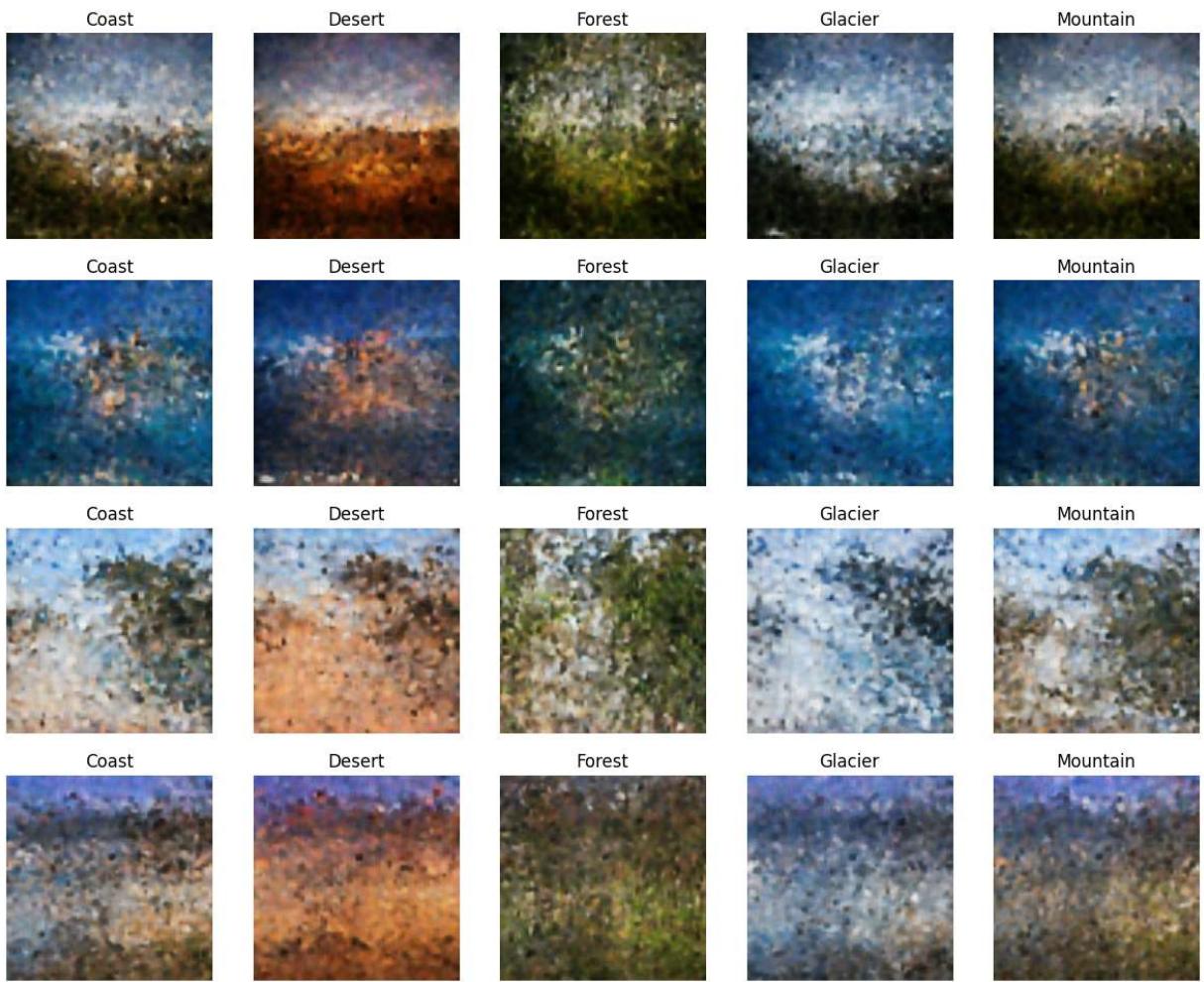


600/600 [=====] - 78s 129ms/step - loss: 94.3722 - reconstruction_error: 45.9449 - regularization_error: 48.4273 - val_loss: 254.1888 - val_reconstruction_error: 207.9172 - val_regularization_error: 46.2717
Epoch 502/1000
600/600 [=====] - 73s 121ms/step - loss: 94.6400 - reconstruction_error: 46.1505 - regularization_error: 48.4895 - val_loss: 254.7173 - val_reconstruction_error: 207.2571 - val_regularization_error: 47.4602
Epoch 503/1000
600/600 [=====] - 70s 117ms/step - loss: 94.3751 - reconstruction_error: 45.8779 - regularization_error: 48.4971 - val_loss: 249.8380 - val_reconstruction_error: 203.2142 - val_regularization_error: 46.6237
Epoch 504/1000
600/600 [=====] - 68s 112ms/step - loss: 94.5105 - reconstruction_error: 45.9458 - regularization_error: 48.5647 - val_loss: 255.4968 - val_reconstruction_error: 207.5925 - val_regularization_error: 47.9044
Epoch 505/1000
600/600 [=====] - 74s 123ms/step - loss: 94.5153 - reconstruction_error: 46.0346 - regularization_error: 48.4807 - val_loss: 253.7408 - val_reconstruction_error: 204.3568 - val_regularization_error: 49.3840
Epoch 506/1000
600/600 [=====] - 77s 127ms/step - loss: 94.5005 - reconstruction_error: 45.8897 - regularization_error: 48.6109 - val_loss: 257.3586 - val_reconstruction_error: 208.2632 - val_regularization_error: 49.0955
Epoch 507/1000
600/600 [=====] - 75s 124ms/step - loss: 94.2463 - reconstruction_error: 45.8063 - regularization_error: 48.4399 - val_loss: 254.1095 - val_reconstruction_error: 207.5820 - val_regularization_error: 46.5275
Epoch 508/1000
600/600 [=====] - 74s 124ms/step - loss: 94.4352 - reconstruction_error: 45.9705 - regularization_error: 48.4646 - val_loss: 253.9226 - val_reconstruction_error: 207.3024 - val_regularization_error: 46.6202
Epoch 509/1000
600/600 [=====] - 72s 119ms/step - loss: 94.3133 - reconstruction_error: 45.8004 - regularization_error: 48.5128 - val_loss: 252.2753 - val_reconstruction_error: 203.9363 - val_regularization_error: 48.3391
Epoch 510/1000
600/600 [=====] - 79s 131ms/step - loss: 94.5141 - reconstruction_error: 45.9493 - regularization_error: 48.5649 - val_loss: 254.9929 - val_reconstruction_error: 209.6248 - val_regularization_error: 45.3681
Epoch 511/1000
600/600 [=====] - ETA: 0s - loss: 94.2736 - reconstruction_error: 45.7769 - regularization_error: 48.4966
[2023-11-30 19:56:24.777296]: Generating fixed images for epoch 511 ...



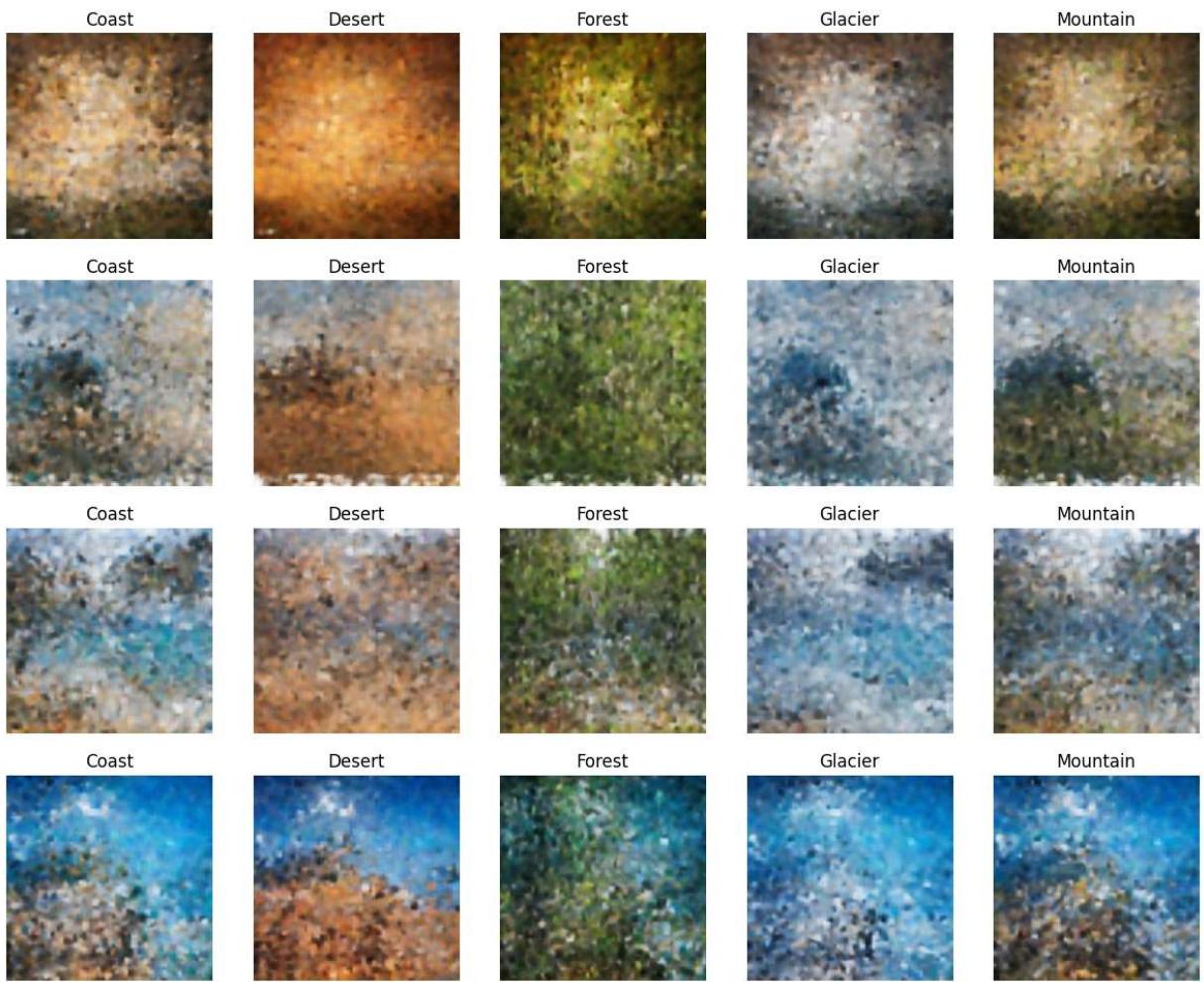
[2023-11-30 19:56:25.622235]: Generating random images for epoch 511 ...



600/600 [=====] - 71s 117ms/step - loss: 94.2736 - reconstruction_error: 45.7769 - regularization_error: 48.4966 - val_loss: 250.1342 - val_reconstruction_error: 203.1685 - val_regularization_error: 46.9658
Epoch 512/1000
600/600 [=====] - 72s 120ms/step - loss: 94.2472 - reconstruction_error: 45.7603 - regularization_error: 48.4869 - val_loss: 252.1967 - val_reconstruction_error: 205.5565 - val_regularization_error: 46.6402
Epoch 513/1000
600/600 [=====] - 76s 125ms/step - loss: 94.1710 - reconstruction_error: 45.6361 - regularization_error: 48.5349 - val_loss: 254.8454 - val_reconstruction_error: 207.4556 - val_regularization_error: 47.3898
Epoch 514/1000
600/600 [=====] - 77s 129ms/step - loss: 94.4103 - reconstruction_error: 45.9426 - regularization_error: 48.4677 - val_loss: 255.0461 - val_reconstruction_error: 206.6079 - val_regularization_error: 48.4381
Epoch 515/1000
600/600 [=====] - 77s 128ms/step - loss: 94.1666 - reconstruction_error: 45.7961 - regularization_error: 48.3706 - val_loss: 251.4625 - val_reconstruction_error: 203.9709 - val_regularization_error: 47.4916
Epoch 516/1000
600/600 [=====] - 72s 120ms/step - loss: 94.1214 - reconstruction_error: 45.7125 - regularization_error: 48.4090 - val_loss: 258.0366 - val_reconstruction_error: 210.8143 - val_regularization_error: 47.2223
Epoch 517/1000
600/600 [=====] - 74s 123ms/step - loss: 94.2529 - reconstruction_error: 45.8656 - regularization_error: 48.3873 - val_loss: 250.8827 - val_reconstruction_error: 204.2466 - val_regularization_error: 46.6360
Epoch 518/1000
600/600 [=====] - 77s 128ms/step - loss: 94.2692 - reconstruction_error: 45.7665 - regularization_error: 48.5027 - val_loss: 252.7253 - val_reconstruction_error: 205.9492 - val_regularization_error: 46.7761
Epoch 519/1000
600/600 [=====] - 71s 118ms/step - loss: 94.1357 - reconstruction_error: 45.7206 - regularization_error: 48.4151 - val_loss: 253.4422 - val_reconstruction_error: 204.8003 - val_regularization_error: 48.6419
Epoch 520/1000
600/600 [=====] - 73s 121ms/step - loss: 94.0514 - reconstruction_error: 45.6458 - regularization_error: 48.4056 - val_loss: 253.3694 - val_reconstruction_error: 207.0628 - val_regularization_error: 46.3066
Epoch 521/1000
600/600 [=====] - ETA: 0s - loss: 94.0622 - reconstruction_error: 45.6800 - regularization_error: 48.3822
[2023-11-30 20:08:48.386373]: Generating fixed images for epoch 521 ...



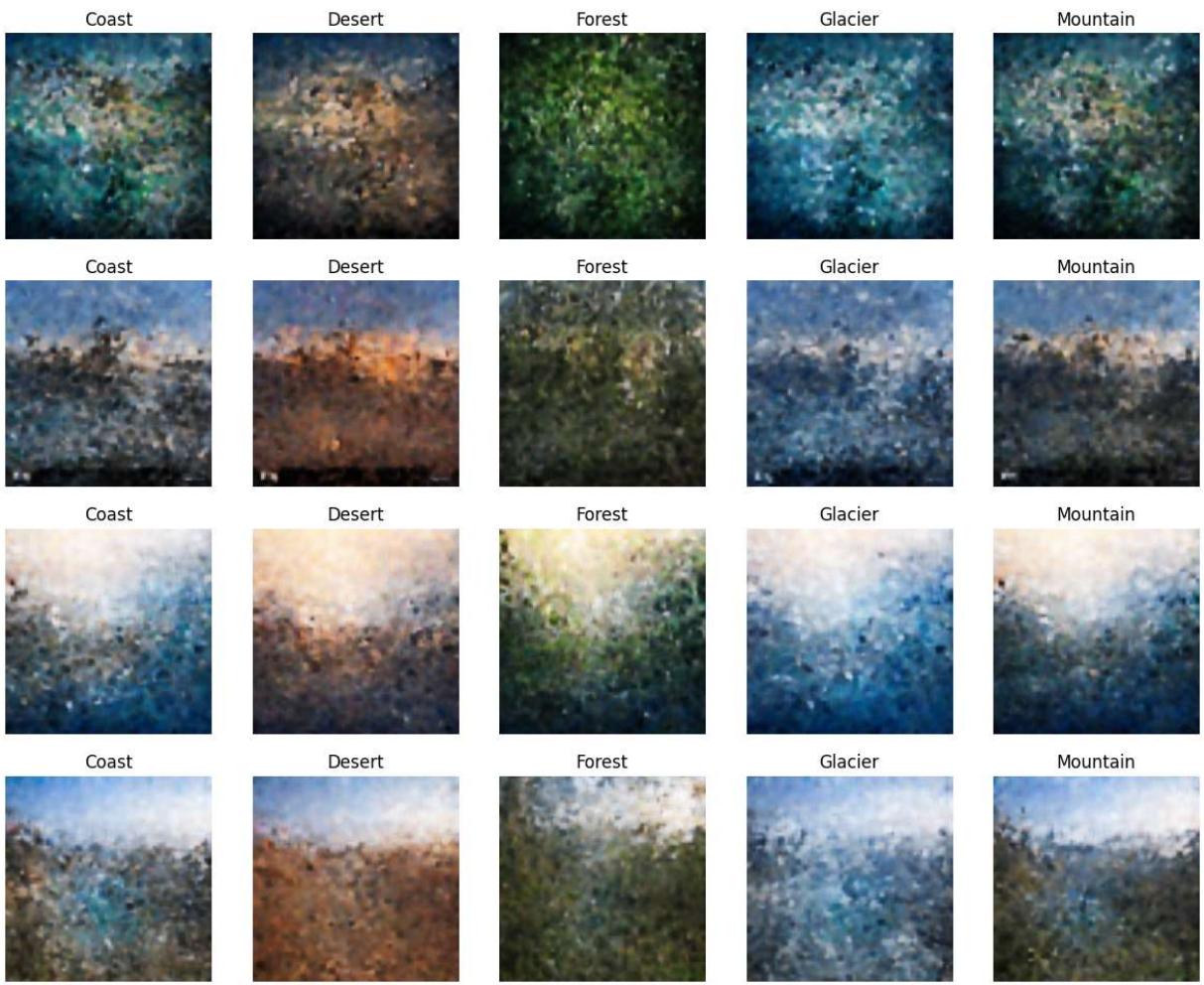
[2023-11-30 20:08:49.151390]: Generating random images for epoch 521 ...



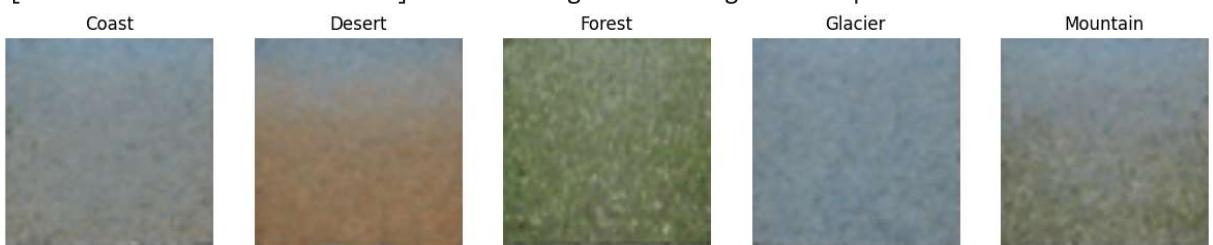
600/600 [=====] - 72s 120ms/step - loss: 94.0622 - reconstruction_error: 45.6800 - regularization_error: 48.3822 - val_loss: 253.4138 - val_reconstruction_error: 205.6635 - val_regularization_error: 47.7504
Epoch 522/1000
600/600 [=====] - 80s 133ms/step - loss: 94.1612 - reconstruction_error: 45.6988 - regularization_error: 48.4623 - val_loss: 253.7908 - val_reconstruction_error: 206.4985 - val_regularization_error: 47.2923
Epoch 523/1000
600/600 [=====] - 75s 124ms/step - loss: 93.9555 - reconstruction_error: 45.6296 - regularization_error: 48.3259 - val_loss: 253.4324 - val_reconstruction_error: 207.6056 - val_regularization_error: 45.8268
Epoch 524/1000
600/600 [=====] - 75s 125ms/step - loss: 94.1404 - reconstruction_error: 45.7191 - regularization_error: 48.4213 - val_loss: 253.7827 - val_reconstruction_error: 207.1117 - val_regularization_error: 46.6710
Epoch 525/1000
600/600 [=====] - 74s 123ms/step - loss: 93.9404 - reconstruction_error: 45.6095 - regularization_error: 48.3309 - val_loss: 254.8508 - val_reconstruction_error: 208.2239 - val_regularization_error: 46.6269
Epoch 526/1000
600/600 [=====] - 69s 114ms/step - loss: 94.0831 - reconstruction_error: 45.6294 - regularization_error: 48.4538 - val_loss: 255.3955 - val_reconstruction_error: 208.0146 - val_regularization_error: 47.3810
Epoch 527/1000
600/600 [=====] - 77s 129ms/step - loss: 94.0275 - reconstruction_error: 45.6501 - regularization_error: 48.3774 - val_loss: 253.1150 - val_reconstruction_error: 207.0081 - val_regularization_error: 46.1068
Epoch 528/1000
600/600 [=====] - 69s 115ms/step - loss: 94.2306 - reconstruction_error: 45.7003 - regularization_error: 48.5303 - val_loss: 253.6140 - val_reconstruction_error: 206.3450 - val_regularization_error: 47.2690
Epoch 529/1000
600/600 [=====] - 68s 113ms/step - loss: 94.2612 - reconstruction_error: 45.7506 - regularization_error: 48.5105 - val_loss: 258.1633 - val_reconstruction_error: 209.3662 - val_regularization_error: 48.7972
Epoch 530/1000
600/600 [=====] - 74s 123ms/step - loss: 93.8671 - reconstruction_error: 45.5392 - regularization_error: 48.3278 - val_loss: 251.4552 - val_reconstruction_error: 203.7355 - val_regularization_error: 47.7197
Epoch 531/1000
600/600 [=====] - ETA: 0s - loss: 93.9784 - reconstruction_error: 45.5360 - regularization_error: 48.4425
[2023-11-30 20:21:19.421431]: Generating fixed images for epoch 531 ...



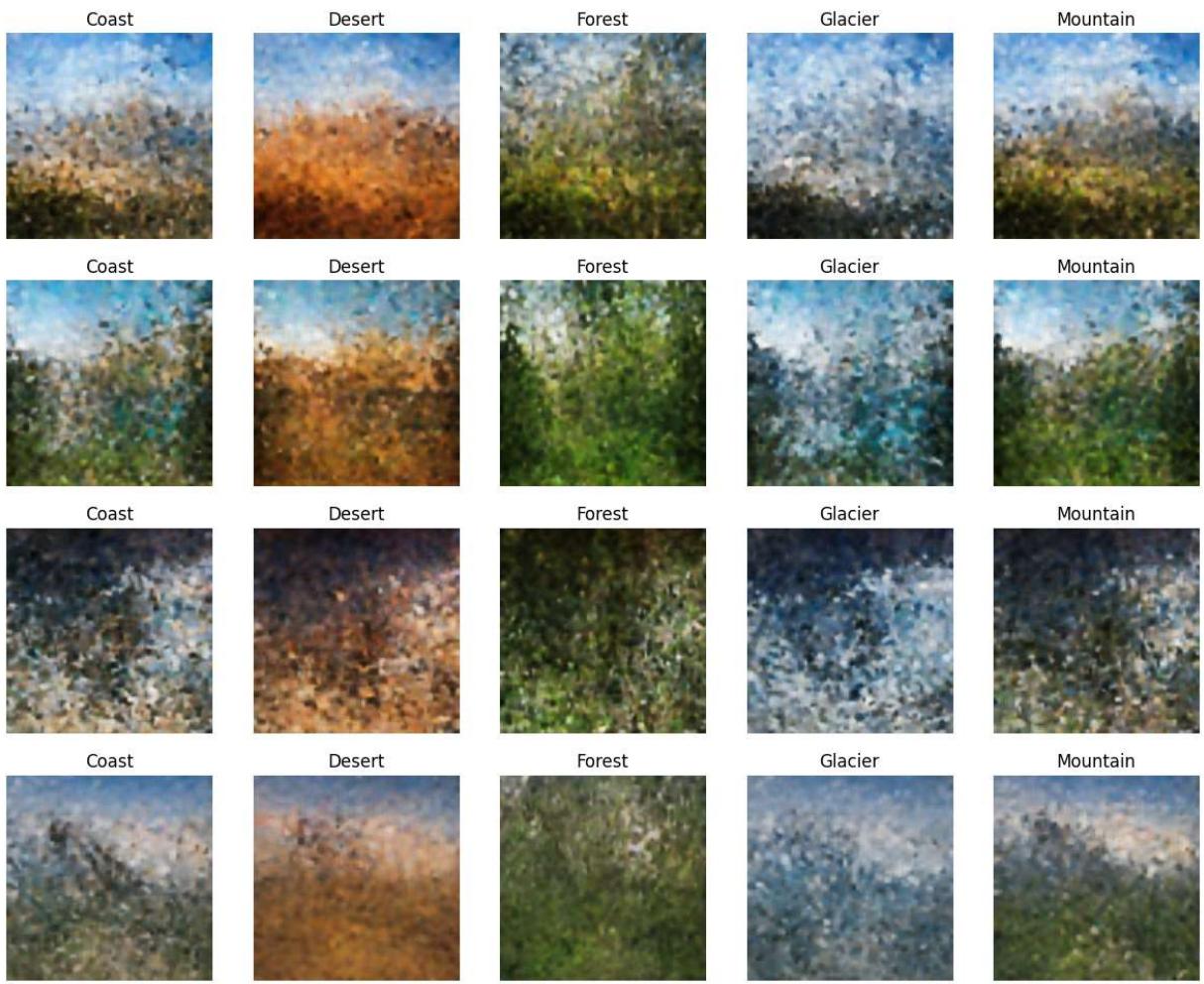
[2023-11-30 20:21:20.446810]: Generating random images for epoch 531 ...



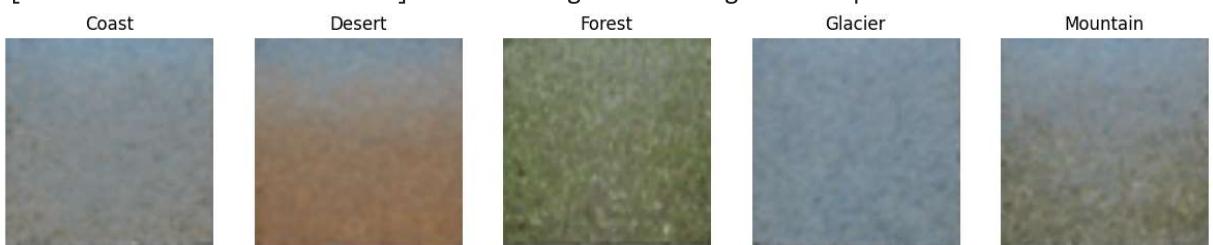
600/600 [=====] - 75s 124ms/step - loss: 93.9784 - reconstruction_error: 45.5360 - regularization_error: 48.4425 - val_loss: 255.1741 - val_reconstruction_error: 206.9113 - val_regularization_error: 48.2629
Epoch 532/1000
600/600 [=====] - 75s 125ms/step - loss: 93.8766 - reconstruction_error: 45.5285 - regularization_error: 48.3480 - val_loss: 253.7897 - val_reconstruction_error: 205.9775 - val_regularization_error: 47.8122
Epoch 533/1000
600/600 [=====] - 71s 117ms/step - loss: 93.9585 - reconstruction_error: 45.5580 - regularization_error: 48.4005 - val_loss: 253.1370 - val_reconstruction_error: 206.4903 - val_regularization_error: 46.6468
Epoch 534/1000
600/600 [=====] - 78s 130ms/step - loss: 93.9051 - reconstruction_error: 45.5163 - regularization_error: 48.3888 - val_loss: 255.3915 - val_reconstruction_error: 207.7899 - val_regularization_error: 47.6016
Epoch 535/1000
600/600 [=====] - 75s 124ms/step - loss: 93.6492 - reconstruction_error: 45.3625 - regularization_error: 48.2868 - val_loss: 251.0350 - val_reconstruction_error: 205.9805 - val_regularization_error: 45.0545
Epoch 536/1000
600/600 [=====] - 72s 120ms/step - loss: 93.8059 - reconstruction_error: 45.5476 - regularization_error: 48.2582 - val_loss: 255.1041 - val_reconstruction_error: 207.5025 - val_regularization_error: 47.6015
Epoch 537/1000
600/600 [=====] - 76s 126ms/step - loss: 94.1191 - reconstruction_error: 45.6859 - regularization_error: 48.4333 - val_loss: 252.1411 - val_reconstruction_error: 204.3426 - val_regularization_error: 47.7984
Epoch 538/1000
600/600 [=====] - 74s 123ms/step - loss: 93.8030 - reconstruction_error: 45.5134 - regularization_error: 48.2896 - val_loss: 255.4749 - val_reconstruction_error: 208.1378 - val_regularization_error: 47.3371
Epoch 539/1000
600/600 [=====] - 74s 122ms/step - loss: 93.7344 - reconstruction_error: 45.4105 - regularization_error: 48.3238 - val_loss: 254.6033 - val_reconstruction_error: 206.5608 - val_regularization_error: 48.0424
Epoch 540/1000
600/600 [=====] - 73s 121ms/step - loss: 93.7534 - reconstruction_error: 45.4600 - regularization_error: 48.2935 - val_loss: 251.8883 - val_reconstruction_error: 206.5872 - val_regularization_error: 45.3011
Epoch 541/1000
600/600 [=====] - ETA: 0s - loss: 93.7121 - reconstruction_error: 45.4688 - regularization_error: 48.2434
[2023-11-30 20:33:50.890042]: Generating fixed images for epoch 541 ...



[2023-11-30 20:33:51.624785]: Generating random images for epoch 541 ...



