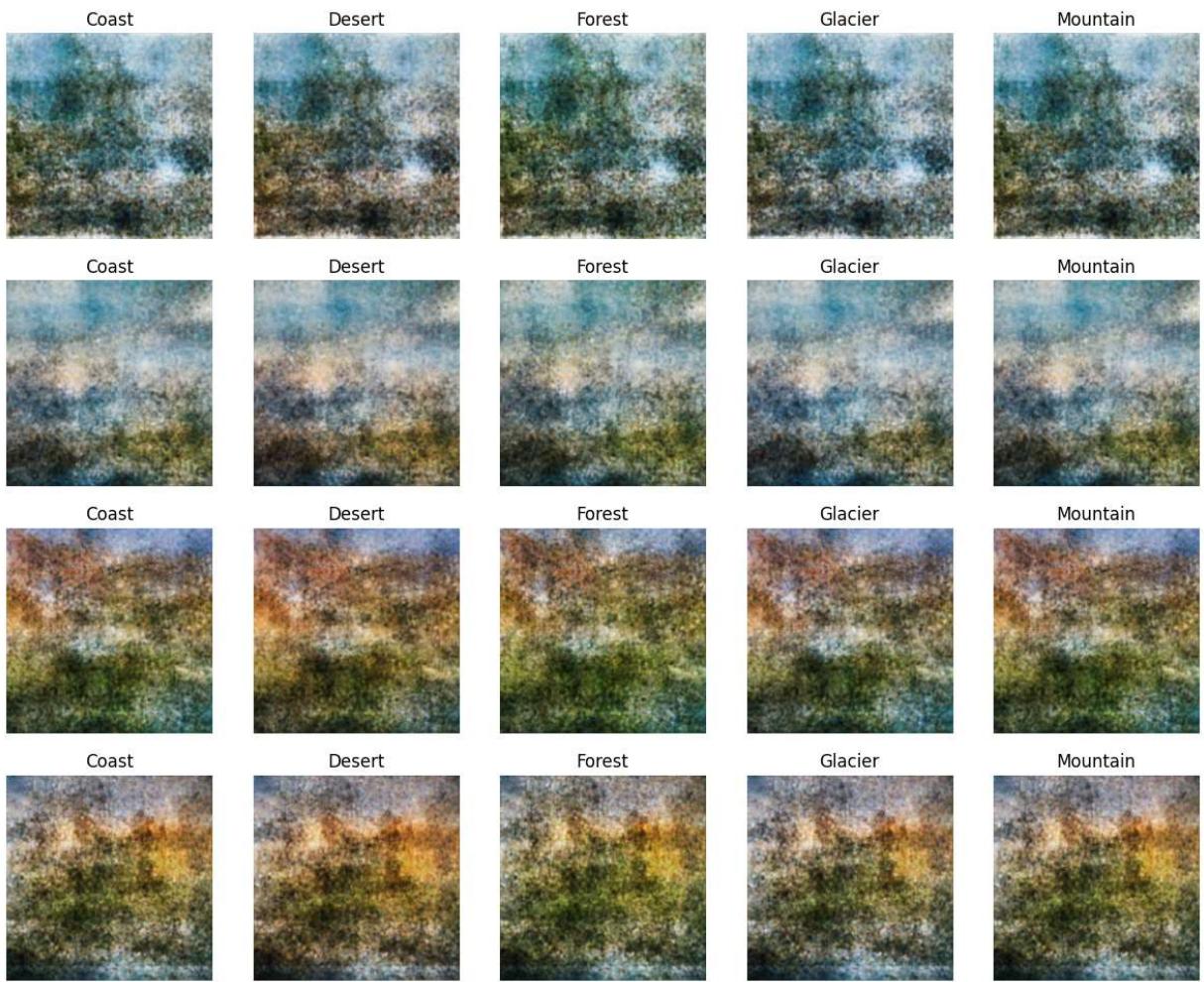
Epoch 48/100

600/600 [=====] - ETA: 0s - loss: 67.5749 - reconstruction_error: 40.2448 - regularization_error: 27.3302

[2023-11-22 13:14:28.210394]: Generating fixed images for epoch 48 ...



[2023-11-22 13:14:30.166262]: Generating random images for epoch 48 ...



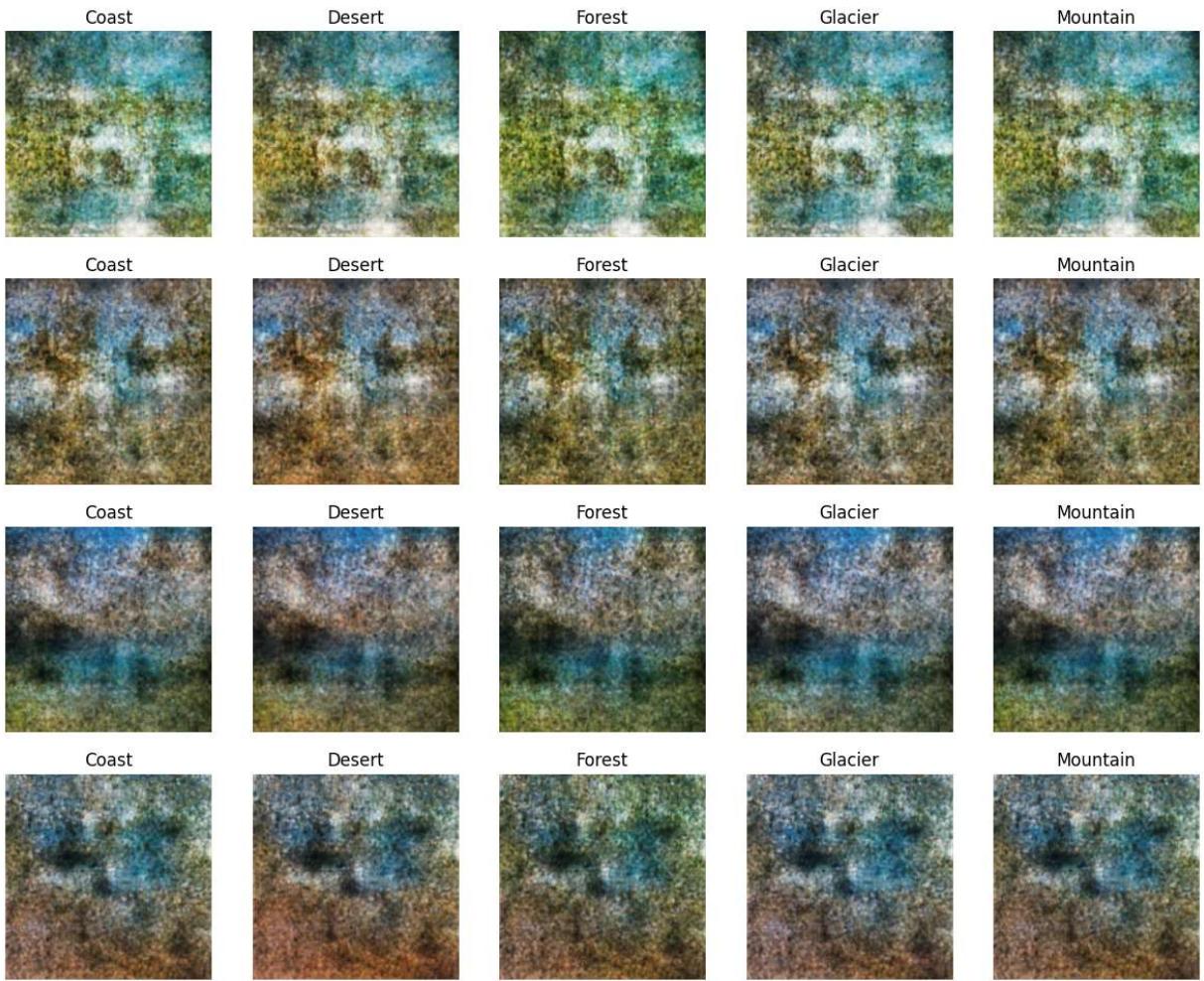
600/600 [=====] - 155s 258ms/step - loss: 67.5749 - reconstruction_error: 40.2448 - regularization_error: 27.3302 - val_loss: 161.4524 - val_reconstruction_error: 134.4687 - val_regularization_error: 26.9837
Epoch 49/100

600/600 [=====] - ETA: 0s - loss: 67.0926 - reconstruction_error: 39.8035 - regularization_error: 27.2892

[2023-11-22 13:17:03.306084]: Generating fixed images for epoch 49 ...



[2023-11-22 13:17:04.753402]: Generating random images for epoch 49 ...



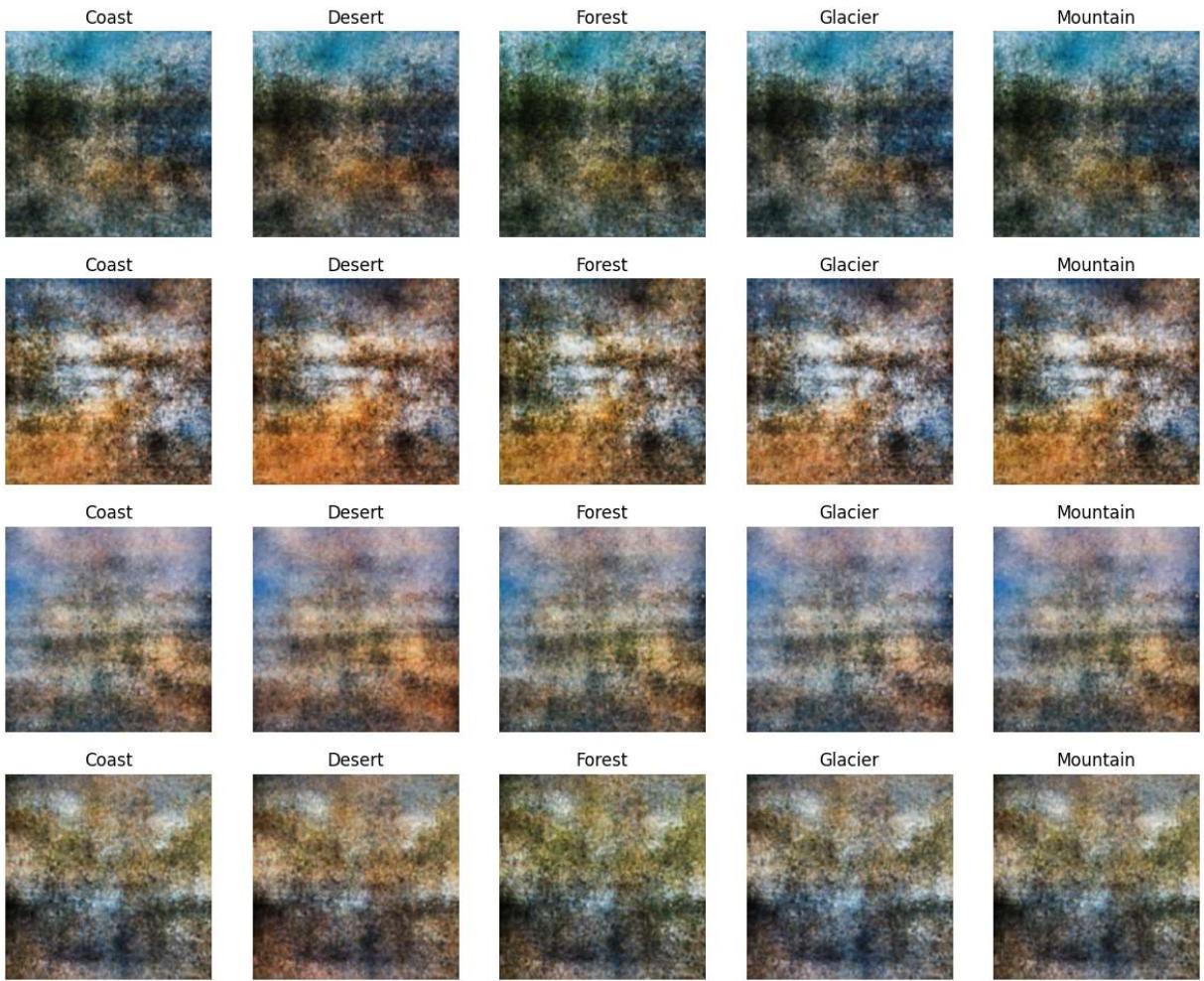
600/600 [=====] - 154s 256ms/step - loss: 67.0926 - reconstruction_error: 39.8035 - regularization_error: 27.2892 - val_loss: 163.3814 - val_reconstruction_error: 136.2863 - val_regularization_error: 27.0951
Epoch 50/100

600/600 [=====] - ETA: 0s - loss: 66.8859 - reconstruction_error: 39.6776 - regularization_error: 27.2084

[2023-11-22 13:19:44.737739]: Generating fixed images for epoch 50 ...



[2023-11-22 13:19:45.927275]: Generating random images for epoch 50 ...



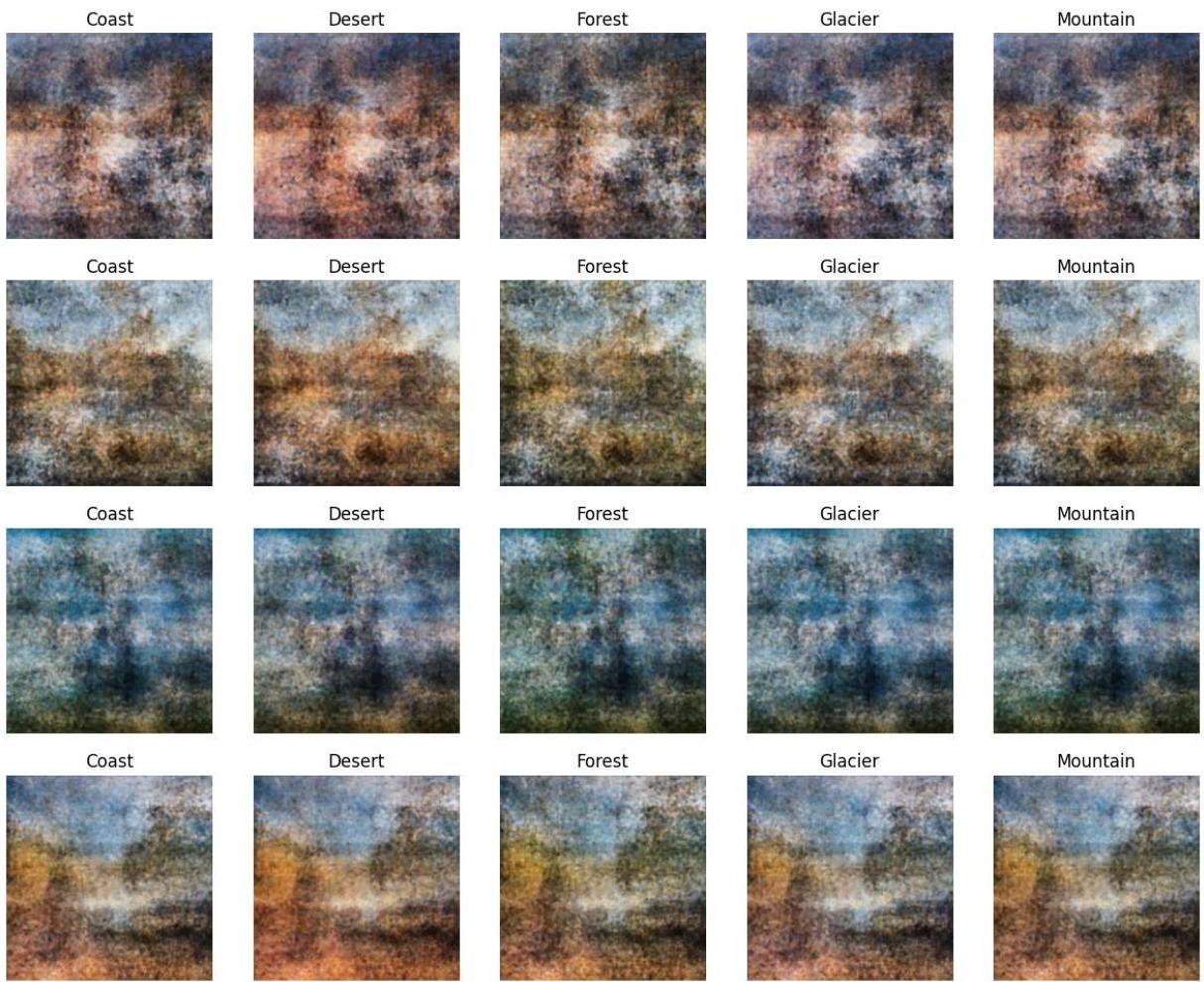
600/600 [=====] - 161s 268ms/step - loss: 66.8859 - reconstruction_error: 39.6776 - regularization_error: 27.2084 - val_loss: 160.8928 - val_reconstruction_error: 134.5203 - val_regularization_error: 26.3725
Epoch 51/100

600/600 [=====] - ETA: 0s - loss: 66.5993 - reconstruction_error: 39.4056 - regularization_error: 27.1938

[2023-11-22 13:22:22.731413]: Generating fixed images for epoch 51 ...



[2023-11-22 13:22:24.210548]: Generating random images for epoch 51 ...



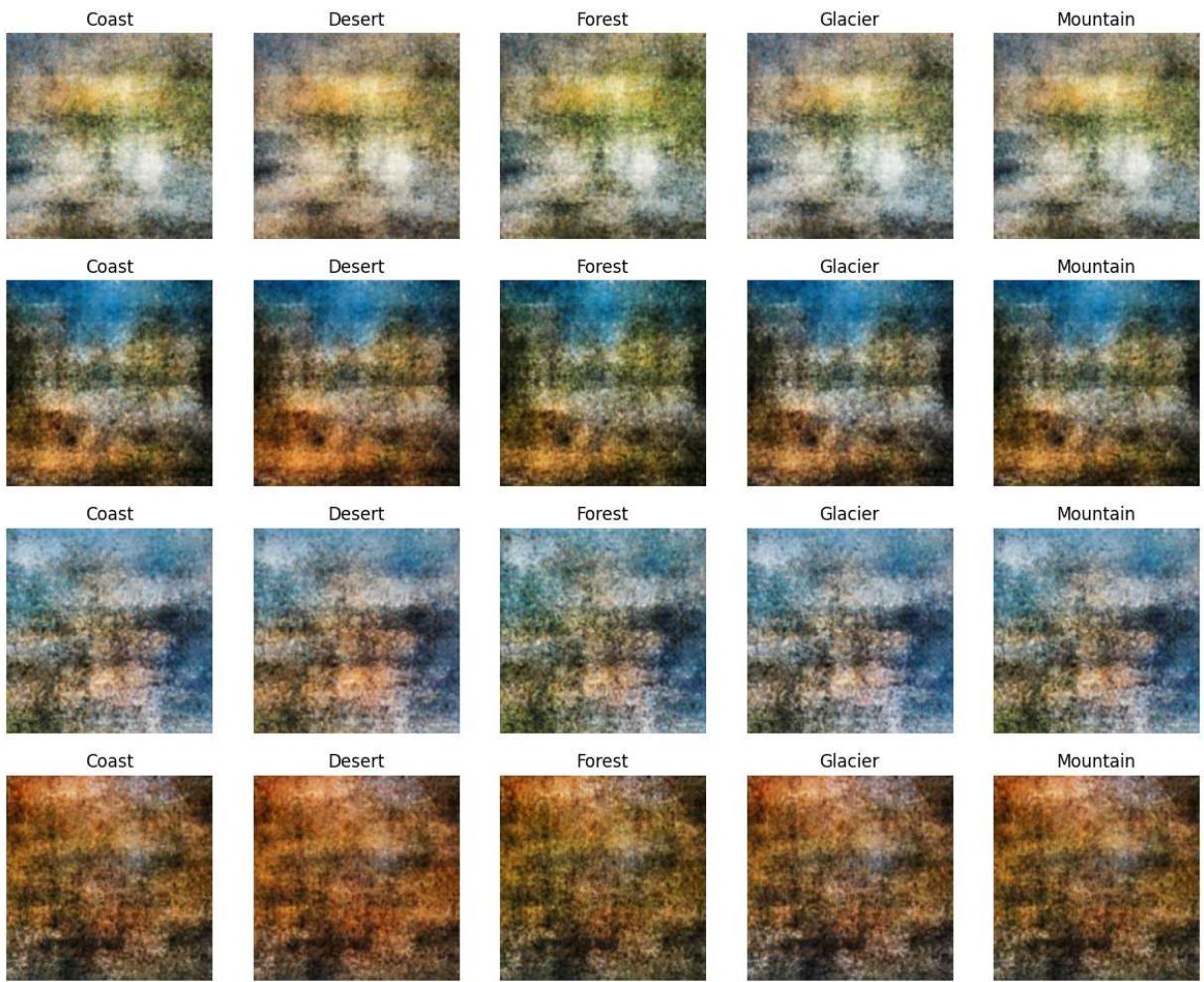
600/600 [=====] - 159s 264ms/step - loss: 66.5993 - reconstruction_error: 39.4056 - regularization_error: 27.1938 - val_loss: 162.8704 - val_reconstruction_error: 136.0840 - val_regularization_error: 26.7864
Epoch 52/100

600/600 [=====] - ETA: 0s - loss: 66.0718 - reconstruction_error: 38.9071 - regularization_error: 27.1647

[2023-11-22 13:25:05.198374]: Generating fixed images for epoch 52 ...



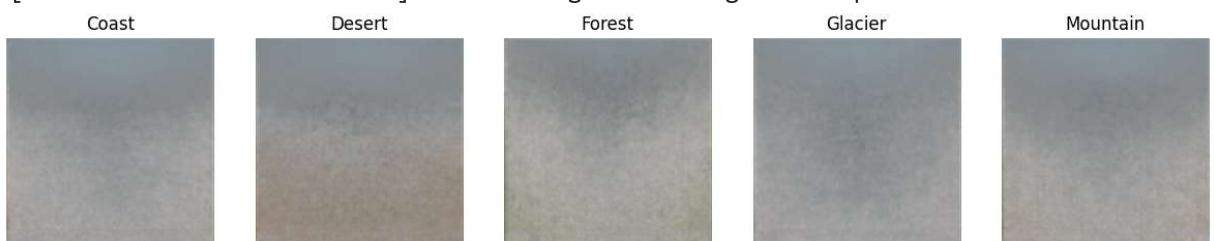
[2023-11-22 13:25:06.582545]: Generating random images for epoch 52 ...



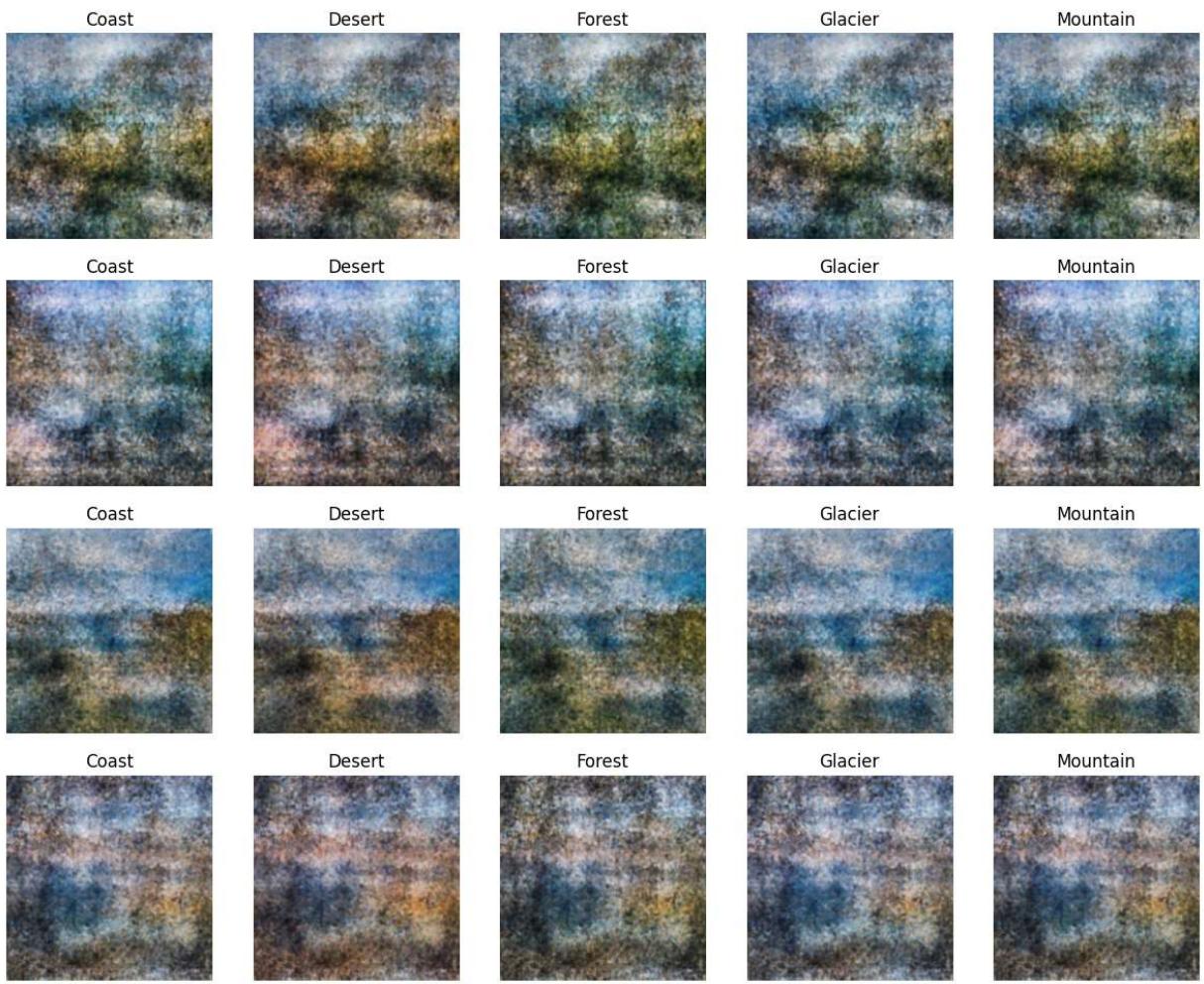
600/600 [=====] - 162s 270ms/step - loss: 66.0718 - reconstruction_error: 38.9071 - regularization_error: 27.1647 - val_loss: 162.2565 - val_reconstruction_error: 135.7875 - val_regularization_error: 26.4691
Epoch 53/100

600/600 [=====] - ETA: 0s - loss: 65.7200 - reconstruction_error: 38.5725 - regularization_error: 27.1475

[2023-11-22 13:27:52.263311]: Generating fixed images for epoch 53 ...



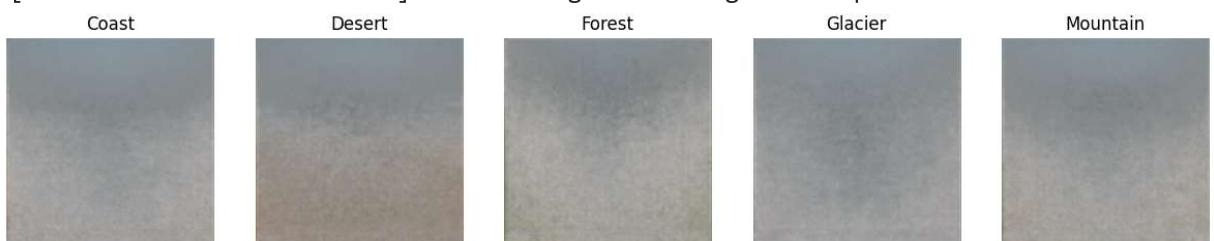
[2023-11-22 13:27:53.362662]: Generating random images for epoch 53 ...