600/600 [=====] - 82s 136ms/step - loss: 93.7121 - reconstruction_error: 45.4688 - regularization_error: 48.2434 - val_loss: 251.4155 - val_reconstruction_error: 203.6677 - val_regularization_error: 47.7479
Epoch 542/1000
600/600 [=====] - 69s 115ms/step - loss: 93.8326 - reconstruction_error: 45.4725 - regularization_error: 48.3600 - val_loss: 254.0013 - val_reconstruction_error: 206.3692 - val_regularization_error: 47.6321
Epoch 543/1000
600/600 [=====] - 68s 113ms/step - loss: 93.5990 - reconstruction_error: 45.3594 - regularization_error: 48.2396 - val_loss: 254.9155 - val_reconstruction_error: 207.5058 - val_regularization_error: 47.4096
Epoch 544/1000
600/600 [=====] - 77s 128ms/step - loss: 93.6930 - reconstruction_error: 45.4164 - regularization_error: 48.2765 - val_loss: 252.9301 - val_reconstruction_error: 206.3669 - val_regularization_error: 46.5632
Epoch 545/1000
600/600 [=====] - 76s 126ms/step - loss: 93.8820 - reconstruction_error: 45.4803 - regularization_error: 48.4017 - val_loss: 256.8174 - val_reconstruction_error: 209.4062 - val_regularization_error: 47.4112
Epoch 546/1000
600/600 [=====] - 77s 127ms/step - loss: 93.6418 - reconstruction_error: 45.4030 - regularization_error: 48.2388 - val_loss: 252.4735 - val_reconstruction_error: 205.3556 - val_regularization_error: 47.1179
Epoch 547/1000
600/600 [=====] - 81s 134ms/step - loss: 93.5744 - reconstruction_error: 45.4337 - regularization_error: 48.1406 - val_loss: 254.8212 - val_reconstruction_error: 209.4841 - val_regularization_error: 45.3372
Epoch 548/1000
600/600 [=====] - 70s 116ms/step - loss: 93.5731 - reconstruction_error: 45.2452 - regularization_error: 48.3279 - val_loss: 251.9641 - val_reconstruction_error: 205.8430 - val_regularization_error: 46.1210
Epoch 549/1000
600/600 [=====] - 73s 121ms/step - loss: 93.7215 - reconstruction_error: 45.3775 - regularization_error: 48.3440 - val_loss: 253.4689 - val_reconstruction_error: 206.9022 - val_regularization_error: 46.5667
Epoch 550/1000
600/600 [=====] - 71s 118ms/step - loss: 93.6824 - reconstruction_error: 45.3578 - regularization_error: 48.3245 - val_loss: 253.8223 - val_reconstruction_error: 207.0719 - val_regularization_error: 46.7505
Epoch 551/1000
600/600 [=====] - ETA: 0s - loss: 93.4687 - reconstruction_error: 45.2561 - regularization_error: 48.2126
[2023-11-30 20:46:14.234964]: Generating fixed images for epoch 551 ...



[2023-11-30 20:46:15.060637]: Generating random images for epoch 551 ...



```
600/600 [=====] - 81s 135ms/step - loss: 93.4687 - reconstruction_error: 45.2561 - regularization_error: 48.2126 - val_loss: 253.5022 - val_reconstruction_error: 206.8025 - val_regularization_error: 46.6997
Epoch 552/1000
600/600 [=====] - 74s 123ms/step - loss: 93.5644 - reconstruction_error: 45.3327 - regularization_error: 48.2317 - val_loss: 256.7068 - val_reconstruction_error: 208.2381 - val_regularization_error: 48.4688
Epoch 553/1000
600/600 [=====] - 75s 124ms/step - loss: 93.5513 - reconstruction_error: 45.2661 - regularization_error: 48.2852 - val_loss: 253.9286 - val_reconstruction_error: 205.7944 - val_regularization_error: 48.1342
Epoch 554/1000
600/600 [=====] - 70s 117ms/step - loss: 93.5591 - reconstruction_error: 45.2758 - regularization_error: 48.2833 - val_loss: 255.9913 - val_reconstruction_error: 206.9837 - val_regularization_error: 49.0076
Epoch 555/1000
600/600 [=====] - 66s 110ms/step - loss: 93.4581 - reconstruction_error: 45.2501 - regularization_error: 48.2080 - val_loss: 258.6153 - val_reconstruction_error: 211.5325 - val_regularization_error: 47.0829
Epoch 556/1000
600/600 [=====] - 79s 130ms/step - loss: 93.5061 - reconstruction_error: 45.2254 - regularization_error: 48.2808 - val_loss: 252.8148 - val_reconstruction_error: 206.7866 - val_regularization_error: 46.0283
Epoch 557/1000
600/600 [=====] - 75s 124ms/step - loss: 93.4883 - reconstruction_error: 45.2552 - regularization_error: 48.2330 - val_loss: 254.7598 - val_reconstruction_error: 207.2813 - val_regularization_error: 47.4786
Epoch 558/1000
600/600 [=====] - 75s 125ms/step - loss: 93.3255 - reconstruction_error: 45.1570 - regularization_error: 48.1685 - val_loss: 251.6147 - val_reconstruction_error: 205.3834 - val_regularization_error: 46.2312
Epoch 559/1000
600/600 [=====] - 77s 128ms/step - loss: 93.3480 - reconstruction_error: 45.2345 - regularization_error: 48.1135 - val_loss: 252.3532 - val_reconstruction_error: 205.3578 - val_regularization_error: 46.9953
Epoch 560/1000
600/600 [=====] - 72s 119ms/step - loss: 93.4190 - reconstruction_error: 45.2463 - regularization_error: 48.1727 - val_loss: 257.5743 - val_reconstruction_error: 209.5274 - val_regularization_error: 48.0470
Epoch 561/1000
600/600 [=====] - ETA: 0s - loss: 93.5036 - reconstruction_error: 45.3047 - regularization_error: 48.1989
[2023-11-30 20:58:31.822519]: Generating fixed images for epoch 561 ...
```



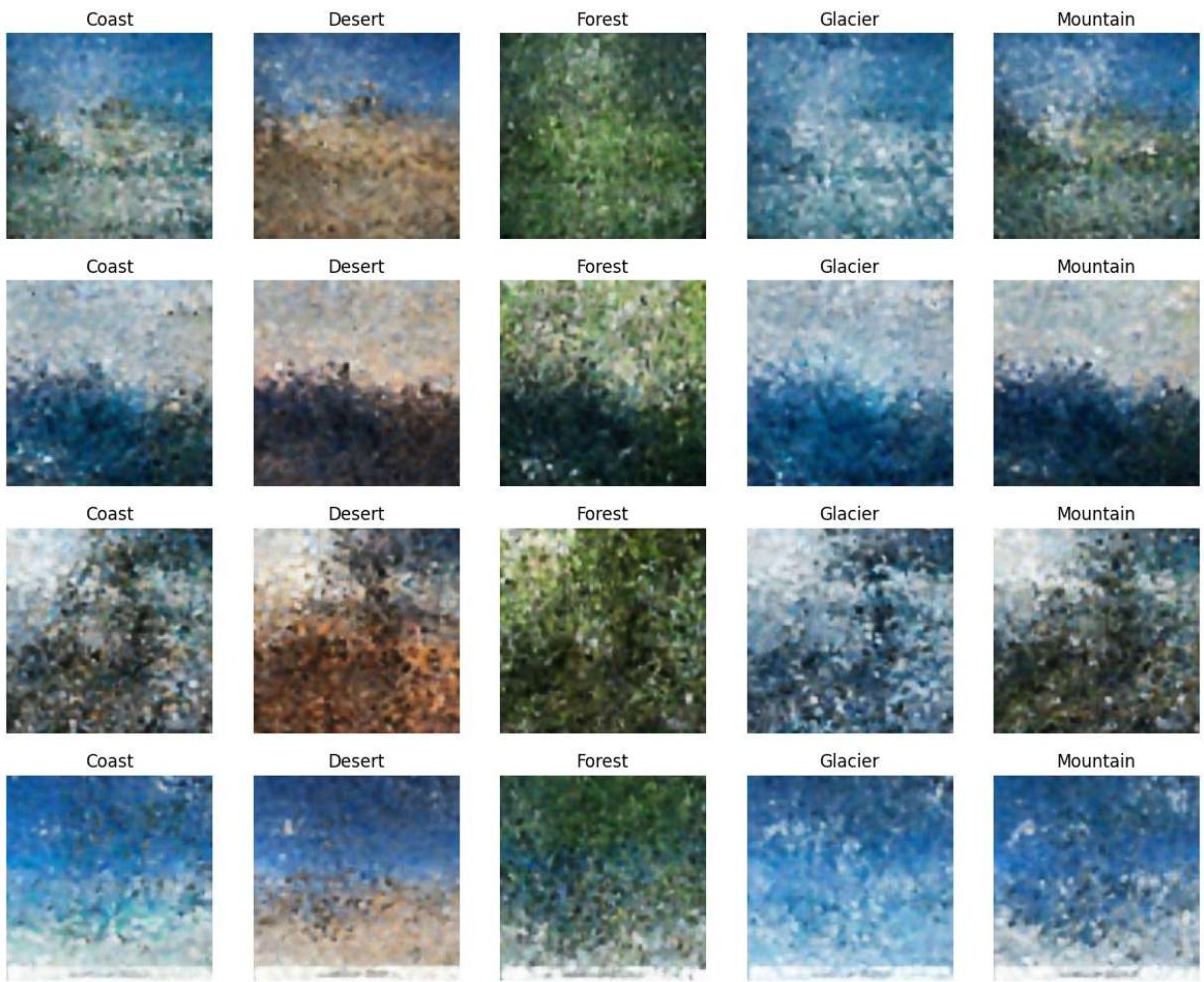
```
[2023-11-30 20:58:32.414857]: Generating random images for epoch 561 ...
```



600/600 [=====] - 72s 120ms/step - loss: 93.5036 - reconstruction_error: 45.3047 - regularization_error: 48.1989 - val_loss: 253.5929 - val_reconstruction_error: 207.5106 - val_regularization_error: 46.0822
Epoch 562/1000
600/600 [=====] - 74s 124ms/step - loss: 93.3450 - reconstruction_error: 45.2173 - regularization_error: 48.1278 - val_loss: 252.7884 - val_reconstruction_error: 207.8015 - val_regularization_error: 44.9869
Epoch 563/1000
600/600 [=====] - 86s 144ms/step - loss: 93.4659 - reconstruction_error: 45.2036 - regularization_error: 48.2624 - val_loss: 251.8766 - val_reconstruction_error: 205.5193 - val_regularization_error: 46.3573
Epoch 564/1000
600/600 [=====] - 72s 120ms/step - loss: 93.3210 - reconstruction_error: 45.1317 - regularization_error: 48.1894 - val_loss: 254.1028 - val_reconstruction_error: 207.7003 - val_regularization_error: 46.4025
Epoch 565/1000
600/600 [=====] - 80s 133ms/step - loss: 93.3660 - reconstruction_error: 45.1543 - regularization_error: 48.2116 - val_loss: 254.6021 - val_reconstruction_error: 206.3910 - val_regularization_error: 48.2110
Epoch 566/1000
600/600 [=====] - 73s 121ms/step - loss: 93.3503 - reconstruction_error: 45.1015 - regularization_error: 48.2488 - val_loss: 255.2983 - val_reconstruction_error: 208.4857 - val_regularization_error: 46.8126
Epoch 567/1000
600/600 [=====] - 80s 133ms/step - loss: 93.6199 - reconstruction_error: 45.3007 - regularization_error: 48.3193 - val_loss: 256.3800 - val_reconstruction_error: 207.3200 - val_regularization_error: 49.0601
Epoch 568/1000
600/600 [=====] - 70s 116ms/step - loss: 93.4128 - reconstruction_error: 45.1539 - regularization_error: 48.2589 - val_loss: 252.6708 - val_reconstruction_error: 206.9147 - val_regularization_error: 45.7562
Epoch 569/1000
600/600 [=====] - 81s 134ms/step - loss: 93.3982 - reconstruction_error: 45.1783 - regularization_error: 48.2199 - val_loss: 257.6550 - val_reconstruction_error: 211.0307 - val_regularization_error: 46.6243
Epoch 570/1000
600/600 [=====] - 76s 127ms/step - loss: 93.3272 - reconstruction_error: 45.1168 - regularization_error: 48.2104 - val_loss: 251.7292 - val_reconstruction_error: 205.0730 - val_regularization_error: 46.6562
Epoch 571/1000
600/600 [=====] - ETA: 0s - loss: 93.1868 - reconstruction_error: 45.0273 - regularization_error: 48.1595
[2023-11-30 21:11:26.909281]: Generating fixed images for epoch 571 ...



[2023-11-30 21:11:27.870784]: Generating random images for epoch 571 ...



```
600/600 [=====] - 82s 136ms/step - loss: 93.1868 - reconstruction_error: 45.0273 - regularization_error: 48.1595 - val_loss: 255.2336 - val_reconstruction_error: 210.0990 - val_regularization_error: 45.1346
Epoch 572/1000
600/600 [=====] - 73s 122ms/step - loss: 93.2897 - reconstruction_error: 45.1202 - regularization_error: 48.1695 - val_loss: 256.0785 - val_reconstruction_error: 207.2276 - val_regularization_error: 48.8509
Epoch 573/1000
600/600 [=====] - 73s 122ms/step - loss: 93.2490 - reconstruction_error: 45.1157 - regularization_error: 48.1333 - val_loss: 253.3041 - val_reconstruction_error: 207.3092 - val_regularization_error: 45.9950
Epoch 574/1000
600/600 [=====] - 72s 119ms/step - loss: 93.0033 - reconstruction_error: 44.9094 - regularization_error: 48.0940 - val_loss: 252.2602 - val_reconstruction_error: 203.3556 - val_regularization_error: 48.9047
Epoch 575/1000
600/600 [=====] - 72s 118ms/step - loss: 93.1773 - reconstruction_error: 45.0835 - regularization_error: 48.0937 - val_loss: 255.5431 - val_reconstruction_error: 209.4236 - val_regularization_error: 46.1195
Epoch 576/1000
600/600 [=====] - 69s 114ms/step - loss: 93.2307 - reconstruction_error: 45.0442 - regularization_error: 48.1864 - val_loss: 250.1627 - val_reconstruction_error: 203.3545 - val_regularization_error: 46.8081
Epoch 577/1000
600/600 [=====] - 70s 115ms/step - loss: 93.1230 - reconstruction_error: 44.9601 - regularization_error: 48.1629 - val_loss: 255.4789 - val_reconstruction_error: 209.2265 - val_regularization_error: 46.2524
Epoch 578/1000
600/600 [=====] - 74s 123ms/step - loss: 93.1481 - reconstruction_error: 44.9698 - regularization_error: 48.1783 - val_loss: 255.6019 - val_reconstruction_error: 208.3370 - val_regularization_error: 47.2648
Epoch 579/1000
600/600 [=====] - 76s 127ms/step - loss: 93.0321 - reconstruction_error: 44.9731 - regularization_error: 48.0591 - val_loss: 253.3914 - val_reconstruction_error: 205.9901 - val_regularization_error: 47.4013
Epoch 580/1000
600/600 [=====] - 78s 130ms/step - loss: 93.2399 - reconstruction_error: 45.1459 - regularization_error: 48.0940 - val_loss: 255.5148 - val_reconstruction_error: 209.3601 - val_regularization_error: 46.1547
Epoch 581/1000
600/600 [=====] - ETA: 0s - loss: 93.0490 - reconstruction_error: 44.9478 - regularization_error: 48.1012
[2023-11-30 21:23:38.237586]: Generating fixed images for epoch 581 ...
```



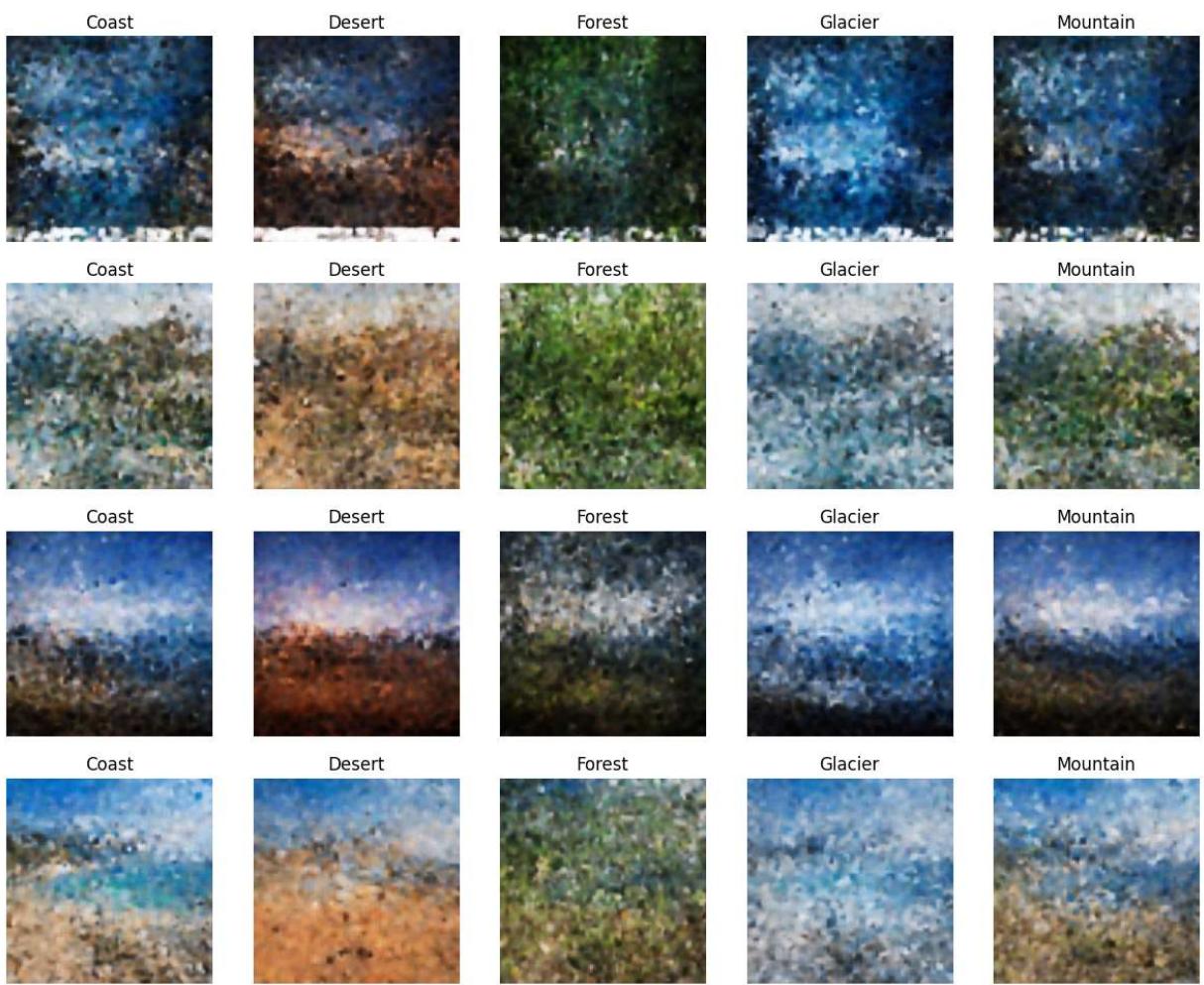
```
[2023-11-30 21:23:39.389165]: Generating random images for epoch 581 ...
```



600/600 [=====] - 73s 121ms/step - loss: 93.0490 - reconstruction_error: 44.9478 - regularization_error: 48.1012 - val_loss: 252.6658 - val_reconstruction_error: 205.4670 - val_regularization_error: 47.1988
Epoch 582/1000
600/600 [=====] - 75s 125ms/step - loss: 93.1339 - reconstruction_error: 45.0302 - regularization_error: 48.1036 - val_loss: 252.2177 - val_reconstruction_error: 205.2822 - val_regularization_error: 46.9356
Epoch 583/1000
600/600 [=====] - 66s 110ms/step - loss: 93.1209 - reconstruction_error: 45.0472 - regularization_error: 48.0736 - val_loss: 256.9059 - val_reconstruction_error: 208.5892 - val_regularization_error: 48.3166
Epoch 584/1000
600/600 [=====] - 62s 102ms/step - loss: 92.9939 - reconstruction_error: 44.9412 - regularization_error: 48.0528 - val_loss: 253.1673 - val_reconstruction_error: 206.2777 - val_regularization_error: 46.8895
Epoch 585/1000
600/600 [=====] - 75s 124ms/step - loss: 92.8706 - reconstruction_error: 44.8404 - regularization_error: 48.0301 - val_loss: 255.1829 - val_reconstruction_error: 207.4663 - val_regularization_error: 47.7165
Epoch 586/1000
600/600 [=====] - 76s 126ms/step - loss: 92.9328 - reconstruction_error: 44.8920 - regularization_error: 48.0407 - val_loss: 251.6963 - val_reconstruction_error: 206.1541 - val_regularization_error: 45.5423
Epoch 587/1000
600/600 [=====] - 71s 118ms/step - loss: 93.0362 - reconstruction_error: 44.8847 - regularization_error: 48.1515 - val_loss: 252.3978 - val_reconstruction_error: 206.5295 - val_regularization_error: 45.8683
Epoch 588/1000
600/600 [=====] - 74s 123ms/step - loss: 92.9679 - reconstruction_error: 44.8787 - regularization_error: 48.0892 - val_loss: 254.5833 - val_reconstruction_error: 208.8791 - val_regularization_error: 45.7042
Epoch 589/1000
600/600 [=====] - 73s 121ms/step - loss: 92.8795 - reconstruction_error: 44.7904 - regularization_error: 48.0891 - val_loss: 255.5695 - val_reconstruction_error: 209.0931 - val_regularization_error: 46.4764
Epoch 590/1000
600/600 [=====] - 72s 120ms/step - loss: 92.8898 - reconstruction_error: 44.8950 - regularization_error: 47.9949 - val_loss: 253.7799 - val_reconstruction_error: 208.4874 - val_regularization_error: 45.2925
Epoch 591/1000
600/600 [=====] - ETA: 0s - loss: 92.9653 - reconstruction_error: 44.9916 - regularization_error: 47.9737
[2023-11-30 21:35:37.946251]: Generating fixed images for epoch 591 ...



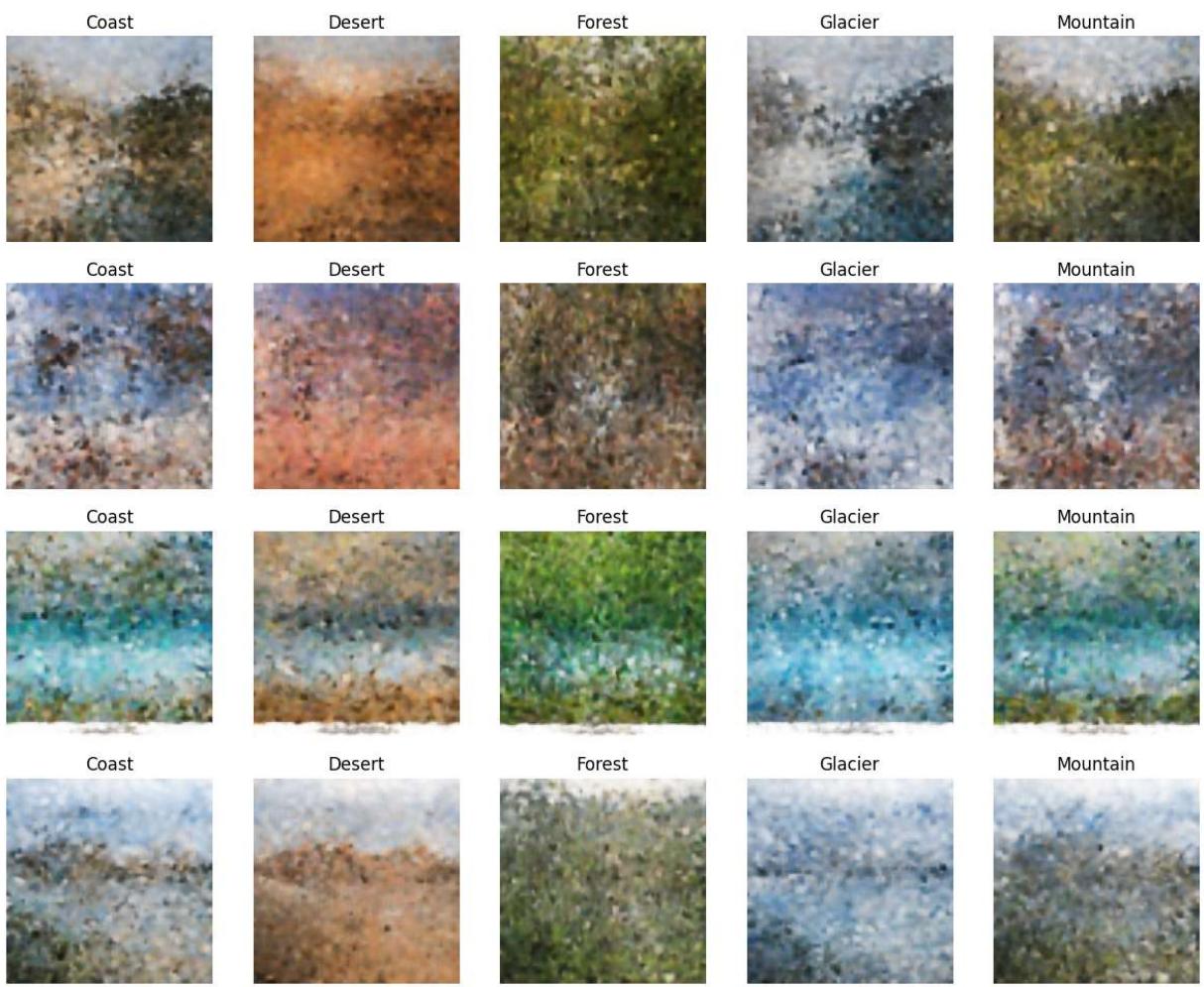
[2023-11-30 21:35:39.511085]: Generating random images for epoch 591 ...



600/600 [=====] - 75s 124ms/step - loss: 92.9653 - reconstruction_error: 44.9916 - regularization_error: 47.9737 - val_loss: 258.8332 - val_reconstruction_error: 210.6233 - val_regularization_error: 48.2099
Epoch 592/1000
600/600 [=====] - 63s 105ms/step - loss: 92.6527 - reconstruction_error: 44.6939 - regularization_error: 47.9588 - val_loss: 255.5672 - val_reconstruction_error: 209.7988 - val_regularization_error: 45.7685
Epoch 593/1000
600/600 [=====] - 74s 123ms/step - loss: 93.0284 - reconstruction_error: 44.9373 - regularization_error: 48.0911 - val_loss: 254.9329 - val_reconstruction_error: 206.9185 - val_regularization_error: 48.0144
Epoch 594/1000
600/600 [=====] - 68s 113ms/step - loss: 92.9297 - reconstruction_error: 44.8297 - regularization_error: 48.0999 - val_loss: 254.8032 - val_reconstruction_error: 206.9657 - val_regularization_error: 47.8374
Epoch 595/1000
600/600 [=====] - 70s 116ms/step - loss: 92.9398 - reconstruction_error: 44.8726 - regularization_error: 48.0673 - val_loss: 255.8304 - val_reconstruction_error: 209.2004 - val_regularization_error: 46.6300
Epoch 596/1000
600/600 [=====] - 73s 121ms/step - loss: 92.9764 - reconstruction_error: 44.8236 - regularization_error: 48.1529 - val_loss: 252.8021 - val_reconstruction_error: 206.9334 - val_regularization_error: 45.8686
Epoch 597/1000
600/600 [=====] - 66s 109ms/step - loss: 92.8151 - reconstruction_error: 44.8014 - regularization_error: 48.0138 - val_loss: 253.4132 - val_reconstruction_error: 206.7272 - val_regularization_error: 46.6861
Epoch 598/1000
600/600 [=====] - 77s 129ms/step - loss: 92.7008 - reconstruction_error: 44.7403 - regularization_error: 47.9605 - val_loss: 254.2367 - val_reconstruction_error: 206.8454 - val_regularization_error: 47.3913
Epoch 599/1000
600/600 [=====] - 75s 125ms/step - loss: 92.9205 - reconstruction_error: 44.8846 - regularization_error: 48.0359 - val_loss: 260.4398 - val_reconstruction_error: 210.8345 - val_regularization_error: 49.6054
Epoch 600/1000
600/600 [=====] - 71s 116ms/step - loss: 92.7573 - reconstruction_error: 44.7916 - regularization_error: 47.9658 - val_loss: 255.3988 - val_reconstruction_error: 207.4473 - val_regularization_error: 47.9515
Epoch 601/1000
600/600 [=====] - ETA: 0s - loss: 92.7743 - reconstruction_error: 44.8480 - regularization_error: 47.9263
[2023-11-30 21:47:35.646115]: Generating fixed images for epoch 601 ...



[2023-11-30 21:47:36.444805]: Generating random images for epoch 601 ...



600/600 [=====] - 78s 130ms/step - loss: 92.7743 - reconstruction_error: 44.8480 - regularization_error: 47.9263 - val_loss: 255.7284 - val_reconstruction_error: 208.6660 - val_regularization_error: 47.0624
Epoch 602/1000
600/600 [=====] - 69s 114ms/step - loss: 92.7217 - reconstruction_error: 44.7641 - regularization_error: 47.9576 - val_loss: 254.1076 - val_reconstruction_error: 207.7164 - val_regularization_error: 46.3911
Epoch 603/1000
600/600 [=====] - 71s 118ms/step - loss: 92.8625 - reconstruction_error: 44.8490 - regularization_error: 48.0135 - val_loss: 254.2395 - val_reconstruction_error: 208.0126 - val_regularization_error: 46.2269
Epoch 604/1000
600/600 [=====] - 78s 130ms/step - loss: 92.7488 - reconstruction_error: 44.6859 - regularization_error: 48.0630 - val_loss: 252.6656 - val_reconstruction_error: 206.8595 - val_regularization_error: 45.8062
Epoch 605/1000
600/600 [=====] - 75s 125ms/step - loss: 92.6505 - reconstruction_error: 44.7057 - regularization_error: 47.9447 - val_loss: 255.3001 - val_reconstruction_error: 209.2707 - val_regularization_error: 46.0294
Epoch 606/1000
600/600 [=====] - 76s 127ms/step - loss: 92.7616 - reconstruction_error: 44.8387 - regularization_error: 47.9229 - val_loss: 259.4997 - val_reconstruction_error: 212.2430 - val_regularization_error: 47.2568
Epoch 607/1000
600/600 [=====] - 74s 124ms/step - loss: 92.6949 - reconstruction_error: 44.6506 - regularization_error: 48.0442 - val_loss: 254.7775 - val_reconstruction_error: 208.0331 - val_regularization_error: 46.7444
Epoch 608/1000
600/600 [=====] - 69s 114ms/step - loss: 92.6819 - reconstruction_error: 44.6963 - regularization_error: 47.9856 - val_loss: 254.0035 - val_reconstruction_error: 208.5192 - val_regularization_error: 45.4843
Epoch 609/1000
600/600 [=====] - 75s 124ms/step - loss: 92.6263 - reconstruction_error: 44.6642 - regularization_error: 47.9621 - val_loss: 253.0256 - val_reconstruction_error: 206.9466 - val_regularization_error: 46.0789
Epoch 610/1000
600/600 [=====] - 73s 121ms/step - loss: 92.8354 - reconstruction_error: 44.7904 - regularization_error: 48.0450 - val_loss: 254.9358 - val_reconstruction_error: 208.7674 - val_regularization_error: 46.1684
Epoch 611/1000
600/600 [=====] - ETA: 0s - loss: 92.4846 - reconstruction_error: 44.5397 - regularization_error: 47.9449
[2023-11-30 22:00:01.520909]: Generating fixed images for epoch 611 ...