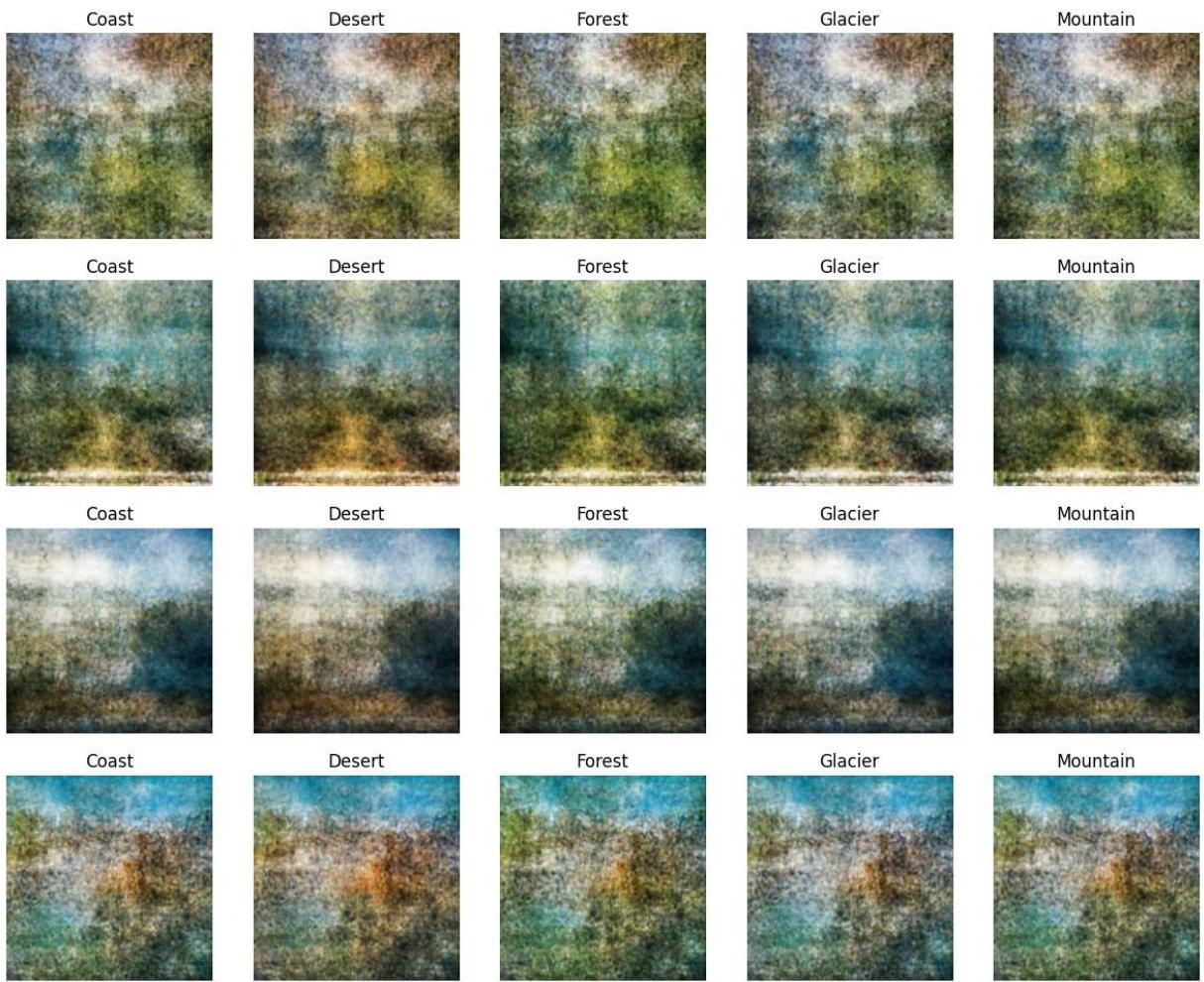
600/600 [=====] - 167s 278ms/step - loss: 65.7200 - reconstruction_error: 38.5725 - regularization_error: 27.1475 - val_loss: 162.8726 - val_reconstruction_error: 136.3657 - val_regularization_error: 26.5069
Epoch 54/100

600/600 [=====] - ETA: 0s - loss: 65.5526 - reconstruction_error: 38.4453 - regularization_error: 27.1072

[2023-11-22 13:30:33.616099]: Generating fixed images for epoch 54 ...



[2023-11-22 13:30:35.313595]: Generating random images for epoch 54 ...



600/600 [=====] - 162s 270ms/step - loss: 65.5526 - reconstruction_error: 38.4453 - regularization_error: 27.1072 - val_loss: 163.1662 - val_reconstruction_error: 136.5457 - val_regularization_error: 26.6205
Epoch 55/100

600/600 [=====] - ETA: 0s - loss: 65.2038 - reconstruction_error: 38.1615 - regularization_error: 27.0423

[2023-11-22 13:33:13.792896]: Generating fixed images for epoch 55 ...



[2023-11-22 13:33:15.011588]: Generating random images for epoch 55 ...



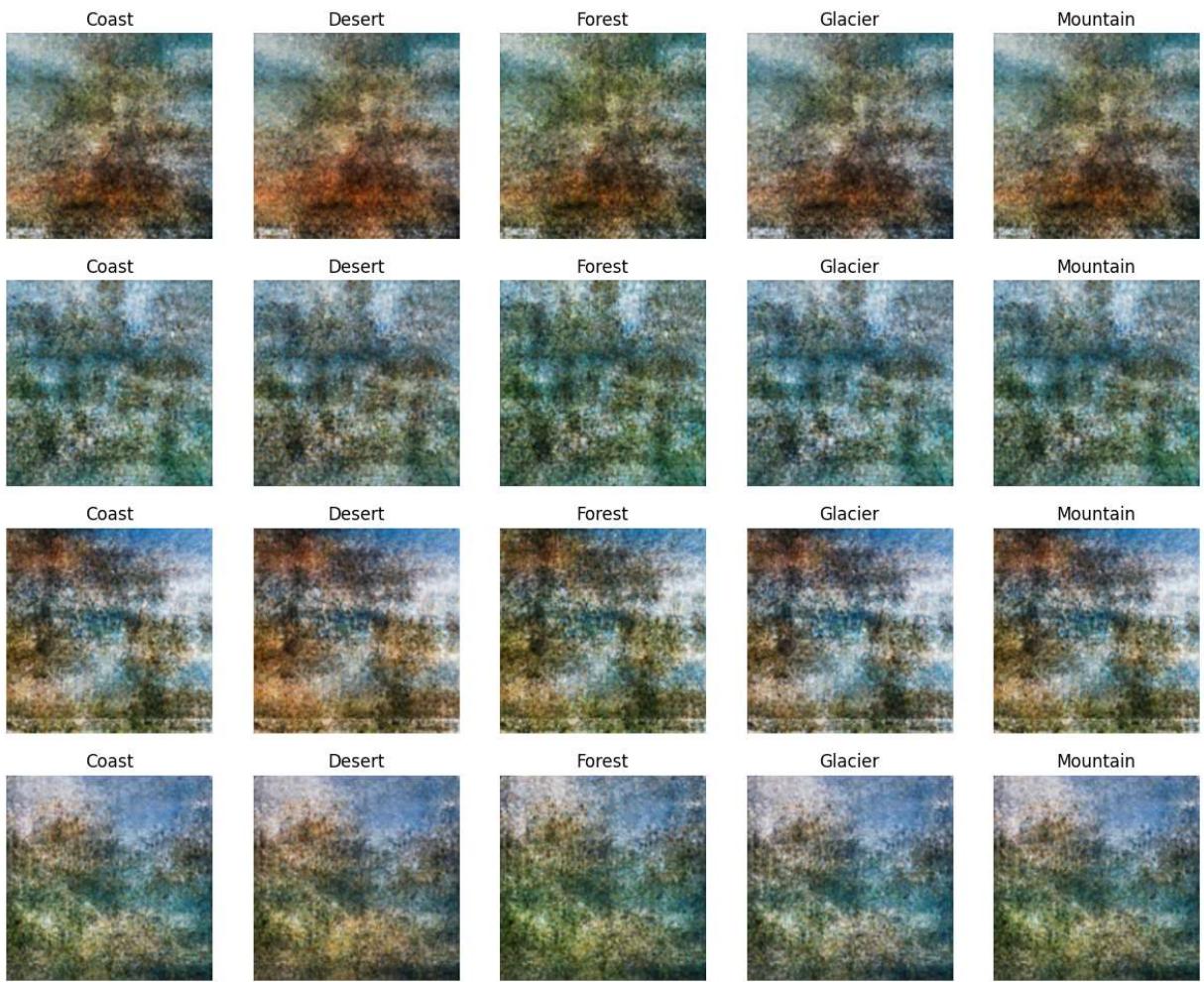
600/600 [=====] - 159s 265ms/step - loss: 65.2038 - reconstruction_error: 38.1615 - regularization_error: 27.0423 - val_loss: 162.3751 - val_reconstruction_error: 136.0130 - val_regularization_error: 26.3622
Epoch 56/100

600/600 [=====] - ETA: 0s - loss: 64.7357 - reconstruction_error: 37.7282 - regularization_error: 27.0075

[2023-11-22 13:35:44.020328]: Generating fixed images for epoch 56 ...



[2023-11-22 13:35:45.251371]: Generating random images for epoch 56 ...



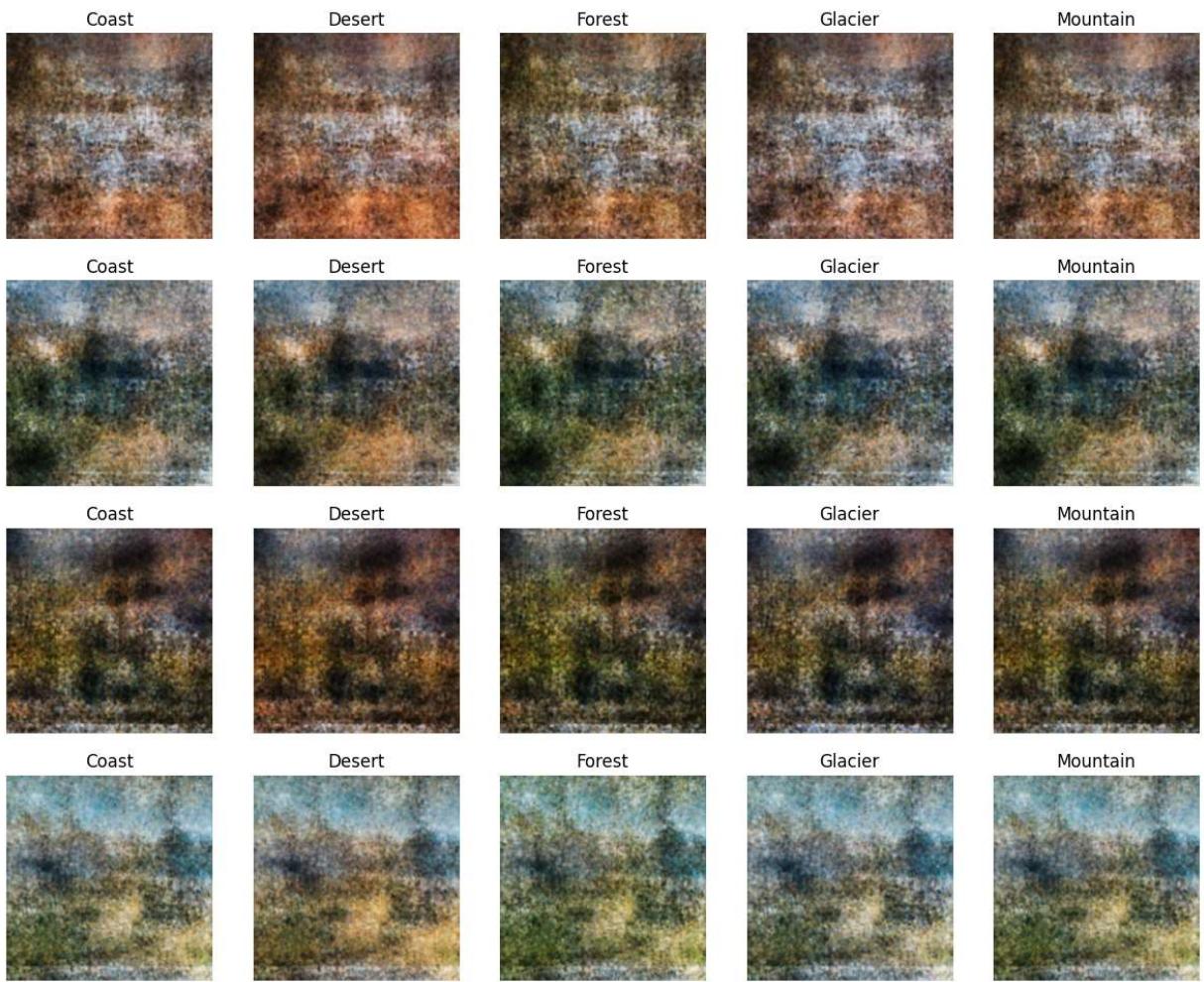
600/600 [=====] - 151s 251ms/step - loss: 64.7357 - reconstruction_error: 37.7282 - regularization_error: 27.0075 - val_loss: 164.2934 - val_reconstruction_error: 137.6027 - val_regularization_error: 26.6906
Epoch 57/100

600/600 [=====] - ETA: 0s - loss: 64.4404 - reconstruction_error: 37.4720 - regularization_error: 26.9684

[2023-11-22 13:38:25.175761]: Generating fixed images for epoch 57 ...



[2023-11-22 13:38:26.506222]: Generating random images for epoch 57 ...



600/600 [=====] - 161s 267ms/step - loss: 64.4404 - reconstruction_error: 37.4720 - regularization_error: 26.9684 - val_loss: 163.6773 - val_reconstruction_error: 136.9867 - val_regularization_error: 26.6906

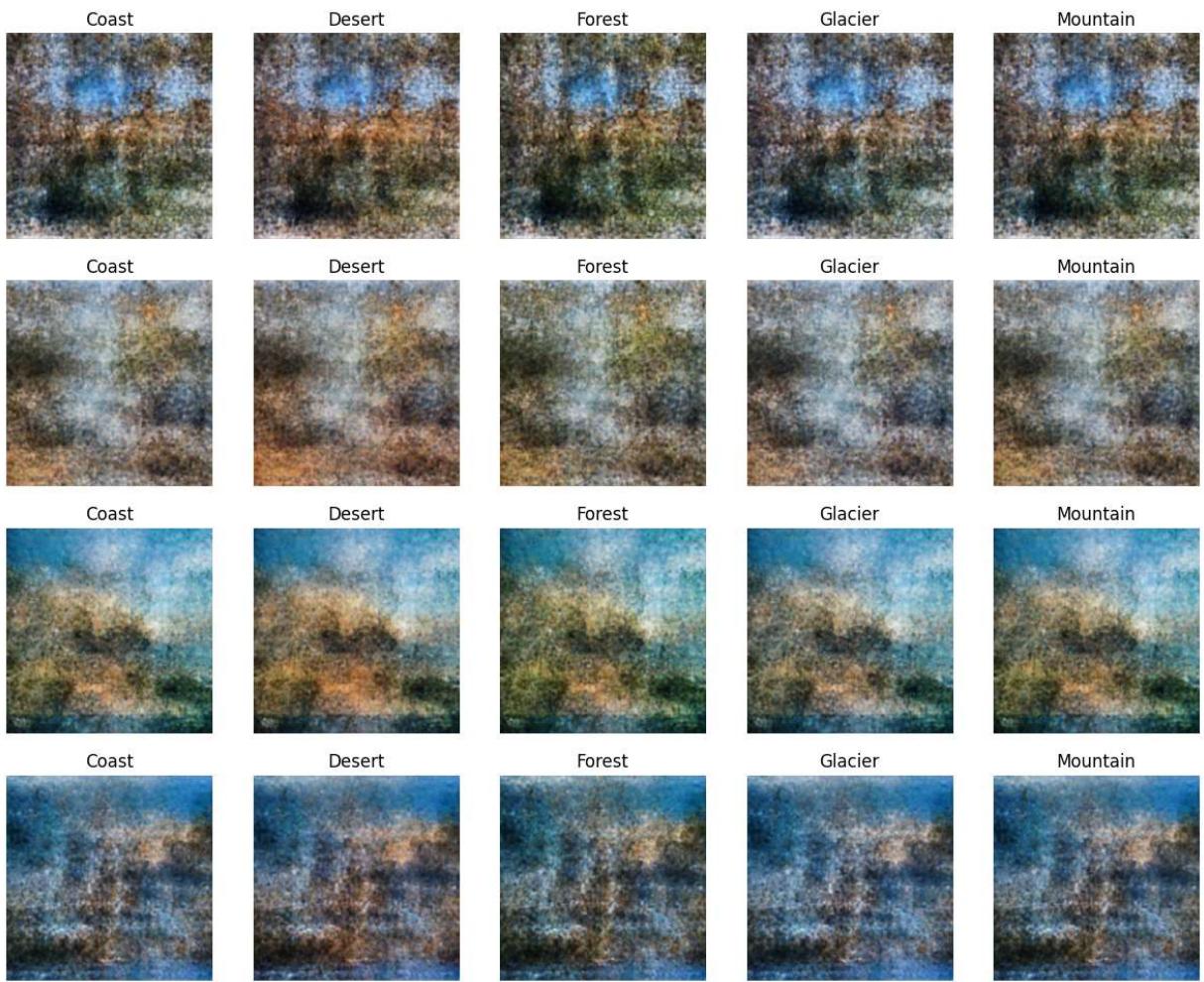
Epoch 58/100

600/600 [=====] - ETA: 0s - loss: 64.1776 - reconstruction_error: 37.2533 - regularization_error: 26.9243

[2023-11-22 13:41:04.394709]: Generating fixed images for epoch 58 ...



[2023-11-22 13:41:05.520557]: Generating random images for epoch 58 ...



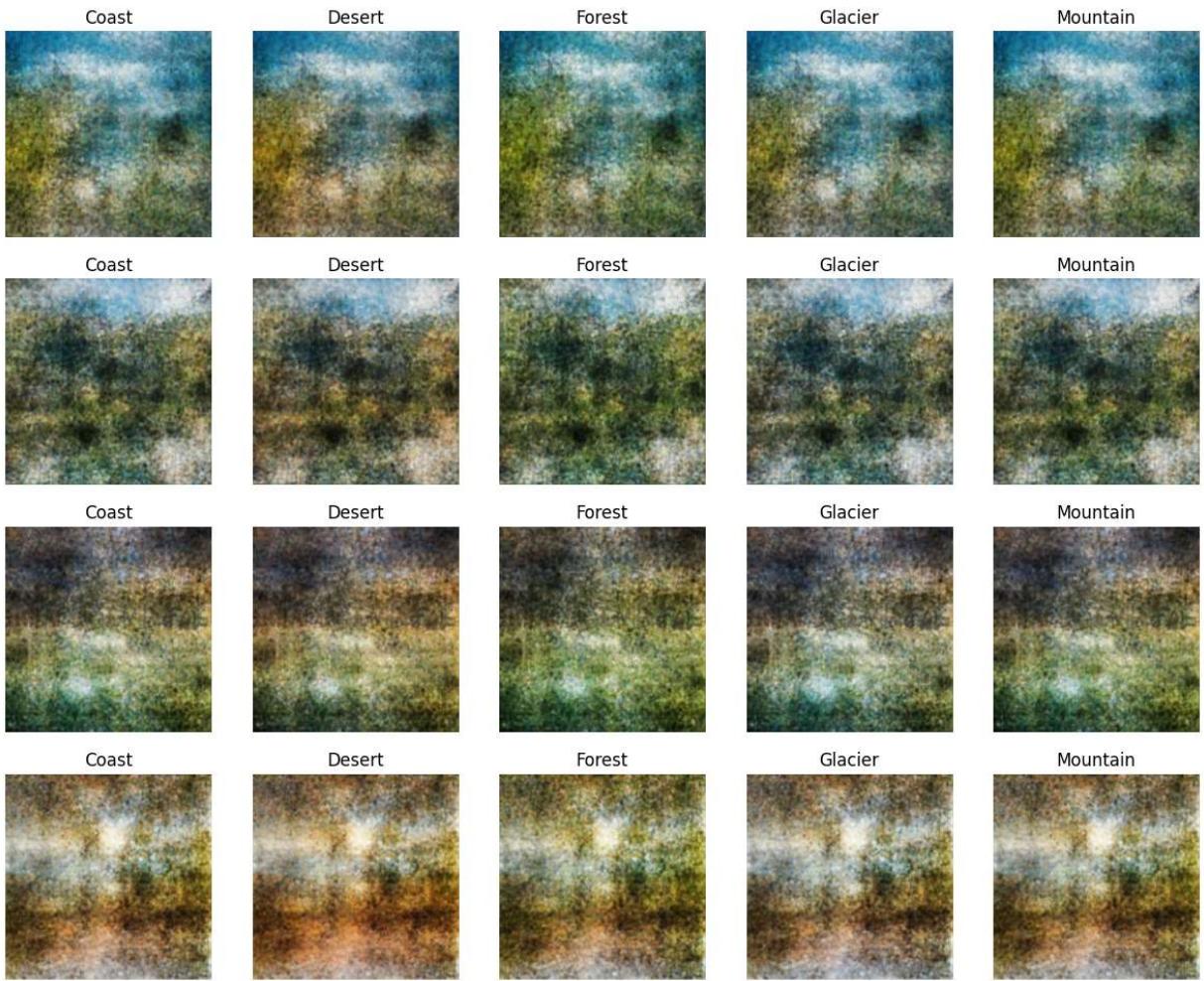
600/600 [=====] - 159s 266ms/step - loss: 64.1776 - reconstruction_error: 37.2533 - regularization_error: 26.9243 - val_loss: 165.1559 - val_reconstruction_error: 138.4844 - val_regularization_error: 26.6715
Epoch 59/100

600/600 [=====] - ETA: 0s - loss: 63.9333 - reconstruction_error: 37.0485 - regularization_error: 26.8848

[2023-11-22 13:43:42.159467]: Generating fixed images for epoch 59 ...



[2023-11-22 13:43:43.306814]: Generating random images for epoch 59 ...



600/600 [=====] - 158s 263ms/step - loss: 63.9333 - reconstruction_error: 37.0485 - regularization_error: 26.8848 - val_loss: 162.4555 - val_reconstruction_error: 135.7141 - val_regularization_error: 26.7414
Epoch 60/100

600/600 [=====] - ETA: 0s - loss: 63.5617 - reconstruction_error: 36.7167 - regularization_error: 26.8449

[2023-11-22 13:46:23.864811]: Generating fixed images for epoch 60 ...



[2023-11-22 13:46:25.230856]: Generating random images for epoch 60 ...



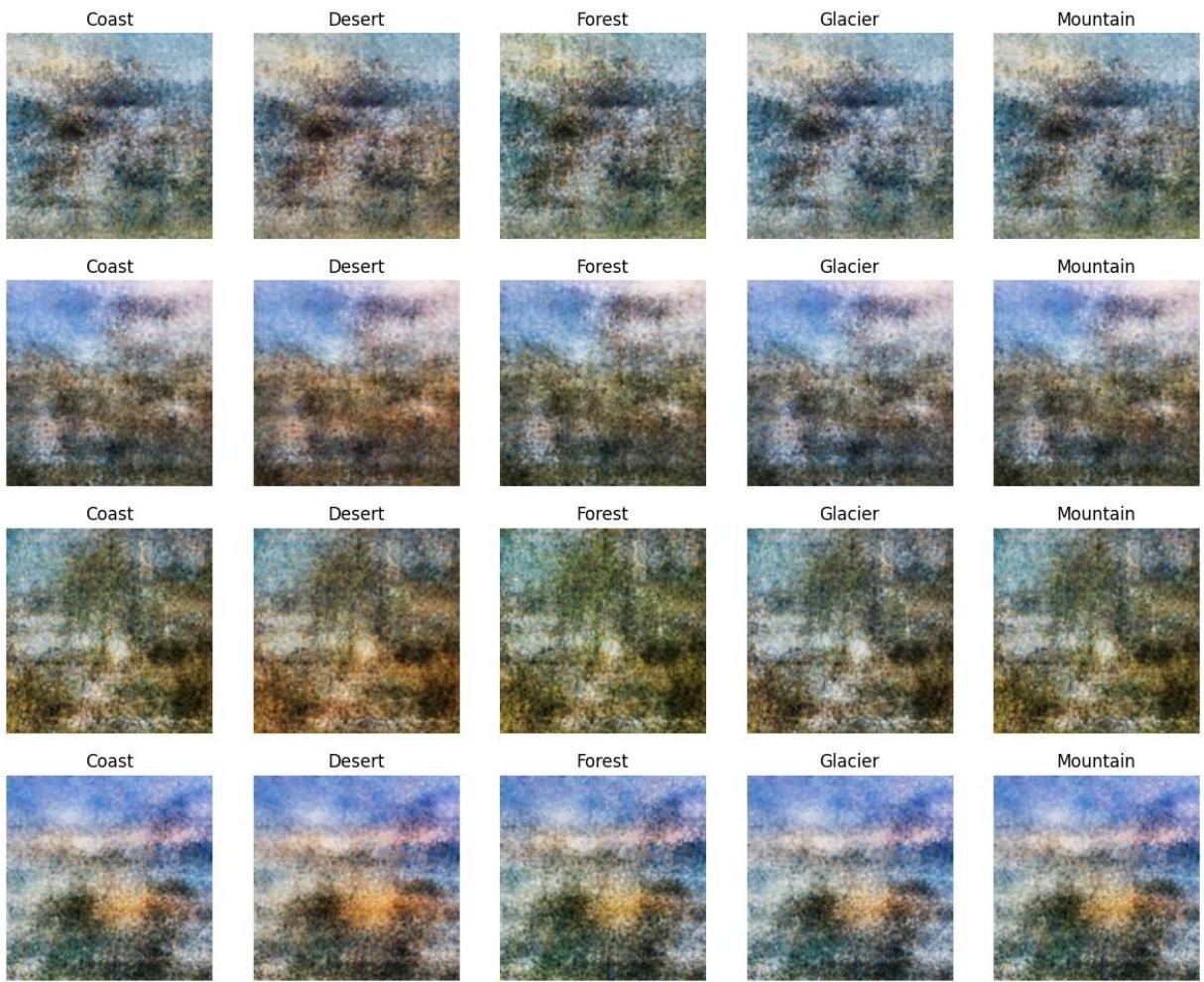
600/600 [=====] - 163s 272ms/step - loss: 63.5617 - reconstruction_error: 36.7167 - regularization_error: 26.8449 - val_loss: 164.6883 - val_reconstruction_error: 138.5202 - val_regularization_error: 26.1681
Epoch 61/100

600/600 [=====] - ETA: 0s - loss: 63.3853 - reconstruction_error: 36.5734 - regularization_error: 26.8120

[2023-11-22 13:48:59.875289]: Generating fixed images for epoch 61 ...



[2023-11-22 13:49:01.215723]: Generating random images for epoch 61 ...



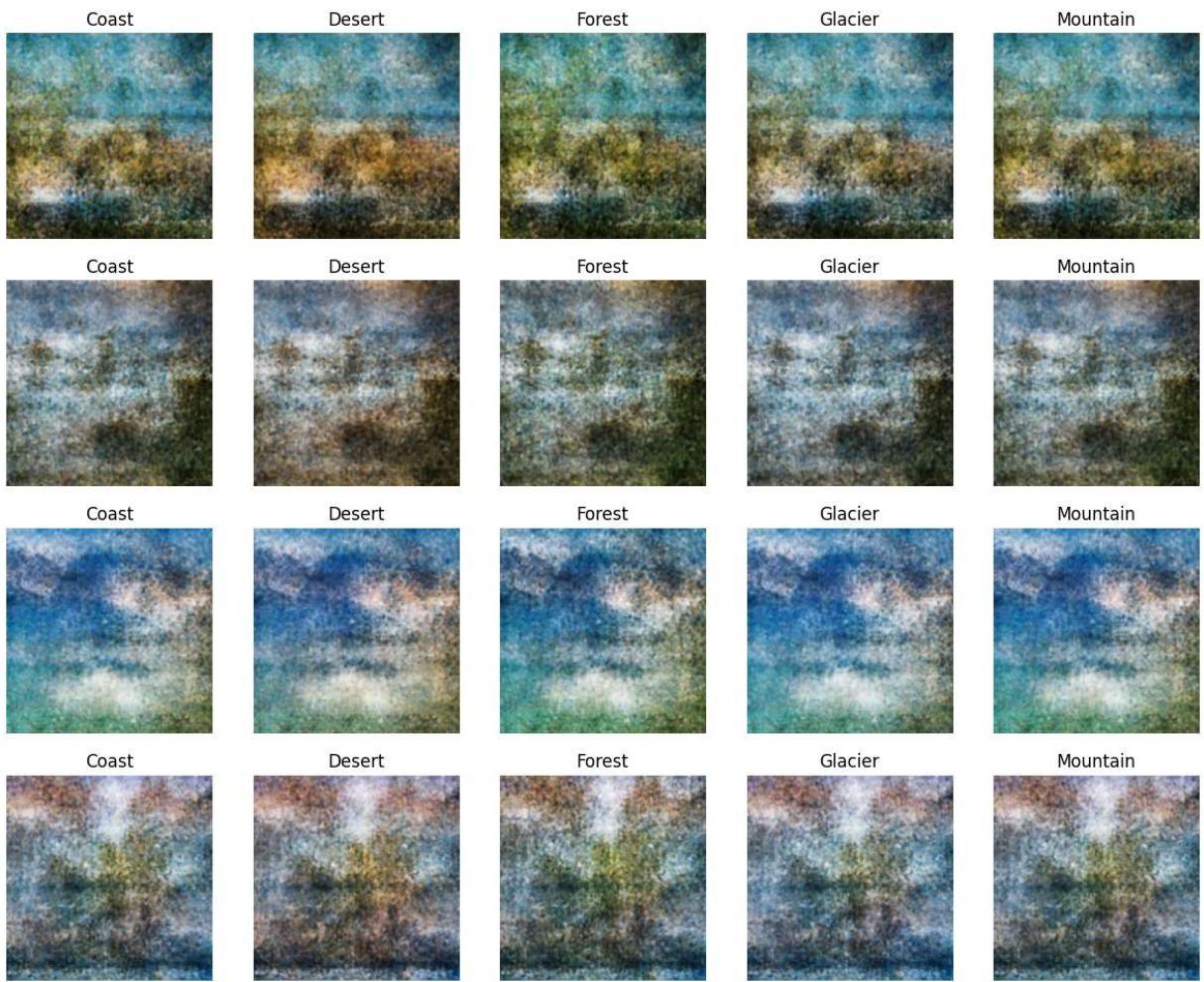
600/600 [=====] - 155s 258ms/step - loss: 63.3853 - reconstruction_error: 36.5734 - regularization_error: 26.8120 - val_loss: 163.9644 - val_reconstruction_error: 137.5213 - val_regularization_error: 26.4431
Epoch 62/100

600/600 [=====] - ETA: 0s - loss: 63.1727 - reconstruction_error: 36.3927 - regularization_error: 26.7800

[2023-11-22 13:51:27.557267]: Generating fixed images for epoch 62 ...