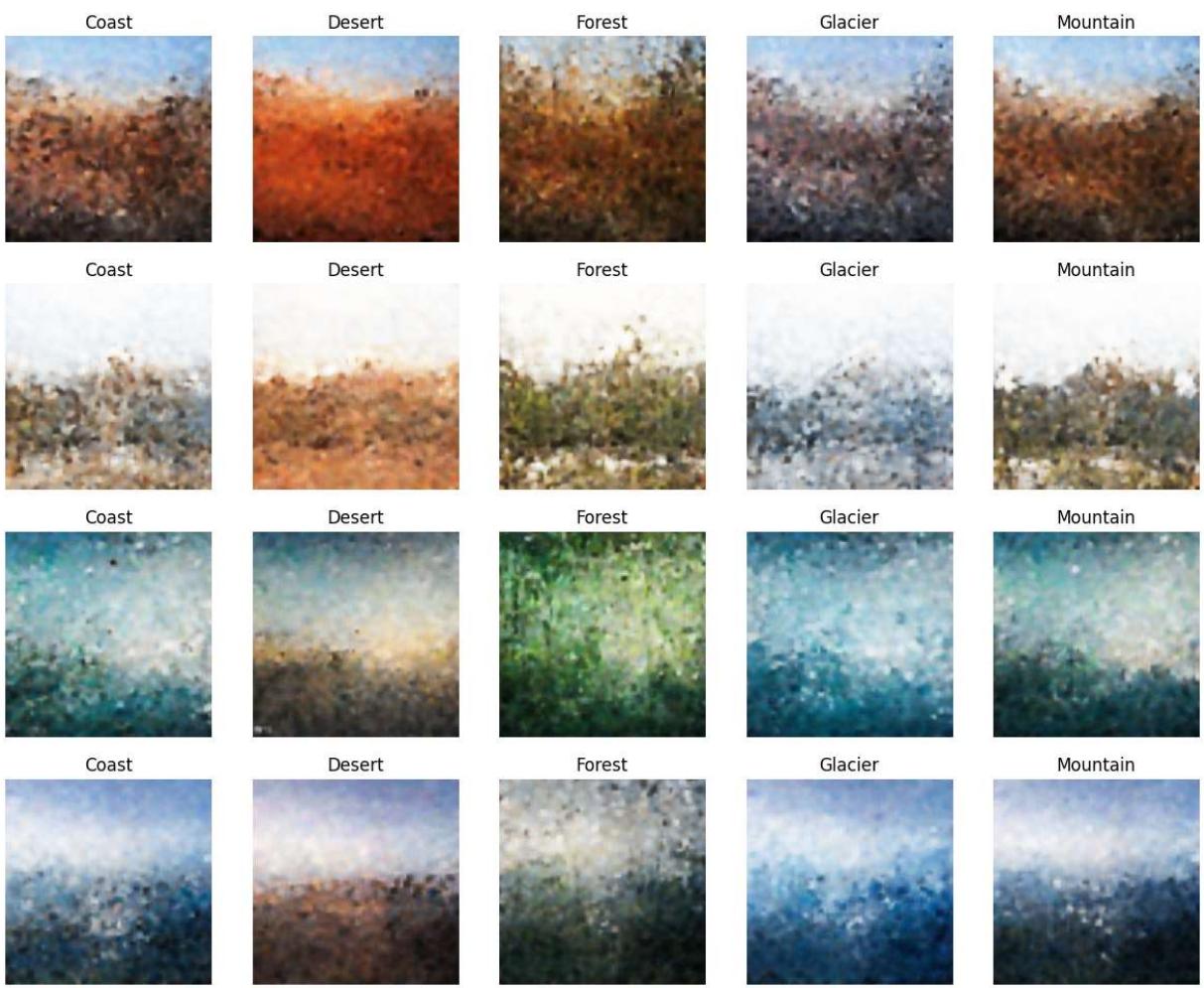
[2023-11-30 22:00:02.548474]: Generating random images for epoch 611 ...



600/600 [=====] - 75s 124ms/step - loss: 92.4846 - reconstruction_error: 44.5397 - regularization_error: 47.9449 - val_loss: 253.6526 - val_reconstruction_error: 206.1585 - val_regularization_error: 47.4941
Epoch 612/1000
600/600 [=====] - 69s 114ms/step - loss: 92.5796 - reconstruction_error: 44.6344 - regularization_error: 47.9451 - val_loss: 254.0641 - val_reconstruction_error: 207.5255 - val_regularization_error: 46.5385
Epoch 613/1000
600/600 [=====] - 68s 113ms/step - loss: 92.5874 - reconstruction_error: 44.6716 - regularization_error: 47.9158 - val_loss: 254.2390 - val_reconstruction_error: 208.8800 - val_regularization_error: 45.3589
Epoch 614/1000
600/600 [=====] - 71s 118ms/step - loss: 92.7180 - reconstruction_error: 44.7168 - regularization_error: 48.0013 - val_loss: 256.9955 - val_reconstruction_error: 209.3119 - val_regularization_error: 47.6836
Epoch 615/1000
600/600 [=====] - 71s 119ms/step - loss: 92.6109 - reconstruction_error: 44.6536 - regularization_error: 47.9573 - val_loss: 257.5085 - val_reconstruction_error: 209.6753 - val_regularization_error: 47.8332
Epoch 616/1000
600/600 [=====] - 74s 123ms/step - loss: 92.6350 - reconstruction_error: 44.5800 - regularization_error: 48.0550 - val_loss: 254.7695 - val_reconstruction_error: 207.1900 - val_regularization_error: 47.5795
Epoch 617/1000
600/600 [=====] - 69s 115ms/step - loss: 92.5931 - reconstruction_error: 44.6314 - regularization_error: 47.9618 - val_loss: 256.9864 - val_reconstruction_error: 209.8922 - val_regularization_error: 47.0942
Epoch 618/1000
600/600 [=====] - 76s 126ms/step - loss: 92.5263 - reconstruction_error: 44.5420 - regularization_error: 47.9843 - val_loss: 257.0971 - val_reconstruction_error: 210.5016 - val_regularization_error: 46.5954
Epoch 619/1000
600/600 [=====] - 71s 117ms/step - loss: 92.5474 - reconstruction_error: 44.6039 - regularization_error: 47.9435 - val_loss: 254.2933 - val_reconstruction_error: 209.5412 - val_regularization_error: 44.7522
Epoch 620/1000
600/600 [=====] - 71s 118ms/step - loss: 92.3688 - reconstruction_error: 44.5538 - regularization_error: 47.8151 - val_loss: 258.6914 - val_reconstruction_error: 211.8200 - val_regularization_error: 46.8714
Epoch 621/1000
600/600 [=====] - ETA: 0s - loss: 92.3727 - reconstruction_error: 44.5363 - regularization_error: 47.8364
[2023-11-30 22:11:57.912997]: Generating fixed images for epoch 621 ...



[2023-11-30 22:11:58.724636]: Generating random images for epoch 621 ...



```
600/600 [=====] - 75s 125ms/step - loss: 92.3727 - reconstruction_error: 44.5363 - regularization_error: 47.8364 - val_loss: 257.2298 - val_reconstruction_error: 210.0681 - val_regularization_error: 47.1617
Epoch 622/1000
600/600 [=====] - 76s 127ms/step - loss: 92.5801 - reconstruction_error: 44.6478 - regularization_error: 47.9323 - val_loss: 257.9383 - val_reconstruction_error: 209.9890 - val_regularization_error: 47.9493
Epoch 623/1000
600/600 [=====] - 74s 124ms/step - loss: 92.4696 - reconstruction_error: 44.5258 - regularization_error: 47.9438 - val_loss: 253.3121 - val_reconstruction_error: 206.3512 - val_regularization_error: 46.9609
Epoch 624/1000
600/600 [=====] - 72s 120ms/step - loss: 92.5035 - reconstruction_error: 44.5354 - regularization_error: 47.9682 - val_loss: 255.0285 - val_reconstruction_error: 208.1329 - val_regularization_error: 46.8956
Epoch 625/1000
600/600 [=====] - 75s 124ms/step - loss: 92.1035 - reconstruction_error: 44.3371 - regularization_error: 47.7664 - val_loss: 256.2396 - val_reconstruction_error: 210.1344 - val_regularization_error: 46.1051
Epoch 626/1000
600/600 [=====] - 71s 118ms/step - loss: 92.4917 - reconstruction_error: 44.5788 - regularization_error: 47.9130 - val_loss: 255.9868 - val_reconstruction_error: 209.1111 - val_regularization_error: 46.8758
Epoch 627/1000
600/600 [=====] - 73s 122ms/step - loss: 92.3537 - reconstruction_error: 44.4528 - regularization_error: 47.9009 - val_loss: 254.7116 - val_reconstruction_error: 207.8341 - val_regularization_error: 46.8775
Epoch 628/1000
600/600 [=====] - 73s 122ms/step - loss: 92.5454 - reconstruction_error: 44.5899 - regularization_error: 47.9555 - val_loss: 256.2613 - val_reconstruction_error: 210.7092 - val_regularization_error: 45.5521
Epoch 629/1000
600/600 [=====] - 80s 134ms/step - loss: 92.4731 - reconstruction_error: 44.5461 - regularization_error: 47.9271 - val_loss: 255.9759 - val_reconstruction_error: 209.3728 - val_regularization_error: 46.6032
Epoch 630/1000
600/600 [=====] - 67s 112ms/step - loss: 92.4520 - reconstruction_error: 44.5171 - regularization_error: 47.9349 - val_loss: 253.0290 - val_reconstruction_error: 205.4224 - val_regularization_error: 47.6066
Epoch 631/1000
600/600 [=====] - ETA: 0s - loss: 92.4231 - reconstruction_error: 44.5350 - regularization_error: 47.8881
[2023-11-30 22:24:22.350667]: Generating fixed images for epoch 631 ...
```



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[2023-11-30 22:24:23.123917]: Generating random images for epoch 631 ...
```



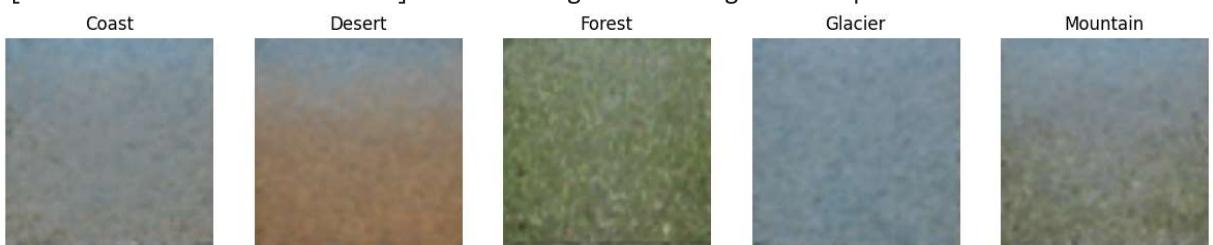
600/600 [=====] - 80s 132ms/step - loss: 92.4231 - reconstruction_error: 44.5350 - regularization_error: 47.8881 - val_loss: 251.5847 - val_reconstruction_error: 204.4756 - val_regularization_error: 47.1091
Epoch 632/1000
600/600 [=====] - 74s 124ms/step - loss: 92.1274 - reconstruction_error: 44.4248 - regularization_error: 47.7025 - val_loss: 254.8219 - val_reconstruction_error: 208.8620 - val_regularization_error: 45.9600
Epoch 633/1000
600/600 [=====] - 68s 112ms/step - loss: 92.2314 - reconstruction_error: 44.3482 - regularization_error: 47.8831 - val_loss: 254.2603 - val_reconstruction_error: 207.4530 - val_regularization_error: 46.8073
Epoch 634/1000
600/600 [=====] - 73s 122ms/step - loss: 92.2988 - reconstruction_error: 44.4019 - regularization_error: 47.8968 - val_loss: 256.6009 - val_reconstruction_error: 208.1429 - val_regularization_error: 48.4580
Epoch 635/1000
600/600 [=====] - 72s 119ms/step - loss: 92.2159 - reconstruction_error: 44.3735 - regularization_error: 47.8424 - val_loss: 254.8446 - val_reconstruction_error: 209.2240 - val_regularization_error: 45.6205
Epoch 636/1000
600/600 [=====] - 75s 124ms/step - loss: 92.3537 - reconstruction_error: 44.4745 - regularization_error: 47.8792 - val_loss: 252.8429 - val_reconstruction_error: 206.9825 - val_regularization_error: 45.8604
Epoch 637/1000
600/600 [=====] - 75s 124ms/step - loss: 92.2999 - reconstruction_error: 44.3868 - regularization_error: 47.9131 - val_loss: 254.9453 - val_reconstruction_error: 208.4524 - val_regularization_error: 46.4929
Epoch 638/1000
600/600 [=====] - 72s 119ms/step - loss: 92.1169 - reconstruction_error: 44.3778 - regularization_error: 47.7391 - val_loss: 256.4851 - val_reconstruction_error: 208.6599 - val_regularization_error: 47.8252
Epoch 639/1000
600/600 [=====] - 71s 118ms/step - loss: 92.2352 - reconstruction_error: 44.4071 - regularization_error: 47.8282 - val_loss: 256.8975 - val_reconstruction_error: 208.8754 - val_regularization_error: 48.0221
Epoch 640/1000
600/600 [=====] - 79s 131ms/step - loss: 92.1488 - reconstruction_error: 44.3144 - regularization_error: 47.8344 - val_loss: 258.5550 - val_reconstruction_error: 211.0622 - val_regularization_error: 47.4927
Epoch 641/1000
600/600 [=====] - ETA: 0s - loss: 92.3394 - reconstruction_error: 44.4060 - regularization_error: 47.9333
[2023-11-30 22:36:39.998259]: Generating fixed images for epoch 641 ...



[2023-11-30 22:36:41.468163]: Generating random images for epoch 641 ...



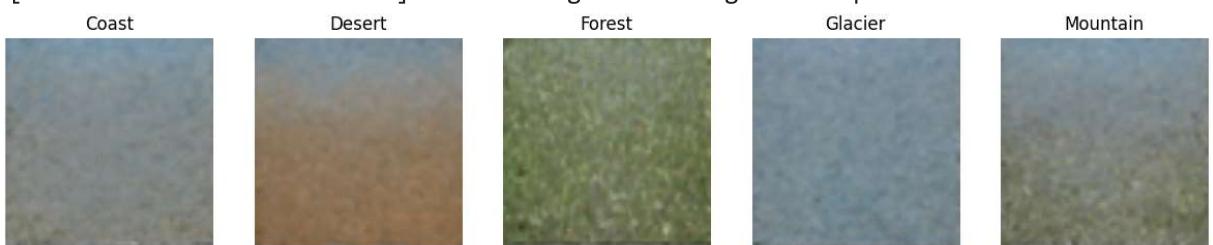
```
600/600 [=====] - 80s 133ms/step - loss: 92.3394 - reconstruction_error: 44.4060 - regularization_error: 47.9333 - val_loss: 252.6555 - val_reconstruction_error: 205.7443 - val_regularization_error: 46.9111
Epoch 642/1000
600/600 [=====] - 72s 119ms/step - loss: 92.0089 - reconstruction_error: 44.2178 - regularization_error: 47.7910 - val_loss: 258.3128 - val_reconstruction_error: 211.3766 - val_regularization_error: 46.9362
Epoch 643/1000
600/600 [=====] - 75s 125ms/step - loss: 92.1652 - reconstruction_error: 44.2894 - regularization_error: 47.8758 - val_loss: 257.3008 - val_reconstruction_error: 210.2971 - val_regularization_error: 47.0037
Epoch 644/1000
600/600 [=====] - 72s 119ms/step - loss: 92.1579 - reconstruction_error: 44.3752 - regularization_error: 47.7827 - val_loss: 254.4995 - val_reconstruction_error: 209.0687 - val_regularization_error: 45.4309
Epoch 645/1000
600/600 [=====] - 76s 127ms/step - loss: 92.1323 - reconstruction_error: 44.3183 - regularization_error: 47.8140 - val_loss: 256.2092 - val_reconstruction_error: 208.6644 - val_regularization_error: 47.5448
Epoch 646/1000
600/600 [=====] - 76s 126ms/step - loss: 92.1453 - reconstruction_error: 44.3704 - regularization_error: 47.7749 - val_loss: 253.3183 - val_reconstruction_error: 207.0039 - val_regularization_error: 46.3144
Epoch 647/1000
600/600 [=====] - 70s 116ms/step - loss: 92.0311 - reconstruction_error: 44.2825 - regularization_error: 47.7486 - val_loss: 254.8498 - val_reconstruction_error: 207.4368 - val_regularization_error: 47.4130
Epoch 648/1000
600/600 [=====] - 69s 114ms/step - loss: 91.9706 - reconstruction_error: 44.2428 - regularization_error: 47.7277 - val_loss: 254.9358 - val_reconstruction_error: 207.2909 - val_regularization_error: 47.6449
Epoch 649/1000
600/600 [=====] - 76s 126ms/step - loss: 91.9631 - reconstruction_error: 44.1944 - regularization_error: 47.7687 - val_loss: 253.7478 - val_reconstruction_error: 207.1861 - val_regularization_error: 46.5616
Epoch 650/1000
600/600 [=====] - 66s 110ms/step - loss: 92.2026 - reconstruction_error: 44.3416 - regularization_error: 47.8610 - val_loss: 257.8282 - val_reconstruction_error: 210.7784 - val_regularization_error: 47.0497
Epoch 651/1000
600/600 [=====] - ETA: 0s - loss: 92.1063 - reconstruction_error: 44.3530 - regularization_error: 47.7533
[2023-11-30 22:48:54.439907]: Generating fixed images for epoch 651 ...
```



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[2023-11-30 22:48:55.193360]: Generating random images for epoch 651 ...
```



600/600 [=====] - 80s 132ms/step - loss: 92.1063 - reconstruction_error: 44.3530 - regularization_error: 47.7533 - val_loss: 253.7469 - val_reconstruction_error: 207.3210 - val_regularization_error: 46.4259
Epoch 652/1000
600/600 [=====] - 79s 132ms/step - loss: 91.9986 - reconstruction_error: 44.2594 - regularization_error: 47.7392 - val_loss: 249.9075 - val_reconstruction_error: 202.9349 - val_regularization_error: 46.9727
Epoch 653/1000
600/600 [=====] - 70s 116ms/step - loss: 92.0492 - reconstruction_error: 44.2448 - regularization_error: 47.8044 - val_loss: 253.9848 - val_reconstruction_error: 205.8841 - val_regularization_error: 48.1007
Epoch 654/1000
600/600 [=====] - 76s 127ms/step - loss: 91.9155 - reconstruction_error: 44.1885 - regularization_error: 47.7269 - val_loss: 253.9141 - val_reconstruction_error: 207.8464 - val_regularization_error: 46.0677
Epoch 655/1000
600/600 [=====] - 76s 126ms/step - loss: 92.0701 - reconstruction_error: 44.2979 - regularization_error: 47.7722 - val_loss: 253.0979 - val_reconstruction_error: 207.4656 - val_regularization_error: 45.6323
Epoch 656/1000
600/600 [=====] - 81s 135ms/step - loss: 92.1095 - reconstruction_error: 44.2711 - regularization_error: 47.8383 - val_loss: 256.9626 - val_reconstruction_error: 210.4614 - val_regularization_error: 46.5012
Epoch 657/1000
600/600 [=====] - 76s 126ms/step - loss: 91.9799 - reconstruction_error: 44.2365 - regularization_error: 47.7435 - val_loss: 255.3198 - val_reconstruction_error: 207.4171 - val_regularization_error: 47.9028
Epoch 658/1000
600/600 [=====] - 77s 127ms/step - loss: 91.7675 - reconstruction_error: 44.1016 - regularization_error: 47.6660 - val_loss: 254.0462 - val_reconstruction_error: 207.6573 - val_regularization_error: 46.3890
Epoch 659/1000
600/600 [=====] - 74s 124ms/step - loss: 92.0055 - reconstruction_error: 44.2272 - regularization_error: 47.7783 - val_loss: 257.1938 - val_reconstruction_error: 209.5687 - val_regularization_error: 47.6252
Epoch 660/1000
600/600 [=====] - 76s 125ms/step - loss: 91.8566 - reconstruction_error: 44.1879 - regularization_error: 47.6686 - val_loss: 254.9019 - val_reconstruction_error: 207.9012 - val_regularization_error: 47.0007
Epoch 661/1000
600/600 [=====] - ETA: 0s - loss: 91.8354 - reconstruction_error: 44.1749 - regularization_error: 47.6606
[2023-11-30 23:01:32.425770]: Generating fixed images for epoch 661 ...



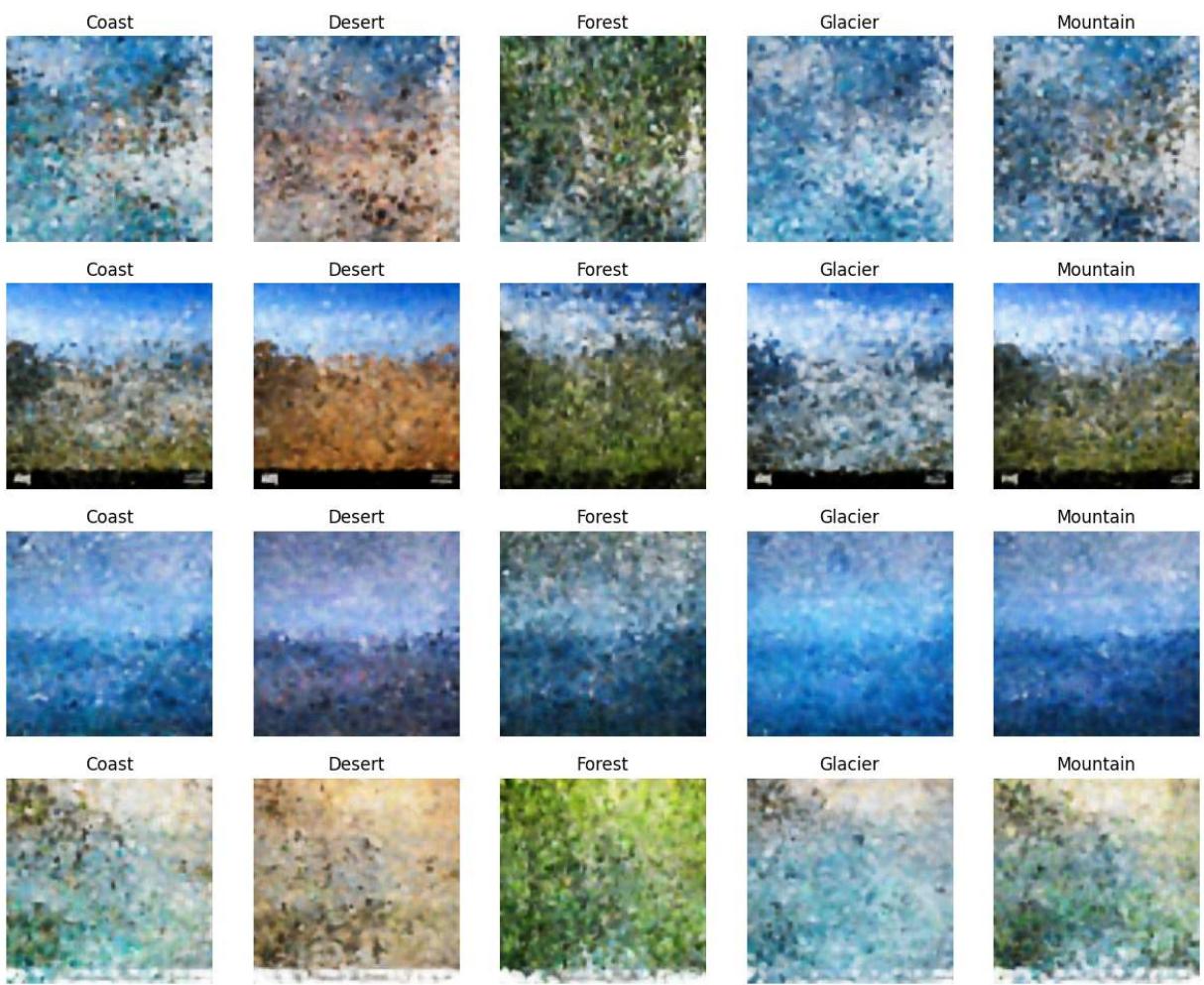
[2023-11-30 23:01:33.183417]: Generating random images for epoch 661 ...



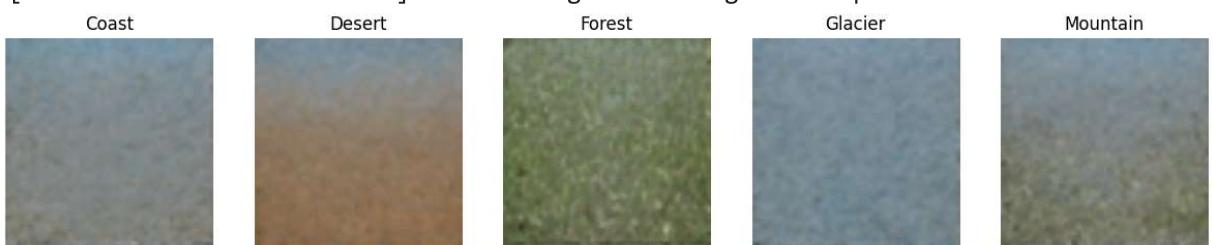
600/600 [=====] - 73s 121ms/step - loss: 91.8354 - reconstruction_error: 44.1749 - regularization_error: 47.6606 - val_loss: 256.4143 - val_reconstruction_error: 209.4546 - val_regularization_error: 46.9598
Epoch 662/1000
600/600 [=====] - 71s 118ms/step - loss: 91.9700 - reconstruction_error: 44.2122 - regularization_error: 47.7578 - val_loss: 254.6504 - val_reconstruction_error: 208.1213 - val_regularization_error: 46.5291
Epoch 663/1000
600/600 [=====] - 74s 123ms/step - loss: 91.8840 - reconstruction_error: 44.1831 - regularization_error: 47.7010 - val_loss: 253.6118 - val_reconstruction_error: 207.1605 - val_regularization_error: 46.4512
Epoch 664/1000
600/600 [=====] - 74s 123ms/step - loss: 91.9274 - reconstruction_error: 44.1733 - regularization_error: 47.7541 - val_loss: 257.7520 - val_reconstruction_error: 211.4452 - val_regularization_error: 46.3069
Epoch 665/1000
600/600 [=====] - 74s 122ms/step - loss: 91.7792 - reconstruction_error: 44.1395 - regularization_error: 47.6397 - val_loss: 252.4118 - val_reconstruction_error: 206.2835 - val_regularization_error: 46.1283
Epoch 666/1000
600/600 [=====] - 80s 133ms/step - loss: 91.8343 - reconstruction_error: 44.1232 - regularization_error: 47.7110 - val_loss: 256.5312 - val_reconstruction_error: 210.6523 - val_regularization_error: 45.8788
Epoch 667/1000
600/600 [=====] - 72s 120ms/step - loss: 91.7457 - reconstruction_error: 44.1243 - regularization_error: 47.6214 - val_loss: 255.3022 - val_reconstruction_error: 209.0318 - val_regularization_error: 46.2704
Epoch 668/1000
600/600 [=====] - 78s 129ms/step - loss: 91.7767 - reconstruction_error: 44.1050 - regularization_error: 47.6718 - val_loss: 255.2128 - val_reconstruction_error: 209.2392 - val_regularization_error: 45.9736
Epoch 669/1000
600/600 [=====] - 75s 125ms/step - loss: 91.7406 - reconstruction_error: 44.1104 - regularization_error: 47.6302 - val_loss: 253.9083 - val_reconstruction_error: 207.6273 - val_regularization_error: 46.2809
Epoch 670/1000
600/600 [=====] - 72s 119ms/step - loss: 91.8894 - reconstruction_error: 44.1777 - regularization_error: 47.7116 - val_loss: 253.8683 - val_reconstruction_error: 207.7620 - val_regularization_error: 46.1063
Epoch 671/1000
600/600 [=====] - ETA: 0s - loss: 91.6830 - reconstruction_error: 43.9300 - regularization_error: 47.7530
[2023-11-30 23:13:52.161925]: Generating fixed images for epoch 671 ...