[2023-11-22 13:51:28.694810]: Generating random images for epoch 62 ...



600/600 [=====] - 145s 240ms/step - loss: 63.1727 - reconstruction_error: 36.3927 - regularization_error: 26.7800 - val_loss: 163.2207 - val_reconstruction_error: 137.2428 - val_regularization_error: 25.9779

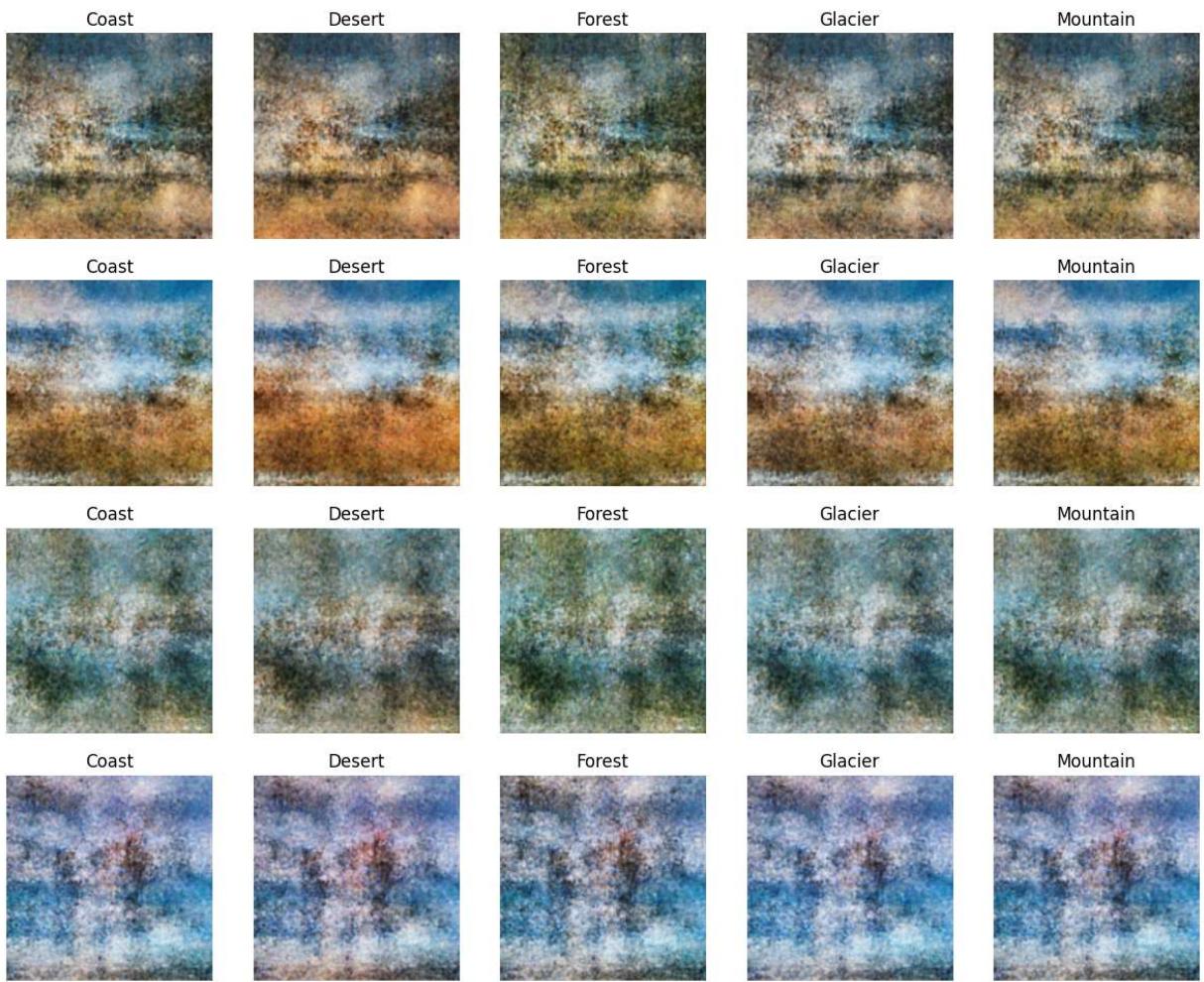
Epoch 63/100

600/600 [=====] - ETA: 0s - loss: 62.7002 - reconstruction_error: 35.9596 - regularization_error: 26.7407

[2023-11-22 13:53:54.614015]: Generating fixed images for epoch 63 ...



[2023-11-22 13:53:56.230659]: Generating random images for epoch 63 ...



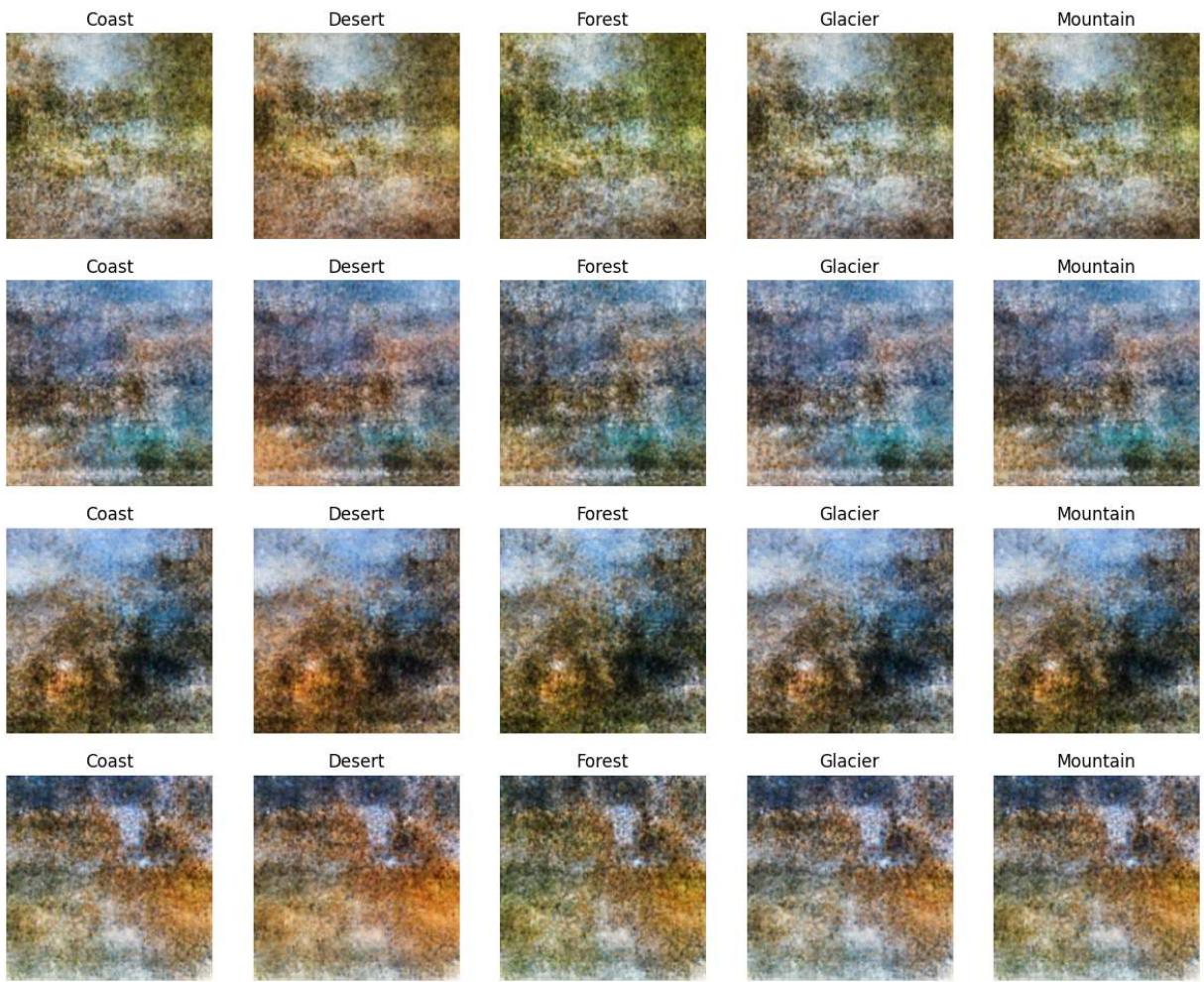
600/600 [=====] - 148s 246ms/step - loss: 62.7002 - reconstruction_error: 35.9596 - regularization_error: 26.7407 - val_loss: 163.3196 - val_reconstruction_error: 136.8676 - val_regularization_error: 26.4520

Epoch 64/100
600/600 [=====] - ETA: 0s - loss: 62.5539 - reconstruction_error: 35.8506 - regularization_error: 26.7033

[2023-11-22 13:56:29.092196]: Generating fixed images for epoch 64 ...



[2023-11-22 13:56:30.230634]: Generating random images for epoch 64 ...



600/600 [=====] - 154s 256ms/step - loss: 62.5539 - reconstruction_error: 35.8506 - regularization_error: 26.7033 - val_loss: 163.8325 - val_reconstruction_error: 137.5691 - val_regularization_error: 26.2635

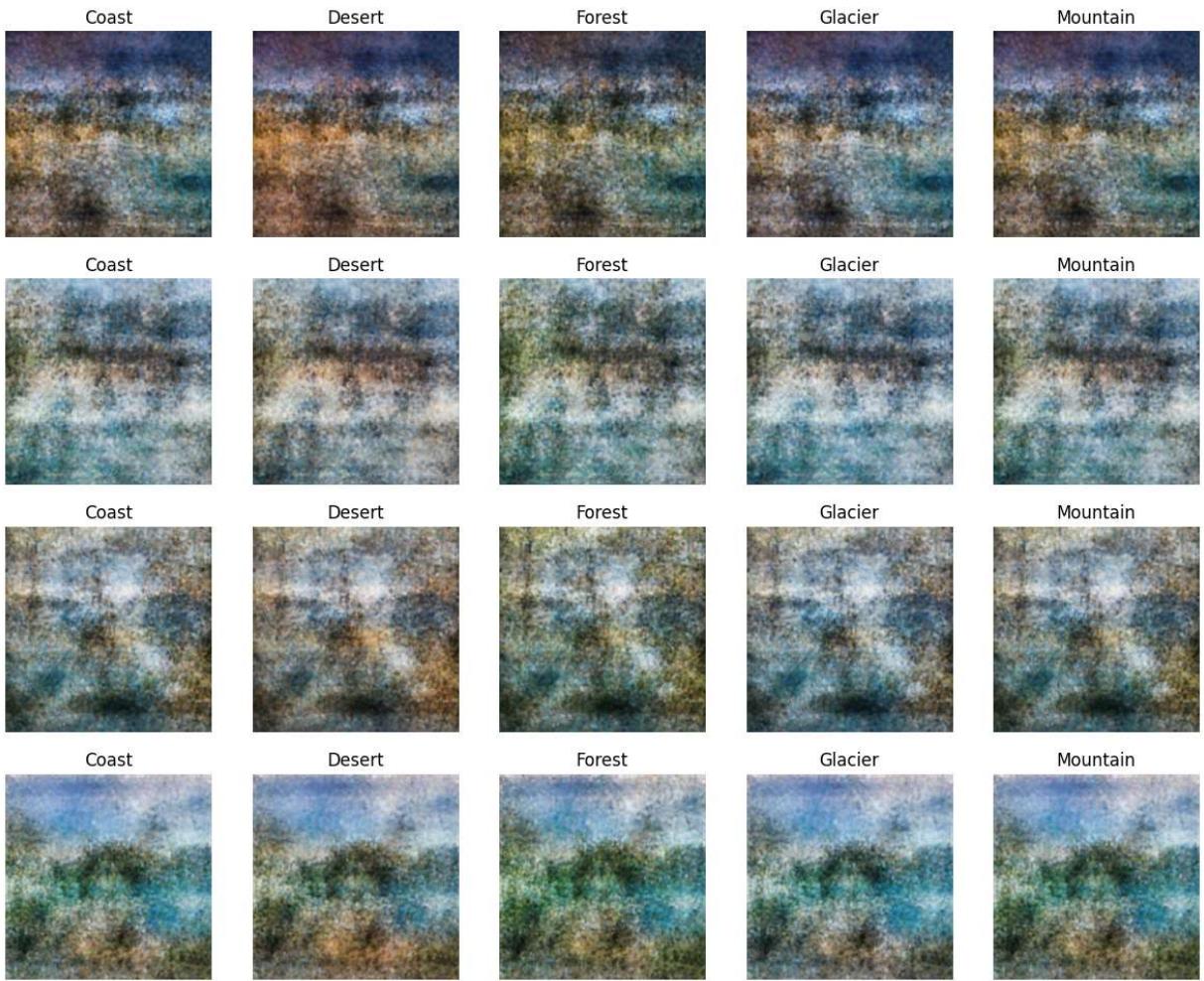
Epoch 65/100

600/600 [=====] - ETA: 0s - loss: 62.4048 - reconstruction_error: 35.7347 - regularization_error: 26.6701

[2023-11-22 13:59:06.451726]: Generating fixed images for epoch 65 ...



[2023-11-22 13:59:07.615120]: Generating random images for epoch 65 ...



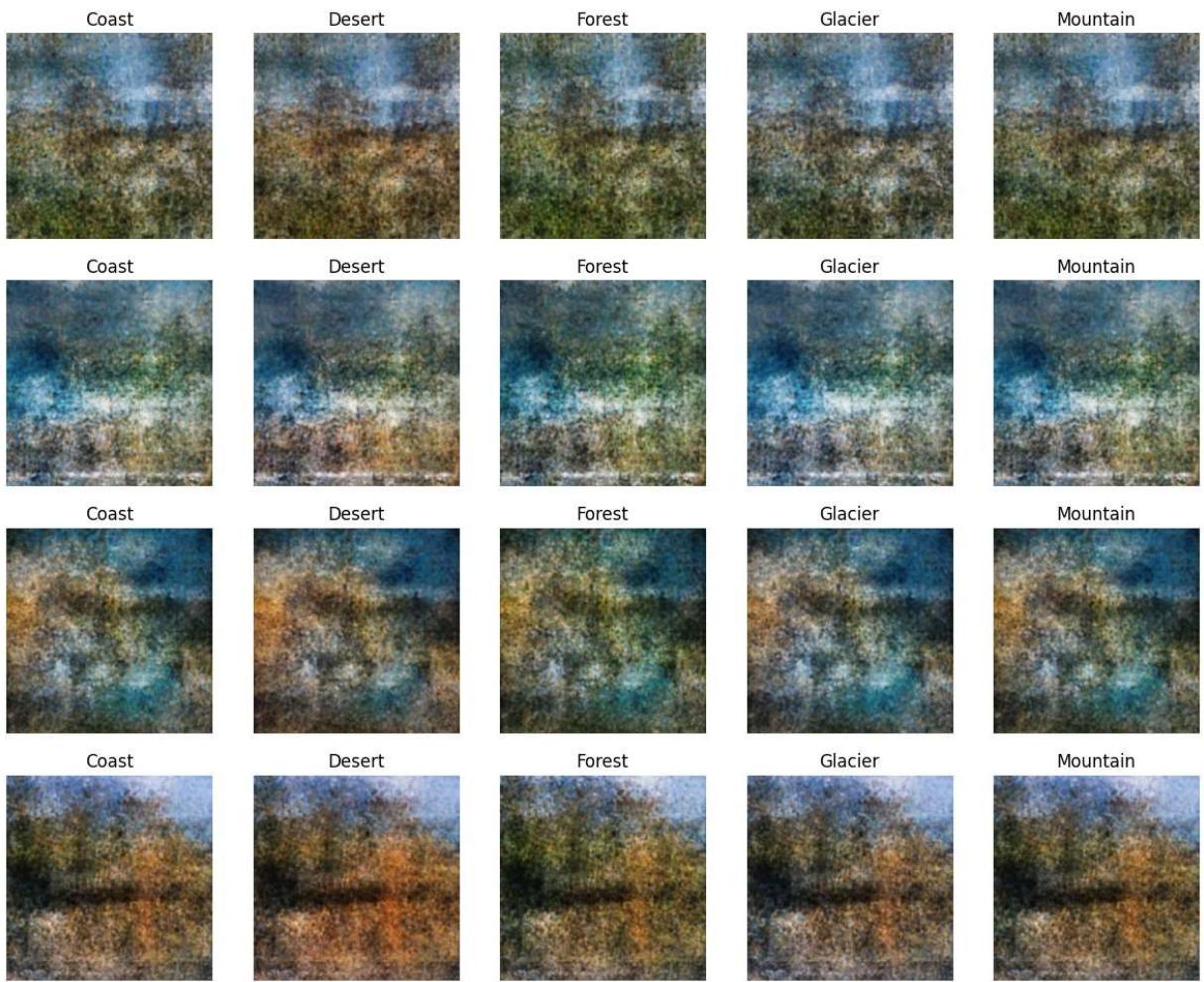
600/600 [=====] - 158s 263ms/step - loss: 62.4048 - reconstruction_error: 35.7347 - regularization_error: 26.6701 - val_loss: 161.9417 - val_reconstruction_error: 135.8523 - val_regularization_error: 26.0893
Epoch 66/100

600/600 [=====] - ETA: 0s - loss: 62.1602 - reconstruction_error: 35.5246 - regularization_error: 26.6355

[2023-11-22 14:01:48.333552]: Generating fixed images for epoch 66 ...



[2023-11-22 14:01:50.223362]: Generating random images for epoch 66 ...



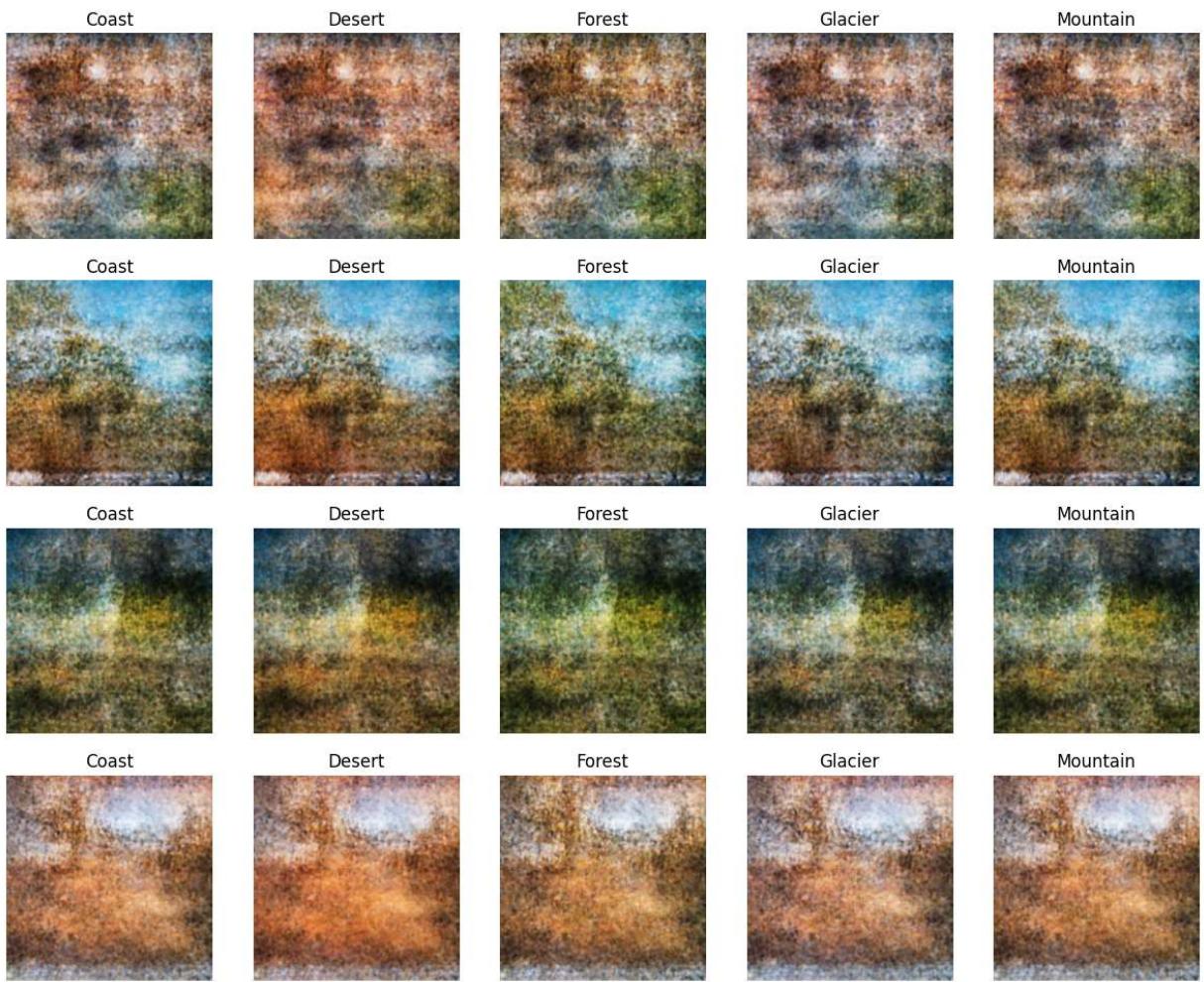
600/600 [=====] - 163s 271ms/step - loss: 62.1602 - reconstruction_error: 35.5246 - regularization_error: 26.6355 - val_loss: 166.3285 - val_reconstruction_error: 140.0159 - val_regularization_error: 26.3127
Epoch 67/100

600/600 [=====] - ETA: 0s - loss: 61.7398 - reconstruction_error: 35.1231 - regularization_error: 26.6167

[2023-11-22 14:04:17.653233]: Generating fixed images for epoch 67 ...



[2023-11-22 14:04:19.209502]: Generating random images for epoch 67 ...



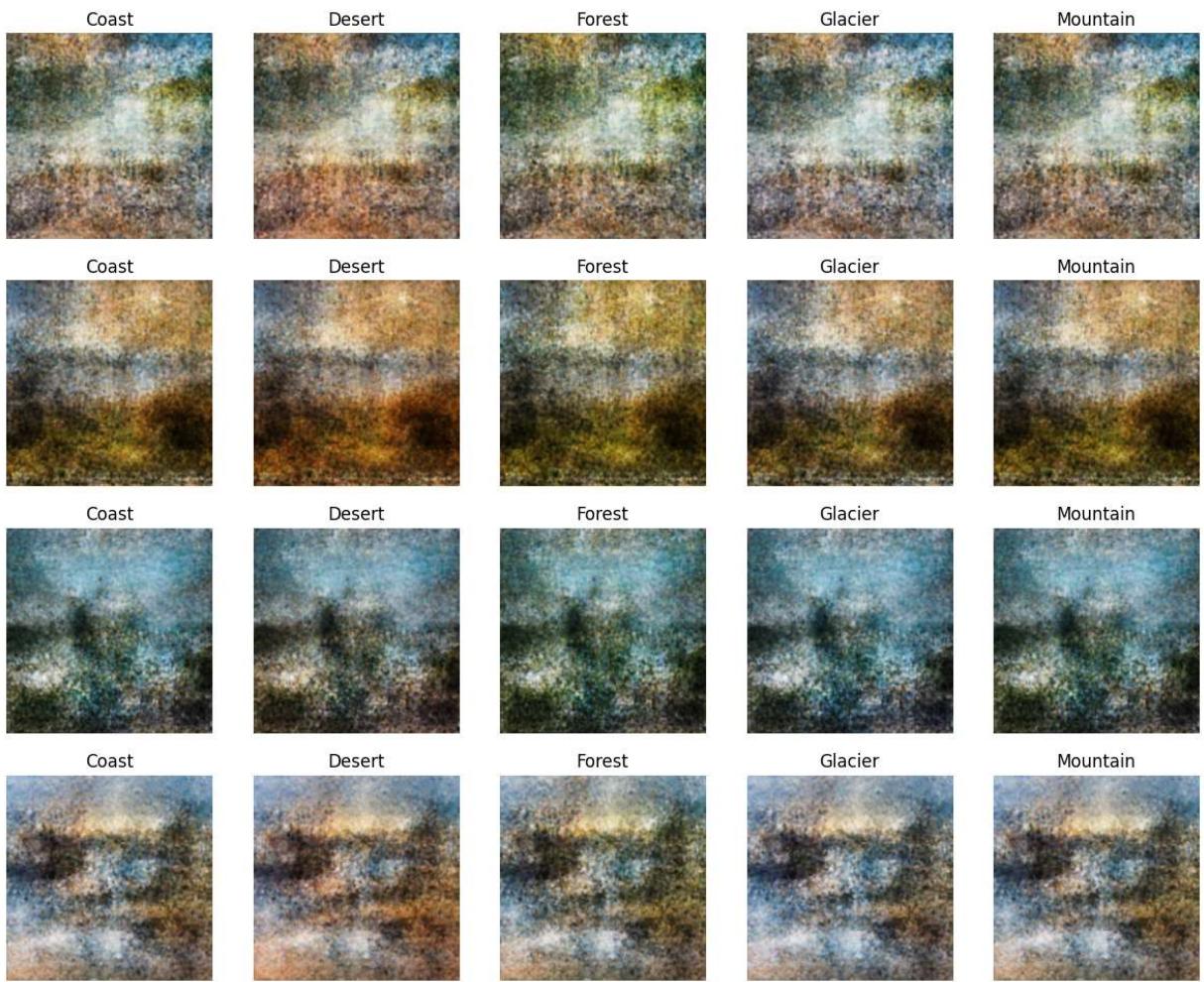
600/600 [=====] - 149s 248ms/step - loss: 61.7398 - reconstruction_error: 35.1231 - regularization_error: 26.6167 - val_loss: 163.1274 - val_reconstruction_error: 136.7160 - val_regularization_error: 26.4114
Epoch 68/100

600/600 [=====] - ETA: 0s - loss: 61.7653 - reconstruction_error: 35.1960 - regularization_error: 26.5693

[2023-11-22 14:06:58.693574]: Generating fixed images for epoch 68 ...



[2023-11-22 14:07:00.219534]: Generating random images for epoch 68 ...



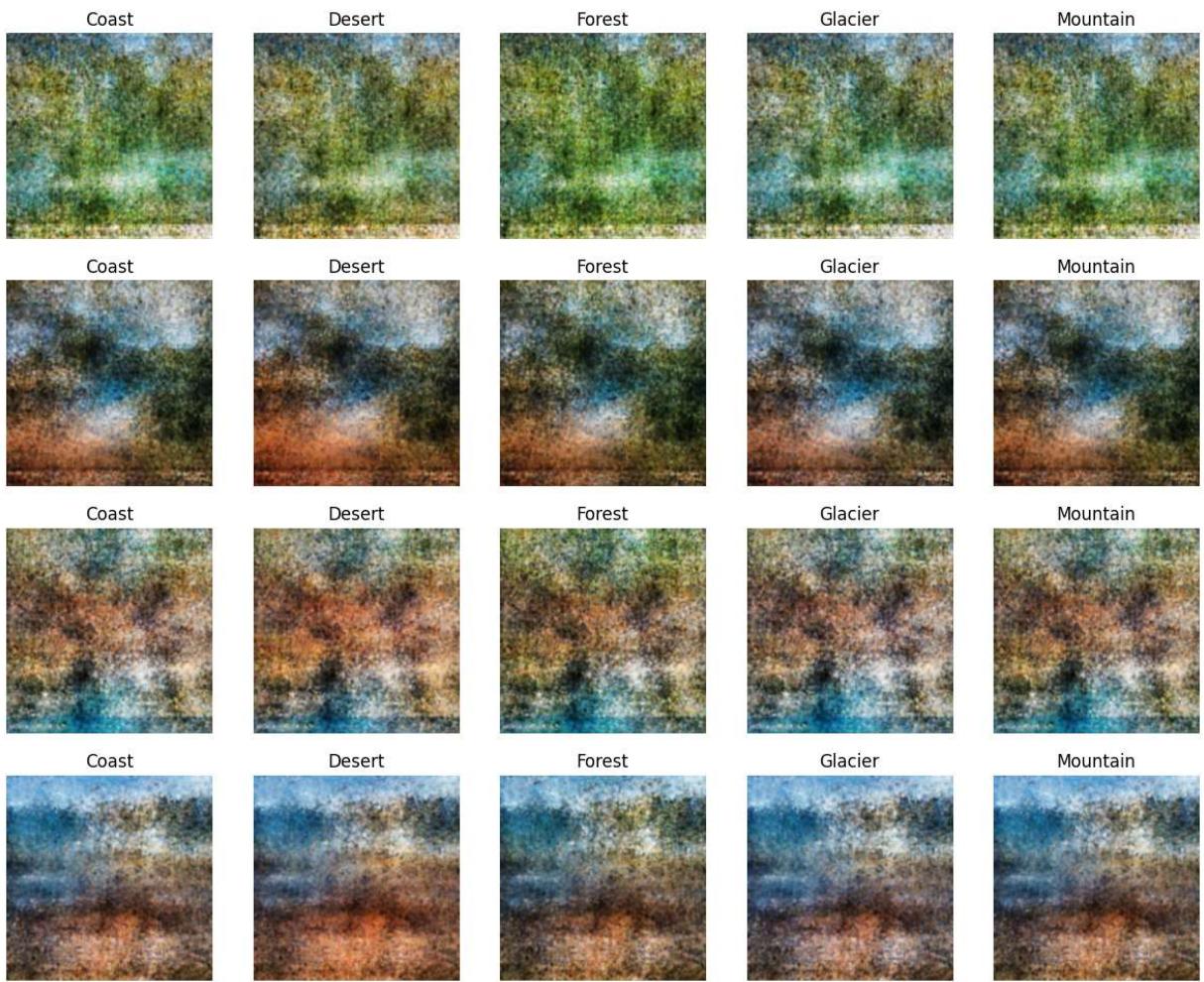
600/600 [=====] - 161s 268ms/step - loss: 61.7653 - reconstruction_error: 35.1960 - regularization_error: 26.5693 - val_loss: 163.0978 - val_reconstruction_error: 137.0236 - val_regularization_error: 26.0742
Epoch 69/100

600/600 [=====] - ETA: 0s - loss: 61.4703 - reconstruction_error: 34.9124 - regularization_error: 26.5579

[2023-11-22 14:09:38.277618]: Generating fixed images for epoch 69 ...