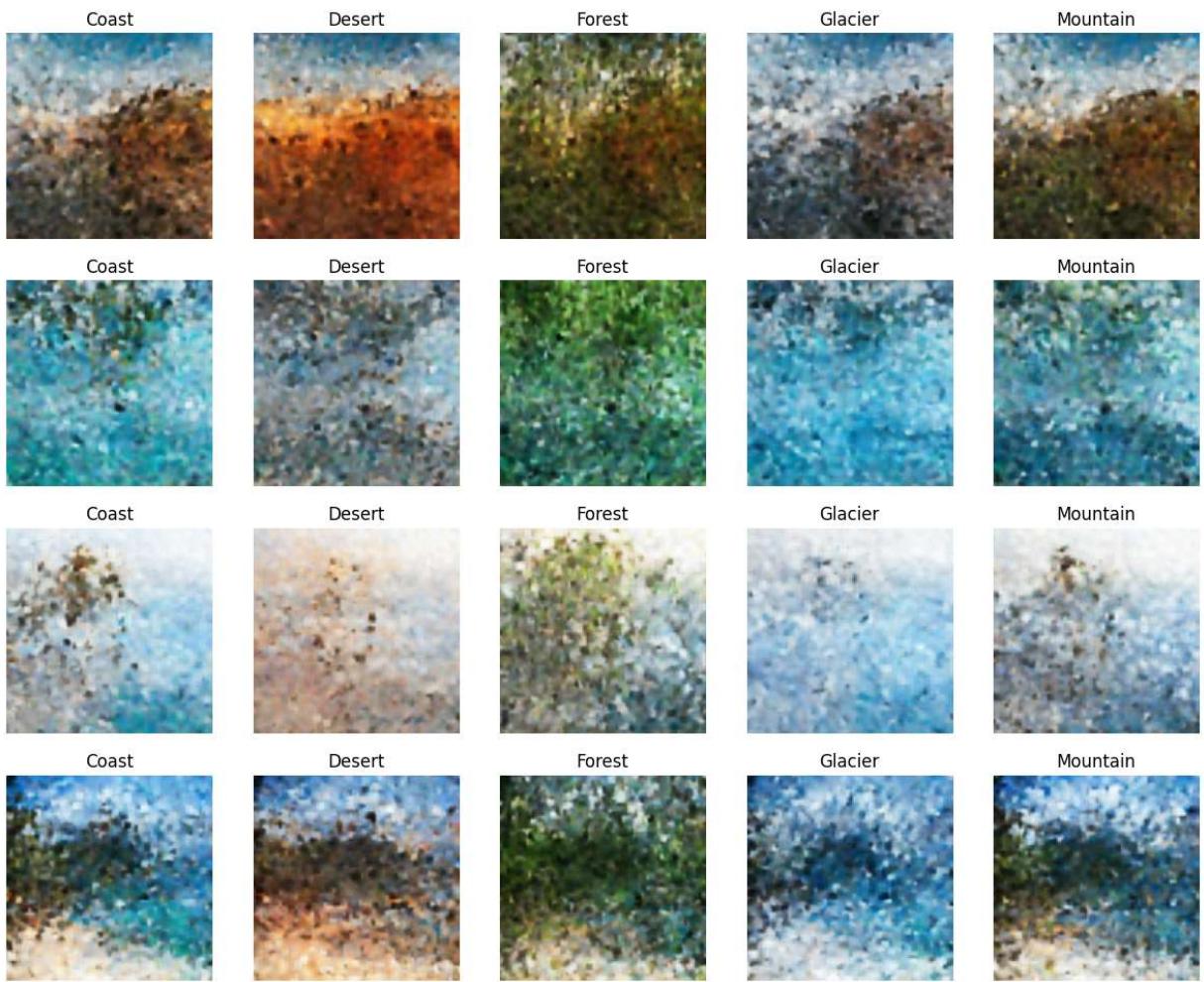
[2023-11-30 23:13:52.968270]: Generating random images for epoch 671 ...



600/600 [=====] - 70s 116ms/step - loss: 91.6830 - reconstruction_error: 43.9300 - regularization_error: 47.7530 - val_loss: 255.8057 - val_reconstruction_error: 209.0021 - val_regularization_error: 46.8036
Epoch 672/1000
600/600 [=====] - 79s 132ms/step - loss: 91.6667 - reconstruction_error: 44.0446 - regularization_error: 47.6221 - val_loss: 254.6058 - val_reconstruction_error: 208.4748 - val_regularization_error: 46.1311
Epoch 673/1000
600/600 [=====] - 72s 119ms/step - loss: 91.8412 - reconstruction_error: 44.0774 - regularization_error: 47.7637 - val_loss: 259.0312 - val_reconstruction_error: 212.4154 - val_regularization_error: 46.6158
Epoch 674/1000
600/600 [=====] - 69s 114ms/step - loss: 91.7610 - reconstruction_error: 44.0964 - regularization_error: 47.6646 - val_loss: 253.6890 - val_reconstruction_error: 207.8220 - val_regularization_error: 45.8670
Epoch 675/1000
600/600 [=====] - 68s 113ms/step - loss: 91.7721 - reconstruction_error: 44.1124 - regularization_error: 47.6596 - val_loss: 253.6229 - val_reconstruction_error: 207.2053 - val_regularization_error: 46.4176
Epoch 676/1000
600/600 [=====] - 79s 131ms/step - loss: 91.6826 - reconstruction_error: 43.9833 - regularization_error: 47.6993 - val_loss: 257.1598 - val_reconstruction_error: 210.1205 - val_regularization_error: 47.0392
Epoch 677/1000
600/600 [=====] - 71s 118ms/step - loss: 91.7864 - reconstruction_error: 44.0572 - regularization_error: 47.7292 - val_loss: 254.4552 - val_reconstruction_error: 208.0844 - val_regularization_error: 46.3707
Epoch 678/1000
600/600 [=====] - 74s 124ms/step - loss: 91.6547 - reconstruction_error: 43.9446 - regularization_error: 47.7101 - val_loss: 255.5692 - val_reconstruction_error: 209.5712 - val_regularization_error: 45.9981
Epoch 679/1000
600/600 [=====] - 76s 126ms/step - loss: 91.7275 - reconstruction_error: 44.0193 - regularization_error: 47.7081 - val_loss: 259.2829 - val_reconstruction_error: 212.5644 - val_regularization_error: 46.7185
Epoch 680/1000
600/600 [=====] - 69s 114ms/step - loss: 91.6143 - reconstruction_error: 43.9729 - regularization_error: 47.6413 - val_loss: 252.7810 - val_reconstruction_error: 206.1508 - val_regularization_error: 46.6302
Epoch 681/1000
600/600 [=====] - ETA: 0s - loss: 91.7140 - reconstruction_error: 44.0353 - regularization_error: 47.6787
[2023-11-30 23:26:02.601037]: Generating fixed images for epoch 681 ...



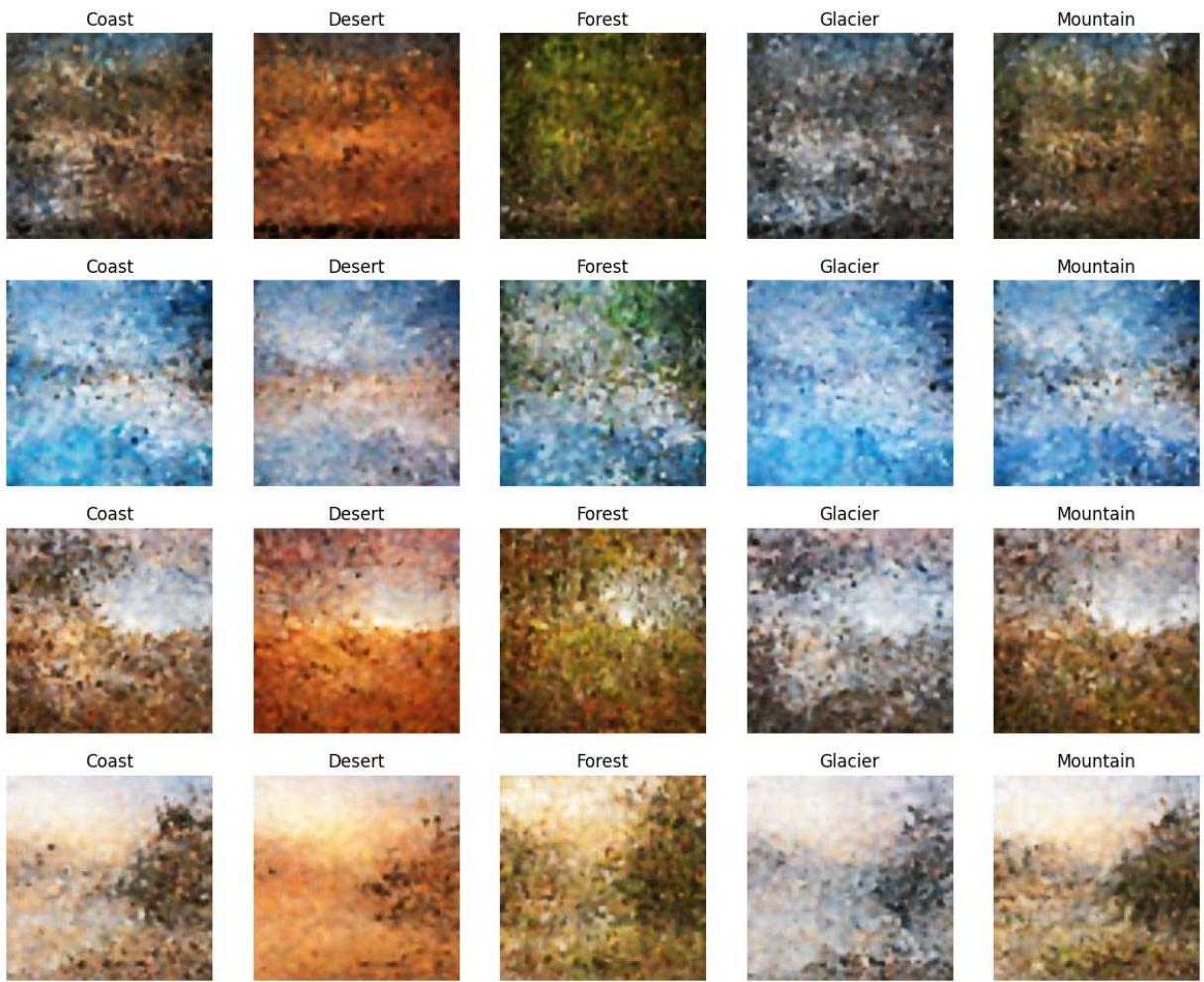
[2023-11-30 23:26:03.592794]: Generating random images for epoch 681 ...



600/600 [=====] - 72s 119ms/step - loss: 91.7140 - reconstruction_error: 44.0353 - regularization_error: 47.6787 - val_loss: 257.4337 - val_reconstruction_error: 211.0088 - val_regularization_error: 46.4249
Epoch 682/1000
600/600 [=====] - 69s 114ms/step - loss: 91.5558 - reconstruction_error: 43.9342 - regularization_error: 47.6217 - val_loss: 255.1727 - val_reconstruction_error: 209.6940 - val_regularization_error: 45.4787
Epoch 683/1000
600/600 [=====] - 74s 122ms/step - loss: 91.5764 - reconstruction_error: 43.9787 - regularization_error: 47.5977 - val_loss: 254.2632 - val_reconstruction_error: 208.0625 - val_regularization_error: 46.2007
Epoch 684/1000
600/600 [=====] - 74s 123ms/step - loss: 91.5414 - reconstruction_error: 43.9231 - regularization_error: 47.6183 - val_loss: 252.2059 - val_reconstruction_error: 206.4221 - val_regularization_error: 45.7837
Epoch 685/1000
600/600 [=====] - 73s 121ms/step - loss: 91.4595 - reconstruction_error: 43.9344 - regularization_error: 47.5252 - val_loss: 252.3706 - val_reconstruction_error: 206.0627 - val_regularization_error: 46.3079
Epoch 686/1000
600/600 [=====] - 76s 126ms/step - loss: 91.5953 - reconstruction_error: 43.9710 - regularization_error: 47.6243 - val_loss: 253.1381 - val_reconstruction_error: 207.0679 - val_regularization_error: 46.0703
Epoch 687/1000
600/600 [=====] - 73s 122ms/step - loss: 91.4976 - reconstruction_error: 43.9261 - regularization_error: 47.5715 - val_loss: 257.2508 - val_reconstruction_error: 209.5425 - val_regularization_error: 47.7083
Epoch 688/1000
600/600 [=====] - 68s 113ms/step - loss: 91.4919 - reconstruction_error: 43.8931 - regularization_error: 47.5988 - val_loss: 260.2456 - val_reconstruction_error: 213.5629 - val_regularization_error: 46.6827
Epoch 689/1000
600/600 [=====] - 81s 135ms/step - loss: 91.4776 - reconstruction_error: 43.8488 - regularization_error: 47.6287 - val_loss: 256.0374 - val_reconstruction_error: 208.5142 - val_regularization_error: 47.5233
Epoch 690/1000
600/600 [=====] - 71s 118ms/step - loss: 91.5566 - reconstruction_error: 43.9702 - regularization_error: 47.5864 - val_loss: 255.9897 - val_reconstruction_error: 210.5456 - val_regularization_error: 45.4440
Epoch 691/1000
600/600 [=====] - ETA: 0s - loss: 91.4649 - reconstruction_error: 43.8835 - regularization_error: 47.5813
[2023-11-30 23:38:22.888953]: Generating fixed images for epoch 691 ...



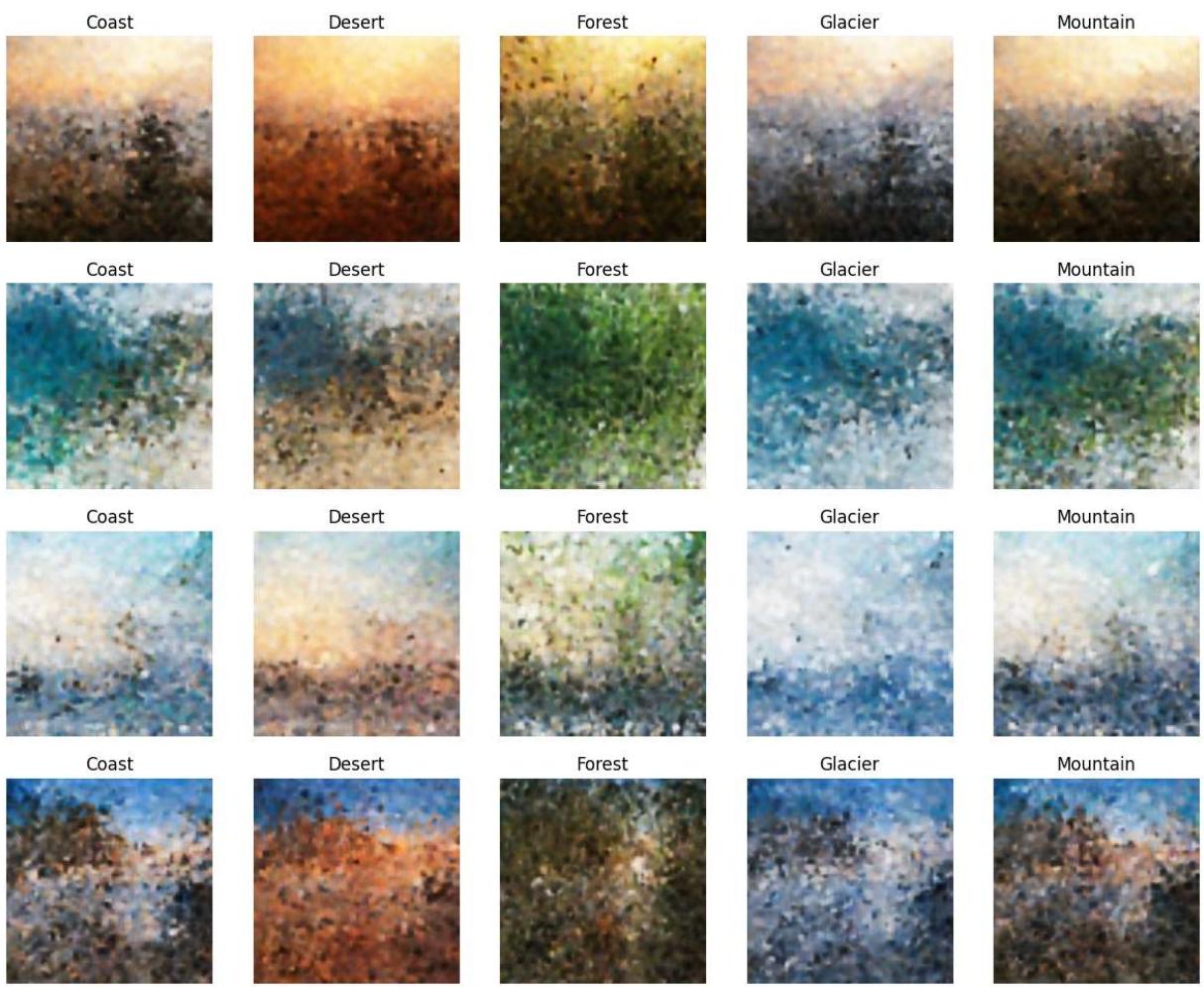
[2023-11-30 23:38:23.685409]: Generating random images for epoch 691 ...



600/600 [=====] - 80s 133ms/step - loss: 91.4649 - reconstruction_error: 43.8835 - regularization_error: 47.5813 - val_loss: 258.2386 - val_reconstruction_error: 211.6182 - val_regularization_error: 46.6204
Epoch 692/1000
600/600 [=====] - 74s 124ms/step - loss: 91.5213 - reconstruction_error: 43.8825 - regularization_error: 47.6388 - val_loss: 254.9243 - val_reconstruction_error: 208.7075 - val_regularization_error: 46.2169
Epoch 693/1000
600/600 [=====] - 68s 113ms/step - loss: 91.3159 - reconstruction_error: 43.8063 - regularization_error: 47.5097 - val_loss: 254.9014 - val_reconstruction_error: 207.7595 - val_regularization_error: 47.1419
Epoch 694/1000
600/600 [=====] - 79s 131ms/step - loss: 91.4400 - reconstruction_error: 43.8391 - regularization_error: 47.6009 - val_loss: 259.4383 - val_reconstruction_error: 212.7984 - val_regularization_error: 46.6398
Epoch 695/1000
600/600 [=====] - 73s 122ms/step - loss: 91.3481 - reconstruction_error: 43.8213 - regularization_error: 47.5268 - val_loss: 255.5458 - val_reconstruction_error: 210.0026 - val_regularization_error: 45.5432
Epoch 696/1000
600/600 [=====] - 77s 129ms/step - loss: 91.3621 - reconstruction_error: 43.8834 - regularization_error: 47.4786 - val_loss: 257.2975 - val_reconstruction_error: 210.8102 - val_regularization_error: 46.4872
Epoch 697/1000
600/600 [=====] - 82s 136ms/step - loss: 91.3940 - reconstruction_error: 43.7795 - regularization_error: 47.6145 - val_loss: 256.9789 - val_reconstruction_error: 210.5782 - val_regularization_error: 46.4007
Epoch 698/1000
600/600 [=====] - 70s 116ms/step - loss: 91.6518 - reconstruction_error: 43.9642 - regularization_error: 47.6876 - val_loss: 254.7377 - val_reconstruction_error: 206.9032 - val_regularization_error: 47.8345
Epoch 699/1000
600/600 [=====] - 66s 110ms/step - loss: 91.3299 - reconstruction_error: 43.7754 - regularization_error: 47.5545 - val_loss: 256.1302 - val_reconstruction_error: 211.2164 - val_regularization_error: 44.9137
Epoch 700/1000
600/600 [=====] - 76s 125ms/step - loss: 91.3647 - reconstruction_error: 43.8382 - regularization_error: 47.5266 - val_loss: 255.3646 - val_reconstruction_error: 209.3747 - val_regularization_error: 45.9900
Epoch 701/1000
600/600 [=====] - ETA: 0s - loss: 91.3278 - reconstruction_error: 43.8192 - regularization_error: 47.5086
[2023-11-30 23:50:47.355880]: Generating fixed images for epoch 701 ...



[2023-11-30 23:50:48.057838]: Generating random images for epoch 701 ...



600/600 [=====] - 77s 128ms/step - loss: 91.3278 - reconstruction_error: 43.8192 - regularization_error: 47.5086 - val_loss: 258.2522 - val_reconstruction_error: 212.5197 - val_regularization_error: 45.7326
Epoch 702/1000
600/600 [=====] - 70s 116ms/step - loss: 91.3875 - reconstruction_error: 43.8163 - regularization_error: 47.5712 - val_loss: 254.3432 - val_reconstruction_error: 207.7127 - val_regularization_error: 46.6304
Epoch 703/1000
600/600 [=====] - 71s 118ms/step - loss: 91.3428 - reconstruction_error: 43.8140 - regularization_error: 47.5288 - val_loss: 257.0471 - val_reconstruction_error: 212.5615 - val_regularization_error: 44.4856
Epoch 704/1000
600/600 [=====] - 74s 124ms/step - loss: 91.3195 - reconstruction_error: 43.7500 - regularization_error: 47.5694 - val_loss: 258.8287 - val_reconstruction_error: 212.0345 - val_regularization_error: 46.7942
Epoch 705/1000
600/600 [=====] - 76s 126ms/step - loss: 91.3411 - reconstruction_error: 43.7428 - regularization_error: 47.5983 - val_loss: 254.6237 - val_reconstruction_error: 207.1904 - val_regularization_error: 47.4333
Epoch 706/1000
600/600 [=====] - 71s 117ms/step - loss: 91.3197 - reconstruction_error: 43.7255 - regularization_error: 47.5942 - val_loss: 258.6939 - val_reconstruction_error: 212.1163 - val_regularization_error: 46.5776
Epoch 707/1000
600/600 [=====] - 65s 107ms/step - loss: 91.2096 - reconstruction_error: 43.7545 - regularization_error: 47.4551 - val_loss: 263.3789 - val_reconstruction_error: 215.1626 - val_regularization_error: 48.2164
Epoch 708/1000
600/600 [=====] - 70s 117ms/step - loss: 91.1941 - reconstruction_error: 43.7110 - regularization_error: 47.4832 - val_loss: 254.3438 - val_reconstruction_error: 208.2983 - val_regularization_error: 46.0455
Epoch 709/1000
600/600 [=====] - 75s 125ms/step - loss: 91.1101 - reconstruction_error: 43.7211 - regularization_error: 47.3890 - val_loss: 254.0009 - val_reconstruction_error: 207.1632 - val_regularization_error: 46.8377
Epoch 710/1000
600/600 [=====] - 71s 119ms/step - loss: 91.1720 - reconstruction_error: 43.7517 - regularization_error: 47.4202 - val_loss: 257.2944 - val_reconstruction_error: 209.3094 - val_regularization_error: 47.9849
Epoch 711/1000
600/600 [=====] - ETA: 0s - loss: 91.1472 - reconstruction_error: 43.6256 - regularization_error: 47.5217
[2023-12-01 00:02:52.036248]: Generating fixed images for epoch 711 ...



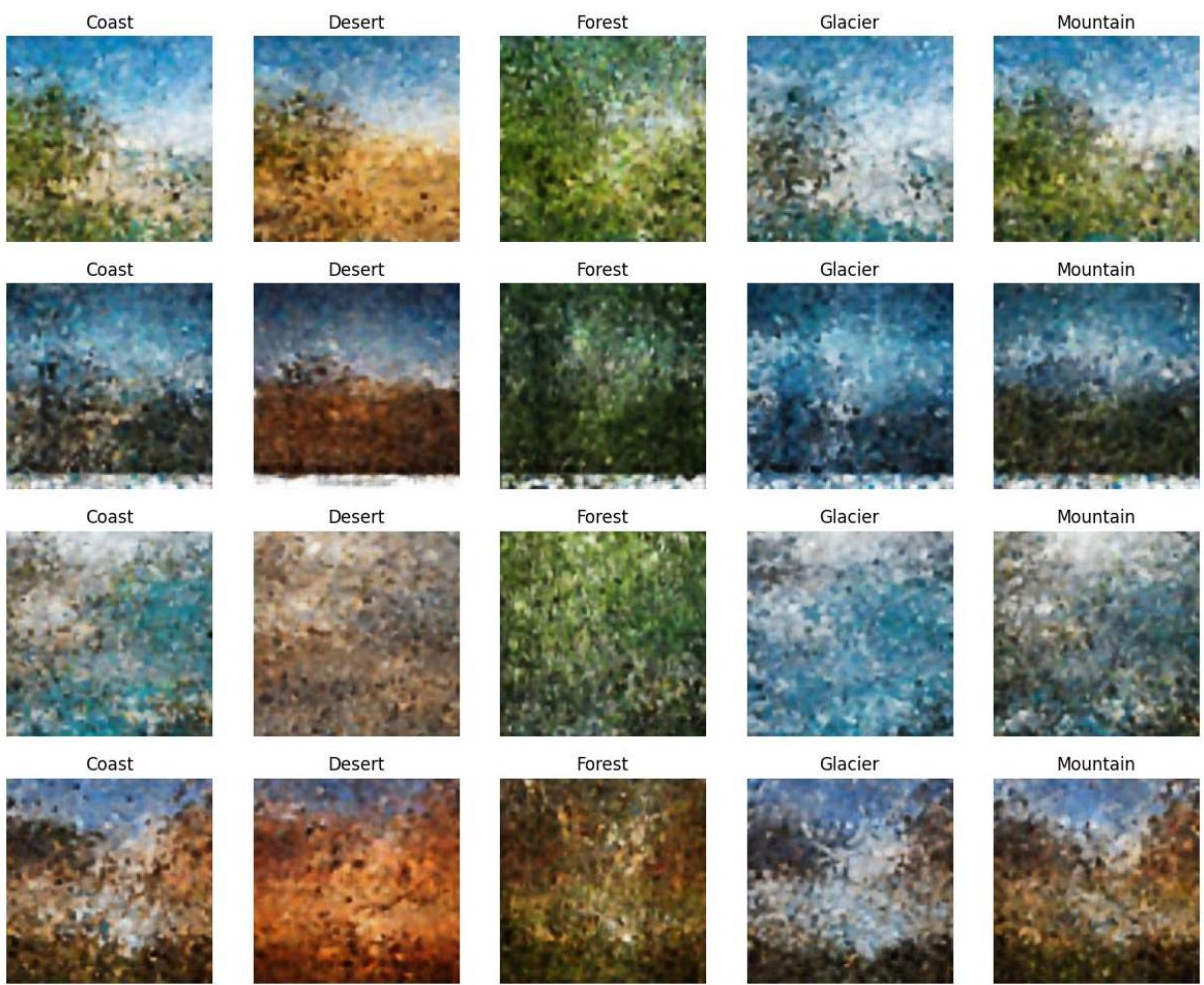
[2023-12-01 00:02:52.800286]: Generating random images for epoch 711 ...



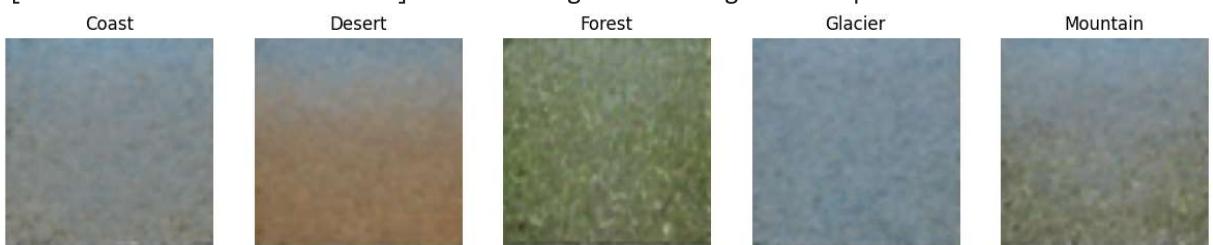
```
600/600 [=====] - 81s 134ms/step - loss: 91.1472 - reconstruction_error: 43.6256 - regularization_error: 47.5217 - val_loss: 257.1693 - val_reconstruction_error: 211.8096 - val_regularization_error: 45.3597
Epoch 712/1000
600/600 [=====] - 73s 122ms/step - loss: 91.2188 - reconstruction_error: 43.7541 - regularization_error: 47.4647 - val_loss: 259.2684 - val_reconstruction_error: 213.5087 - val_regularization_error: 45.7597
Epoch 713/1000
600/600 [=====] - 72s 120ms/step - loss: 91.3291 - reconstruction_error: 43.7636 - regularization_error: 47.5655 - val_loss: 259.6959 - val_reconstruction_error: 212.8708 - val_regularization_error: 46.8251
Epoch 714/1000
600/600 [=====] - 70s 116ms/step - loss: 91.3035 - reconstruction_error: 43.7776 - regularization_error: 47.5259 - val_loss: 255.5126 - val_reconstruction_error: 210.0719 - val_regularization_error: 45.4407
Epoch 715/1000
600/600 [=====] - 77s 128ms/step - loss: 91.1487 - reconstruction_error: 43.6625 - regularization_error: 47.4861 - val_loss: 256.0365 - val_reconstruction_error: 209.8292 - val_regularization_error: 46.2073
Epoch 716/1000
600/600 [=====] - 71s 118ms/step - loss: 91.1819 - reconstruction_error: 43.6672 - regularization_error: 47.5148 - val_loss: 258.3631 - val_reconstruction_error: 212.6038 - val_regularization_error: 45.7593
Epoch 717/1000
600/600 [=====] - 74s 122ms/step - loss: 91.2058 - reconstruction_error: 43.7584 - regularization_error: 47.4474 - val_loss: 251.8924 - val_reconstruction_error: 206.0184 - val_regularization_error: 45.8740
Epoch 718/1000
600/600 [=====] - 77s 127ms/step - loss: 91.2227 - reconstruction_error: 43.7619 - regularization_error: 47.4608 - val_loss: 256.2462 - val_reconstruction_error: 209.2170 - val_regularization_error: 47.0291
Epoch 719/1000
600/600 [=====] - 79s 131ms/step - loss: 91.1749 - reconstruction_error: 43.5983 - regularization_error: 47.5766 - val_loss: 257.1887 - val_reconstruction_error: 210.6570 - val_regularization_error: 46.5317
Epoch 720/1000
600/600 [=====] - 62s 102ms/step - loss: 91.1789 - reconstruction_error: 43.6599 - regularization_error: 47.5191 - val_loss: 254.7805 - val_reconstruction_error: 209.2860 - val_regularization_error: 45.4944
Epoch 721/1000
600/600 [=====] - ETA: 0s - loss: 91.0966 - reconstruction_error: 43.5327 - regularization_error: 47.5638
[2023-12-01 00:15:08.088331]: Generating fixed images for epoch 721 ...
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[2023-12-01 00:15:09.537490]: Generating random images for epoch 721 ...
```



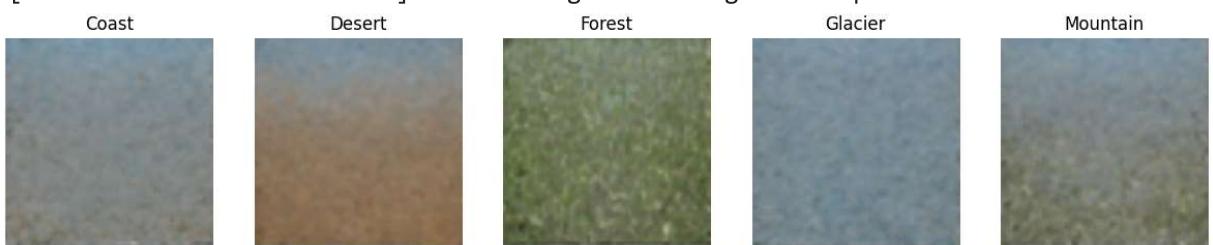
600/600 [=====] - 79s 131ms/step - loss: 91.0966 - reconstruction_error: 43.5327 - regularization_error: 47.5638 - val_loss: 256.8430 - val_reconstruction_error: 210.3858 - val_regularization_error: 46.4573
Epoch 722/1000
600/600 [=====] - 80s 133ms/step - loss: 91.0607 - reconstruction_error: 43.6408 - regularization_error: 47.4199 - val_loss: 256.9547 - val_reconstruction_error: 210.1543 - val_regularization_error: 46.8004
Epoch 723/1000
600/600 [=====] - 74s 122ms/step - loss: 91.0958 - reconstruction_error: 43.6597 - regularization_error: 47.4361 - val_loss: 256.3384 - val_reconstruction_error: 209.5551 - val_regularization_error: 46.7833
Epoch 724/1000
600/600 [=====] - 73s 121ms/step - loss: 91.0492 - reconstruction_error: 43.5935 - regularization_error: 47.4557 - val_loss: 255.9365 - val_reconstruction_error: 211.2924 - val_regularization_error: 44.6442
Epoch 725/1000
600/600 [=====] - 73s 121ms/step - loss: 90.8846 - reconstruction_error: 43.4866 - regularization_error: 47.3980 - val_loss: 254.1411 - val_reconstruction_error: 208.0175 - val_regularization_error: 46.1235
Epoch 726/1000
600/600 [=====] - 71s 117ms/step - loss: 91.2320 - reconstruction_error: 43.7631 - regularization_error: 47.4689 - val_loss: 255.9479 - val_reconstruction_error: 210.2395 - val_regularization_error: 45.7084
Epoch 727/1000
600/600 [=====] - 73s 122ms/step - loss: 91.0650 - reconstruction_error: 43.6243 - regularization_error: 47.4407 - val_loss: 259.6057 - val_reconstruction_error: 213.7556 - val_regularization_error: 45.8501
Epoch 728/1000
600/600 [=====] - 68s 114ms/step - loss: 91.0373 - reconstruction_error: 43.6237 - regularization_error: 47.4135 - val_loss: 257.4013 - val_reconstruction_error: 211.0100 - val_regularization_error: 46.3913
Epoch 729/1000
600/600 [=====] - 76s 126ms/step - loss: 90.9689 - reconstruction_error: 43.5230 - regularization_error: 47.4459 - val_loss: 258.9207 - val_reconstruction_error: 212.7231 - val_regularization_error: 46.1975
Epoch 730/1000
600/600 [=====] - 77s 128ms/step - loss: 91.2375 - reconstruction_error: 43.6935 - regularization_error: 47.5440 - val_loss: 255.5586 - val_reconstruction_error: 209.3119 - val_regularization_error: 46.2467
Epoch 731/1000
600/600 [=====] - ETA: 0s - loss: 90.9765 - reconstruction_error: 43.5433 - regularization_error: 47.4332
[2023-12-01 00:27:33.919182]: Generating fixed images for epoch 731 ...



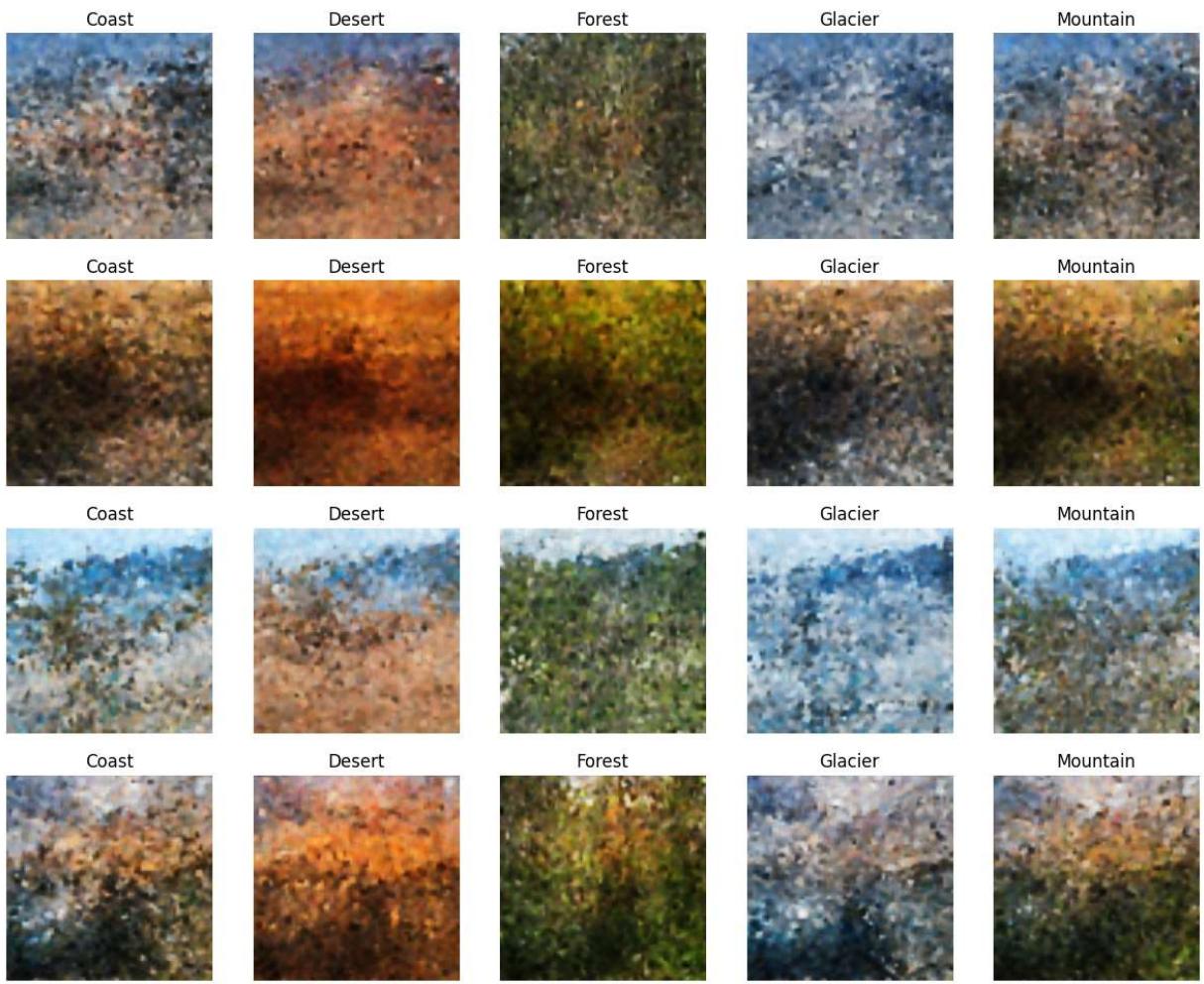
[2023-12-01 00:27:35.479604]: Generating random images for epoch 731 ...



600/600 [=====] - 80s 133ms/step - loss: 90.9765 - reconstruction_error: 43.5433 - regularization_error: 47.4332 - val_loss: 256.4142 - val_reconstruction_error: 209.4985 - val_regularization_error: 46.9155
Epoch 732/1000
600/600 [=====] - 74s 124ms/step - loss: 90.8990 - reconstruction_error: 43.5817 - regularization_error: 47.3172 - val_loss: 254.9631 - val_reconstruction_error: 209.0831 - val_regularization_error: 45.8801
Epoch 733/1000
600/600 [=====] - 79s 132ms/step - loss: 90.8936 - reconstruction_error: 43.5578 - regularization_error: 47.3359 - val_loss: 255.6648 - val_reconstruction_error: 211.2903 - val_regularization_error: 44.3745
Epoch 734/1000
600/600 [=====] - 71s 118ms/step - loss: 90.9122 - reconstruction_error: 43.5755 - regularization_error: 47.3367 - val_loss: 253.4148 - val_reconstruction_error: 206.8347 - val_regularization_error: 46.5801
Epoch 735/1000
600/600 [=====] - 77s 128ms/step - loss: 90.9053 - reconstruction_error: 43.4981 - regularization_error: 47.4072 - val_loss: 253.9588 - val_reconstruction_error: 206.2845 - val_regularization_error: 47.6744
Epoch 736/1000
600/600 [=====] - 70s 116ms/step - loss: 91.0430 - reconstruction_error: 43.5763 - regularization_error: 47.4667 - val_loss: 255.4627 - val_reconstruction_error: 209.3806 - val_regularization_error: 46.0822
Epoch 737/1000
600/600 [=====] - 71s 118ms/step - loss: 90.9555 - reconstruction_error: 43.5365 - regularization_error: 47.4190 - val_loss: 257.1007 - val_reconstruction_error: 209.8783 - val_regularization_error: 47.2225
Epoch 738/1000
600/600 [=====] - 72s 119ms/step - loss: 90.9630 - reconstruction_error: 43.4798 - regularization_error: 47.4832 - val_loss: 258.1865 - val_reconstruction_error: 212.0882 - val_regularization_error: 46.0983
Epoch 739/1000
600/600 [=====] - 77s 128ms/step - loss: 90.8706 - reconstruction_error: 43.4645 - regularization_error: 47.4062 - val_loss: 255.1967 - val_reconstruction_error: 207.7556 - val_regularization_error: 47.4410
Epoch 740/1000
600/600 [=====] - 72s 120ms/step - loss: 90.8954 - reconstruction_error: 43.4911 - regularization_error: 47.4043 - val_loss: 255.6309 - val_reconstruction_error: 210.1806 - val_regularization_error: 45.4503
Epoch 741/1000
600/600 [=====] - ETA: 0s - loss: 91.0175 - reconstruction_error: 43.5332 - regularization_error: 47.4843
[2023-12-01 00:39:57.519013]: Generating fixed images for epoch 741 ...



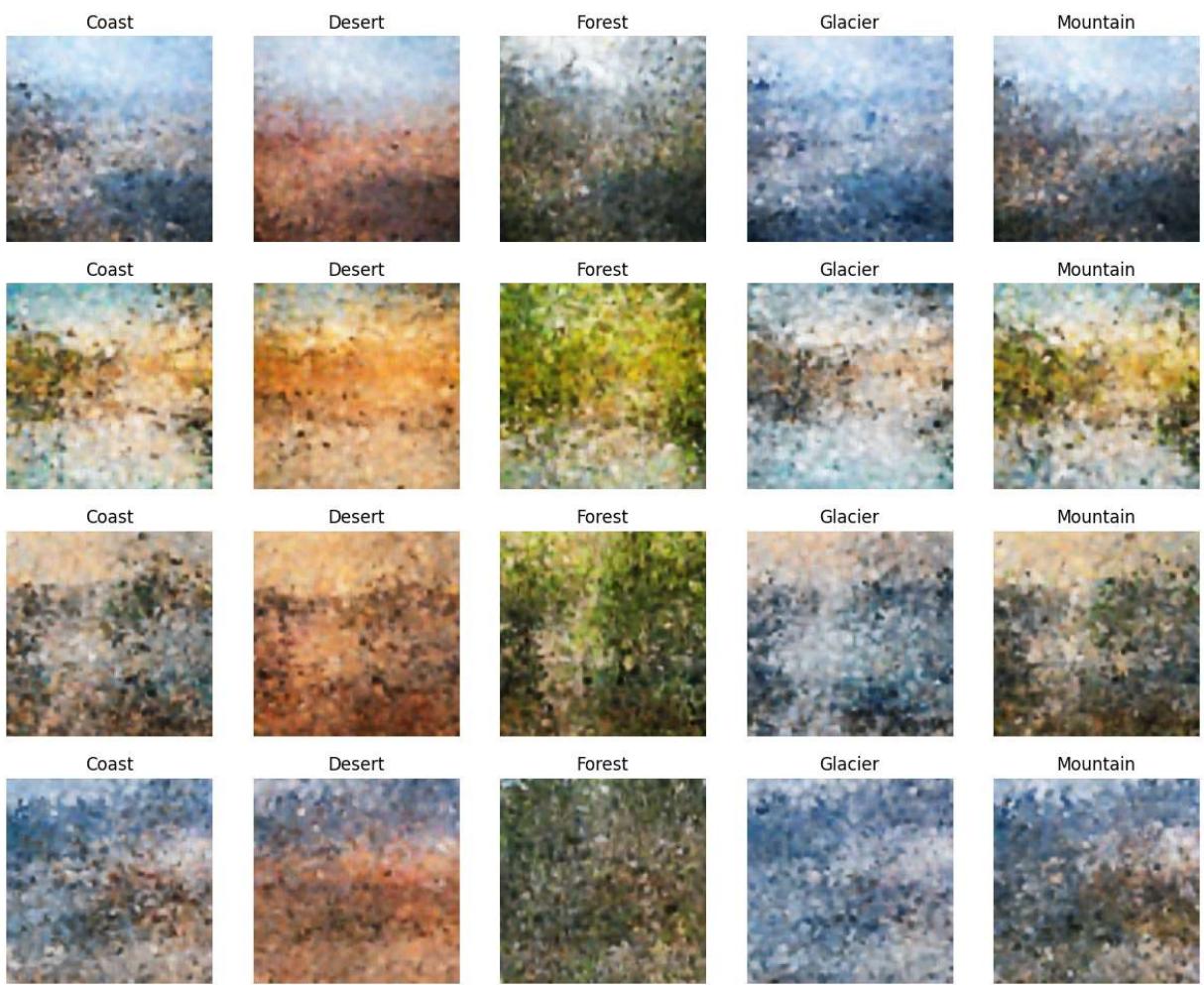
[2023-12-01 00:39:58.463715]: Generating random images for epoch 741 ...