[2023-11-22 14:09:39.256036]: Generating random images for epoch 69 ...



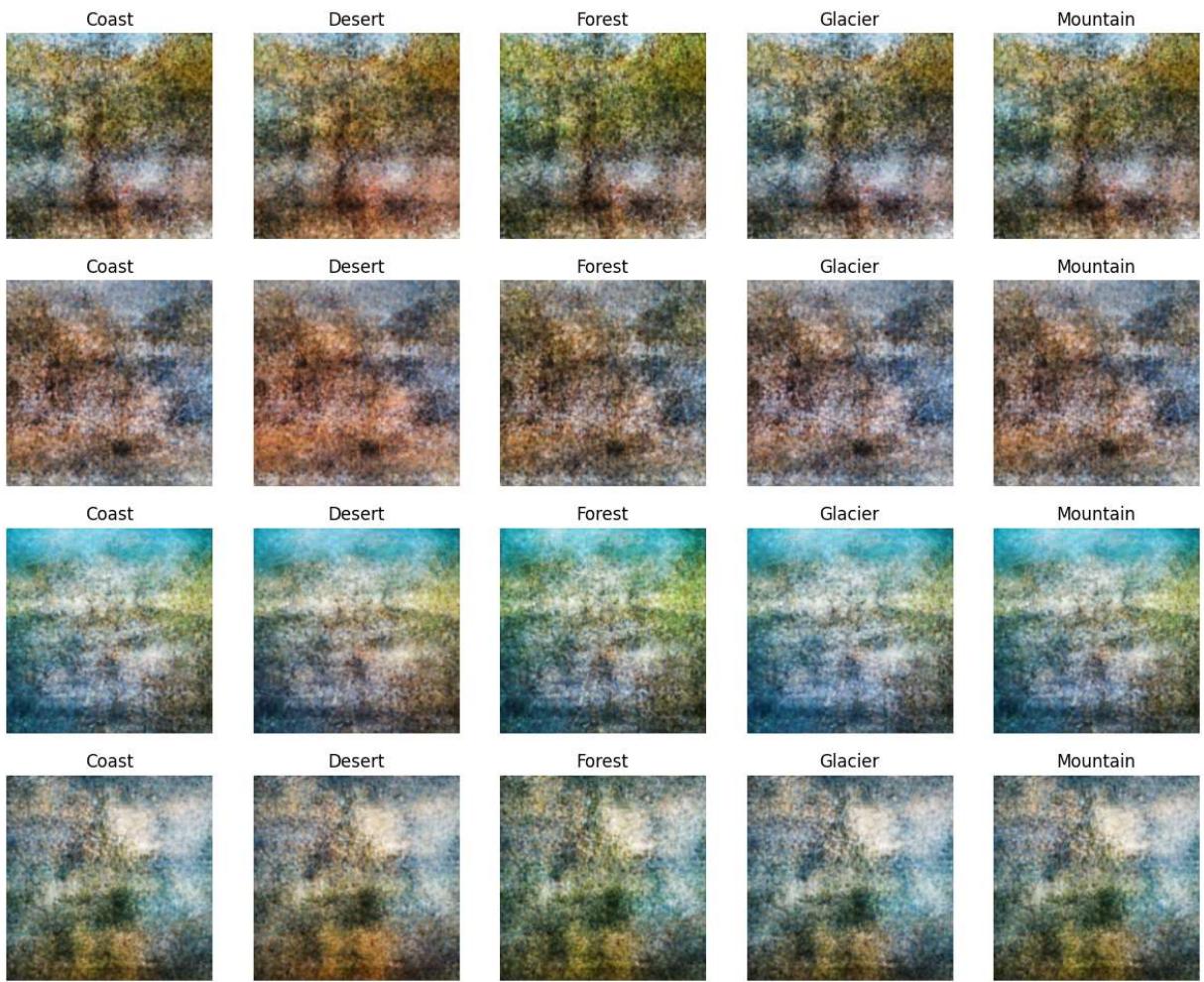
600/600 [=====] - 159s 265ms/step - loss: 61.4703 - reconstruction_error: 34.9124 - regularization_error: 26.5579 - val_loss: 164.1551 - val_reconstruction_error: 138.1283 - val_regularization_error: 26.0267
Epoch 70/100

600/600 [=====] - ETA: 0s - loss: 61.2944 - reconstruction_error: 34.8005 - regularization_error: 26.4939

[2023-11-22 14:12:17.340908]: Generating fixed images for epoch 70 ...



[2023-11-22 14:12:18.672150]: Generating random images for epoch 70 ...



600/600 [=====] - 159s 265ms/step - loss: 61.2944 - reconstruction_error: 34.8005 - regularization_error: 26.4939 - val_loss: 163.8239 - val_reconstruction_error: 137.3763 - val_regularization_error: 26.4477

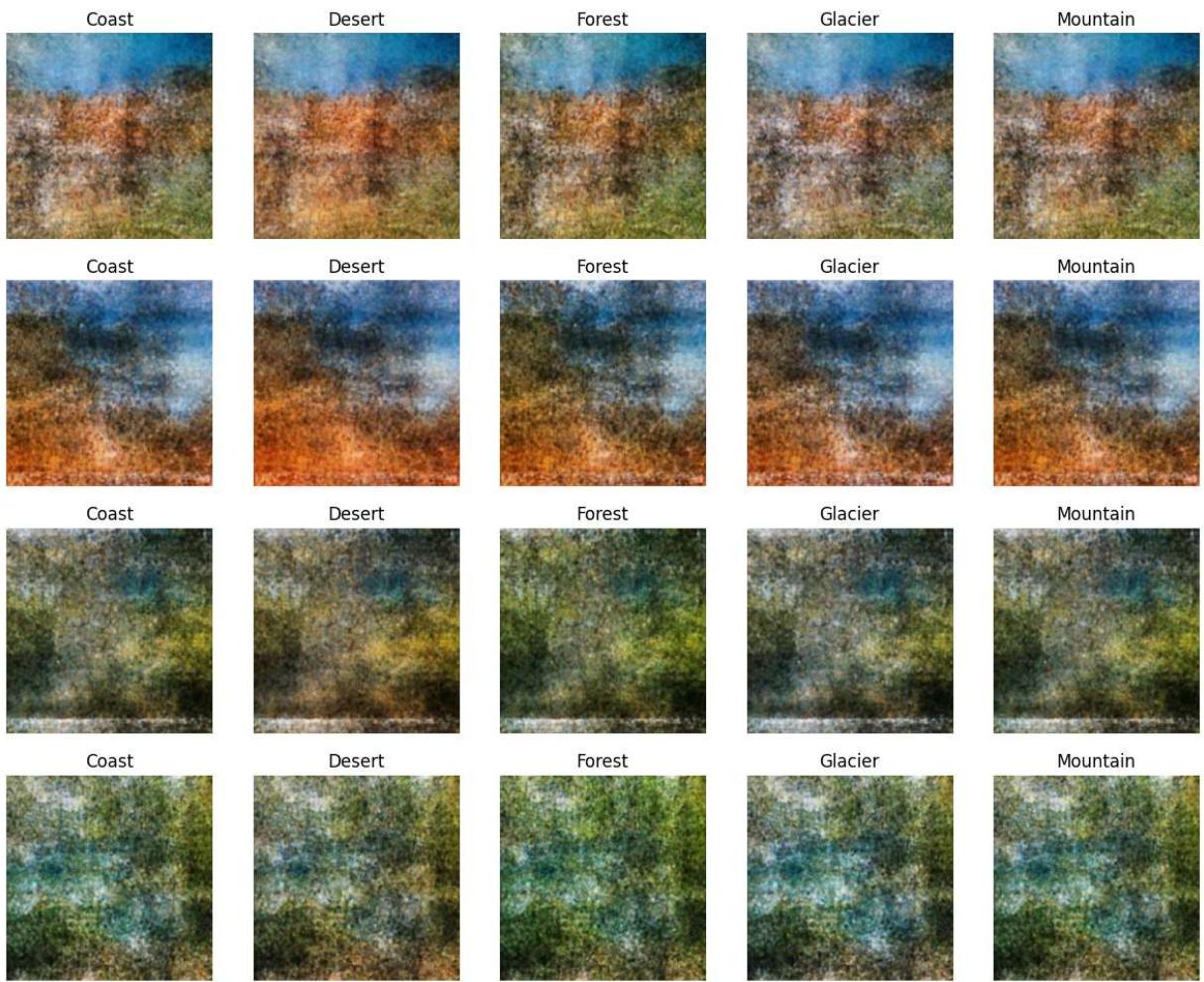
Epoch 71/100

600/600 [=====] - ETA: 0s - loss: 60.9078 - reconstruction_error: 34.4467 - regularization_error: 26.4611

[2023-11-22 14:14:59.863703]: Generating fixed images for epoch 71 ...



[2023-11-22 14:15:01.071514]: Generating random images for epoch 71 ...



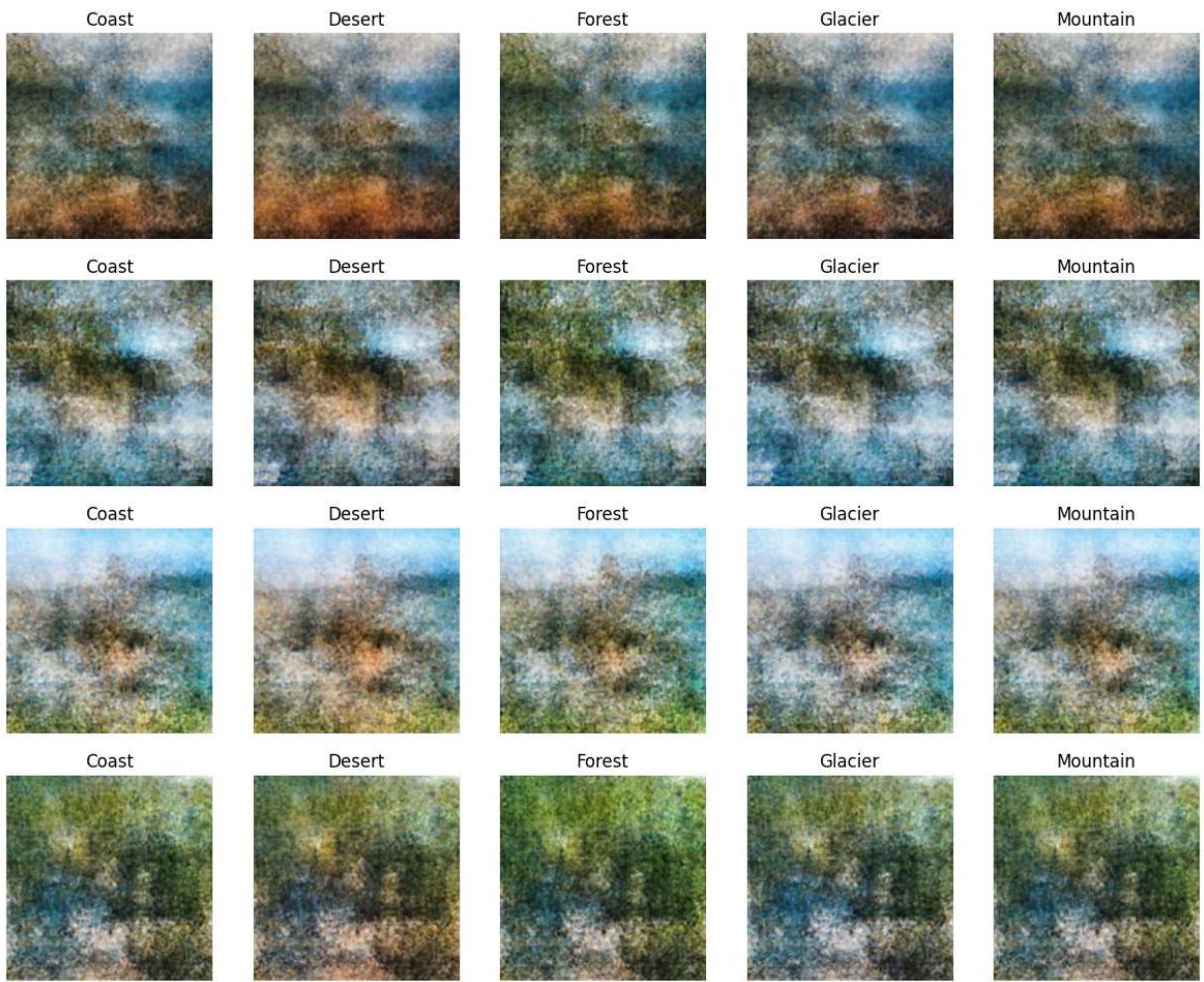
600/600 [=====] - 163s 271ms/step - loss: 60.9078 - reconstruction_error: 34.4467 - regularization_error: 26.4611 - val_loss: 167.0354 - val_reconstruction_error: 141.0576 - val_regularization_error: 25.9778
Epoch 72/100

600/600 [=====] - ETA: 0s - loss: 60.7993 - reconstruction_error: 34.3523 - regularization_error: 26.4471

[2023-11-22 14:17:40.955697]: Generating fixed images for epoch 72 ...



[2023-11-22 14:17:42.236424]: Generating random images for epoch 72 ...



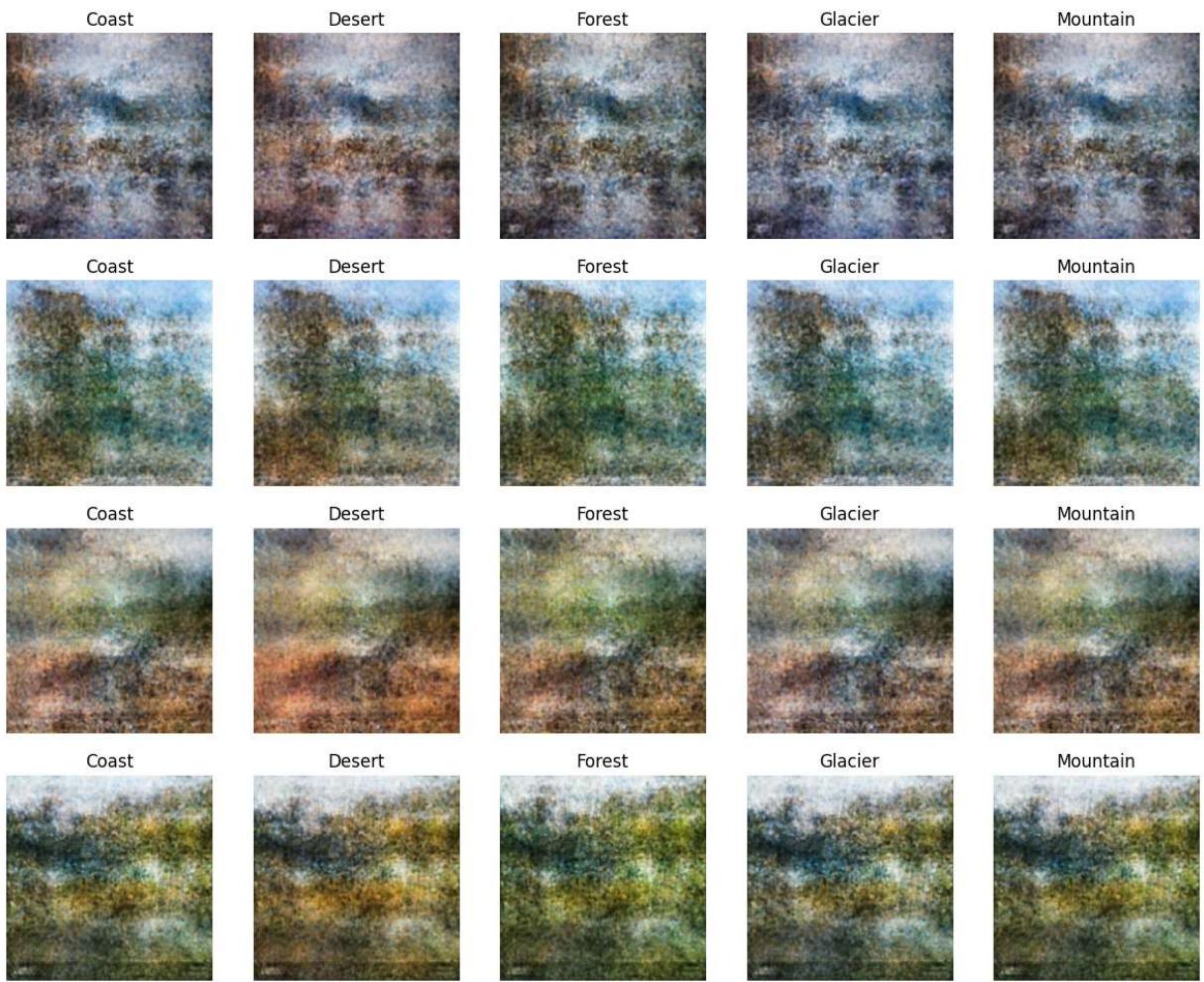
600/600 [=====] - 161s 267ms/step - loss: 60.7993 - reconstruction_error: 34.3523 - regularization_error: 26.4471 - val_loss: 165.9162 - val_reconstruction_error: 139.2809 - val_regularization_error: 26.6353
Epoch 73/100

600/600 [=====] - ETA: 0s - loss: 60.6205 - reconstruction_error: 34.1962 - regularization_error: 26.4243

[2023-11-22 14:20:16.464703]: Generating fixed images for epoch 73 ...



[2023-11-22 14:20:18.258364]: Generating random images for epoch 73 ...



600/600 [=====] - 156s 260ms/step - loss: 60.6205 - reconstruction_error: 34.1962 - regularization_error: 26.4243 - val_loss: 167.3862 - val_reconstruction_error: 142.0466 - val_regularization_error: 25.3396
Epoch 74/100

600/600 [=====] - ETA: 0s - loss: 60.3801 - reconstruction_error: 34.0114 - regularization_error: 26.3688

[2023-11-22 14:22:58.138575]: Generating fixed images for epoch 74 ...



[2023-11-22 14:22:59.504043]: Generating random images for epoch 74 ...



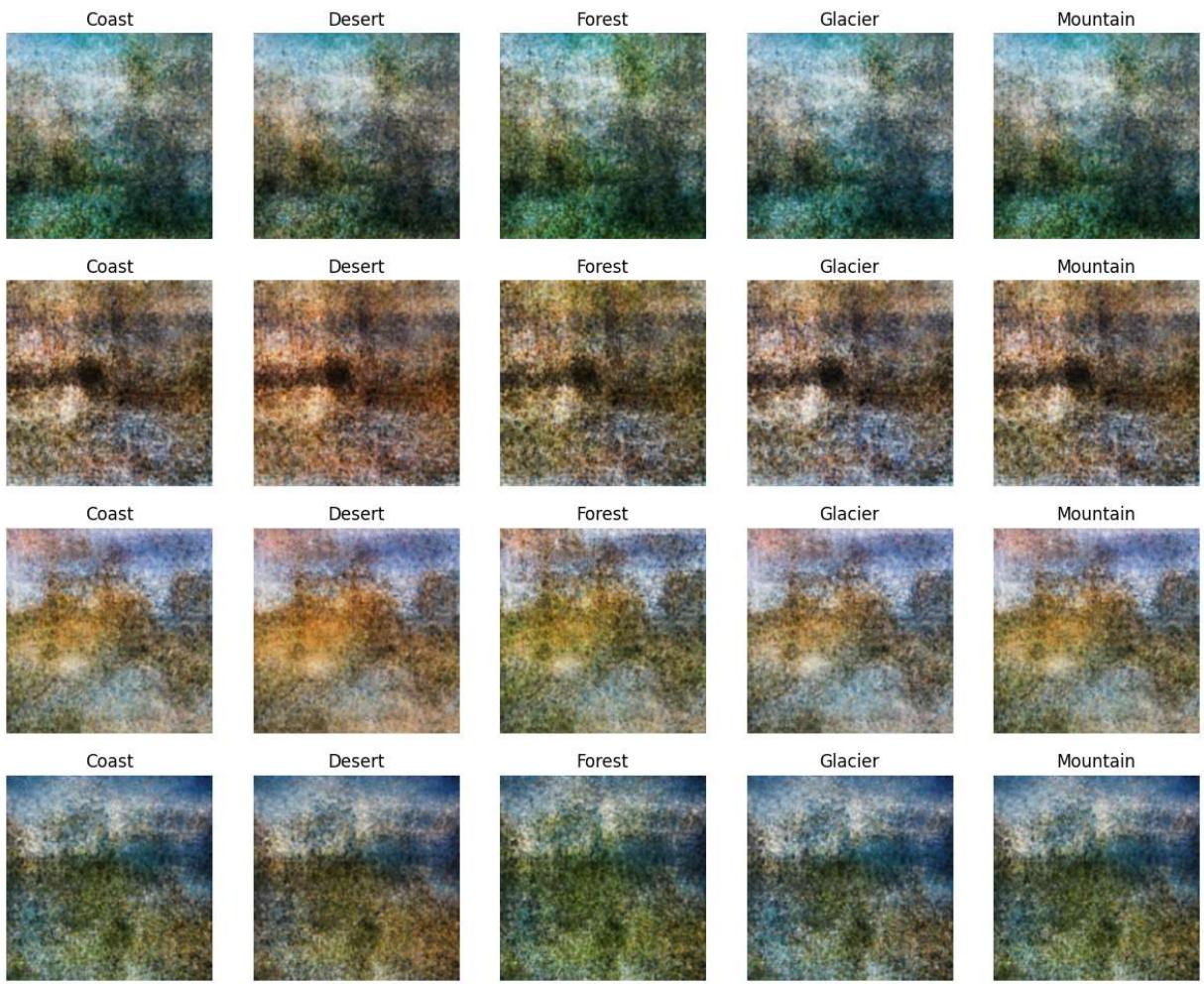
600/600 [=====] - 161s 267ms/step - loss: 60.3801 - reconstruction_error: 34.0114 - regularization_error: 26.3688 - val_loss: 163.4157 - val_reconstruction_error: 137.4830 - val_regularization_error: 25.9327
Epoch 75/100

600/600 [=====] - ETA: 0s - loss: 60.3116 - reconstruction_error: 33.9416 - regularization_error: 26.3700

[2023-11-22 14:25:45.048197]: Generating fixed images for epoch 75 ...



[2023-11-22 14:25:46.445440]: Generating random images for epoch 75 ...



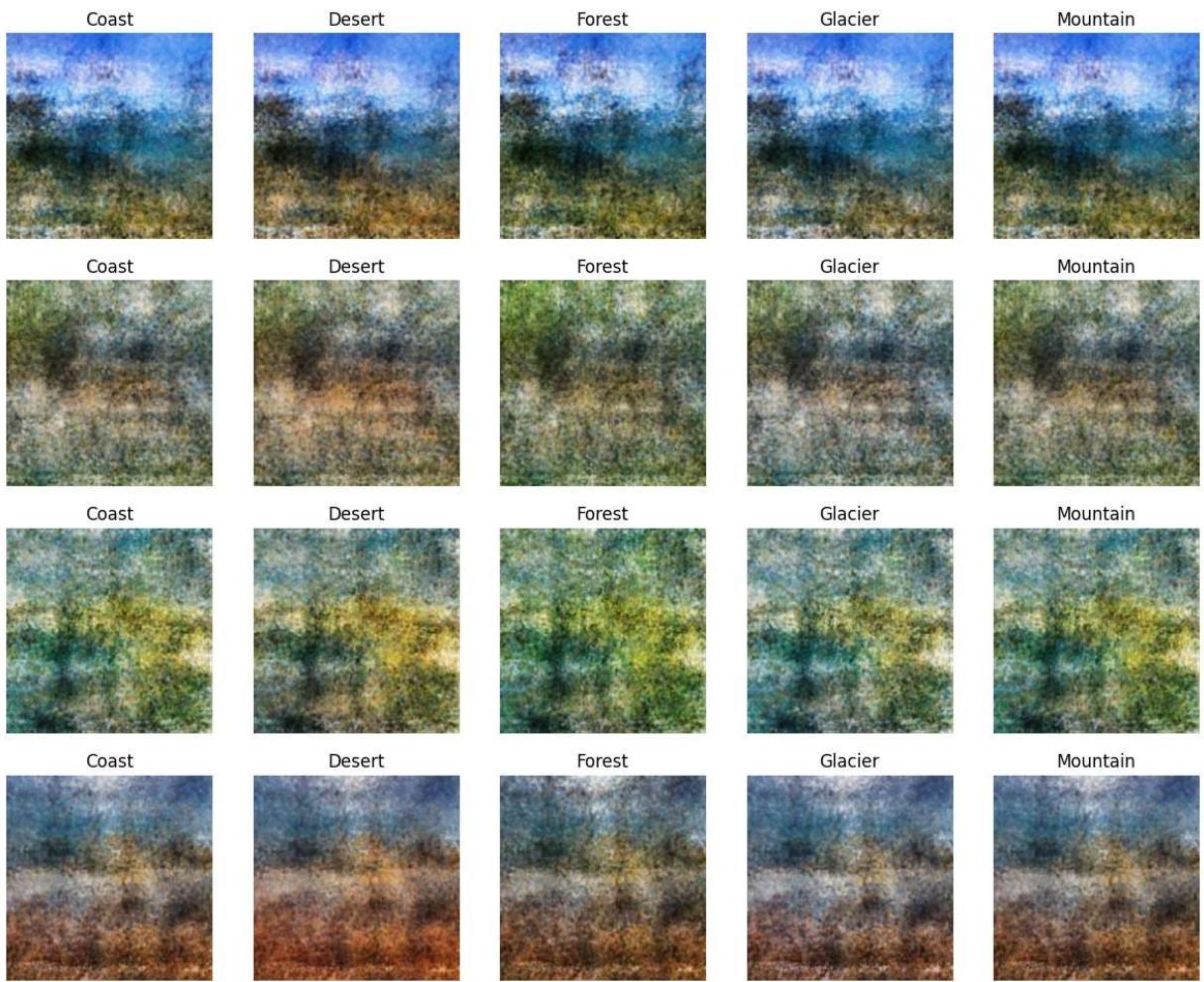
600/600 [=====] - 167s 277ms/step - loss: 60.3116 - reconstruction_error: 33.9416 - regularization_error: 26.3700 - val_loss: 164.9043 - val_reconstruction_error: 138.4148 - val_regularization_error: 26.4895
Epoch 76/100

600/600 [=====] - ETA: 0s - loss: 59.9795 - reconstruction_error: 33.6395 - regularization_error: 26.3400

[2023-11-22 14:28:31.414139]: Generating fixed images for epoch 76 ...



[2023-11-22 14:28:33.210758]: Generating random images for epoch 76 ...