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600/600 [=====] - 78s 129ms/step - loss: 91.0175 - reconstruction_error: 43.5332 - regularization_error: 47.4843 - val_loss: 257.7650 - val_reconstruction_error: 209.7521 - val_regularization_error: 48.0129
Epoch 742/1000
600/600 [=====] - 72s 120ms/step - loss: 90.8984 - reconstruction_error: 43.4882 - regularization_error: 47.4102 - val_loss: 257.7772 - val_reconstruction_error: 211.8513 - val_regularization_error: 45.9258
Epoch 743/1000
600/600 [=====] - 73s 121ms/step - loss: 90.7265 - reconstruction_error: 43.4120 - regularization_error: 47.3144 - val_loss: 255.0819 - val_reconstruction_error: 208.7577 - val_regularization_error: 46.3242
Epoch 744/1000
600/600 [=====] - 69s 114ms/step - loss: 91.0739 - reconstruction_error: 43.6218 - regularization_error: 47.4521 - val_loss: 255.3228 - val_reconstruction_error: 208.3813 - val_regularization_error: 46.9415
Epoch 745/1000
600/600 [=====] - 70s 116ms/step - loss: 91.1199 - reconstruction_error: 43.6271 - regularization_error: 47.4928 - val_loss: 256.1794 - val_reconstruction_error: 210.2058 - val_regularization_error: 45.9736
Epoch 746/1000
600/600 [=====] - 76s 127ms/step - loss: 90.8424 - reconstruction_error: 43.4641 - regularization_error: 47.3783 - val_loss: 258.2885 - val_reconstruction_error: 211.3228 - val_regularization_error: 46.9657
Epoch 747/1000
600/600 [=====] - 71s 119ms/step - loss: 90.8779 - reconstruction_error: 43.4838 - regularization_error: 47.3942 - val_loss: 254.5347 - val_reconstruction_error: 208.2203 - val_regularization_error: 46.3144
Epoch 748/1000
600/600 [=====] - 73s 121ms/step - loss: 90.7868 - reconstruction_error: 43.3742 - regularization_error: 47.4126 - val_loss: 255.7002 - val_reconstruction_error: 209.3517 - val_regularization_error: 46.3485
Epoch 749/1000
600/600 [=====] - 69s 115ms/step - loss: 90.7126 - reconstruction_error: 43.4551 - regularization_error: 47.2575 - val_loss: 256.7103 - val_reconstruction_error: 210.7361 - val_regularization_error: 45.9742
Epoch 750/1000
600/600 [=====] - 70s 116ms/step - loss: 90.7537 - reconstruction_error: 43.3434 - regularization_error: 47.4103 - val_loss: 253.0158 - val_reconstruction_error: 206.9685 - val_regularization_error: 46.0472
Epoch 751/1000
600/600 [=====] - ETA: 0s - loss: 90.8683 - reconstruction_error: 43.4693 - regularization_error: 47.3989
[2023-12-01 00:52:04.865483]: Generating fixed images for epoch 751 ...
```



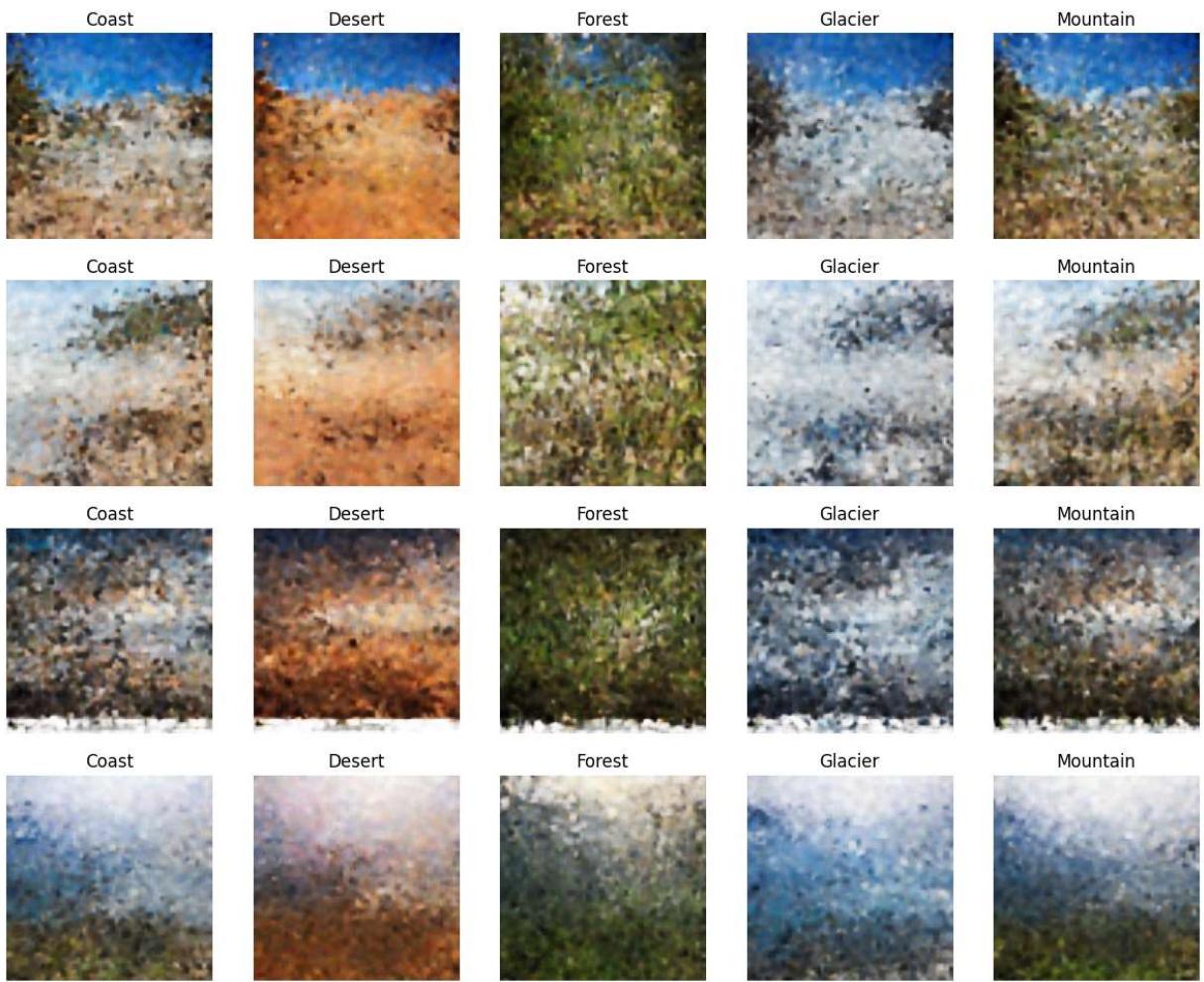
```
[2023-12-01 00:52:06.264596]: Generating random images for epoch 751 ...
```



600/600 [=====] - 82s 136ms/step - loss: 90.8683 - reconstruction_error: 43.4693 - regularization_error: 47.3989 - val_loss: 254.8058 - val_reconstruction_error: 208.6692 - val_regularization_error: 46.1366
Epoch 752/1000
600/600 [=====] - 73s 121ms/step - loss: 90.7036 - reconstruction_error: 43.3741 - regularization_error: 47.3296 - val_loss: 257.3583 - val_reconstruction_error: 209.6768 - val_regularization_error: 47.6815
Epoch 753/1000
600/600 [=====] - 75s 124ms/step - loss: 90.6488 - reconstruction_error: 43.3823 - regularization_error: 47.2666 - val_loss: 257.0154 - val_reconstruction_error: 211.2247 - val_regularization_error: 45.7908
Epoch 754/1000
600/600 [=====] - 71s 117ms/step - loss: 90.7897 - reconstruction_error: 43.4370 - regularization_error: 47.3527 - val_loss: 255.6475 - val_reconstruction_error: 208.7092 - val_regularization_error: 46.9384
Epoch 755/1000
600/600 [=====] - 72s 119ms/step - loss: 90.7814 - reconstruction_error: 43.3568 - regularization_error: 47.4246 - val_loss: 260.0692 - val_reconstruction_error: 213.4795 - val_regularization_error: 46.5896
Epoch 756/1000
600/600 [=====] - 70s 117ms/step - loss: 90.6288 - reconstruction_error: 43.2718 - regularization_error: 47.3571 - val_loss: 260.0453 - val_reconstruction_error: 213.9042 - val_regularization_error: 46.1411
Epoch 757/1000
600/600 [=====] - 74s 123ms/step - loss: 90.7968 - reconstruction_error: 43.4175 - regularization_error: 47.3793 - val_loss: 256.3980 - val_reconstruction_error: 210.6625 - val_regularization_error: 45.7355
Epoch 758/1000
600/600 [=====] - 73s 122ms/step - loss: 90.5503 - reconstruction_error: 43.2810 - regularization_error: 47.2692 - val_loss: 255.0002 - val_reconstruction_error: 209.1279 - val_regularization_error: 45.8723
Epoch 759/1000
600/600 [=====] - 78s 130ms/step - loss: 90.7212 - reconstruction_error: 43.3716 - regularization_error: 47.3496 - val_loss: 256.6300 - val_reconstruction_error: 210.8204 - val_regularization_error: 45.8095
Epoch 760/1000
600/600 [=====] - 69s 115ms/step - loss: 90.7105 - reconstruction_error: 43.2980 - regularization_error: 47.4125 - val_loss: 257.5546 - val_reconstruction_error: 212.1028 - val_regularization_error: 45.4519
Epoch 761/1000
600/600 [=====] - ETA: 0s - loss: 90.4817 - reconstruction_error: 43.3527 - regularization_error: 47.1290
[2023-12-01 01:04:17.226092]: Generating fixed images for epoch 761 ...



[2023-12-01 01:04:18.884928]: Generating random images for epoch 761 ...



600/600 [=====] - 76s 126ms/step - loss: 90.4817 - reconstruction_error: 43.3527 - regularization_error: 47.1290 - val_loss: 259.7489 - val_reconstruction_error: 213.3778 - val_regularization_error: 46.3712
Epoch 762/1000
600/600 [=====] - 75s 126ms/step - loss: 90.5368 - reconstruction_error: 43.3082 - regularization_error: 47.2286 - val_loss: 255.9946 - val_reconstruction_error: 209.3417 - val_regularization_error: 46.6529
Epoch 763/1000
600/600 [=====] - 71s 118ms/step - loss: 90.4501 - reconstruction_error: 43.1906 - regularization_error: 47.2597 - val_loss: 255.6104 - val_reconstruction_error: 207.6509 - val_regularization_error: 47.9595
Epoch 764/1000
600/600 [=====] - 75s 124ms/step - loss: 90.6466 - reconstruction_error: 43.3441 - regularization_error: 47.3025 - val_loss: 254.5728 - val_reconstruction_error: 209.3843 - val_regularization_error: 45.1885
Epoch 765/1000
600/600 [=====] - 78s 130ms/step - loss: 90.3921 - reconstruction_error: 43.1659 - regularization_error: 47.2262 - val_loss: 256.8359 - val_reconstruction_error: 210.8848 - val_regularization_error: 45.9511
Epoch 766/1000
600/600 [=====] - 72s 120ms/step - loss: 90.5285 - reconstruction_error: 43.2625 - regularization_error: 47.2660 - val_loss: 257.2827 - val_reconstruction_error: 210.2157 - val_regularization_error: 47.0670
Epoch 767/1000
600/600 [=====] - 81s 135ms/step - loss: 90.6979 - reconstruction_error: 43.3946 - regularization_error: 47.3032 - val_loss: 253.2703 - val_reconstruction_error: 208.5675 - val_regularization_error: 44.7028
Epoch 768/1000
600/600 [=====] - 77s 129ms/step - loss: 90.3868 - reconstruction_error: 43.1530 - regularization_error: 47.2338 - val_loss: 259.4717 - val_reconstruction_error: 213.9780 - val_regularization_error: 45.4936
Epoch 769/1000
600/600 [=====] - 70s 116ms/step - loss: 90.8189 - reconstruction_error: 43.4224 - regularization_error: 47.3966 - val_loss: 255.6328 - val_reconstruction_error: 208.6075 - val_regularization_error: 47.0253
Epoch 770/1000
600/600 [=====] - 72s 119ms/step - loss: 90.5685 - reconstruction_error: 43.2139 - regularization_error: 47.3546 - val_loss: 255.4659 - val_reconstruction_error: 208.3973 - val_regularization_error: 47.0687
Epoch 771/1000
600/600 [=====] - ETA: 0s - loss: 90.4420 - reconstruction_error: 43.2283 - regularization_error: 47.2137
[2023-12-01 01:16:50.418725]: Generating fixed images for epoch 771 ...



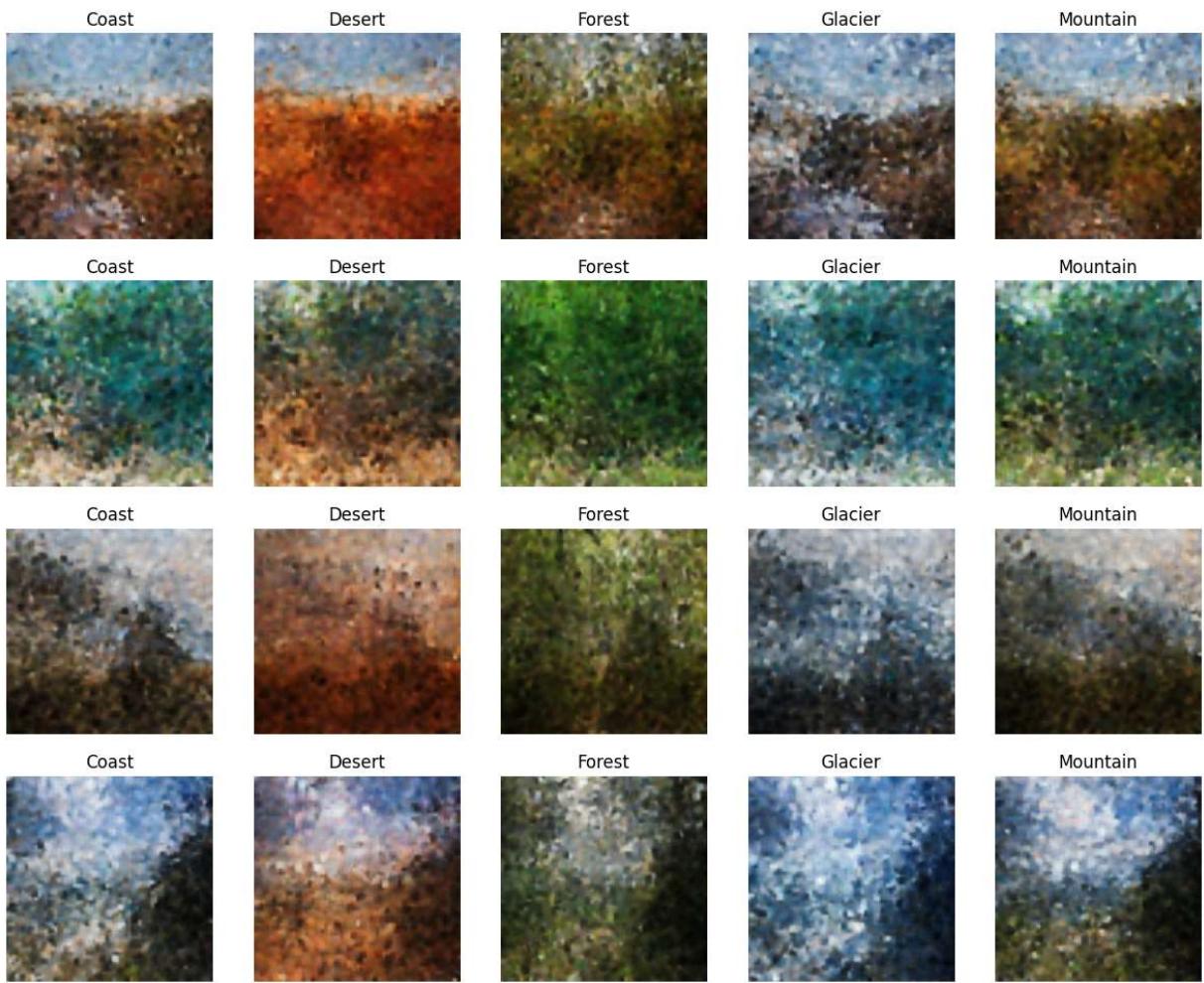
[2023-12-01 01:16:51.392044]: Generating random images for epoch 771 ...



600/600 [=====] - 81s 134ms/step - loss: 90.4420 - reconstruction_error: 43.2283 - regularization_error: 47.2137 - val_loss: 258.4420 - val_reconstruction_error: 212.9726 - val_regularization_error: 45.4693
Epoch 772/1000
600/600 [=====] - 70s 116ms/step - loss: 90.5003 - reconstruction_error: 43.2077 - regularization_error: 47.2926 - val_loss: 259.2506 - val_reconstruction_error: 211.2201 - val_regularization_error: 48.0304
Epoch 773/1000
600/600 [=====] - 76s 126ms/step - loss: 90.5241 - reconstruction_error: 43.2048 - regularization_error: 47.3193 - val_loss: 258.7809 - val_reconstruction_error: 213.1072 - val_regularization_error: 45.6737
Epoch 774/1000
600/600 [=====] - 78s 130ms/step - loss: 90.6384 - reconstruction_error: 43.2456 - regularization_error: 47.3927 - val_loss: 260.1432 - val_reconstruction_error: 212.5553 - val_regularization_error: 47.5878
Epoch 775/1000
600/600 [=====] - 64s 107ms/step - loss: 90.4937 - reconstruction_error: 43.1066 - regularization_error: 47.3872 - val_loss: 253.1102 - val_reconstruction_error: 207.3669 - val_regularization_error: 45.7433
Epoch 776/1000
600/600 [=====] - 82s 136ms/step - loss: 90.3882 - reconstruction_error: 43.1715 - regularization_error: 47.2167 - val_loss: 257.0938 - val_reconstruction_error: 211.0898 - val_regularization_error: 46.0041
Epoch 777/1000
600/600 [=====] - 72s 120ms/step - loss: 90.7761 - reconstruction_error: 43.3520 - regularization_error: 47.4240 - val_loss: 254.7918 - val_reconstruction_error: 208.3644 - val_regularization_error: 46.4275
Epoch 778/1000
600/600 [=====] - 72s 120ms/step - loss: 90.2919 - reconstruction_error: 43.0575 - regularization_error: 47.2345 - val_loss: 257.9223 - val_reconstruction_error: 211.4395 - val_regularization_error: 46.4829
Epoch 779/1000
600/600 [=====] - 69s 115ms/step - loss: 90.4325 - reconstruction_error: 43.1842 - regularization_error: 47.2484 - val_loss: 258.5993 - val_reconstruction_error: 210.9249 - val_regularization_error: 47.6743
Epoch 780/1000
600/600 [=====] - 78s 130ms/step - loss: 90.4232 - reconstruction_error: 43.1226 - regularization_error: 47.3006 - val_loss: 256.4150 - val_reconstruction_error: 210.5428 - val_regularization_error: 45.8723
Epoch 781/1000
600/600 [=====] - ETA: 0s - loss: 90.3410 - reconstruction_error: 43.1663 - regularization_error: 47.1747
[2023-12-01 01:29:13.675637]: Generating fixed images for epoch 781 ...



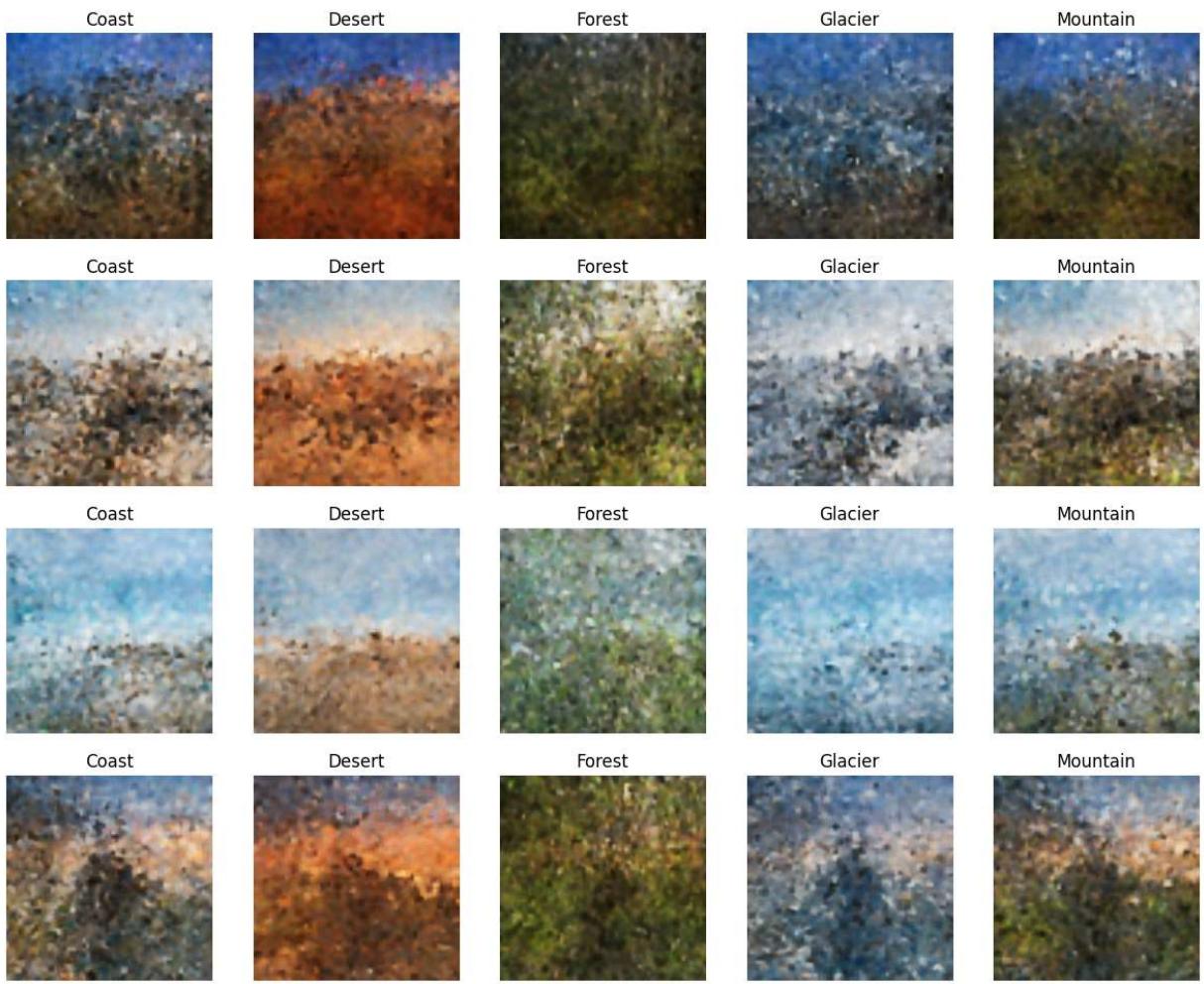
[2023-12-01 01:29:14.461867]: Generating random images for epoch 781 ...



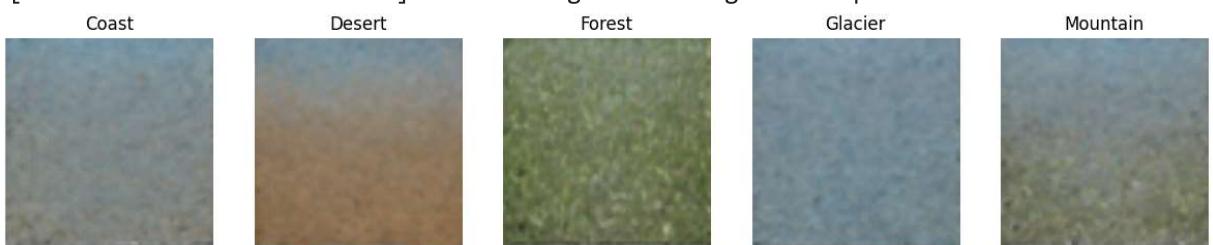
600/600 [=====] - 79s 131ms/step - loss: 90.3410 - reconstruction_error: 43.1663 - regularization_error: 47.1747 - val_loss: 256.4319 - val_reconstruction_error: 210.8397 - val_regularization_error: 45.5923
Epoch 782/1000
600/600 [=====] - 70s 116ms/step - loss: 90.4126 - reconstruction_error: 43.1500 - regularization_error: 47.2626 - val_loss: 256.6136 - val_reconstruction_error: 210.2522 - val_regularization_error: 46.3614
Epoch 783/1000
600/600 [=====] - 68s 113ms/step - loss: 90.5093 - reconstruction_error: 43.1926 - regularization_error: 47.3166 - val_loss: 259.1084 - val_reconstruction_error: 213.1431 - val_regularization_error: 45.9653
Epoch 784/1000
600/600 [=====] - 78s 130ms/step - loss: 90.2905 - reconstruction_error: 43.1179 - regularization_error: 47.1725 - val_loss: 257.3159 - val_reconstruction_error: 211.3323 - val_regularization_error: 45.9837
Epoch 785/1000
600/600 [=====] - 74s 124ms/step - loss: 90.2928 - reconstruction_error: 43.1080 - regularization_error: 47.1848 - val_loss: 259.9652 - val_reconstruction_error: 213.2737 - val_regularization_error: 46.6916
Epoch 786/1000
600/600 [=====] - 74s 124ms/step - loss: 90.3554 - reconstruction_error: 43.1531 - regularization_error: 47.2022 - val_loss: 255.5600 - val_reconstruction_error: 208.9455 - val_regularization_error: 46.6145
Epoch 787/1000
600/600 [=====] - 69s 115ms/step - loss: 90.5340 - reconstruction_error: 43.2095 - regularization_error: 47.3245 - val_loss: 261.7785 - val_reconstruction_error: 215.2259 - val_regularization_error: 46.5526
Epoch 788/1000
600/600 [=====] - 75s 124ms/step - loss: 90.2756 - reconstruction_error: 43.0691 - regularization_error: 47.2064 - val_loss: 257.5022 - val_reconstruction_error: 211.5577 - val_regularization_error: 45.9444
Epoch 789/1000
600/600 [=====] - 64s 106ms/step - loss: 90.5278 - reconstruction_error: 43.1661 - regularization_error: 47.3617 - val_loss: 257.8561 - val_reconstruction_error: 211.1652 - val_regularization_error: 46.6910
Epoch 790/1000
600/600 [=====] - 72s 120ms/step - loss: 90.2272 - reconstruction_error: 43.0076 - regularization_error: 47.2195 - val_loss: 256.0091 - val_reconstruction_error: 210.8965 - val_regularization_error: 45.1126
Epoch 791/1000
600/600 [=====] - ETA: 0s - loss: 90.4485 - reconstruction_error: 43.2642 - regularization_error: 47.1843
[2023-12-01 01:41:18.527194]: Generating fixed images for epoch 791 ...



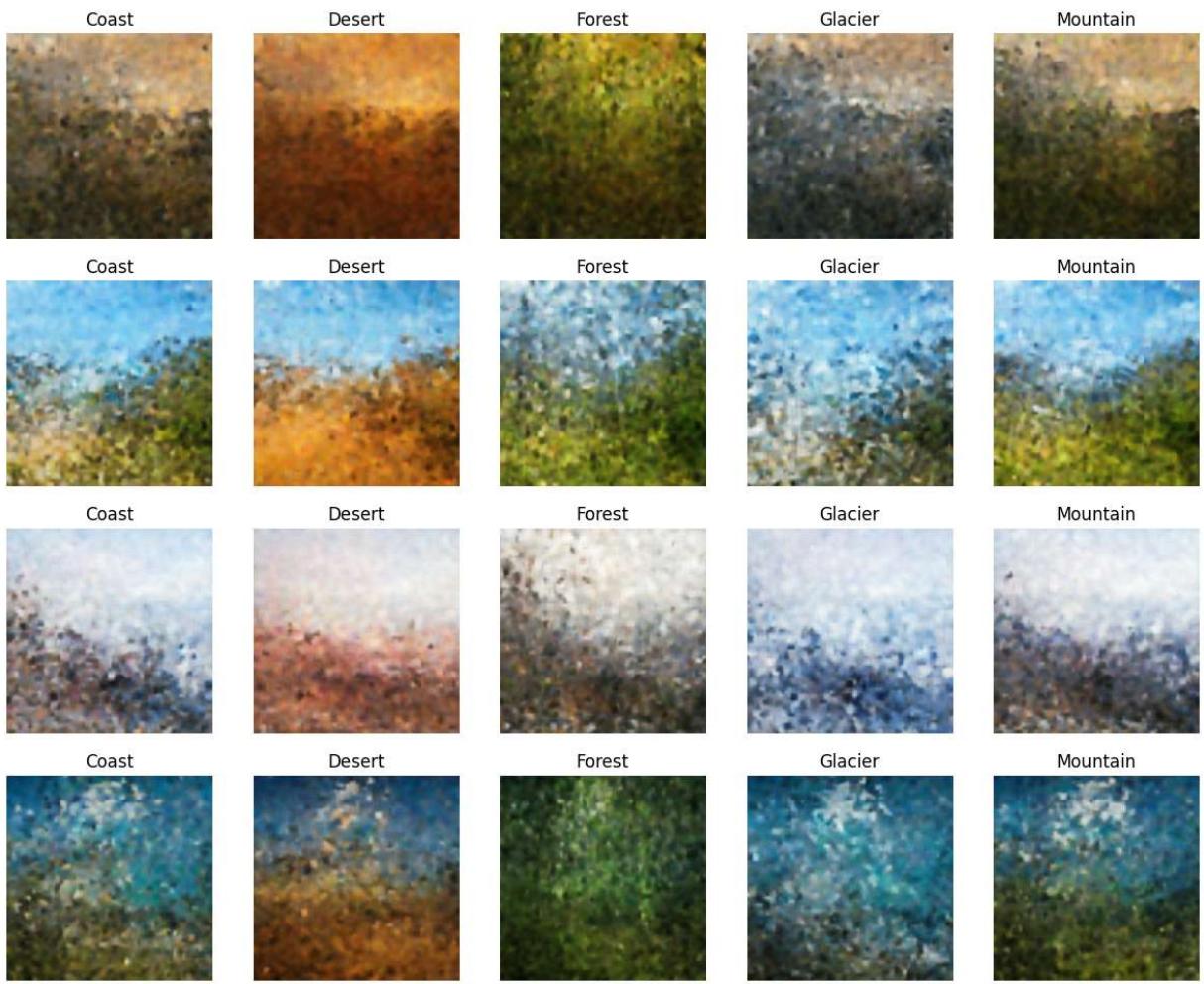
[2023-12-01 01:41:19.550091]: Generating random images for epoch 791 ...



600/600 [=====] - 78s 129ms/step - loss: 90.4485 - reconstruction_error: 43.2642 - regularization_error: 47.1843 - val_loss: 257.3304 - val_reconstruction_error: 211.4774 - val_regularization_error: 45.8529
Epoch 792/1000
600/600 [=====] - 76s 127ms/step - loss: 90.2949 - reconstruction_error: 43.0148 - regularization_error: 47.2801 - val_loss: 256.8384 - val_reconstruction_error: 209.8328 - val_regularization_error: 47.0056
Epoch 793/1000
600/600 [=====] - 74s 124ms/step - loss: 90.1953 - reconstruction_error: 43.0506 - regularization_error: 47.1447 - val_loss: 259.8463 - val_reconstruction_error: 213.0413 - val_regularization_error: 46.8050
Epoch 794/1000
600/600 [=====] - 74s 123ms/step - loss: 90.3108 - reconstruction_error: 43.0352 - regularization_error: 47.2755 - val_loss: 255.5718 - val_reconstruction_error: 210.5623 - val_regularization_error: 45.0094
Epoch 795/1000
600/600 [=====] - 70s 115ms/step - loss: 90.1858 - reconstruction_error: 43.0341 - regularization_error: 47.1517 - val_loss: 257.5104 - val_reconstruction_error: 212.4330 - val_regularization_error: 45.0774
Epoch 796/1000
600/600 [=====] - 69s 115ms/step - loss: 90.1928 - reconstruction_error: 43.0446 - regularization_error: 47.1482 - val_loss: 259.1304 - val_reconstruction_error: 213.1596 - val_regularization_error: 45.9708
Epoch 797/1000
600/600 [=====] - 72s 120ms/step - loss: 90.1987 - reconstruction_error: 43.0575 - regularization_error: 47.1412 - val_loss: 256.1366 - val_reconstruction_error: 211.0315 - val_regularization_error: 45.1052
Epoch 798/1000
600/600 [=====] - 79s 132ms/step - loss: 90.4428 - reconstruction_error: 43.1451 - regularization_error: 47.2976 - val_loss: 257.6578 - val_reconstruction_error: 211.5695 - val_regularization_error: 46.0883
Epoch 799/1000
600/600 [=====] - 75s 125ms/step - loss: 90.3091 - reconstruction_error: 43.0645 - regularization_error: 47.2446 - val_loss: 258.5570 - val_reconstruction_error: 211.0571 - val_regularization_error: 47.4998
Epoch 800/1000
600/600 [=====] - 67s 111ms/step - loss: 90.1187 - reconstruction_error: 42.9359 - regularization_error: 47.1828 - val_loss: 256.7163 - val_reconstruction_error: 210.8954 - val_regularization_error: 45.8209
Epoch 801/1000
600/600 [=====] - ETA: 0s - loss: 90.2453 - reconstruction_error: 43.0532 - regularization_error: 47.1921
[2023-12-01 01:53:44.468250]: Generating fixed images for epoch 801 ...



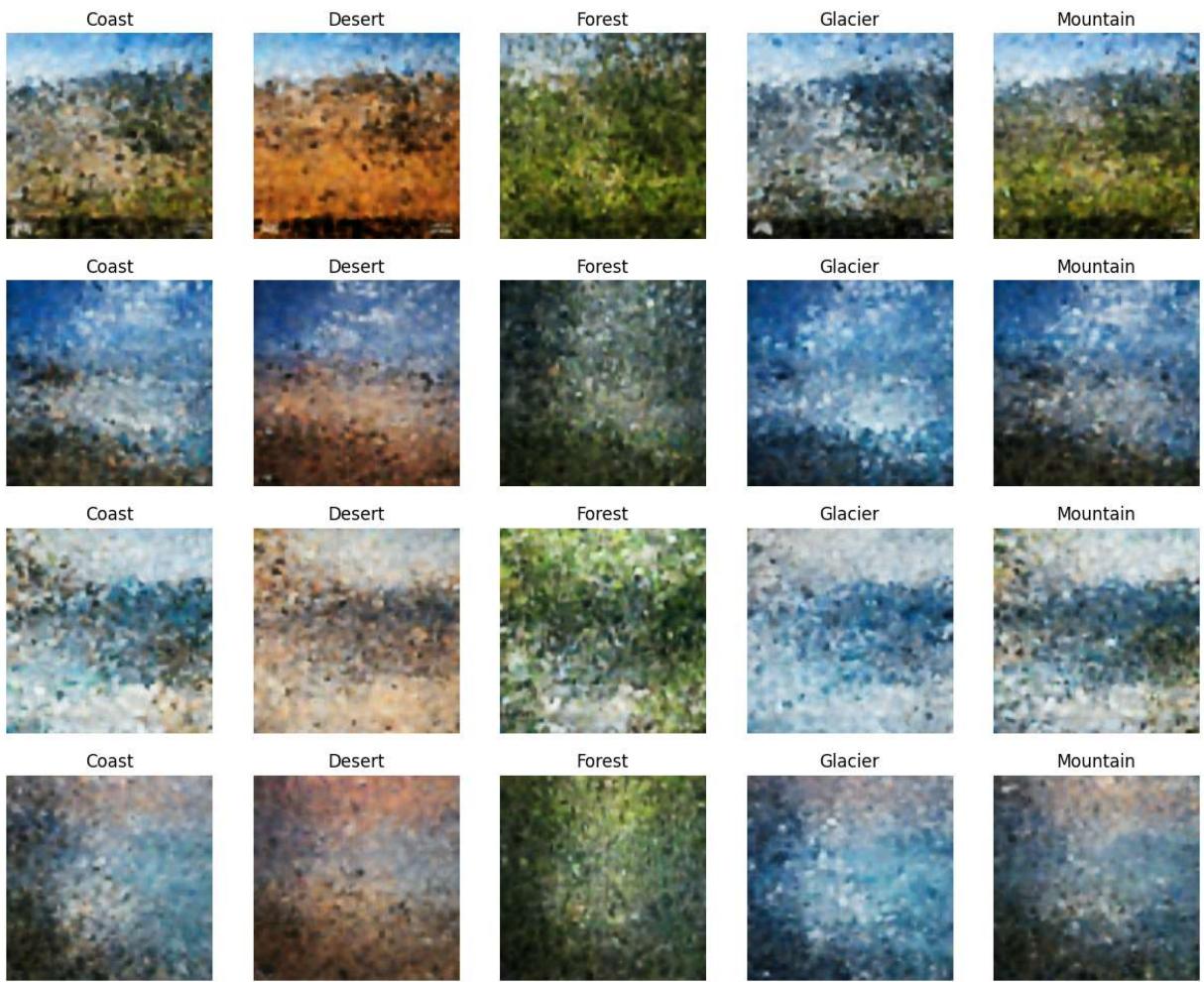
[2023-12-01 01:53:45.442641]: Generating random images for epoch 801 ...



600/600 [=====] - 79s 131ms/step - loss: 90.2453 - reconstruction_error: 43.0532 - regularization_error: 47.1921 - val_loss: 256.9770 - val_reconstruction_error: 211.4893 - val_regularization_error: 45.4876
Epoch 802/1000
600/600 [=====] - 75s 126ms/step - loss: 90.1774 - reconstruction_error: 43.0016 - regularization_error: 47.1759 - val_loss: 256.4485 - val_reconstruction_error: 209.9363 - val_regularization_error: 46.5122
Epoch 803/1000
600/600 [=====] - 81s 135ms/step - loss: 90.2991 - reconstruction_error: 43.0308 - regularization_error: 47.2683 - val_loss: 256.9905 - val_reconstruction_error: 210.3717 - val_regularization_error: 46.6188
Epoch 804/1000
600/600 [=====] - 72s 120ms/step - loss: 90.1256 - reconstruction_error: 42.9403 - regularization_error: 47.1853 - val_loss: 254.5537 - val_reconstruction_error: 208.4466 - val_regularization_error: 46.1070
Epoch 805/1000
600/600 [=====] - 72s 119ms/step - loss: 90.1601 - reconstruction_error: 43.0419 - regularization_error: 47.1182 - val_loss: 257.1236 - val_reconstruction_error: 212.1711 - val_regularization_error: 44.9527
Epoch 806/1000
600/600 [=====] - 70s 116ms/step - loss: 90.1563 - reconstruction_error: 42.9752 - regularization_error: 47.1811 - val_loss: 257.0963 - val_reconstruction_error: 210.6445 - val_regularization_error: 46.4518
Epoch 807/1000
600/600 [=====] - 65s 108ms/step - loss: 90.0396 - reconstruction_error: 42.8922 - regularization_error: 47.1475 - val_loss: 257.7729 - val_reconstruction_error: 211.4357 - val_regularization_error: 46.3372
Epoch 808/1000
600/600 [=====] - 75s 125ms/step - loss: 90.1414 - reconstruction_error: 42.9519 - regularization_error: 47.1895 - val_loss: 257.0859 - val_reconstruction_error: 210.0805 - val_regularization_error: 47.0054
Epoch 809/1000
600/600 [=====] - 80s 133ms/step - loss: 90.1744 - reconstruction_error: 42.9970 - regularization_error: 47.1774 - val_loss: 258.9021 - val_reconstruction_error: 212.8956 - val_regularization_error: 46.0065
Epoch 810/1000
600/600 [=====] - 72s 121ms/step - loss: 90.1149 - reconstruction_error: 42.9458 - regularization_error: 47.1691 - val_loss: 259.4880 - val_reconstruction_error: 213.6486 - val_regularization_error: 45.8394
Epoch 811/1000
600/600 [=====] - ETA: 0s - loss: 90.0332 - reconstruction_error: 42.9087 - regularization_error: 47.1246
[2023-12-01 02:06:00.456862]: Generating fixed images for epoch 811 ...



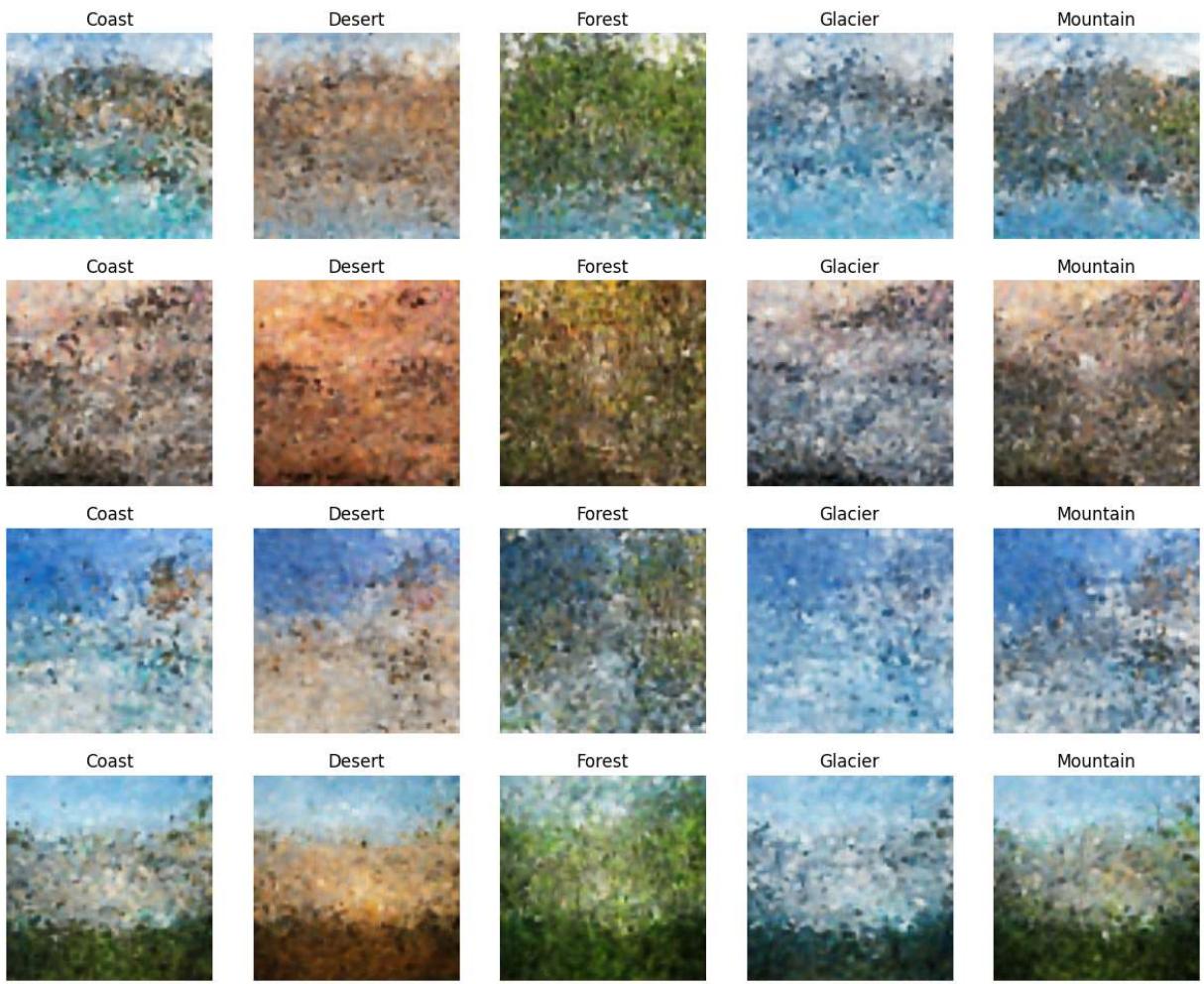
[2023-12-01 02:06:01.042414]: Generating random images for epoch 811 ...



```
600/600 [=====] - 71s 118ms/step - loss: 90.0332 - reconstruction_error: 42.9087 - regularization_error: 47.1246 - val_loss: 257.1122 - val_reconstruction_error: 211.0589 - val_regularization_error: 46.0533
Epoch 812/1000
600/600 [=====] - 80s 134ms/step - loss: 89.9790 - reconstruction_error: 42.9243 - regularization_error: 47.0547 - val_loss: 256.6312 - val_reconstruction_error: 211.1176 - val_regularization_error: 45.5136
Epoch 813/1000
600/600 [=====] - 73s 122ms/step - loss: 90.1122 - reconstruction_error: 42.9576 - regularization_error: 47.1547 - val_loss: 260.1151 - val_reconstruction_error: 212.4067 - val_regularization_error: 47.7084
Epoch 814/1000
600/600 [=====] - 69s 115ms/step - loss: 90.0121 - reconstruction_error: 42.9187 - regularization_error: 47.0933 - val_loss: 257.7756 - val_reconstruction_error: 211.5616 - val_regularization_error: 46.2139
Epoch 815/1000
600/600 [=====] - 73s 121ms/step - loss: 90.0577 - reconstruction_error: 42.9096 - regularization_error: 47.1481 - val_loss: 259.4362 - val_reconstruction_error: 212.6301 - val_regularization_error: 46.8061
Epoch 816/1000
600/600 [=====] - 70s 117ms/step - loss: 90.0444 - reconstruction_error: 42.9195 - regularization_error: 47.1250 - val_loss: 258.1402 - val_reconstruction_error: 211.6977 - val_regularization_error: 46.4425
Epoch 817/1000
600/600 [=====] - 71s 119ms/step - loss: 89.9485 - reconstruction_error: 42.8814 - regularization_error: 47.0672 - val_loss: 259.8168 - val_reconstruction_error: 213.9763 - val_regularization_error: 45.8405
Epoch 818/1000
600/600 [=====] - 72s 119ms/step - loss: 90.2685 - reconstruction_error: 43.0605 - regularization_error: 47.2080 - val_loss: 256.1526 - val_reconstruction_error: 210.4924 - val_regularization_error: 45.6602
Epoch 819/1000
600/600 [=====] - 74s 123ms/step - loss: 90.0864 - reconstruction_error: 42.9131 - regularization_error: 47.1734 - val_loss: 254.9050 - val_reconstruction_error: 209.0832 - val_regularization_error: 45.8218
Epoch 820/1000
600/600 [=====] - 78s 129ms/step - loss: 89.9067 - reconstruction_error: 42.8708 - regularization_error: 47.0359 - val_loss: 256.7163 - val_reconstruction_error: 211.7901 - val_regularization_error: 44.9262
Epoch 821/1000
600/600 [=====] - ETA: 0s - loss: 90.0683 - reconstruction_error: 42.9155 - regularization_error: 47.1528
[2023-12-01 02:18:15.440053]: Generating fixed images for epoch 821 ...
```



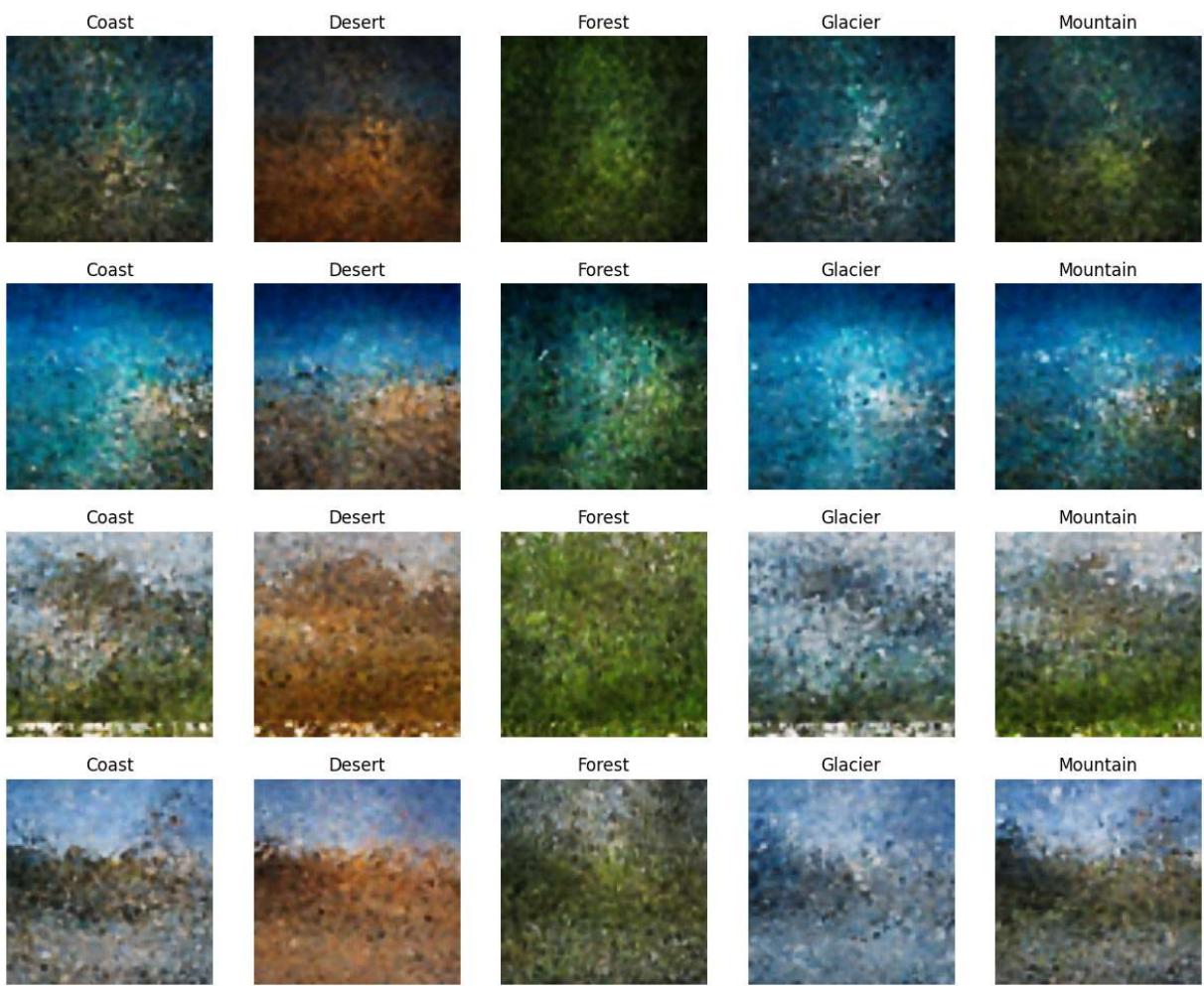
```
[2023-12-01 02:18:16.414456]: Generating random images for epoch 821 ...
```



600/600 [=====] - 71s 119ms/step - loss: 90.0683 - reconstruction_error: 42.9155 - regularization_error: 47.1528 - val_loss: 255.6072 - val_reconstruction_error: 208.9810 - val_regularization_error: 46.6262
Epoch 822/1000
600/600 [=====] - 75s 125ms/step - loss: 90.0012 - reconstruction_error: 42.8713 - regularization_error: 47.1298 - val_loss: 260.2169 - val_reconstruction_error: 213.9539 - val_regularization_error: 46.2631
Epoch 823/1000
600/600 [=====] - 75s 125ms/step - loss: 89.8967 - reconstruction_error: 42.8669 - regularization_error: 47.0298 - val_loss: 255.5901 - val_reconstruction_error: 209.8010 - val_regularization_error: 45.7890
Epoch 824/1000
600/600 [=====] - 69s 115ms/step - loss: 90.0001 - reconstruction_error: 42.8225 - regularization_error: 47.1776 - val_loss: 256.9044 - val_reconstruction_error: 211.0458 - val_regularization_error: 45.8586
Epoch 825/1000
600/600 [=====] - 73s 122ms/step - loss: 89.9280 - reconstruction_error: 42.7901 - regularization_error: 47.1378 - val_loss: 256.2528 - val_reconstruction_error: 210.3073 - val_regularization_error: 45.9456
Epoch 826/1000
600/600 [=====] - 76s 127ms/step - loss: 89.9617 - reconstruction_error: 42.8444 - regularization_error: 47.1173 - val_loss: 255.0657 - val_reconstruction_error: 208.4254 - val_regularization_error: 46.6403
Epoch 827/1000
600/600 [=====] - 76s 125ms/step - loss: 90.1514 - reconstruction_error: 42.9191 - regularization_error: 47.2323 - val_loss: 257.0967 - val_reconstruction_error: 211.4002 - val_regularization_error: 45.6966
Epoch 828/1000
600/600 [=====] - 73s 122ms/step - loss: 89.9046 - reconstruction_error: 42.7793 - regularization_error: 47.1253 - val_loss: 257.1495 - val_reconstruction_error: 211.7244 - val_regularization_error: 45.4251
Epoch 829/1000
600/600 [=====] - 82s 136ms/step - loss: 89.8311 - reconstruction_error: 42.7408 - regularization_error: 47.0902 - val_loss: 255.8399 - val_reconstruction_error: 210.1209 - val_regularization_error: 45.7189
Epoch 830/1000
600/600 [=====] - 69s 115ms/step - loss: 89.8542 - reconstruction_error: 42.8283 - regularization_error: 47.0260 - val_loss: 256.3975 - val_reconstruction_error: 210.5571 - val_regularization_error: 45.8403
Epoch 831/1000
600/600 [=====] - ETA: 0s - loss: 89.7561 - reconstruction_error: 42.6913 - regularization_error: 47.0648
[2023-12-01 02:30:34.543099]: Generating fixed images for epoch 831 ...



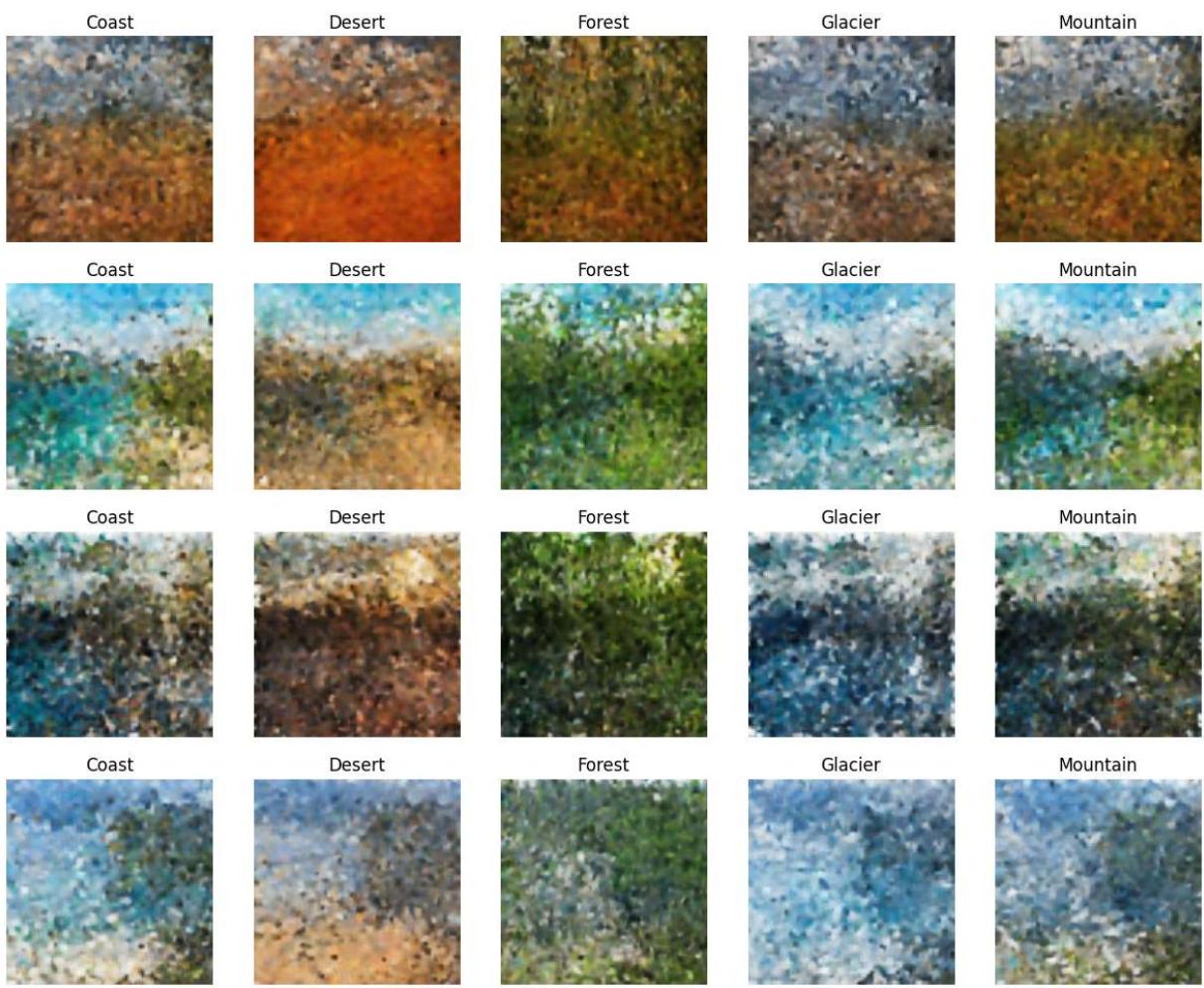
[2023-12-01 02:30:35.516173]: Generating random images for epoch 831 ...



600/600 [=====] - 69s 114ms/step - loss: 89.7561 - reconstruction_error: 42.6913 - regularization_error: 47.0648 - val_loss: 256.4366 - val_reconstruction_error: 210.7103 - val_regularization_error: 45.7263
Epoch 832/1000
600/600 [=====] - 76s 127ms/step - loss: 89.9374 - reconstruction_error: 42.8601 - regularization_error: 47.0773 - val_loss: 256.1402 - val_reconstruction_error: 210.4068 - val_regularization_error: 45.7334
Epoch 833/1000
600/600 [=====] - 71s 118ms/step - loss: 89.6822 - reconstruction_error: 42.7324 - regularization_error: 46.9498 - val_loss: 259.3529 - val_reconstruction_error: 214.4141 - val_regularization_error: 44.9388
Epoch 834/1000
600/600 [=====] - 76s 126ms/step - loss: 89.8496 - reconstruction_error: 42.8377 - regularization_error: 47.0119 - val_loss: 256.7087 - val_reconstruction_error: 210.4443 - val_regularization_error: 46.2644
Epoch 835/1000
600/600 [=====] - 71s 119ms/step - loss: 89.7227 - reconstruction_error: 42.7874 - regularization_error: 46.9353 - val_loss: 258.9514 - val_reconstruction_error: 213.2575 - val_regularization_error: 45.6939
Epoch 836/1000
600/600 [=====] - 72s 119ms/step - loss: 89.9408 - reconstruction_error: 42.8257 - regularization_error: 47.1152 - val_loss: 254.9322 - val_reconstruction_error: 208.2011 - val_regularization_error: 46.7311
Epoch 837/1000
600/600 [=====] - 73s 122ms/step - loss: 89.9022 - reconstruction_error: 42.8506 - regularization_error: 47.0516 - val_loss: 257.0422 - val_reconstruction_error: 211.4641 - val_regularization_error: 45.5782
Epoch 838/1000
600/600 [=====] - 81s 132ms/step - loss: 89.7954 - reconstruction_error: 42.7705 - regularization_error: 47.0250 - val_loss: 256.1026 - val_reconstruction_error: 210.3338 - val_regularization_error: 45.7689
Epoch 839/1000
600/600 [=====] - 73s 122ms/step - loss: 89.7571 - reconstruction_error: 42.7694 - regularization_error: 46.9877 - val_loss: 257.5414 - val_reconstruction_error: 211.9752 - val_regularization_error: 45.5662
Epoch 840/1000
600/600 [=====] - 66s 109ms/step - loss: 89.9005 - reconstruction_error: 42.8461 - regularization_error: 47.0545 - val_loss: 256.2276 - val_reconstruction_error: 209.7022 - val_regularization_error: 46.5254
Epoch 841/1000
600/600 [=====] - ETA: 0s - loss: 89.7186 - reconstruction_error: 42.6524 - regularization_error: 47.0661
[2023-12-01 02:42:55.363747]: Generating fixed images for epoch 841 ...



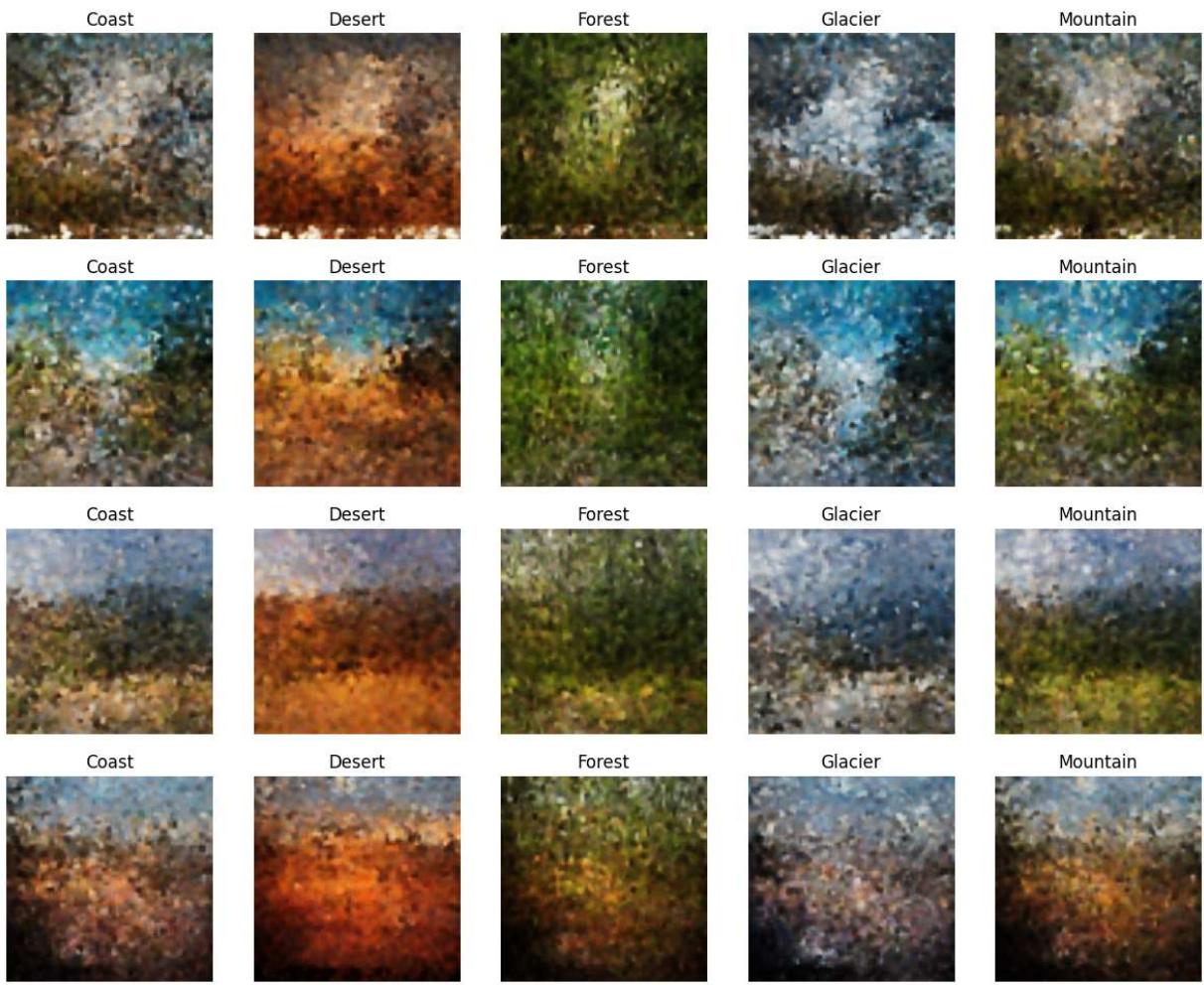
[2023-12-01 02:42:56.560959]: Generating random images for epoch 841 ...



```
600/600 [=====] - 80s 133ms/step - loss: 89.7186 - reconstruction_error: 42.6524 - regularization_error: 47.0661 - val_loss: 258.2671 - val_reconstruction_error: 212.0426 - val_regularization_error: 46.2244
Epoch 842/1000
600/600 [=====] - 72s 119ms/step - loss: 89.8504 - reconstruction_error: 42.8296 - regularization_error: 47.0209 - val_loss: 261.6459 - val_reconstruction_error: 214.4917 - val_regularization_error: 47.1542
Epoch 843/1000
600/600 [=====] - 74s 123ms/step - loss: 89.6894 - reconstruction_error: 42.5603 - regularization_error: 47.1292 - val_loss: 257.0573 - val_reconstruction_error: 211.7100 - val_regularization_error: 45.3474
Epoch 844/1000
600/600 [=====] - 68s 113ms/step - loss: 89.8593 - reconstruction_error: 42.7769 - regularization_error: 47.0824 - val_loss: 258.6286 - val_reconstruction_error: 212.2390 - val_regularization_error: 46.3896
Epoch 845/1000
600/600 [=====] - 74s 123ms/step - loss: 89.8150 - reconstruction_error: 42.8038 - regularization_error: 47.0112 - val_loss: 257.5942 - val_reconstruction_error: 210.8001 - val_regularization_error: 46.7942
Epoch 846/1000
600/600 [=====] - 73s 122ms/step - loss: 89.7298 - reconstruction_error: 42.7512 - regularization_error: 46.9786 - val_loss: 259.1888 - val_reconstruction_error: 214.7237 - val_regularization_error: 44.4652
Epoch 847/1000
600/600 [=====] - 73s 121ms/step - loss: 89.6202 - reconstruction_error: 42.6867 - regularization_error: 46.9335 - val_loss: 256.1433 - val_reconstruction_error: 210.3352 - val_regularization_error: 45.8080
Epoch 848/1000
600/600 [=====] - 80s 133ms/step - loss: 89.6378 - reconstruction_error: 42.5911 - regularization_error: 47.0467 - val_loss: 258.4195 - val_reconstruction_error: 213.3352 - val_regularization_error: 45.0842
Epoch 849/1000
600/600 [=====] - 74s 122ms/step - loss: 89.8560 - reconstruction_error: 42.8061 - regularization_error: 47.0500 - val_loss: 256.9794 - val_reconstruction_error: 211.2321 - val_regularization_error: 45.7473
Epoch 850/1000
600/600 [=====] - 75s 125ms/step - loss: 89.5811 - reconstruction_error: 42.5475 - regularization_error: 47.0336 - val_loss: 255.0557 - val_reconstruction_error: 209.5345 - val_regularization_error: 45.5212
Epoch 851/1000
600/600 [=====] - ETA: 0s - loss: 89.6182 - reconstruction_error: 42.6222 - regularization_error: 46.9959
[2023-12-01 02:55:19.947883]: Generating fixed images for epoch 851 ...
```



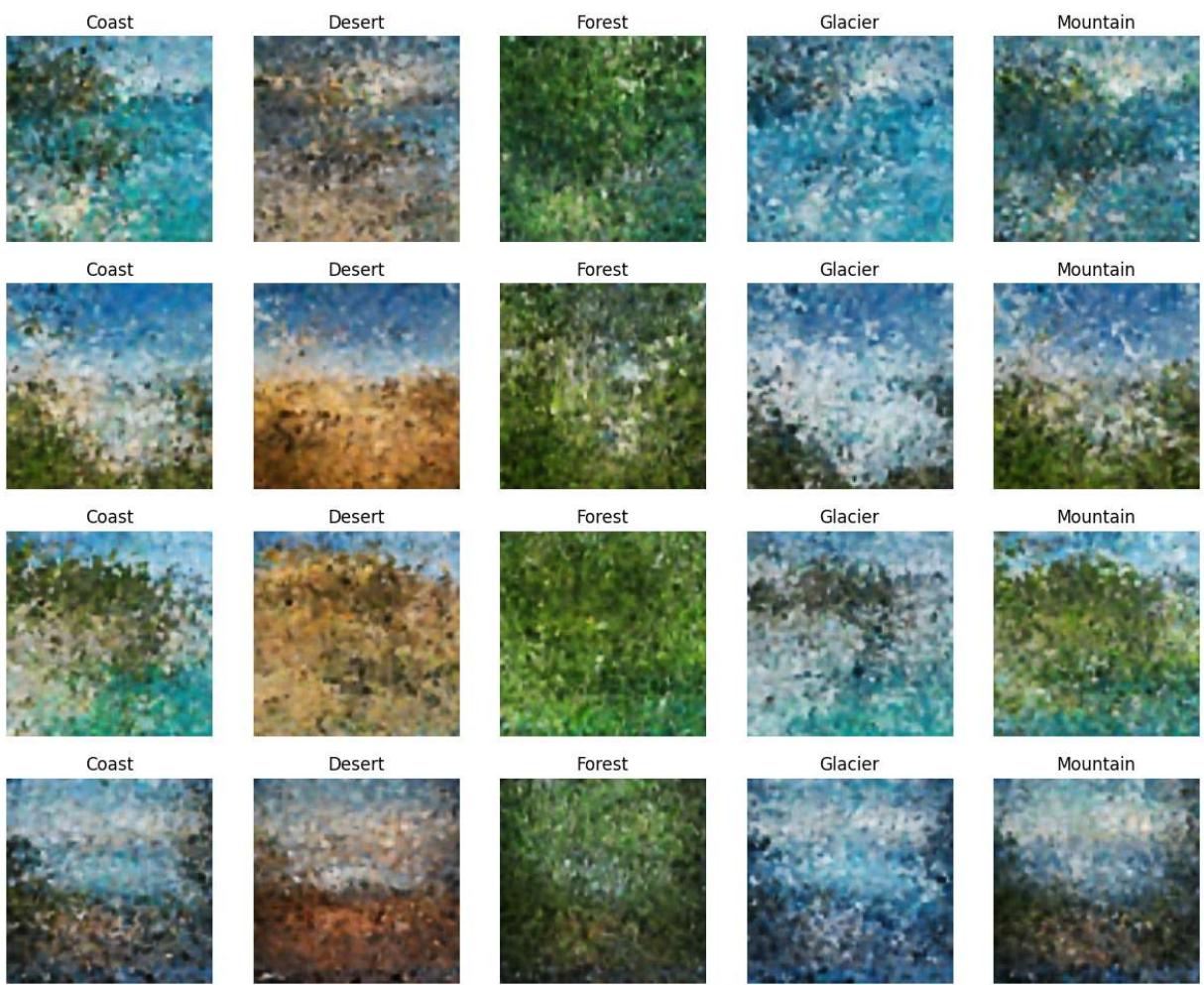
```
[2023-12-01 02:55:20.685793]: Generating random images for epoch 851 ...
```