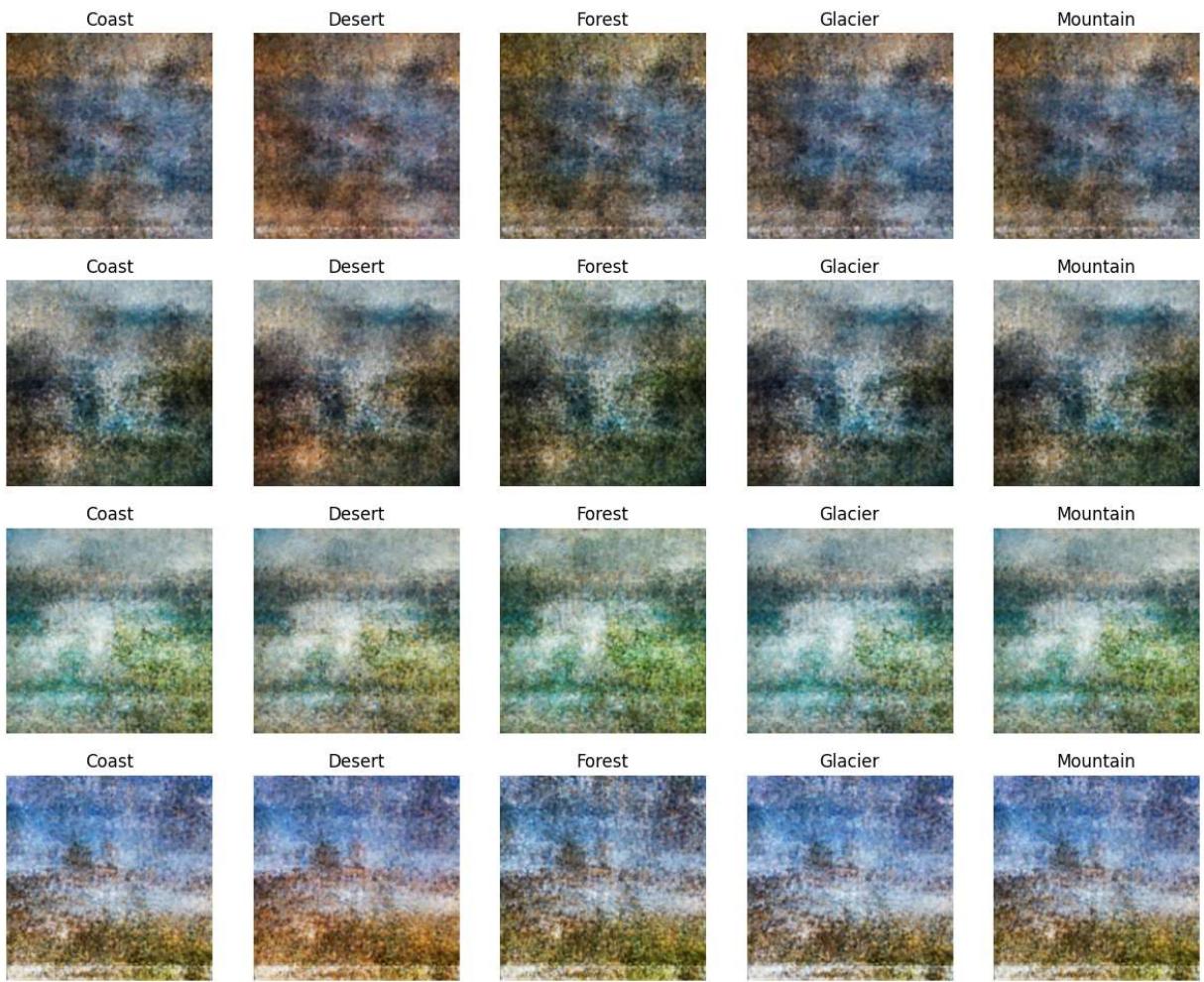
600/600 [=====] - 168s 279ms/step - loss: 59.9795 - reconstruction_error: 33.6395 - regularization_error: 26.3400 - val_loss: 163.8528 - val_reconstruction_error: 138.0401 - val_regularization_error: 25.8126
Epoch 77/100

600/600 [=====] - ETA: 0s - loss: 59.9099 - reconstruction_error: 33.6086 - regularization_error: 26.3013

[2023-11-22 14:31:08.243811]: Generating fixed images for epoch 77 ...



[2023-11-22 14:31:09.581126]: Generating random images for epoch 77 ...



600/600 [=====] - 156s 259ms/step - loss: 59.9099 - reconstruction_error: 33.6086 - regularization_error: 26.3013 - val_loss: 166.7540 - val_reconstruction_error: 140.4969 - val_regularization_error: 26.2571

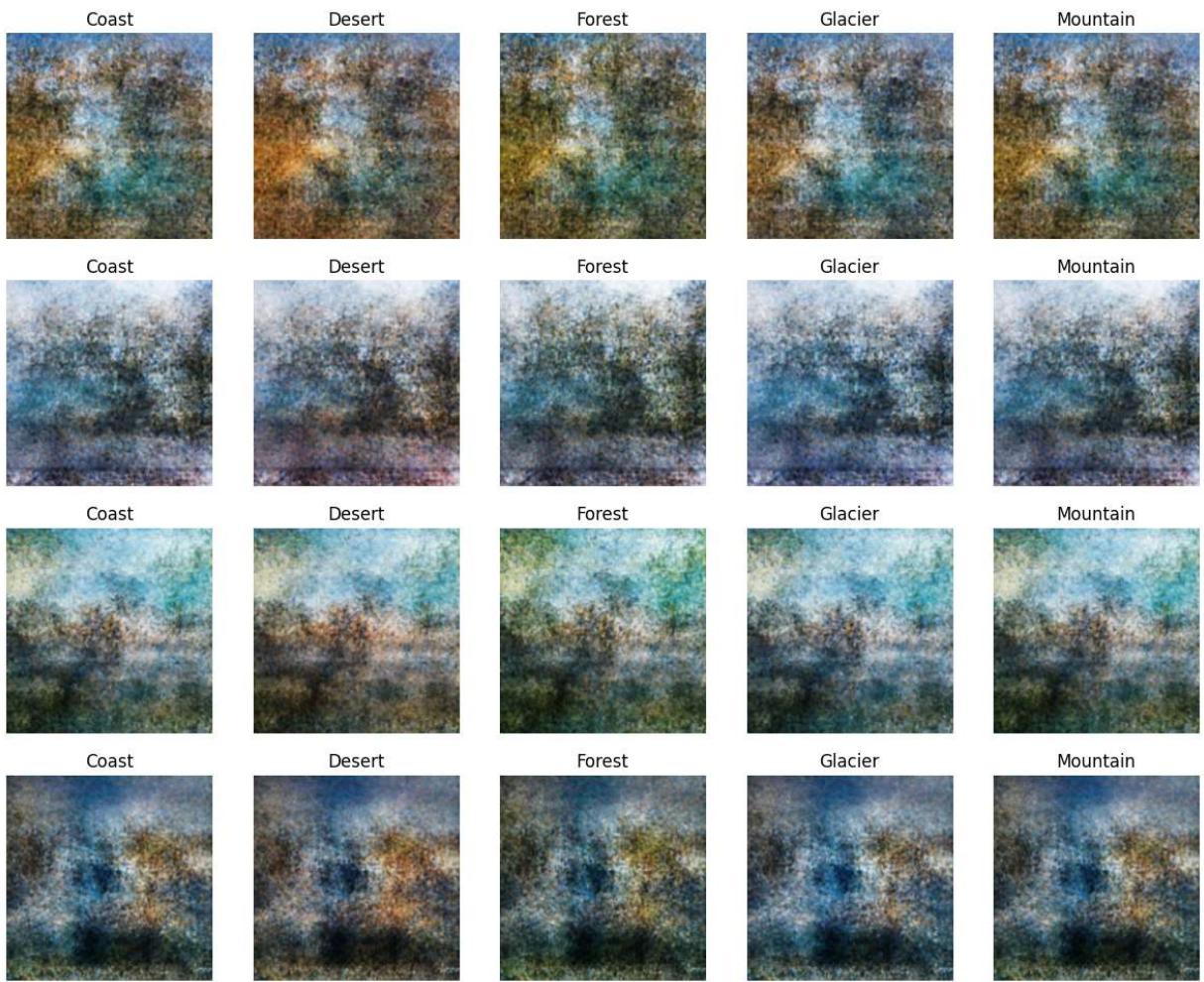
Epoch 78/100

600/600 [=====] - ETA: 0s - loss: 59.7388 - reconstruction_error: 33.4751 - regularization_error: 26.2637

[2023-11-22 14:33:53.530712]: Generating fixed images for epoch 78 ...



[2023-11-22 14:33:55.178803]: Generating random images for epoch 78 ...



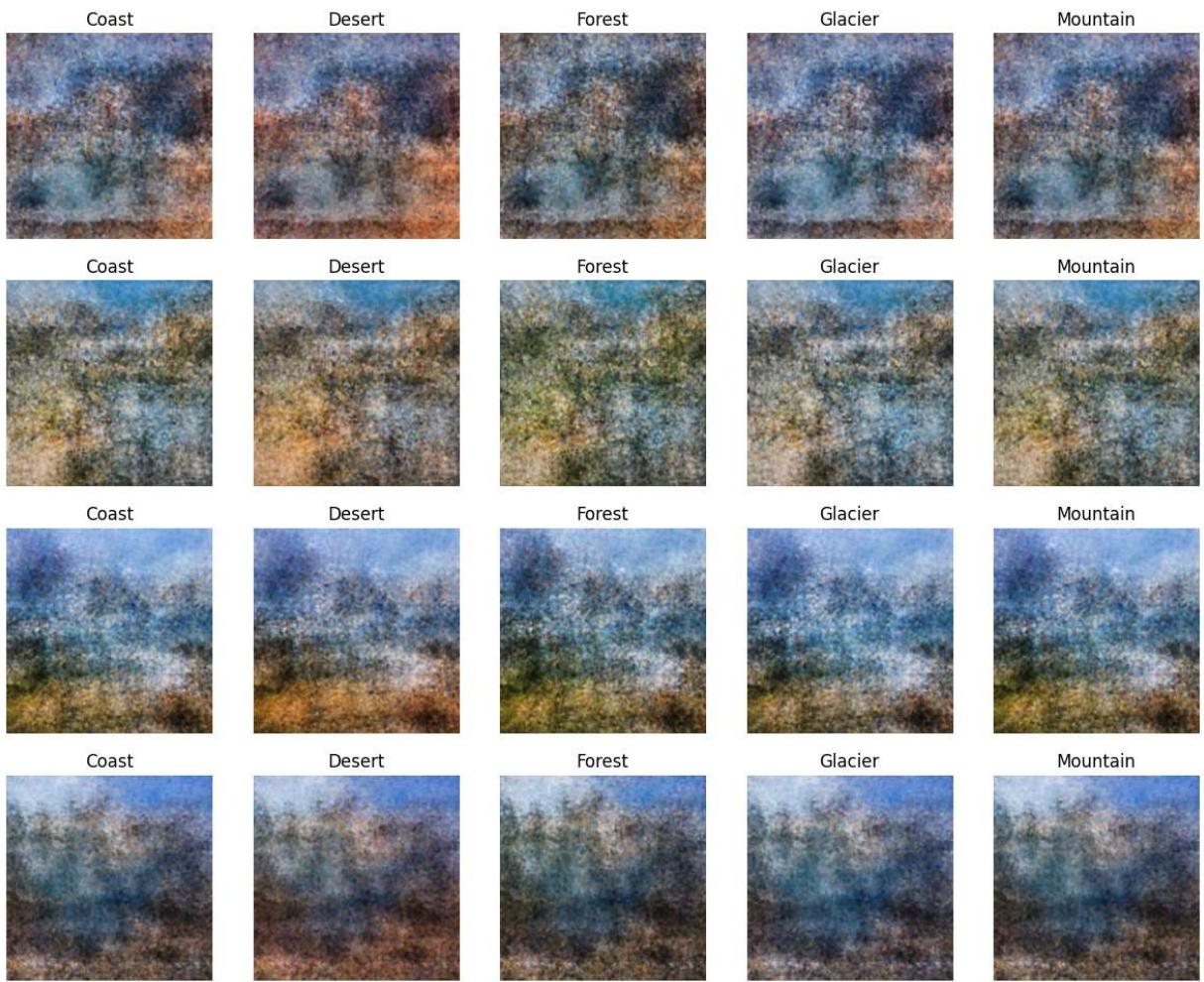
600/600 [=====] - 166s 277ms/step - loss: 59.7388 - reconstruction_error: 33.4751 - regularization_error: 26.2637 - val_loss: 165.3603 - val_reconstruction_error: 139.4100 - val_regularization_error: 25.9502
Epoch 79/100

600/600 [=====] - ETA: 0s - loss: 59.5408 - reconstruction_error: 33.3144 - regularization_error: 26.2265

[2023-11-22 14:36:33.445242]: Generating fixed images for epoch 79 ...



[2023-11-22 14:36:34.697937]: Generating random images for epoch 79 ...



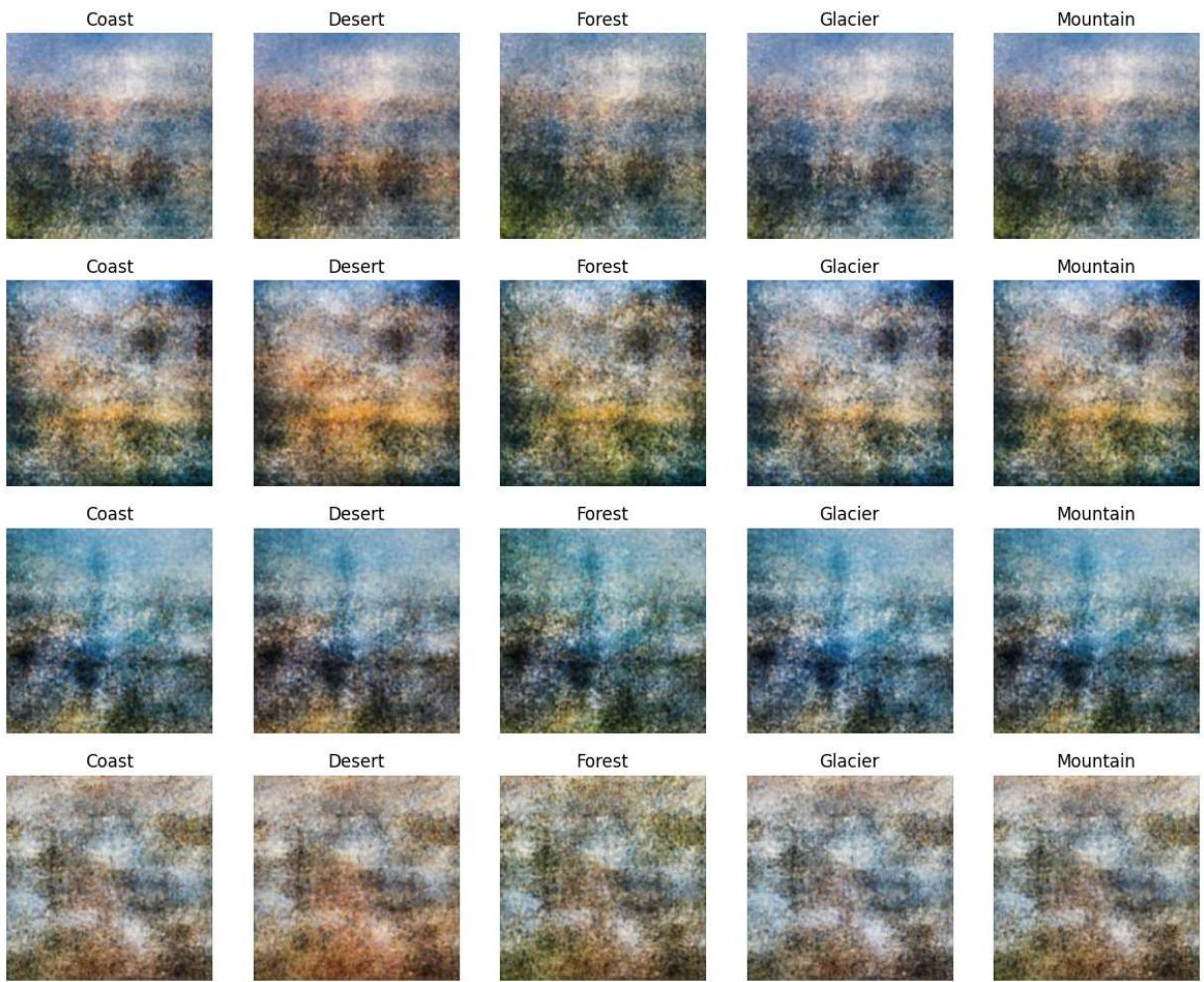
600/600 [=====] - 159s 264ms/step - loss: 59.5408 - reconstruction_error: 33.3144 - regularization_error: 26.2265 - val_loss: 164.2136 - val_reconstruction_error: 138.1598 - val_regularization_error: 26.0538
Epoch 80/100

600/600 [=====] - ETA: 0s - loss: 59.4943 - reconstruction_error: 33.2881 - regularization_error: 26.2062

[2023-11-22 14:39:23.400897]: Generating fixed images for epoch 80 ...



[2023-11-22 14:39:25.299529]: Generating random images for epoch 80 ...



600/600 [=====] - 171s 284ms/step - loss: 59.4943 - reconstruction_error: 33.2881 - regularization_error: 26.2062 - val_loss: 166.8409 - val_reconstruction_error: 140.1712 - val_regularization_error: 26.6697

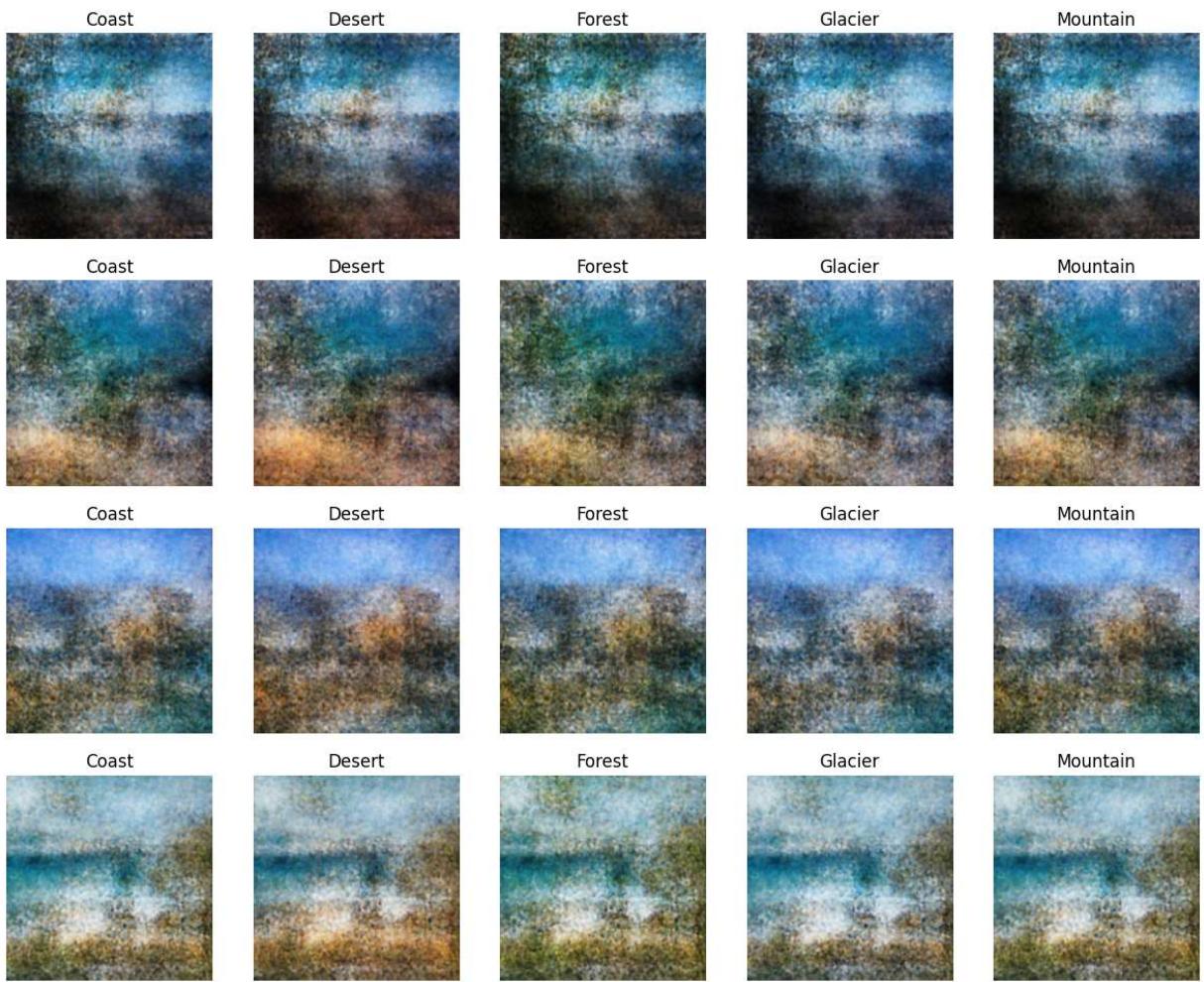
Epoch 81/100

600/600 [=====] - ETA: 0s - loss: 59.2094 - reconstruction_error: 33.0273 - regularization_error: 26.1821

[2023-11-22 14:42:11.760873]: Generating fixed images for epoch 81 ...



[2023-11-22 14:42:13.260515]: Generating random images for epoch 81 ...



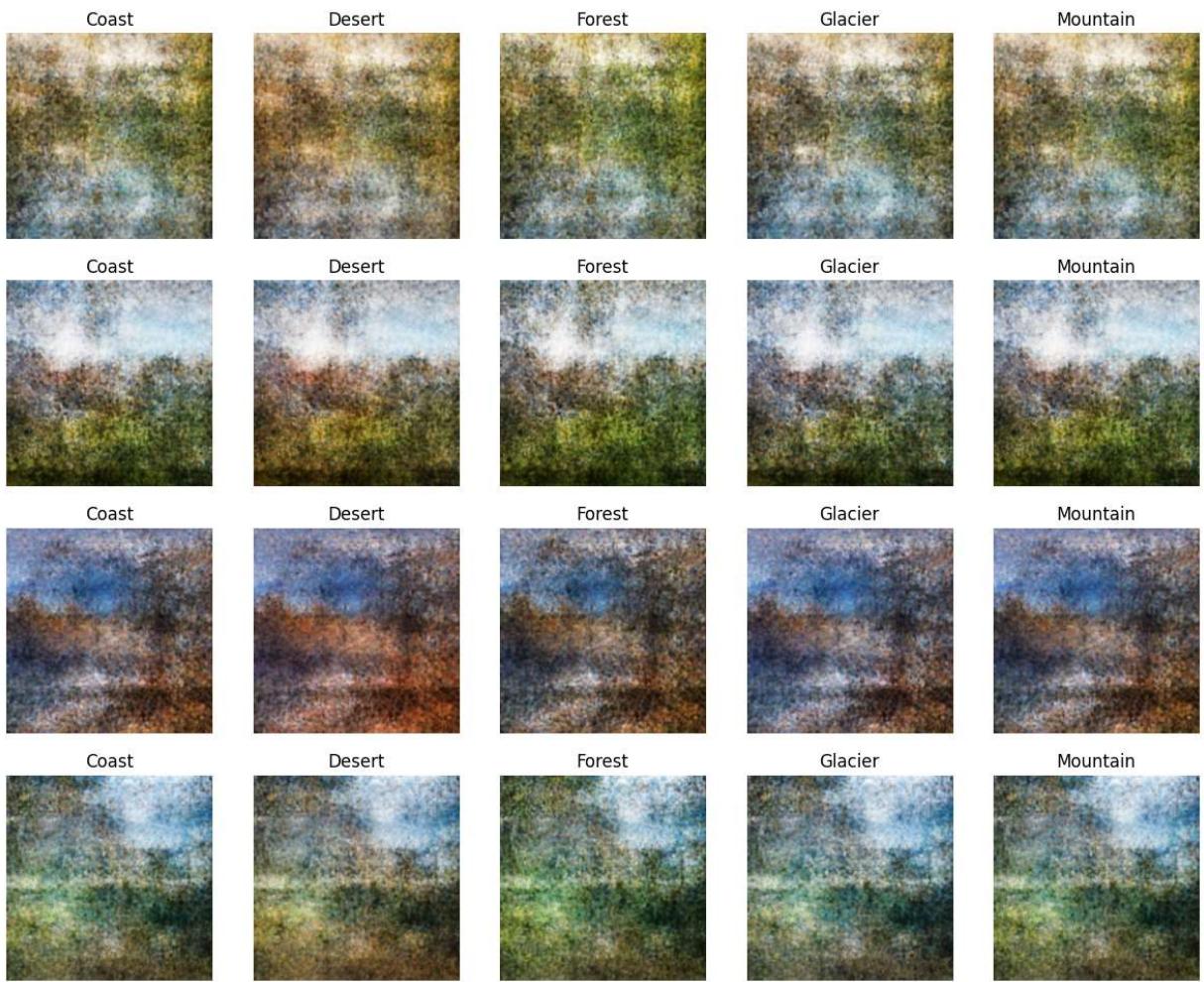
600/600 [=====] - 168s 280ms/step - loss: 59.2094 - reconstruction_error: 33.0273 - regularization_error: 26.1821 - val_loss: 165.0905 - val_reconstruction_error: 139.3691 - val_regularization_error: 25.7214
Epoch 82/100

600/600 [=====] - ETA: 0s - loss: 58.9762 - reconstruction_error: 32.8242 - regularization_error: 26.1520

[2023-11-22 14:44:46.537126]: Generating fixed images for epoch 82 ...



[2023-11-22 14:44:48.332207]: Generating random images for epoch 82 ...



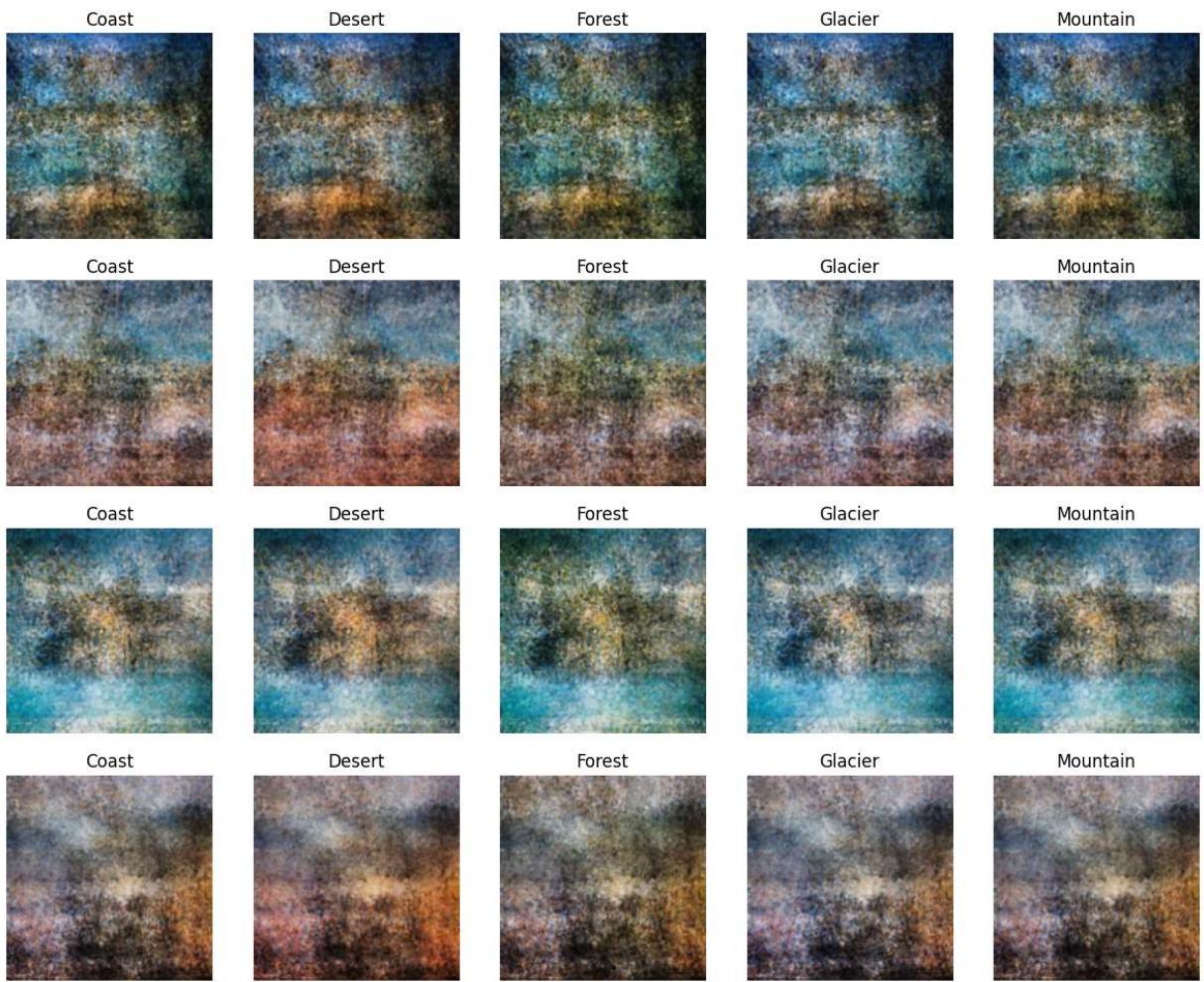
600/600 [=====] - 156s 259ms/step - loss: 58.9762 - reconstruction_error: 32.8242 - regularization_error: 26.1520 - val_loss: 165.7671 - val_reconstruction_error: 140.4338 - val_regularization_error: 25.3334
Epoch 83/100

600/600 [=====] - ETA: 0s - loss: 58.8490 - reconstruction_error: 32.6929 - regularization_error: 26.1561

[2023-11-22 14:47:32.042822]: Generating fixed images for epoch 83 ...



[2023-11-22 14:47:33.395819]: Generating random images for epoch 83 ...



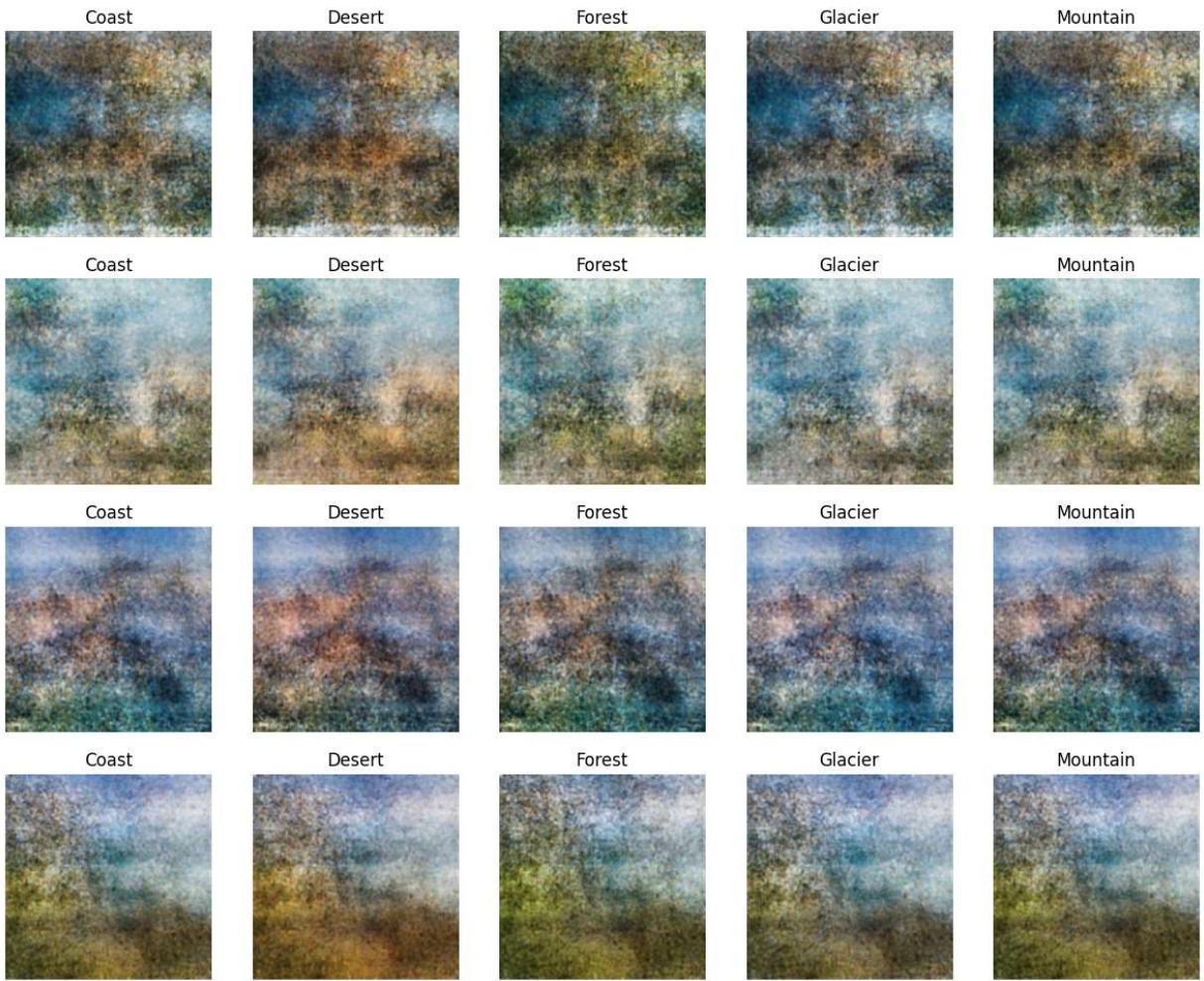
600/600 [=====] - 165s 274ms/step - loss: 58.8490 - reconstruction_error: 32.6929 - regularization_error: 26.1561 - val_loss: 164.5011 - val_reconstruction_error: 138.4923 - val_regularization_error: 26.0088
Epoch 84/100

600/600 [=====] - ETA: 0s - loss: 58.6409 - reconstruction_error: 32.5453 - regularization_error: 26.0955

[2023-11-22 14:50:11.794248]: Generating fixed images for epoch 84 ...



[2023-11-22 14:50:13.232139]: Generating random images for epoch 84 ...



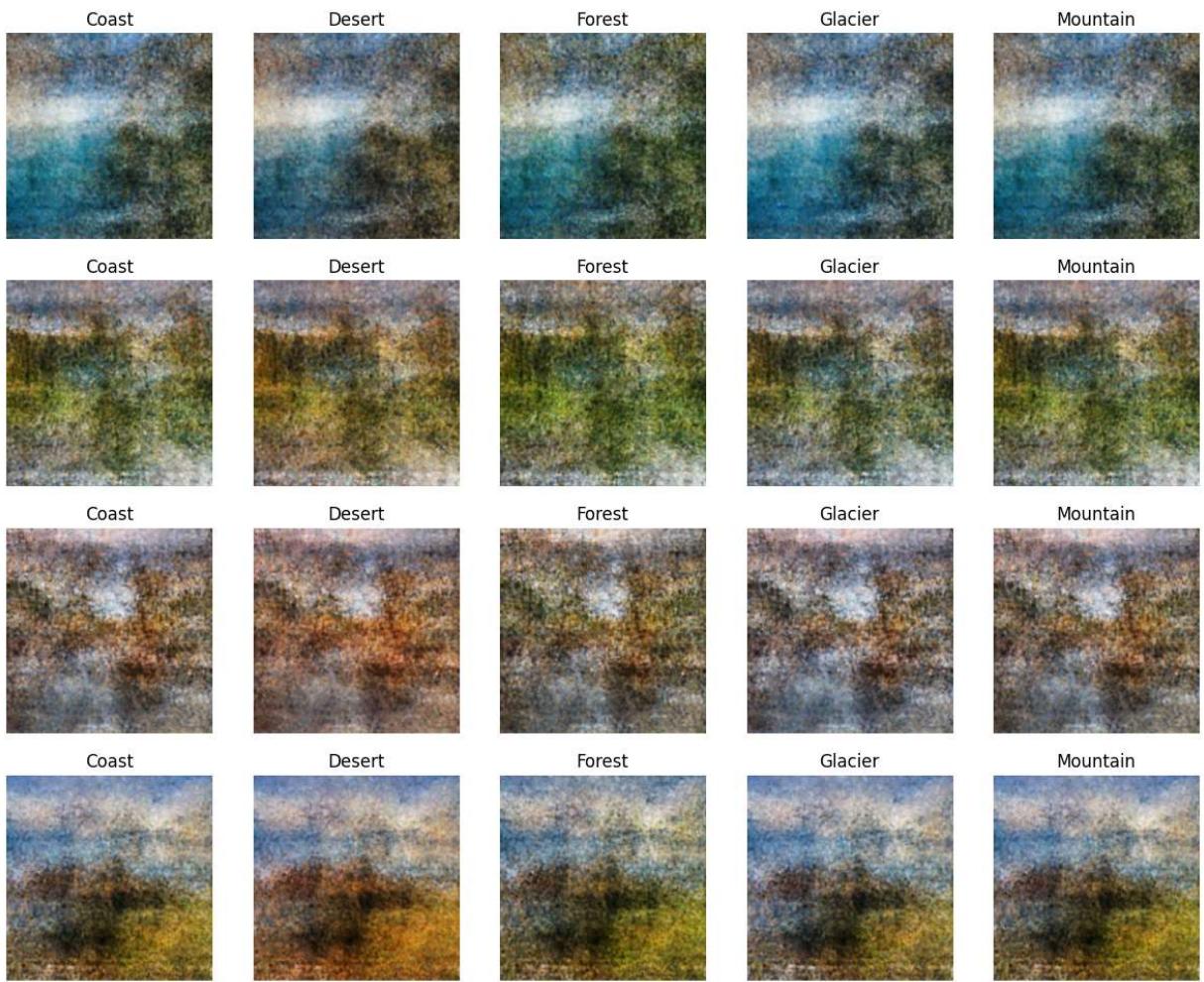
600/600 [=====] - 160s 267ms/step - loss: 58.6409 - reconstruction_error: 32.5453 - regularization_error: 26.0955 - val_loss: 164.0867 - val_reconstruction_error: 138.6188 - val_regularization_error: 25.4679
Epoch 85/100

600/600 [=====] - ETA: 0s - loss: 58.5979 - reconstruction_error: 32.5314 - regularization_error: 26.0665

[2023-11-22 14:52:52.247893]: Generating fixed images for epoch 85 ...



[2023-11-22 14:52:54.191199]: Generating random images for epoch 85 ...



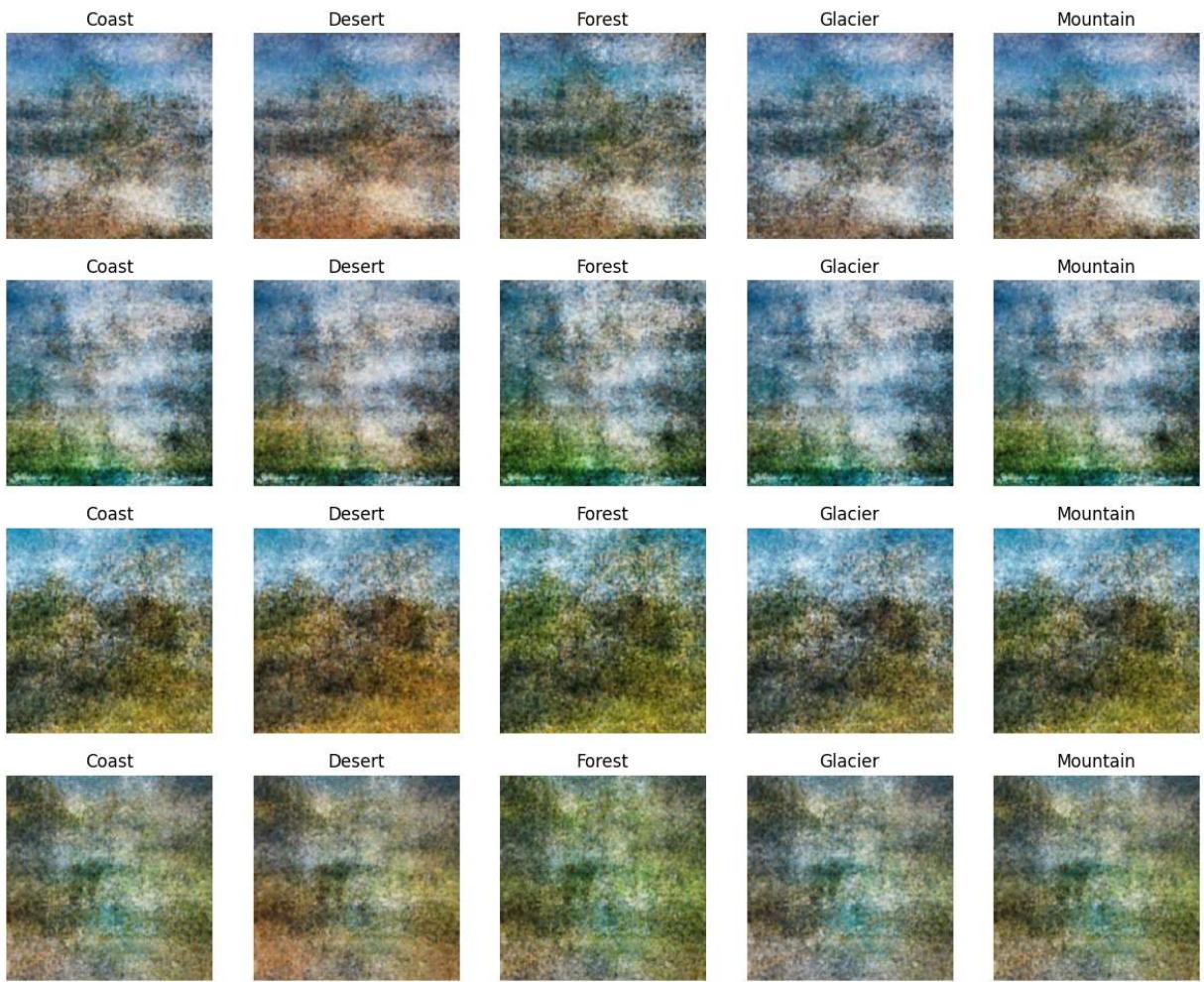
600/600 [=====] - 160s 267ms/step - loss: 58.5979 - reconstruction_error: 32.5314 - regularization_error: 26.0665 - val_loss: 164.5733 - val_reconstruction_error: 138.3559 - val_regularization_error: 26.2174
Epoch 86/100

600/600 [=====] - ETA: 0s - loss: 58.4042 - reconstruction_error: 32.3326 - regularization_error: 26.0716

[2023-11-22 14:55:35.469185]: Generating fixed images for epoch 86 ...



[2023-11-22 14:55:36.741995]: Generating random images for epoch 86 ...



600/600 [=====] - 163s 271ms/step - loss: 58.4042 - reconstruction_error: 32.3326 - regularization_error: 26.0716 - val_loss: 164.8592 - val_reconstruction_error: 138.8027 - val_regularization_error: 26.0564

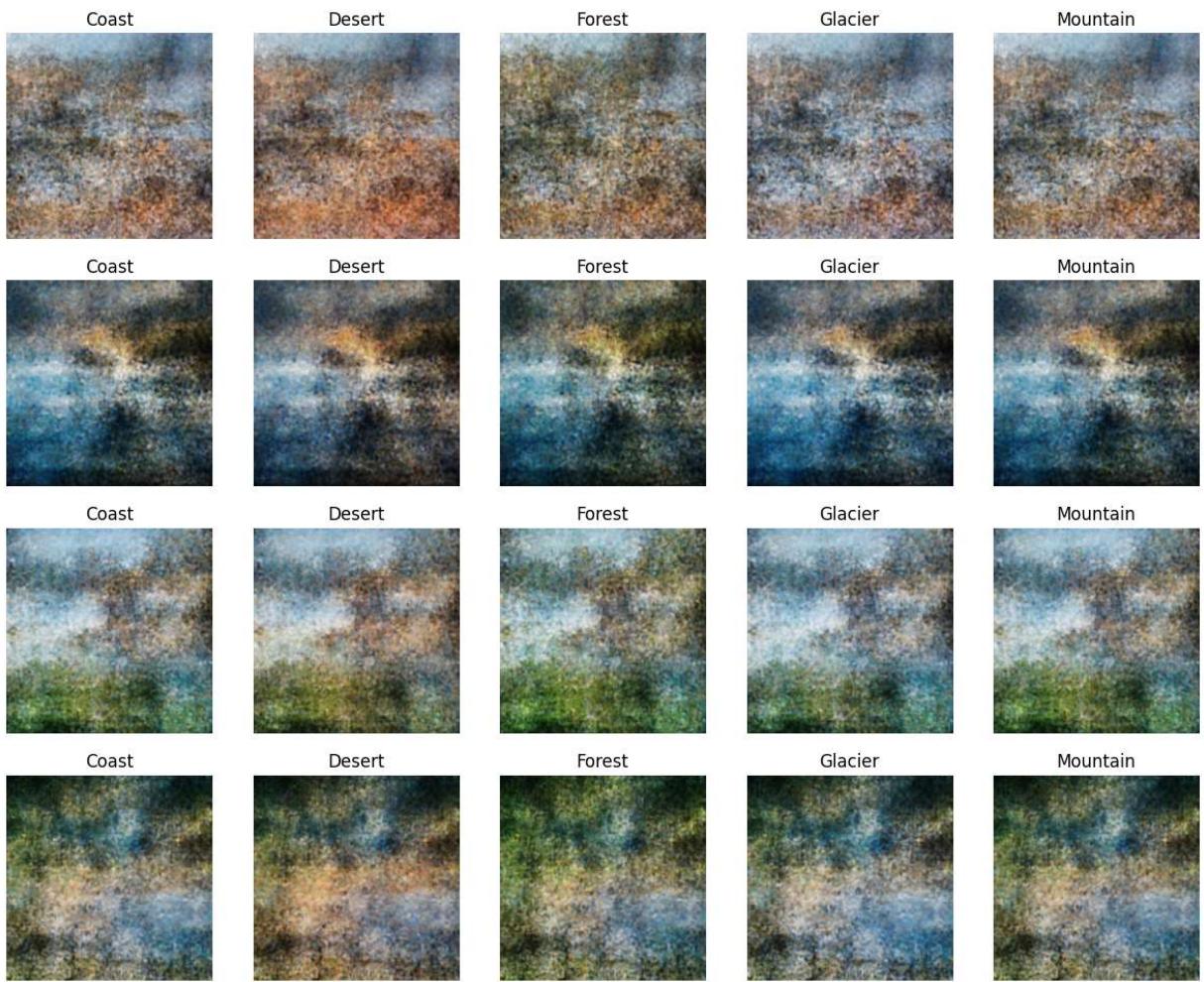
Epoch 87/100

600/600 [=====] - ETA: 0s - loss: 58.1733 - reconstruction_error: 32.1620 - regularization_error: 26.0113

[2023-11-22 14:58:13.065073]: Generating fixed images for epoch 87 ...



[2023-11-22 14:58:14.200069]: Generating random images for epoch 87 ...



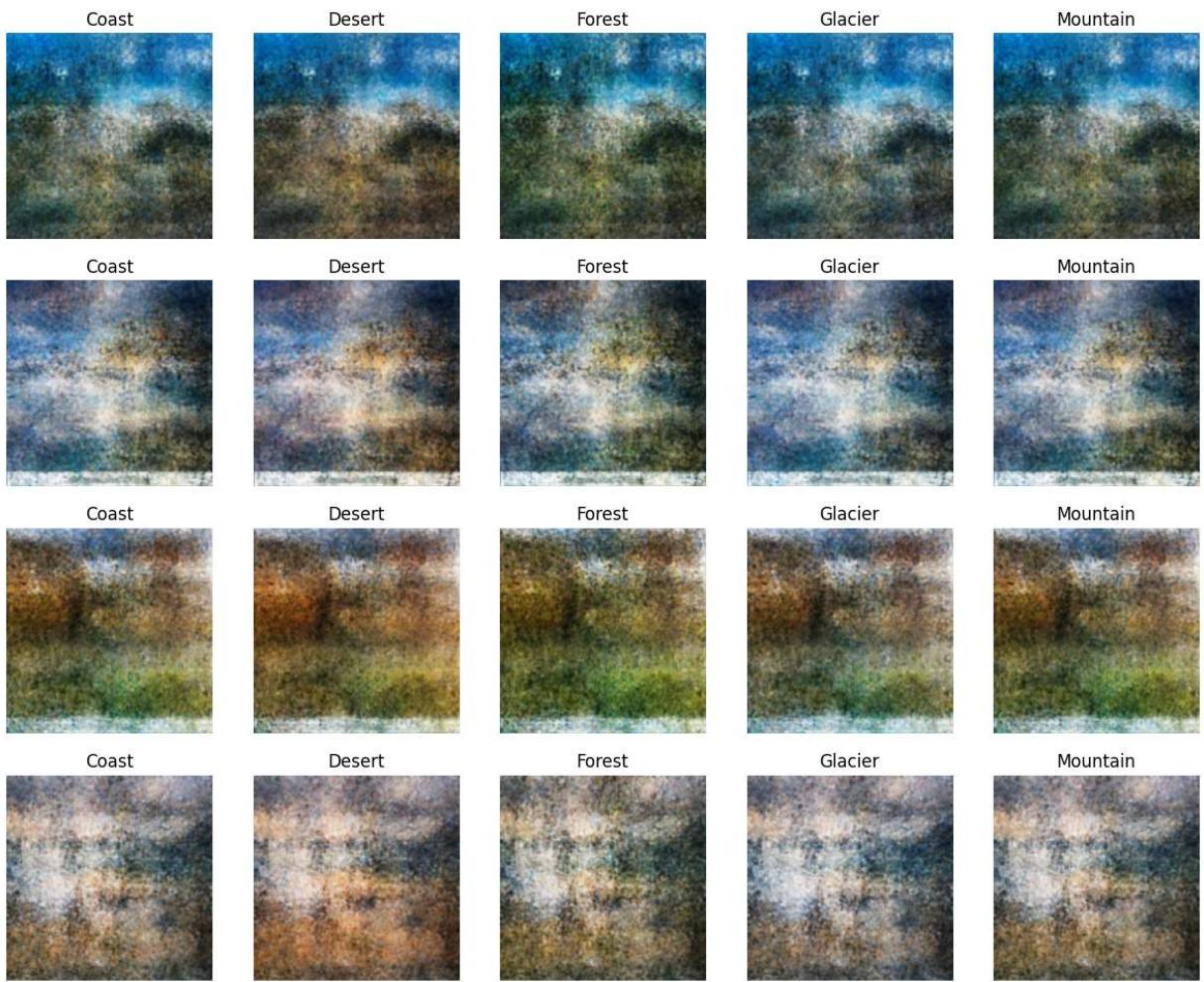
600/600 [=====] - 157s 262ms/step - loss: 58.1733 - reconstruction_error: 32.1620 - regularization_error: 26.0113 - val_loss: 164.5007 - val_reconstruction_error: 139.1905 - val_regularization_error: 25.3104
Epoch 88/100

600/600 [=====] - ETA: 0s - loss: 58.0921 - reconstruction_error: 32.0783 - regularization_error: 26.0138

[2023-11-22 15:01:00.811973]: Generating fixed images for epoch 88 ...



[2023-11-22 15:01:02.224327]: Generating random images for epoch 88 ...



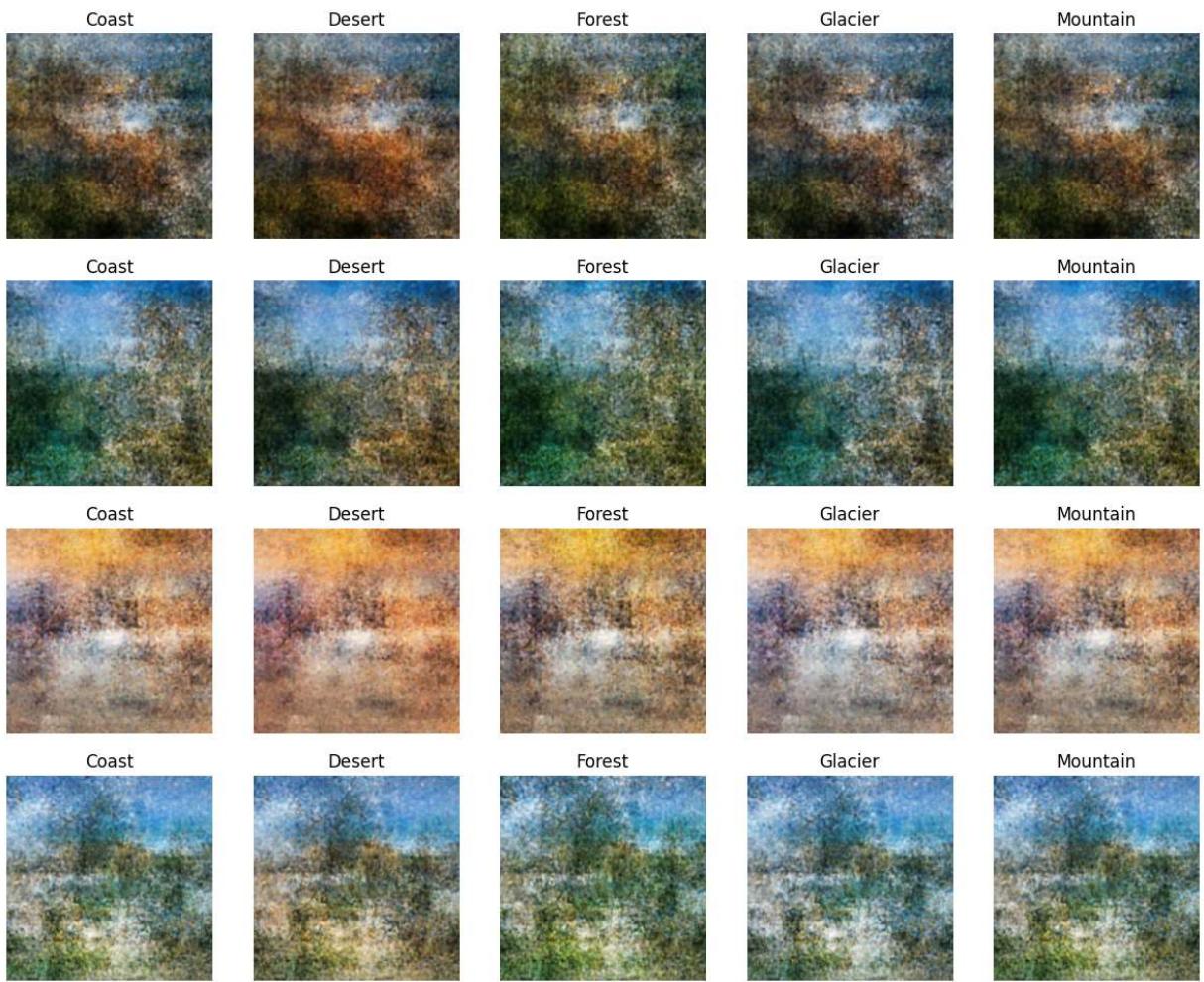
600/600 [=====] - 169s 281ms/step - loss: 58.0921 - reconstruction_error: 32.0783 - regularization_error: 26.0138 - val_loss: 164.0723 - val_reconstruction_error: 139.0984 - val_regularization_error: 24.9738
Epoch 89/100

600/600 [=====] - ETA: 0s - loss: 58.0433 - reconstruction_error: 32.0608 - regularization_error: 25.9824

[2023-11-22 15:03:39.628353]: Generating fixed images for epoch 89 ...



[2023-11-22 15:03:41.170092]: Generating random images for epoch 89 ...



600/600 [=====] - 159s 265ms/step - loss: 58.0433 - reconstruction_error: 32.0608 - regularization_error: 25.9824 - val_loss: 165.0501 - val_reconstruction_error: 139.6017 - val_regularization_error: 25.4484
Epoch 90/100

600/600 [=====] - ETA: 0s - loss: 58.0285 - reconstruction_error: 32.0413 - regularization_error: 25.9872

[2023-11-22 15:06:26.178245]: Generating fixed images for epoch 90 ...



[2023-11-22 15:06:27.485555]: Generating random images for epoch 90 ...



600/600 [=====] - 166s 276ms/step - loss: 58.0285 - reconstruction_error: 32.0413 - regularization_error: 25.9872 - val_loss: 164.3859 - val_reconstruction_error: 138.8009 - val_regularization_error: 25.5850

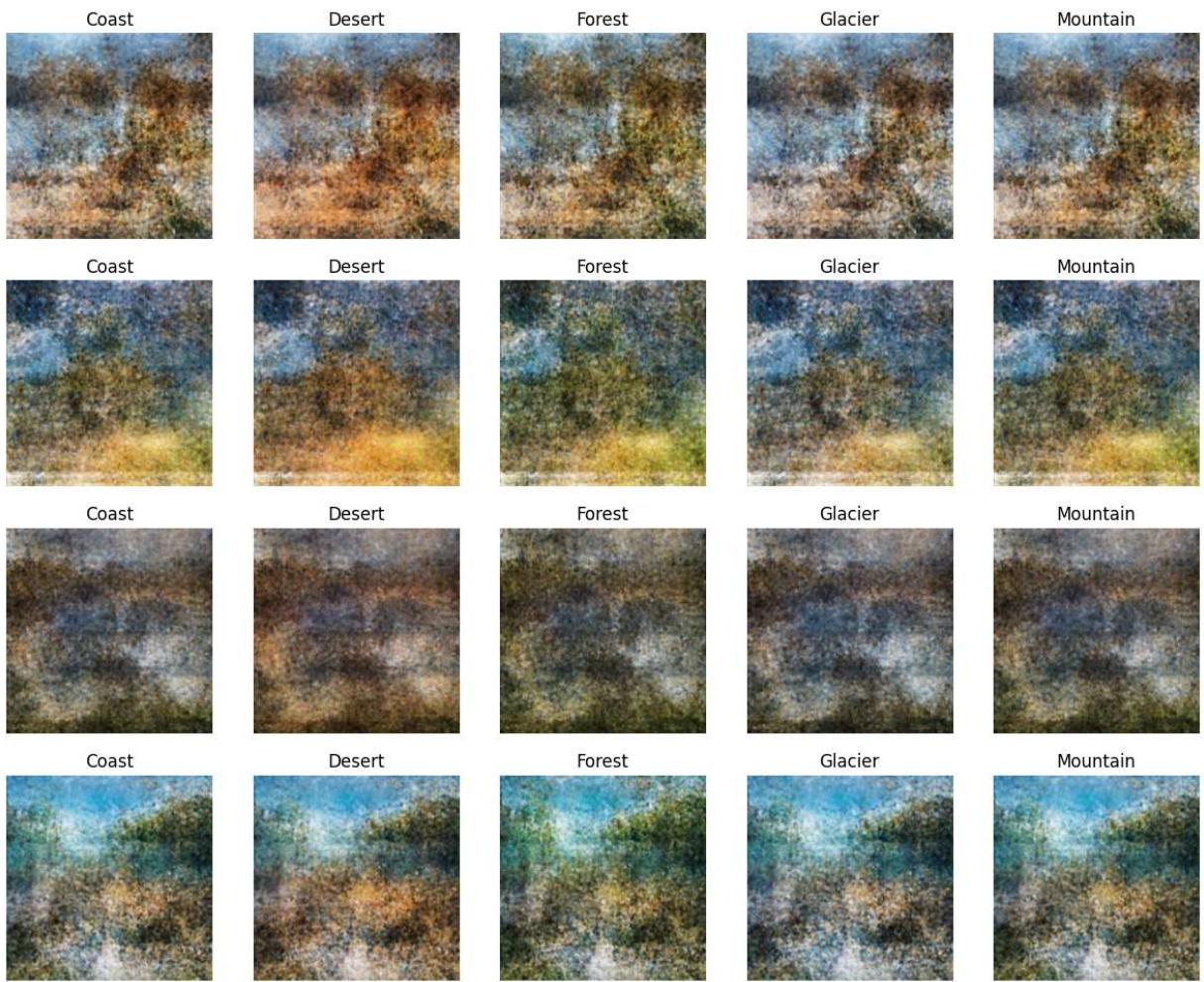
Epoch 91/100

600/600 [=====] - ETA: 0s - loss: 57.7297 - reconstruction_error: 31.7990 - regularization_error: 25.9307

[2023-11-22 15:09:18.205154]: Generating fixed images for epoch 91 ...



[2023-11-22 15:09:20.164528]: Generating random images for epoch 91 ...



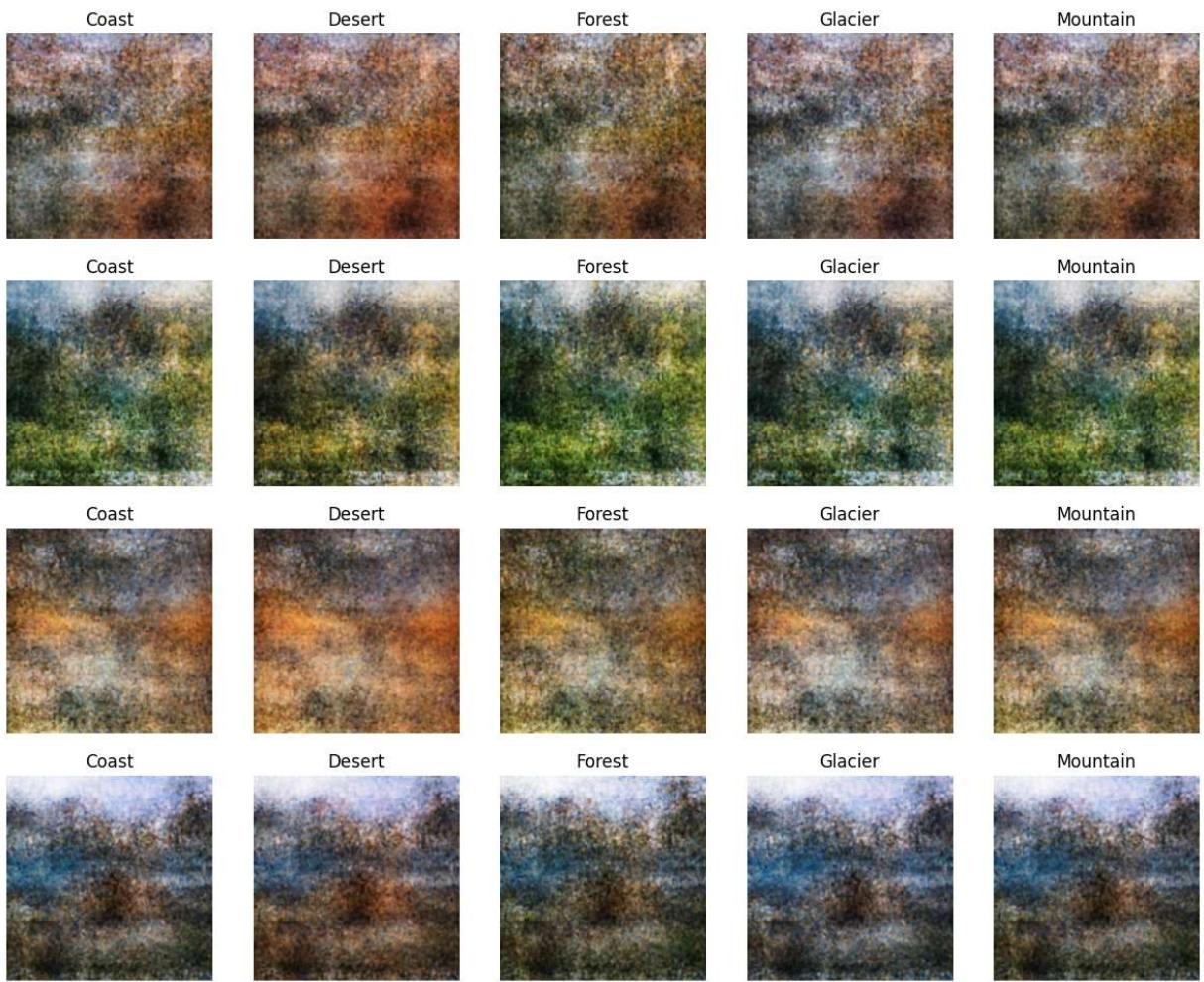
600/600 [=====] - 173s 288ms/step - loss: 57.7297 - reconstruction_error: 31.7990 - regularization_error: 25.9307 - val_loss: 165.3931 - val_reconstruction_error: 139.8422 - val_regularization_error: 25.5510
Epoch 92/100

600/600 [=====] - ETA: 0s - loss: 57.6226 - reconstruction_error: 31.7147 - regularization_error: 25.9080

[2023-11-22 15:12:04.723889]: Generating fixed images for epoch 92 ...



[2023-11-22 15:12:06.223546]: Generating random images for epoch 92 ...



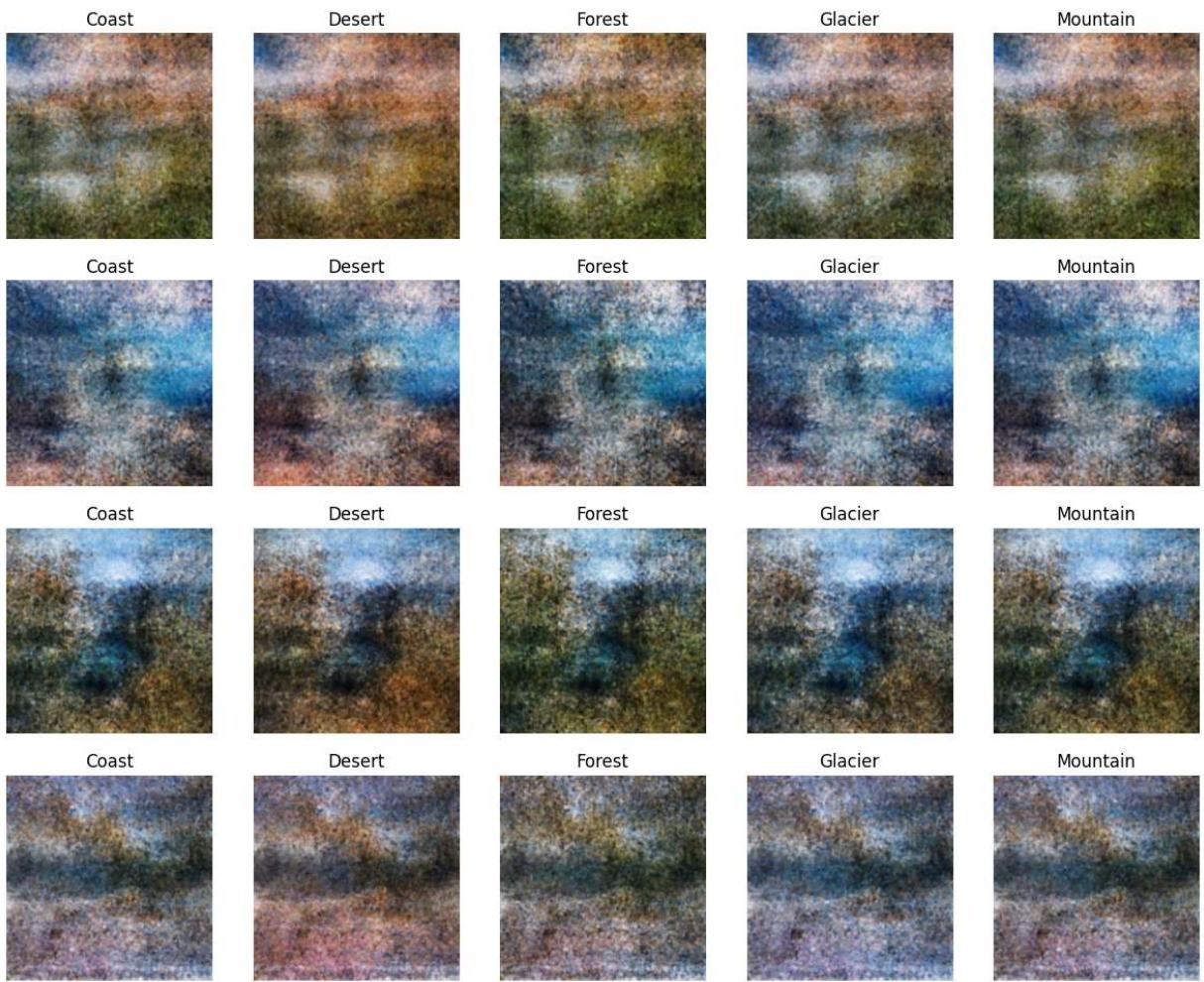
600/600 [=====] - 166s 276ms/step - loss: 57.6226 - reconstruction_error: 31.7147 - regularization_error: 25.9080 - val_loss: 164.5214 - val_reconstruction_error: 139.3229 - val_regularization_error: 25.1986
Epoch 93/100

600/600 [=====] - ETA: 0s - loss: 57.3934 - reconstruction_error: 31.4980 - regularization_error: 25.8954

[2023-11-22 15:14:52.199399]: Generating fixed images for epoch 93 ...



[2023-11-22 15:14:53.511592]: Generating random images for epoch 93 ...



600/600 [=====] - 167s 278ms/step - loss: 57.3934 - reconstruction_error: 31.4980 - regularization_error: 25.8954 - val_loss: 166.2903 - val_reconstruction_error: 140.9157 - val_regularization_error: 25.3745

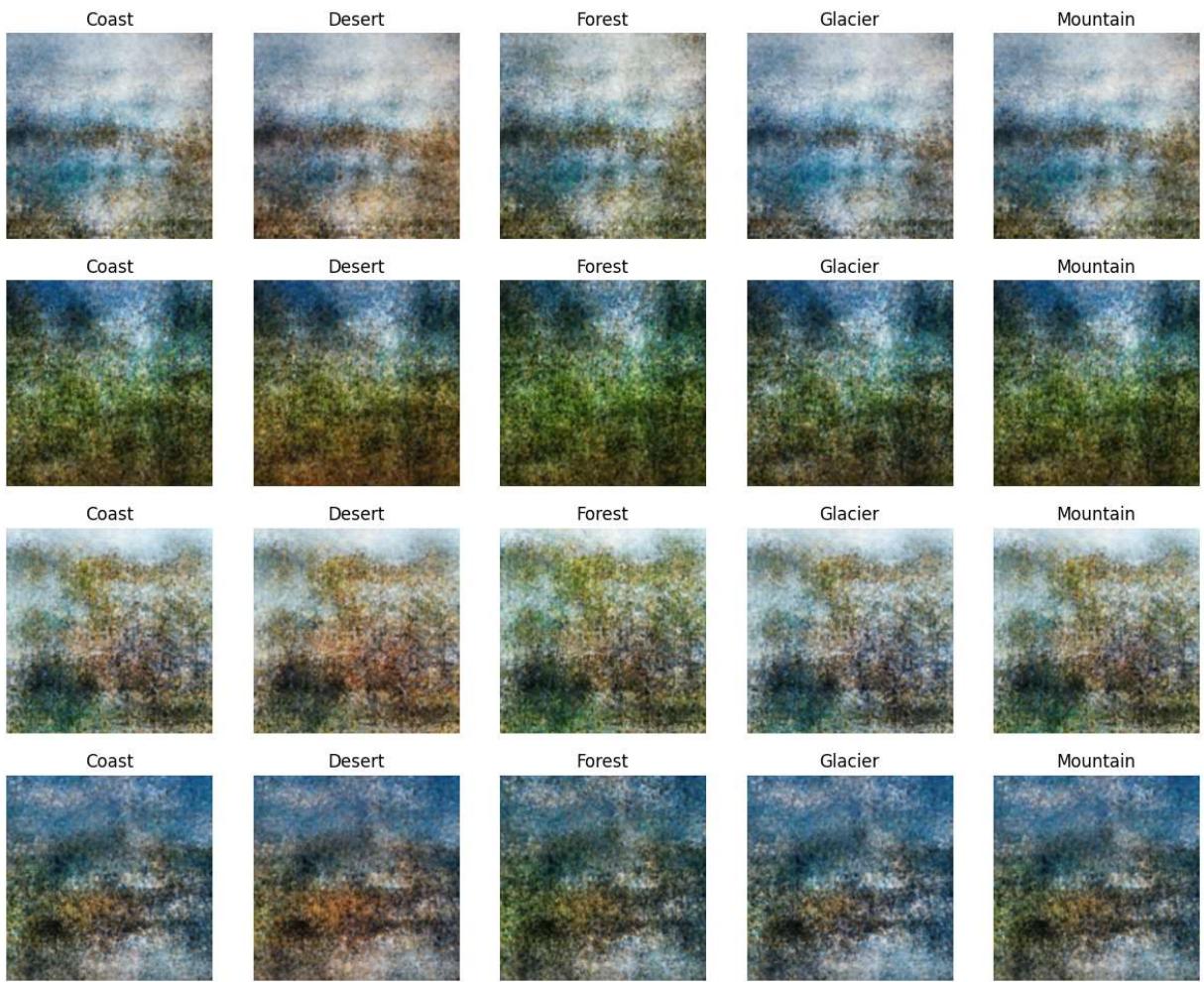
Epoch 94/100

600/600 [=====] - ETA: 0s - loss: 57.2708 - reconstruction_error: 31.4232 - regularization_error: 25.8476

[2023-11-22 15:17:37.986715]: Generating fixed images for epoch 94 ...



[2023-11-22 15:17:39.407218]: Generating random images for epoch 94 ...



600/600 [=====] - 166s 277ms/step - loss: 57.2708 - reconstruction_error: 31.4232 - regularization_error: 25.8476 - val_loss: 164.6289 - val_reconstruction_error: 139.0032 - val_regularization_error: 25.6257
Epoch 95/100

600/600 [=====] - ETA: 0s - loss: 57.1963 - reconstruction_error: 31.3600 - regularization_error: 25.8363

[2023-11-22 15:20:28.675794]: Generating fixed images for epoch 95 ...



[2023-11-22 15:20:30.238558]: Generating random images for epoch 95 ...



600/600 [=====] - 171s 285ms/step - loss: 57.1963 - reconstruction_error: 31.3600 - regularization_error: 25.8363 - val_loss: 166.3383 - val_reconstruction_error: 140.4361 - val_regularization_error: 25.9022

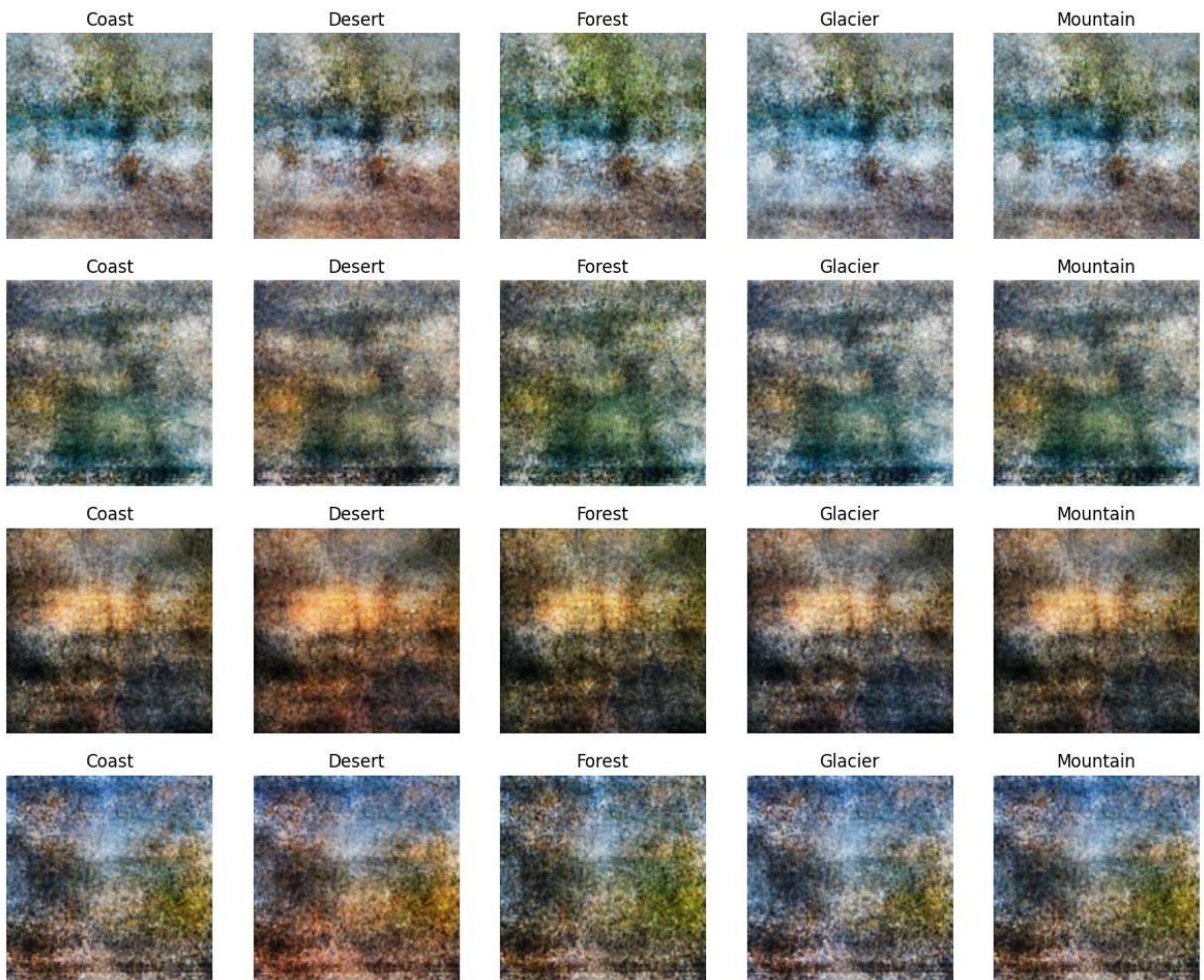
Epoch 96/100

600/600 [=====] - ETA: 0s - loss: 57.1138 - reconstruction_error: 31.2937 - regularization_error: 25.8202

[2023-11-22 15:23:19.609303]: Generating fixed images for epoch 96 ...



[2023-11-22 15:23:21.225598]: Generating random images for epoch 96 ...



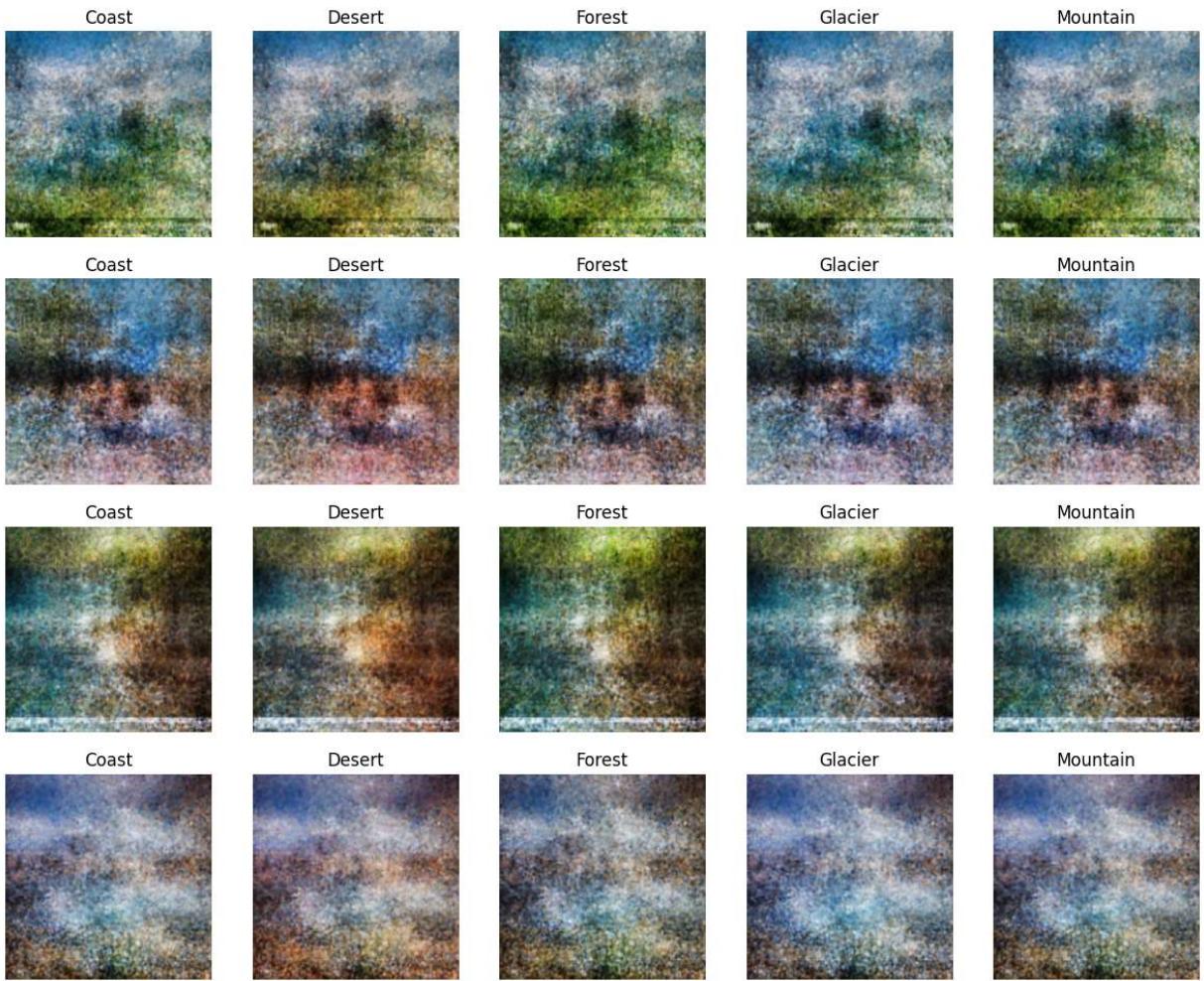
600/600 [=====] - 171s 285ms/step - loss: 57.1138 - reconstruction_error: 31.2937 - regularization_error: 25.8202 - val_loss: 165.3315 - val_reconstruction_error: 139.9771 - val_regularization_error: 25.3545
Epoch 97/100

600/600 [=====] - ETA: 0s - loss: 56.9408 - reconstruction_error: 31.1403 - regularization_error: 25.8005

[2023-11-22 15:26:06.629052]: Generating fixed images for epoch 97 ...



[2023-11-22 15:26:08.139774]: Generating random images for epoch 97 ...



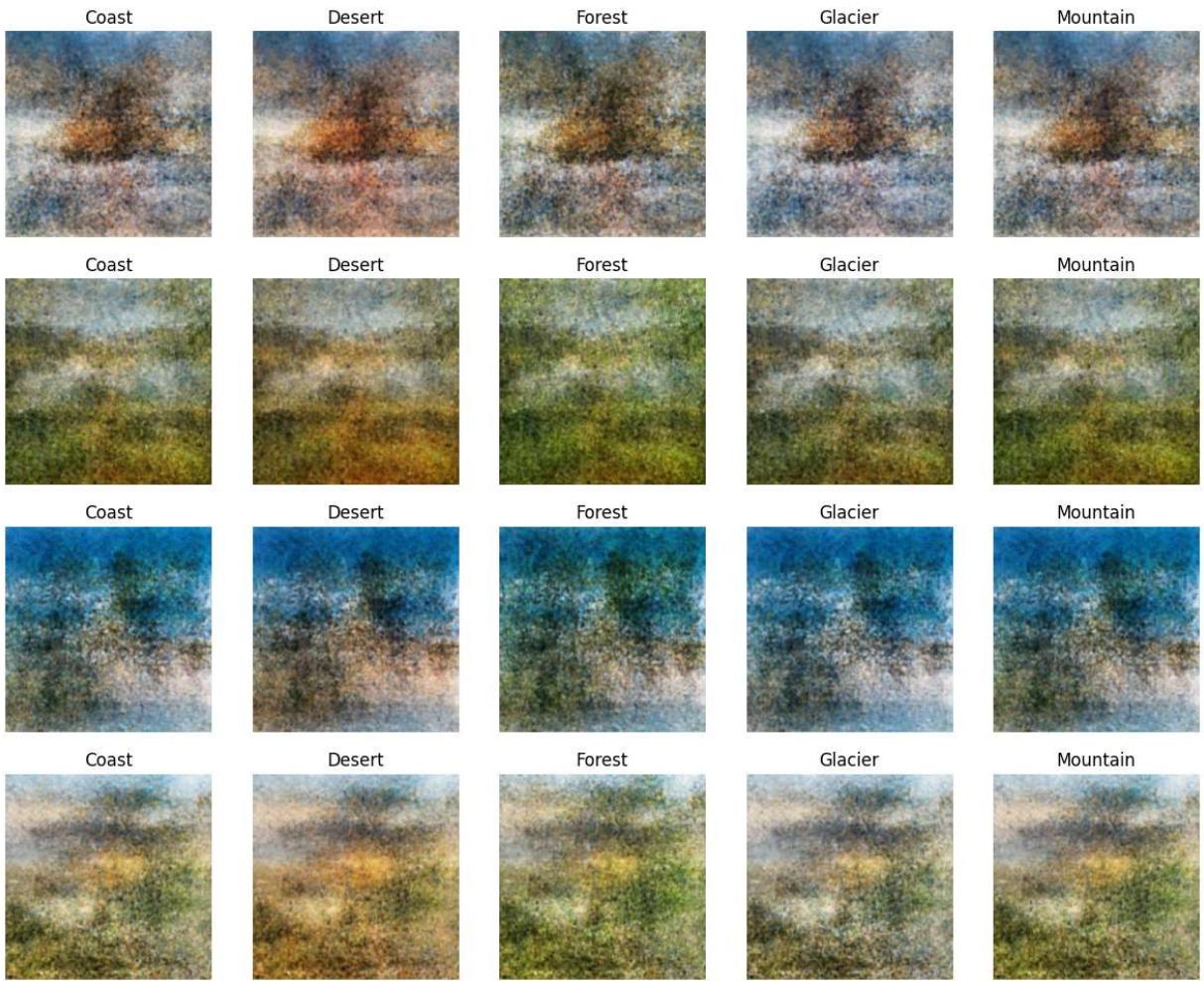
600/600 [=====] - 167s 278ms/step - loss: 56.9408 - reconstruction_error: 31.1403 - regularization_error: 25.8005 - val_loss: 165.0938 - val_reconstruction_error: 140.0768 - val_regularization_error: 25.0170

Epoch 98/100
600/600 [=====] - ETA: 0s - loss: 56.8198 - reconstruction_error: 31.0508 - regularization_error: 25.7690

[2023-11-22 15:28:49.276470]: Generating fixed images for epoch 98 ...



[2023-11-22 15:28:51.211113]: Generating random images for epoch 98 ...



600/600 [=====] - 163s 271ms/step - loss: 56.8198 - reconstruction_error: 31.0508 - regularization_error: 25.7690 - val_loss: 165.7851 - val_reconstruction_error: 140.3668 - val_regularization_error: 25.4184
Epoch 99/100

600/600 [=====] - ETA: 0s - loss: 56.7764 - reconstruction_error: 31.0231 - regularization_error: 25.7533

[2023-11-22 15:31:45.133418]: Generating fixed images for epoch 99 ...



[2023-11-22 15:31:46.252510]: Generating random images for epoch 99 ...



600/600 [=====] - 175s 291ms/step - loss: 56.7764 - reconstruction_error: 31.0231 - regularization_error: 25.7533 - val_loss: 166.1139 - val_reconstruction_error: 140.1832 - val_regularization_error: 25.9308

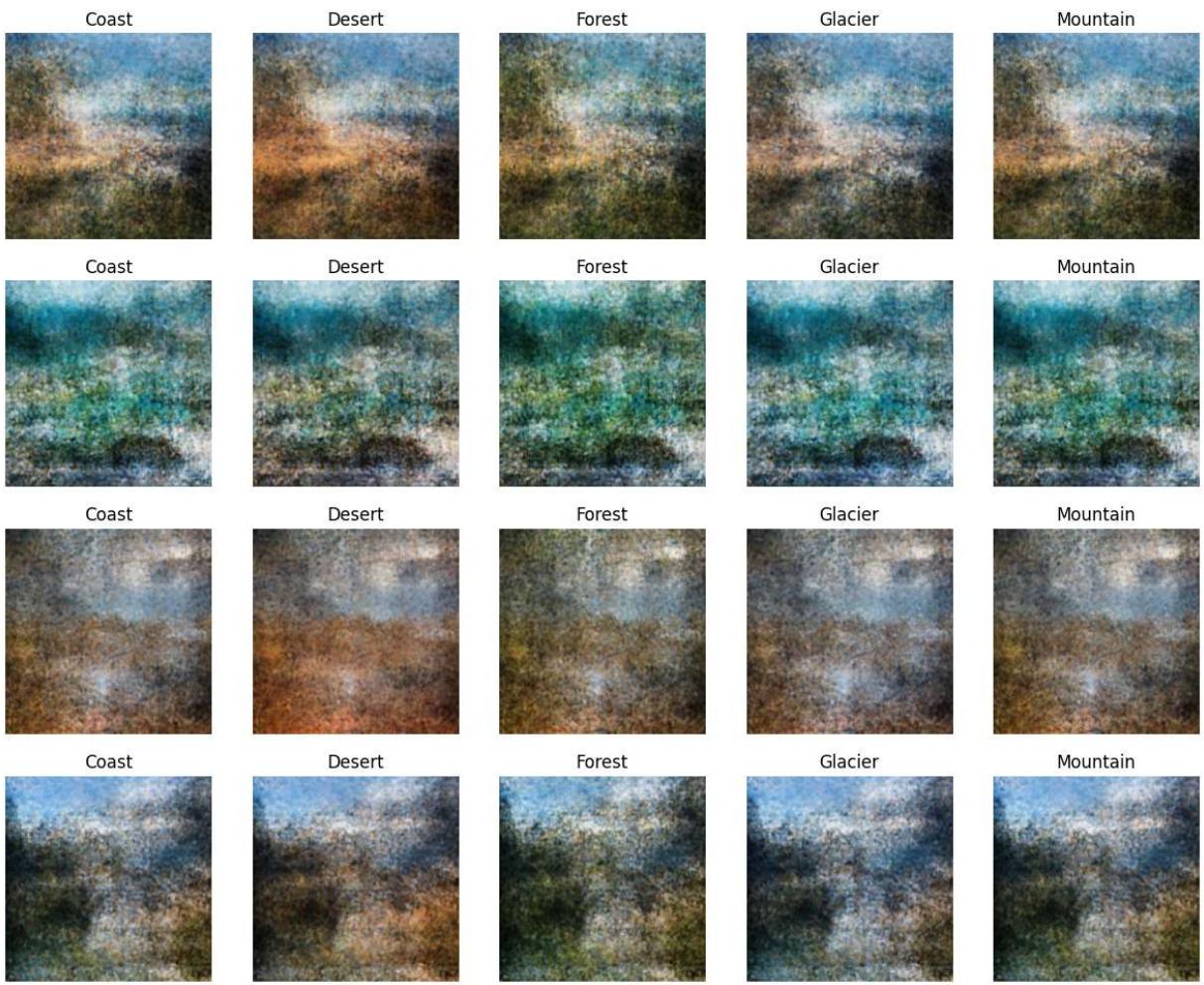
Epoch 100/100

600/600 [=====] - ETA: 0s - loss: 56.6401 - reconstruction_error: 30.9149 - regularization_error: 25.7252

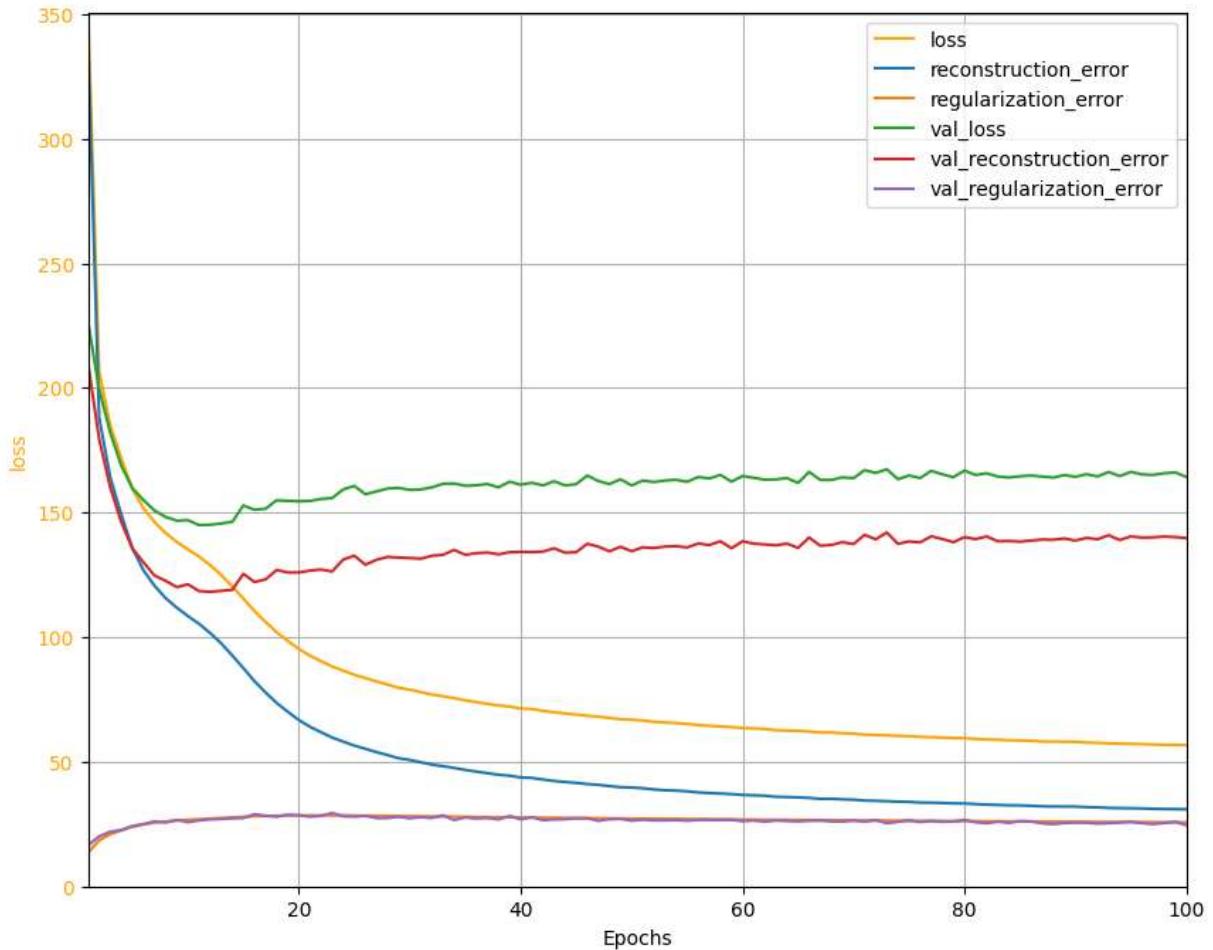
[2023-11-22 15:34:33.403530]: Generating fixed images for epoch 100 ...



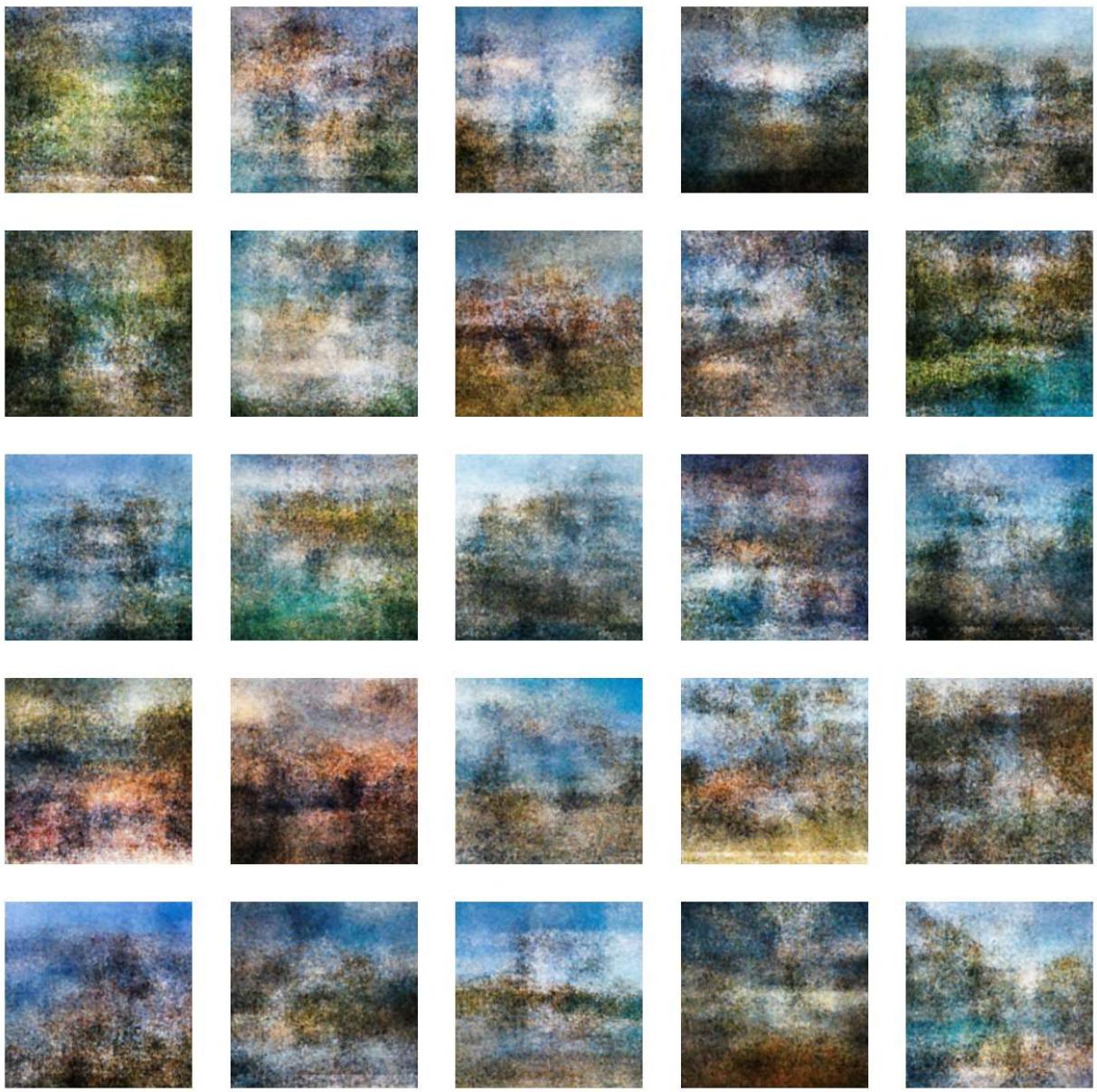
[2023-11-22 15:34:35.155505]: Generating random images for epoch 100 ...



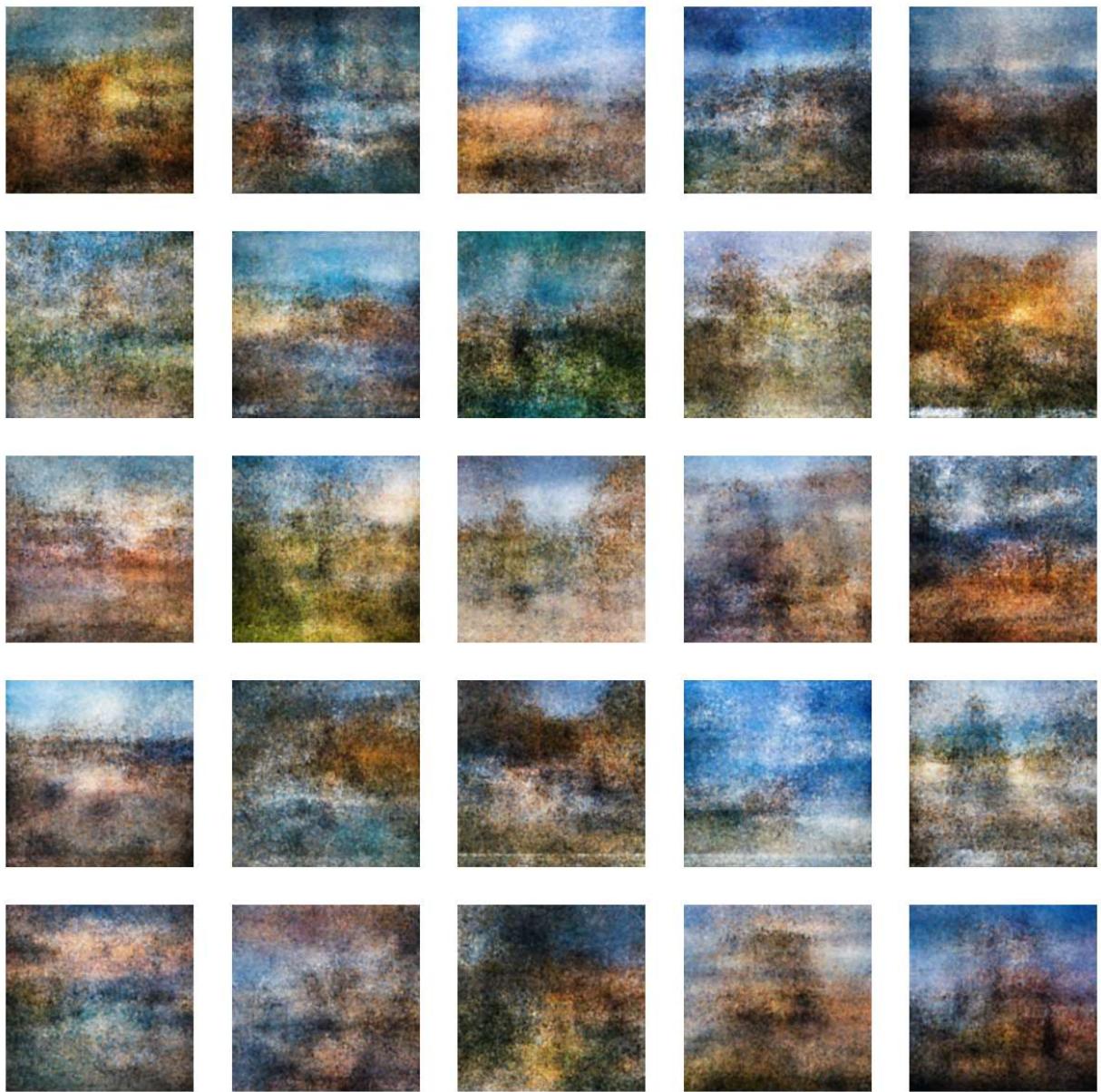
600/600 [=====] - 169s 282ms/step - loss: 56.6401 - reconstruction_error: 30.9149 - regularization_error: 25.7252 - val_loss: 164.3337 - val_reconstruction_error: 139.7725 - val_regularization_error: 24.5613



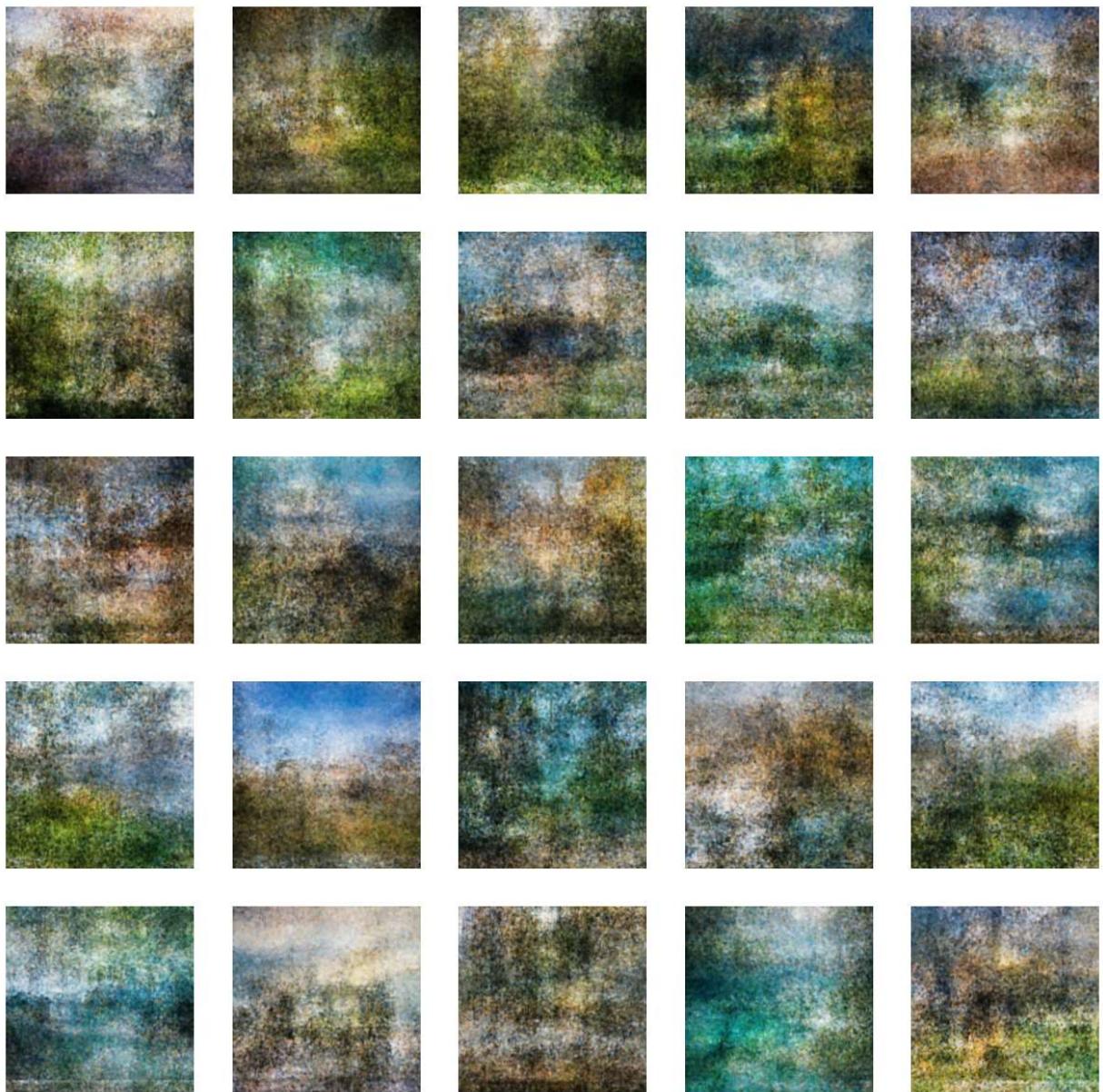
Coasts



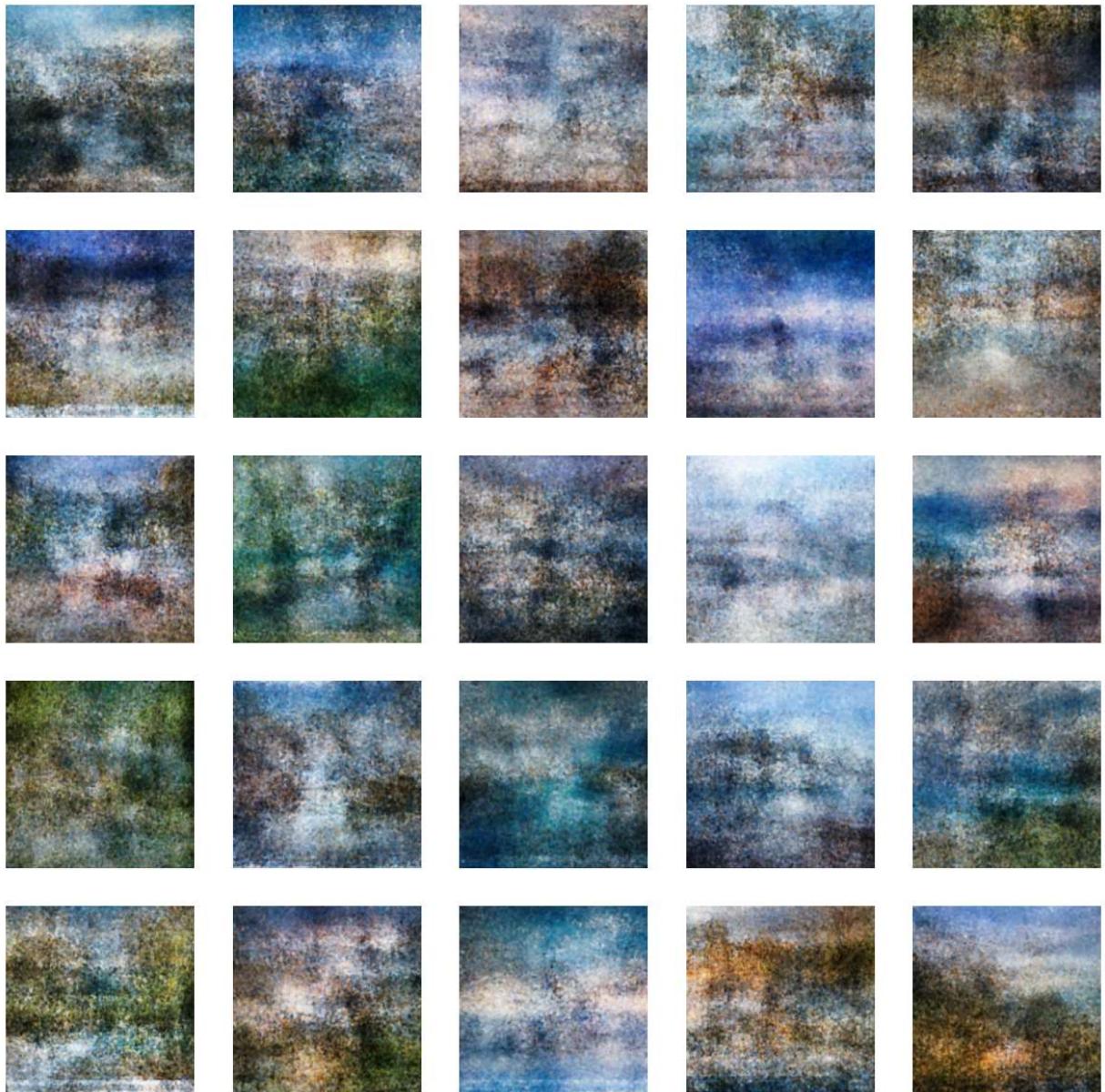
Deserts



Forests



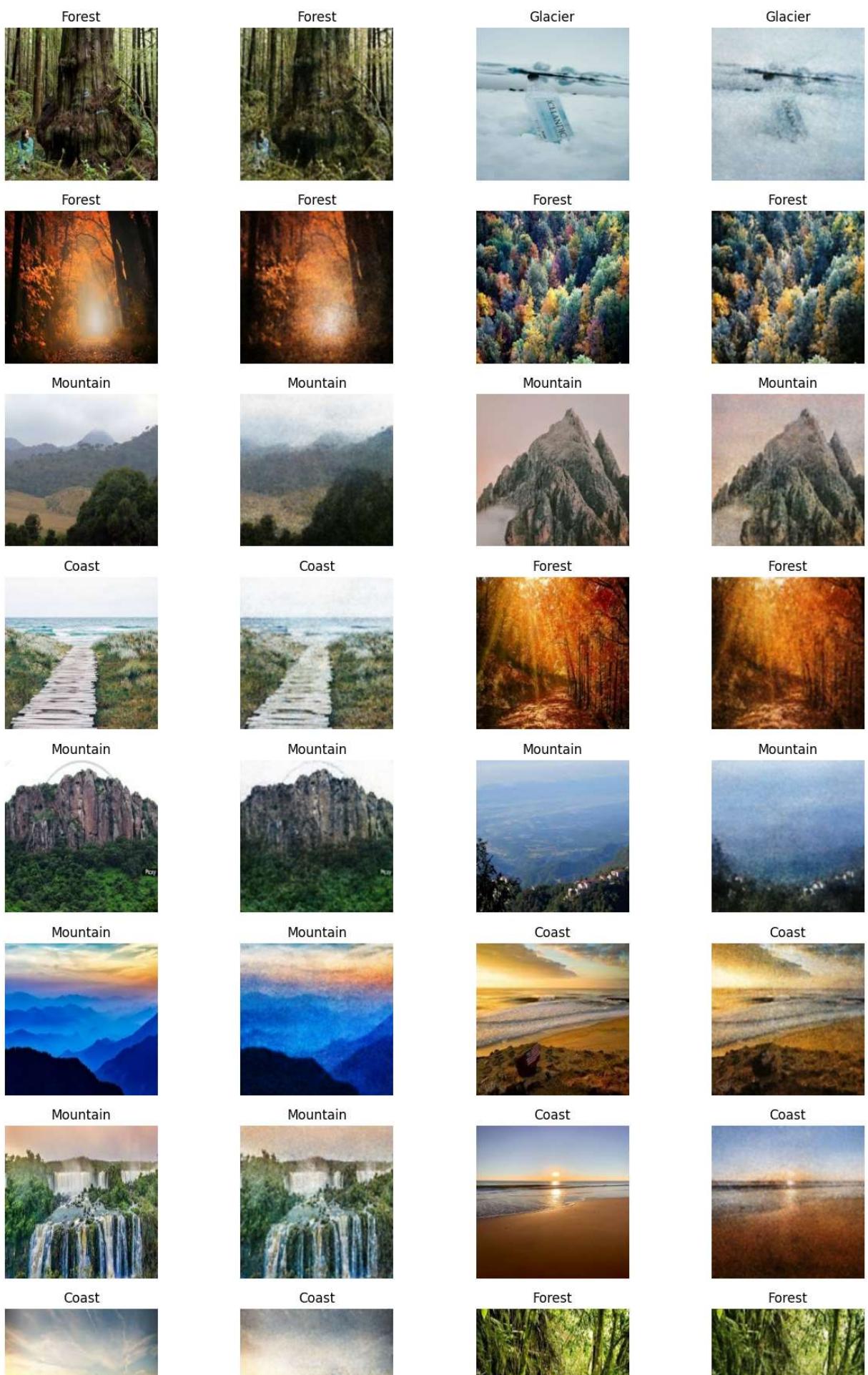
Glaciers



Mountains



Reconstruction & Regularization





Performance Summary

```
[2023-11-22 15:38:23.644104]: Configuration
[2023-11-22 15:38:23.644186]: - Preprocessing:
[2023-11-22 15:38:23.644220]:   - Dataset Size: 12000
[2023-11-22 15:38:23.772267]:   - Image Size: (256, 256, 3)
[2023-11-22 15:38:23.901850]:   - Label Size: (5,)
[2023-11-22 15:38:23.902749]: - Augmentations:
[2023-11-22 15:38:23.902882]:   - Grayscale: No
[2023-11-22 15:38:23.903018]:   - Cut Out: No
[2023-11-22 15:38:23.903153]: - Architecture:
[2023-11-22 15:38:23.903224]:   - # Classes: 5
[2023-11-22 15:38:23.906788]:   - Code Size: 200
[2023-11-22 15:38:23.906941]:   - CNN Activation: relu
[2023-11-22 15:38:23.907008]:   - Latent Activation: None
[2023-11-22 15:38:23.907118]:   - Output Activation: sigmoid
[2023-11-22 15:38:23.908300]: - Training:
[2023-11-22 15:38:23.908411]:   - Training Set Size: 9600
[2023-11-22 15:38:23.909104]:   - Validation Size: 1200
[2023-11-22 15:38:23.912730]:   - Test Size: 1200
[2023-11-22 15:38:23.912853]:   - Shuffle Size: 1024
[2023-11-22 15:38:23.914328]:   - Batch Size: 16
[2023-11-22 15:38:23.914464]:   - Max Epochs: 100
[2023-11-22 15:38:23.914591]:   - Patience: 200
[2023-11-22 15:38:23.914659]:   - KL Coefficient: 0.1
[2023-11-22 15:38:23.919830]:   - Optimizer: <keras.src.optimizers.adam.Adam object
at 0x7fbe243d0e20>
[2023-11-22 15:38:23.920023]:   - Learning Rate: 0.0001
[2023-11-22 15:38:23.920173]:   - Pre-trained: No

[2023-11-22 15:38:23.920472]: Reconstruction & Regularization
[2023-11-22 15:38:23.920579]: Training loss: 56.375763
[2023-11-22 15:38:23.920662]: - Reconstruction Error: 31.284567
[2023-11-22 15:38:23.920739]: - Regularization Error: 25.091230
[2023-11-22 15:38:23.920817]: Validation loss: 164.358444
[2023-11-22 15:38:23.925116]: - Reconstruction Error: 139.797241
[2023-11-22 15:38:23.925243]: - Regularization Error: 24.561251
[2023-11-22 15:38:23.925351]: Test loss: 163.291382
[2023-11-22 15:38:23.925453]: - Reconstruction Error: 138.866943
[2023-11-22 15:38:23.925554]: - Regularization Error: 24.424450

[2023-11-22 15:38:23.925680]: Generation Quality
[2023-11-22 15:38:23.925758]: Coast | accuracy: 1.56% | loss: 23.342
[2023-11-22 15:38:23.925859]: Desert | accuracy: 42.97% | loss: 5.976
[2023-11-22 15:38:23.925955]: Forest | accuracy: 94.53% | loss: 0.188
[2023-11-22 15:38:23.926033]: Glacier | accuracy: 0.00% | loss: 37.798
[2023-11-22 15:38:23.930994]: Mountain | accuracy: 0.00% | loss: 21.740
[2023-11-22 15:38:23.931226]: -----
[2023-11-22 15:38:23.931348]: Average | accuracy: 27.81% | loss: 17.809
```