```
600/600 [=====] - 81s 134ms/step - loss: 89.6182 - reconstruction_error: 42.6222 - regularization_error: 46.9959 - val_loss: 256.4200 - val_reconstruction_error: 211.0435 - val_regularization_error: 45.3764
Epoch 852/1000
600/600 [=====] - 77s 129ms/step - loss: 89.6376 - reconstruction_error: 42.6953 - regularization_error: 46.9423 - val_loss: 259.6305 - val_reconstruction_error: 213.3598 - val_regularization_error: 46.2707
Epoch 853/1000
600/600 [=====] - 67s 112ms/step - loss: 89.6103 - reconstruction_error: 42.7008 - regularization_error: 46.9095 - val_loss: 259.6977 - val_reconstruction_error: 215.4687 - val_regularization_error: 44.2289
Epoch 854/1000
600/600 [=====] - 74s 123ms/step - loss: 89.7922 - reconstruction_error: 42.7428 - regularization_error: 47.0495 - val_loss: 261.4820 - val_reconstruction_error: 215.1372 - val_regularization_error: 46.3448
Epoch 855/1000
600/600 [=====] - 74s 123ms/step - loss: 89.5821 - reconstruction_error: 42.6360 - regularization_error: 46.9462 - val_loss: 257.4543 - val_reconstruction_error: 211.9747 - val_regularization_error: 45.4796
Epoch 856/1000
600/600 [=====] - 74s 123ms/step - loss: 89.6744 - reconstruction_error: 42.6796 - regularization_error: 46.9948 - val_loss: 257.9514 - val_reconstruction_error: 211.5648 - val_regularization_error: 46.3866
Epoch 857/1000
600/600 [=====] - 74s 124ms/step - loss: 89.5565 - reconstruction_error: 42.5973 - regularization_error: 46.9592 - val_loss: 257.2355 - val_reconstruction_error: 211.4319 - val_regularization_error: 45.8037
Epoch 858/1000
600/600 [=====] - 67s 112ms/step - loss: 89.6401 - reconstruction_error: 42.6575 - regularization_error: 46.9825 - val_loss: 258.5247 - val_reconstruction_error: 212.8839 - val_regularization_error: 45.6409
Epoch 859/1000
600/600 [=====] - 74s 122ms/step - loss: 89.4527 - reconstruction_error: 42.5364 - regularization_error: 46.9163 - val_loss: 260.4654 - val_reconstruction_error: 215.4304 - val_regularization_error: 45.0350
Epoch 860/1000
600/600 [=====] - 74s 124ms/step - loss: 89.4851 - reconstruction_error: 42.5967 - regularization_error: 46.8885 - val_loss: 257.1633 - val_reconstruction_error: 210.7056 - val_regularization_error: 46.4577
Epoch 861/1000
600/600 [=====] - ETA: 0s - loss: 89.6749 - reconstruction_error: 42.7383 - regularization_error: 46.9366
[2023-12-01 03:07:35.437294]: Generating fixed images for epoch 861 ...
```



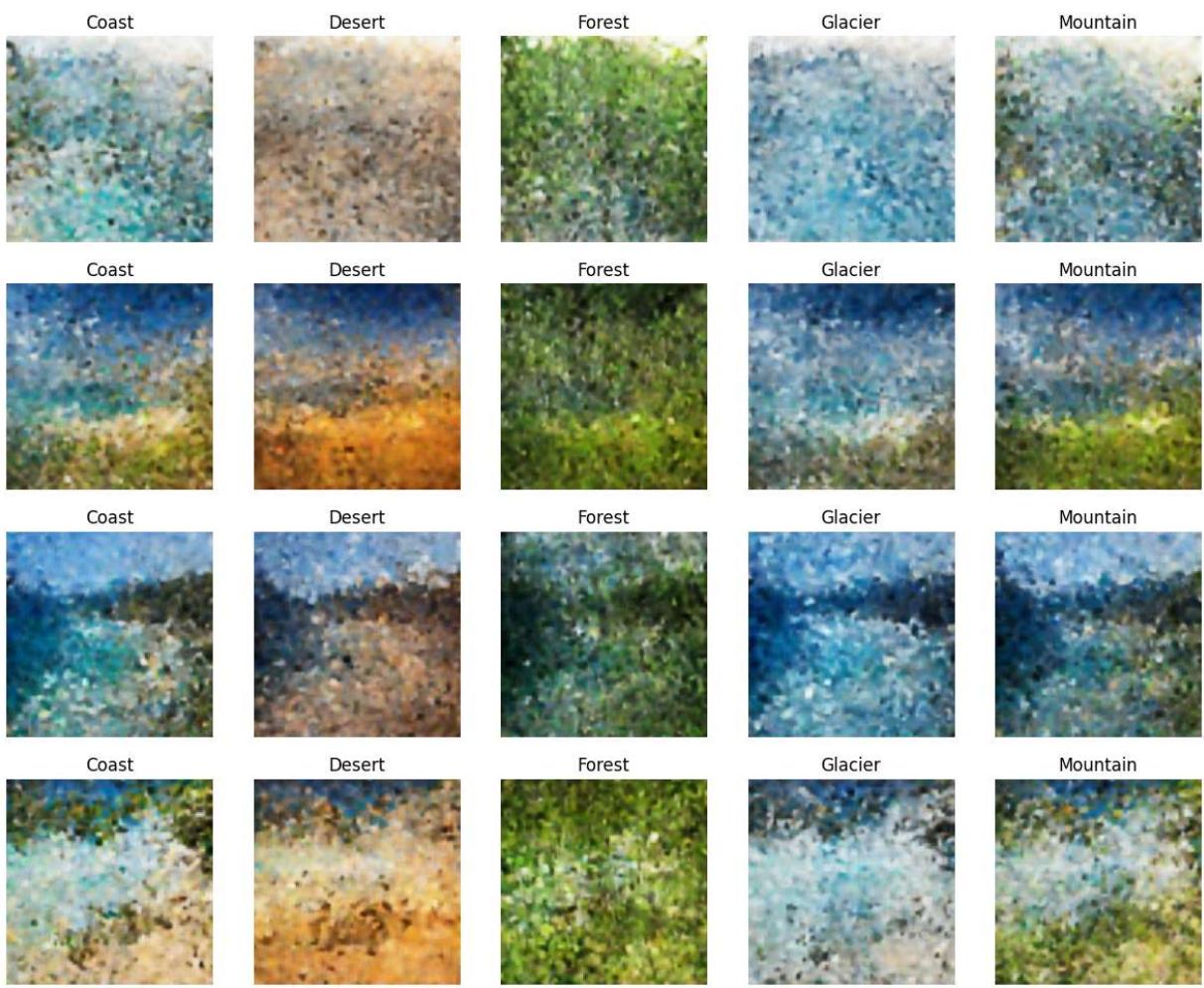
```
[2023-12-01 03:07:36.428292]: Generating random images for epoch 861 ...
```



600/600 [=====] - 78s 129ms/step - loss: 89.6749 - reconstruction_error: 42.7383 - regularization_error: 46.9366 - val_loss: 257.1867 - val_reconstruction_error: 212.3600 - val_regularization_error: 44.8267
Epoch 862/1000
600/600 [=====] - 70s 117ms/step - loss: 89.6593 - reconstruction_error: 42.6385 - regularization_error: 47.0209 - val_loss: 263.6885 - val_reconstruction_error: 217.7476 - val_regularization_error: 45.9408
Epoch 863/1000
600/600 [=====] - 72s 120ms/step - loss: 89.5417 - reconstruction_error: 42.5475 - regularization_error: 46.9942 - val_loss: 260.1148 - val_reconstruction_error: 212.2405 - val_regularization_error: 47.8743
Epoch 864/1000
600/600 [=====] - 78s 129ms/step - loss: 89.5682 - reconstruction_error: 42.5444 - regularization_error: 47.0238 - val_loss: 258.9607 - val_reconstruction_error: 213.2756 - val_regularization_error: 45.6851
Epoch 865/1000
600/600 [=====] - 70s 116ms/step - loss: 89.6307 - reconstruction_error: 42.6344 - regularization_error: 46.9964 - val_loss: 257.0587 - val_reconstruction_error: 211.2383 - val_regularization_error: 45.8204
Epoch 866/1000
600/600 [=====] - 72s 119ms/step - loss: 89.4225 - reconstruction_error: 42.5867 - regularization_error: 46.8358 - val_loss: 256.6387 - val_reconstruction_error: 211.5039 - val_regularization_error: 45.1348
Epoch 867/1000
600/600 [=====] - 78s 130ms/step - loss: 89.6457 - reconstruction_error: 42.5899 - regularization_error: 47.0558 - val_loss: 258.1655 - val_reconstruction_error: 212.8417 - val_regularization_error: 45.3238
Epoch 868/1000
600/600 [=====] - 73s 121ms/step - loss: 89.2823 - reconstruction_error: 42.4366 - regularization_error: 46.8457 - val_loss: 256.4042 - val_reconstruction_error: 211.3230 - val_regularization_error: 45.0812
Epoch 869/1000
600/600 [=====] - 71s 119ms/step - loss: 89.6614 - reconstruction_error: 42.6171 - regularization_error: 47.0444 - val_loss: 258.5064 - val_reconstruction_error: 213.6413 - val_regularization_error: 44.8651
Epoch 870/1000
600/600 [=====] - 82s 135ms/step - loss: 89.7724 - reconstruction_error: 42.6598 - regularization_error: 47.1126 - val_loss: 260.6154 - val_reconstruction_error: 215.4642 - val_regularization_error: 45.1512
Epoch 871/1000
600/600 [=====] - ETA: 0s - loss: 89.3712 - reconstruction_error: 42.4305 - regularization_error: 46.9407
[2023-12-01 03:19:58.601880]: Generating fixed images for epoch 871 ...



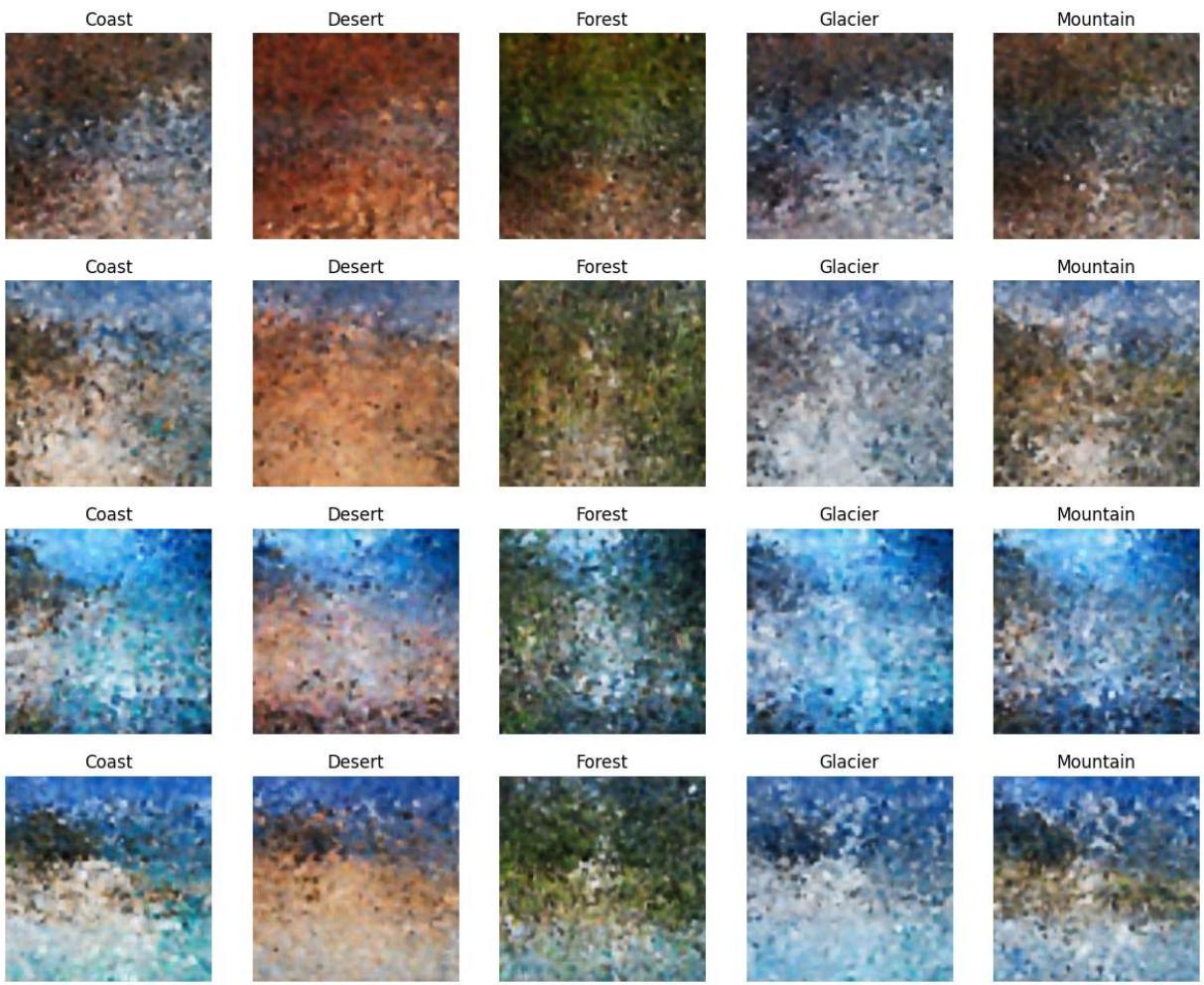
[2023-12-01 03:19:59.518900]: Generating random images for epoch 871 ...



600/600 [=====] - 74s 123ms/step - loss: 89.3712 - reconstruction_error: 42.4305 - regularization_error: 46.9407 - val_loss: 258.3076 - val_reconstruction_error: 213.1028 - val_regularization_error: 45.2048
Epoch 872/1000
600/600 [=====] - 74s 124ms/step - loss: 89.4326 - reconstruction_error: 42.5454 - regularization_error: 46.8873 - val_loss: 253.8773 - val_reconstruction_error: 208.0749 - val_regularization_error: 45.8023
Epoch 873/1000
600/600 [=====] - 65s 108ms/step - loss: 89.5892 - reconstruction_error: 42.6628 - regularization_error: 46.9263 - val_loss: 263.3849 - val_reconstruction_error: 217.3002 - val_regularization_error: 46.0848
Epoch 874/1000
600/600 [=====] - 70s 116ms/step - loss: 89.3984 - reconstruction_error: 42.4965 - regularization_error: 46.9019 - val_loss: 258.8436 - val_reconstruction_error: 214.6245 - val_regularization_error: 44.2191
Epoch 875/1000
600/600 [=====] - 78s 130ms/step - loss: 89.3815 - reconstruction_error: 42.4993 - regularization_error: 46.8823 - val_loss: 257.1700 - val_reconstruction_error: 210.1616 - val_regularization_error: 47.0084
Epoch 876/1000
600/600 [=====] - 74s 123ms/step - loss: 89.2639 - reconstruction_error: 42.3989 - regularization_error: 46.8649 - val_loss: 256.9508 - val_reconstruction_error: 210.7395 - val_regularization_error: 46.2113
Epoch 877/1000
600/600 [=====] - 74s 122ms/step - loss: 89.5963 - reconstruction_error: 42.5995 - regularization_error: 46.9968 - val_loss: 255.9602 - val_reconstruction_error: 210.3863 - val_regularization_error: 45.5738
Epoch 878/1000
600/600 [=====] - 72s 119ms/step - loss: 89.5231 - reconstruction_error: 42.5197 - regularization_error: 47.0034 - val_loss: 256.6936 - val_reconstruction_error: 211.0448 - val_regularization_error: 45.6488
Epoch 879/1000
600/600 [=====] - 64s 106ms/step - loss: 89.4311 - reconstruction_error: 42.5366 - regularization_error: 46.8946 - val_loss: 256.8480 - val_reconstruction_error: 211.3540 - val_regularization_error: 45.4939
Epoch 880/1000
600/600 [=====] - 73s 122ms/step - loss: 89.3656 - reconstruction_error: 42.4997 - regularization_error: 46.8659 - val_loss: 257.9016 - val_reconstruction_error: 212.3880 - val_regularization_error: 45.5135
Epoch 881/1000
600/600 [=====] - ETA: 0s - loss: 89.3967 - reconstruction_error: 42.4741 - regularization_error: 46.9225
[2023-12-01 03:32:02.741829]: Generating fixed images for epoch 881 ...



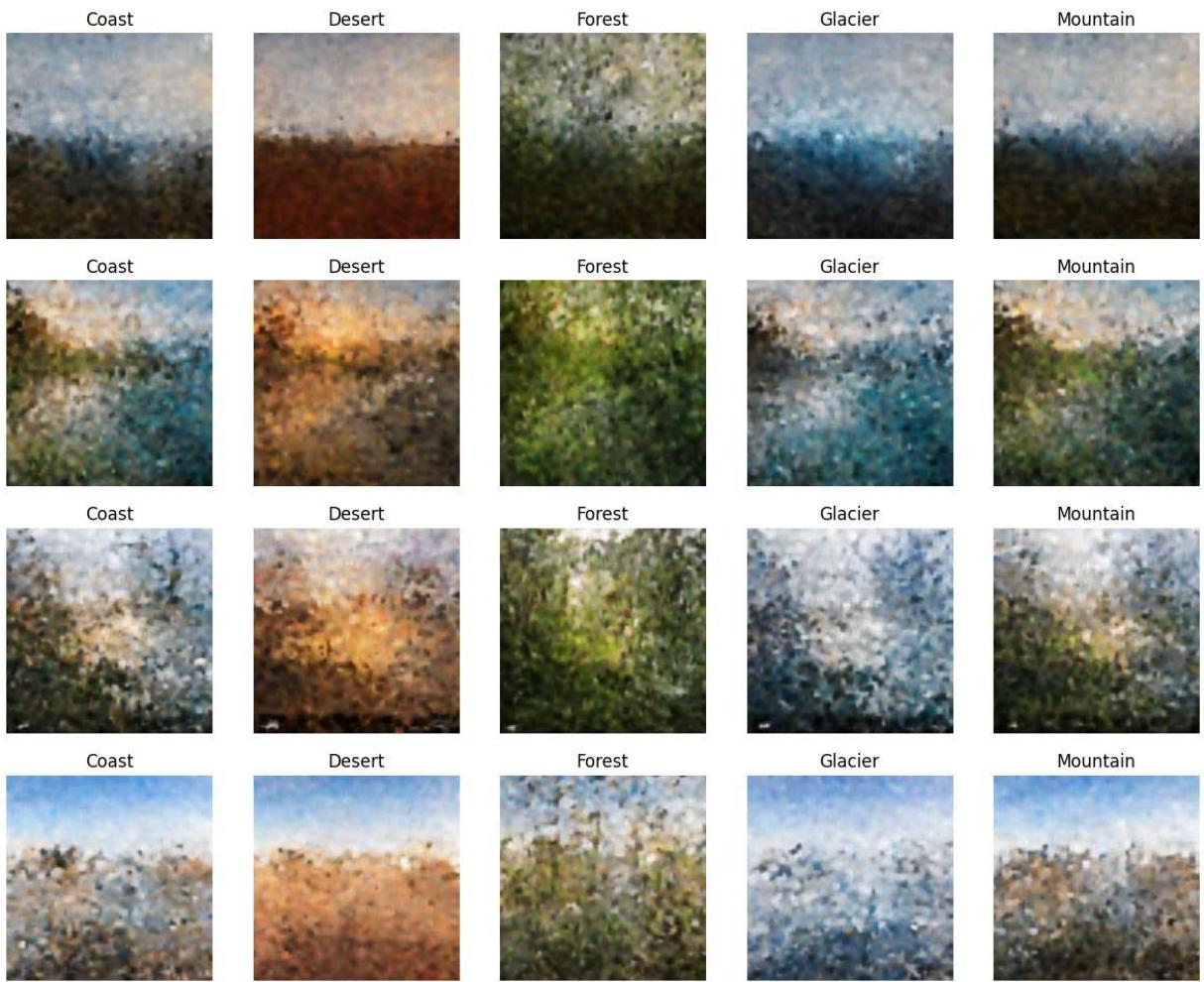
[2023-12-01 03:32:03.511707]: Generating random images for epoch 881 ...



600/600 [=====] - 79s 131ms/step - loss: 89.3967 - reconstruction_error: 42.4741 - regularization_error: 46.9225 - val_loss: 262.3422 - val_reconstruction_error: 216.2637 - val_regularization_error: 46.0784
Epoch 882/1000
600/600 [=====] - 69s 116ms/step - loss: 89.3869 - reconstruction_error: 42.4561 - regularization_error: 46.9307 - val_loss: 259.5319 - val_reconstruction_error: 213.6532 - val_regularization_error: 45.8788
Epoch 883/1000
600/600 [=====] - 73s 121ms/step - loss: 89.4271 - reconstruction_error: 42.4645 - regularization_error: 46.9627 - val_loss: 261.5041 - val_reconstruction_error: 215.1922 - val_regularization_error: 46.3118
Epoch 884/1000
600/600 [=====] - 69s 115ms/step - loss: 89.3069 - reconstruction_error: 42.4599 - regularization_error: 46.8469 - val_loss: 257.0039 - val_reconstruction_error: 211.1523 - val_regularization_error: 45.8516
Epoch 885/1000
600/600 [=====] - 75s 124ms/step - loss: 89.3577 - reconstruction_error: 42.4037 - regularization_error: 46.9540 - val_loss: 257.6695 - val_reconstruction_error: 211.6657 - val_regularization_error: 46.0037
Epoch 886/1000
600/600 [=====] - 72s 120ms/step - loss: 89.3635 - reconstruction_error: 42.4440 - regularization_error: 46.9195 - val_loss: 257.1021 - val_reconstruction_error: 211.3142 - val_regularization_error: 45.7879
Epoch 887/1000
600/600 [=====] - 72s 120ms/step - loss: 89.4115 - reconstruction_error: 42.5308 - regularization_error: 46.8808 - val_loss: 261.8412 - val_reconstruction_error: 214.3333 - val_regularization_error: 47.5079
Epoch 888/1000
600/600 [=====] - 76s 125ms/step - loss: 89.2554 - reconstruction_error: 42.4388 - regularization_error: 46.8167 - val_loss: 256.8623 - val_reconstruction_error: 211.9879 - val_regularization_error: 44.8744
Epoch 889/1000
600/600 [=====] - 72s 119ms/step - loss: 89.3257 - reconstruction_error: 42.3963 - regularization_error: 46.9294 - val_loss: 262.5037 - val_reconstruction_error: 215.9079 - val_regularization_error: 46.5957
Epoch 890/1000
600/600 [=====] - 74s 123ms/step - loss: 89.2329 - reconstruction_error: 42.4079 - regularization_error: 46.8250 - val_loss: 260.2305 - val_reconstruction_error: 214.6811 - val_regularization_error: 45.5495
Epoch 891/1000
600/600 [=====] - ETA: 0s - loss: 89.2718 - reconstruction_error: 42.3775 - regularization_error: 46.8943
[2023-12-01 03:44:08.966081]: Generating fixed images for epoch 891 ...



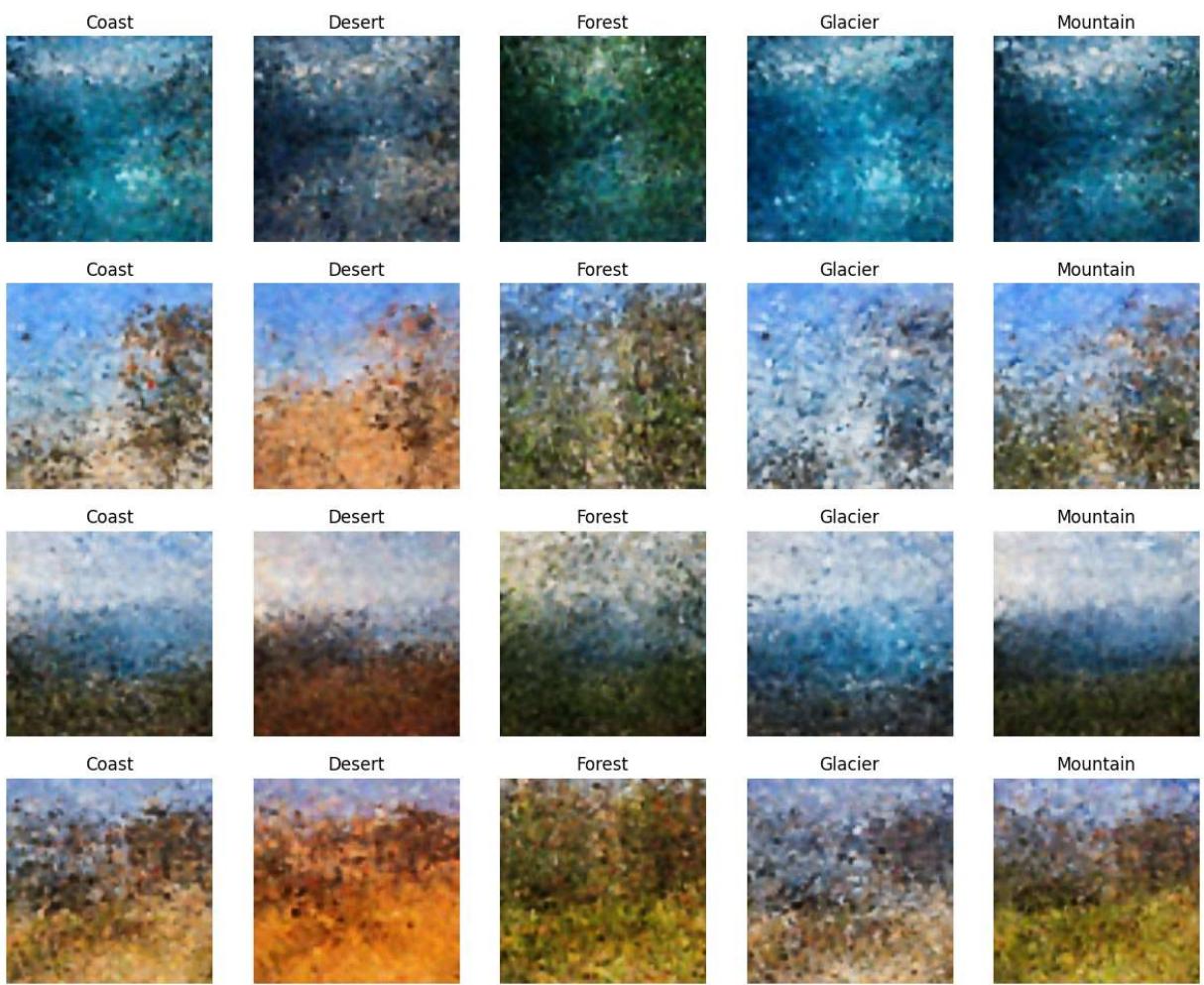
[2023-12-01 03:44:09.718238]: Generating random images for epoch 891 ...



600/600 [=====] - 72s 120ms/step - loss: 89.2718 - reconstruction_error: 42.3775 - regularization_error: 46.8943 - val_loss: 260.2184 - val_reconstruction_error: 214.4612 - val_regularization_error: 45.7571
Epoch 892/1000
600/600 [=====] - 76s 125ms/step - loss: 89.5179 - reconstruction_error: 42.5101 - regularization_error: 47.0078 - val_loss: 254.4361 - val_reconstruction_error: 208.4727 - val_regularization_error: 45.9633
Epoch 893/1000
600/600 [=====] - 78s 129ms/step - loss: 89.2286 - reconstruction_error: 42.3903 - regularization_error: 46.8383 - val_loss: 258.0001 - val_reconstruction_error: 212.2647 - val_regularization_error: 45.7354
Epoch 894/1000
600/600 [=====] - 70s 115ms/step - loss: 89.4041 - reconstruction_error: 42.3762 - regularization_error: 47.0279 - val_loss: 257.2673 - val_reconstruction_error: 212.3716 - val_regularization_error: 44.8958
Epoch 895/1000
600/600 [=====] - 74s 123ms/step - loss: 89.1291 - reconstruction_error: 42.2423 - regularization_error: 46.8869 - val_loss: 255.3311 - val_reconstruction_error: 210.2231 - val_regularization_error: 45.1079
Epoch 896/1000
600/600 [=====] - 71s 119ms/step - loss: 89.1994 - reconstruction_error: 42.3125 - regularization_error: 46.8868 - val_loss: 257.1554 - val_reconstruction_error: 211.4520 - val_regularization_error: 45.7034
Epoch 897/1000
600/600 [=====] - 80s 133ms/step - loss: 89.7311 - reconstruction_error: 42.6792 - regularization_error: 47.0519 - val_loss: 258.6308 - val_reconstruction_error: 213.2947 - val_regularization_error: 45.3360
Epoch 898/1000
600/600 [=====] - 71s 118ms/step - loss: 89.1244 - reconstruction_error: 42.3679 - regularization_error: 46.7564 - val_loss: 258.6850 - val_reconstruction_error: 213.3228 - val_regularization_error: 45.3622
Epoch 899/1000
600/600 [=====] - 74s 123ms/step - loss: 89.2563 - reconstruction_error: 42.3847 - regularization_error: 46.8715 - val_loss: 258.0363 - val_reconstruction_error: 211.6241 - val_regularization_error: 46.4122
Epoch 900/1000
600/600 [=====] - 73s 121ms/step - loss: 89.1983 - reconstruction_error: 42.4068 - regularization_error: 46.7915 - val_loss: 257.2572 - val_reconstruction_error: 211.5410 - val_regularization_error: 45.7162
Epoch 901/1000
600/600 [=====] - ETA: 0s - loss: 89.2718 - reconstruction_error: 42.3481 - regularization_error: 46.9237
[2023-12-01 03:56:33.868191]: Generating fixed images for epoch 901 ...



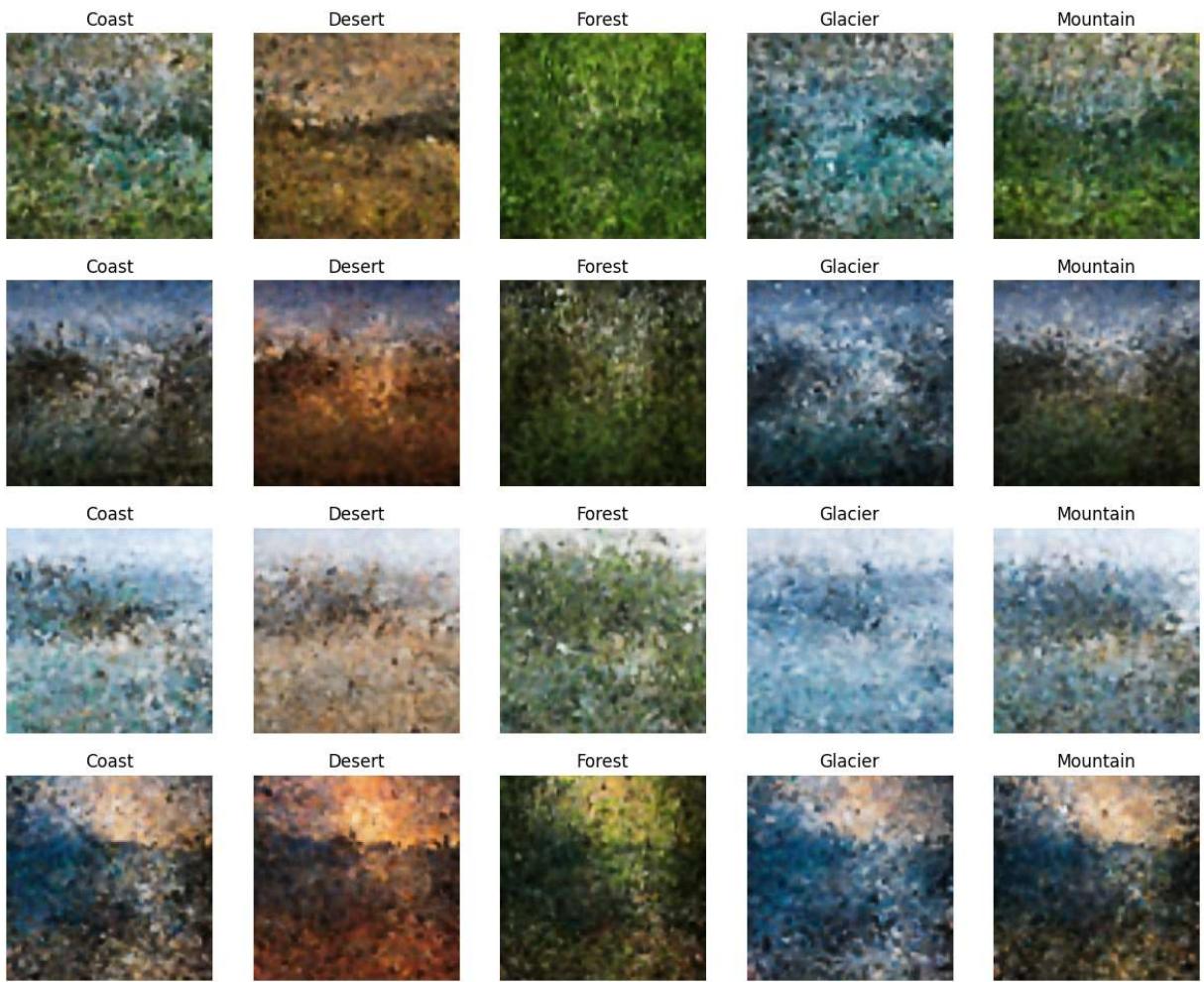
[2023-12-01 03:56:34.760023]: Generating random images for epoch 901 ...



600/600 [=====] - 75s 125ms/step - loss: 89.2718 - reconstruction_error: 42.3481 - regularization_error: 46.9237 - val_loss: 257.9150 - val_reconstruction_error: 212.3282 - val_regularization_error: 45.5869
Epoch 902/1000
600/600 [=====] - 72s 119ms/step - loss: 89.1158 - reconstruction_error: 42.2661 - regularization_error: 46.8497 - val_loss: 261.6466 - val_reconstruction_error: 216.7386 - val_regularization_error: 44.9080
Epoch 903/1000
600/600 [=====] - 76s 126ms/step - loss: 89.1001 - reconstruction_error: 42.3083 - regularization_error: 46.7918 - val_loss: 257.1054 - val_reconstruction_error: 212.2070 - val_regularization_error: 44.8985
Epoch 904/1000
600/600 [=====] - 74s 122ms/step - loss: 89.1336 - reconstruction_error: 42.3222 - regularization_error: 46.8115 - val_loss: 256.5533 - val_reconstruction_error: 210.6280 - val_regularization_error: 45.9254
Epoch 905/1000
600/600 [=====] - 75s 124ms/step - loss: 89.7976 - reconstruction_error: 42.7983 - regularization_error: 46.9993 - val_loss: 257.0120 - val_reconstruction_error: 211.4885 - val_regularization_error: 45.5235
Epoch 906/1000
600/600 [=====] - 70s 116ms/step - loss: 89.4803 - reconstruction_error: 42.6047 - regularization_error: 46.8757 - val_loss: 259.5539 - val_reconstruction_error: 213.5024 - val_regularization_error: 46.0515
Epoch 907/1000
600/600 [=====] - 71s 118ms/step - loss: 89.4205 - reconstruction_error: 42.4910 - regularization_error: 46.9295 - val_loss: 260.9758 - val_reconstruction_error: 215.9651 - val_regularization_error: 45.0107
Epoch 908/1000
600/600 [=====] - 75s 125ms/step - loss: 89.4021 - reconstruction_error: 42.4821 - regularization_error: 46.9200 - val_loss: 255.0802 - val_reconstruction_error: 210.0123 - val_regularization_error: 45.0679
Epoch 909/1000
600/600 [=====] - 68s 113ms/step - loss: 89.4014 - reconstruction_error: 42.4976 - regularization_error: 46.9039 - val_loss: 258.4120 - val_reconstruction_error: 212.6226 - val_regularization_error: 45.7895
Epoch 910/1000
600/600 [=====] - 72s 120ms/step - loss: 89.3528 - reconstruction_error: 42.4999 - regularization_error: 46.8529 - val_loss: 260.3231 - val_reconstruction_error: 213.8635 - val_regularization_error: 46.4595
Epoch 911/1000
600/600 [=====] - ETA: 0s - loss: 89.3629 - reconstruction_error: 42.3381 - regularization_error: 47.0248
[2023-12-01 04:08:37.839681]: Generating fixed images for epoch 911 ...



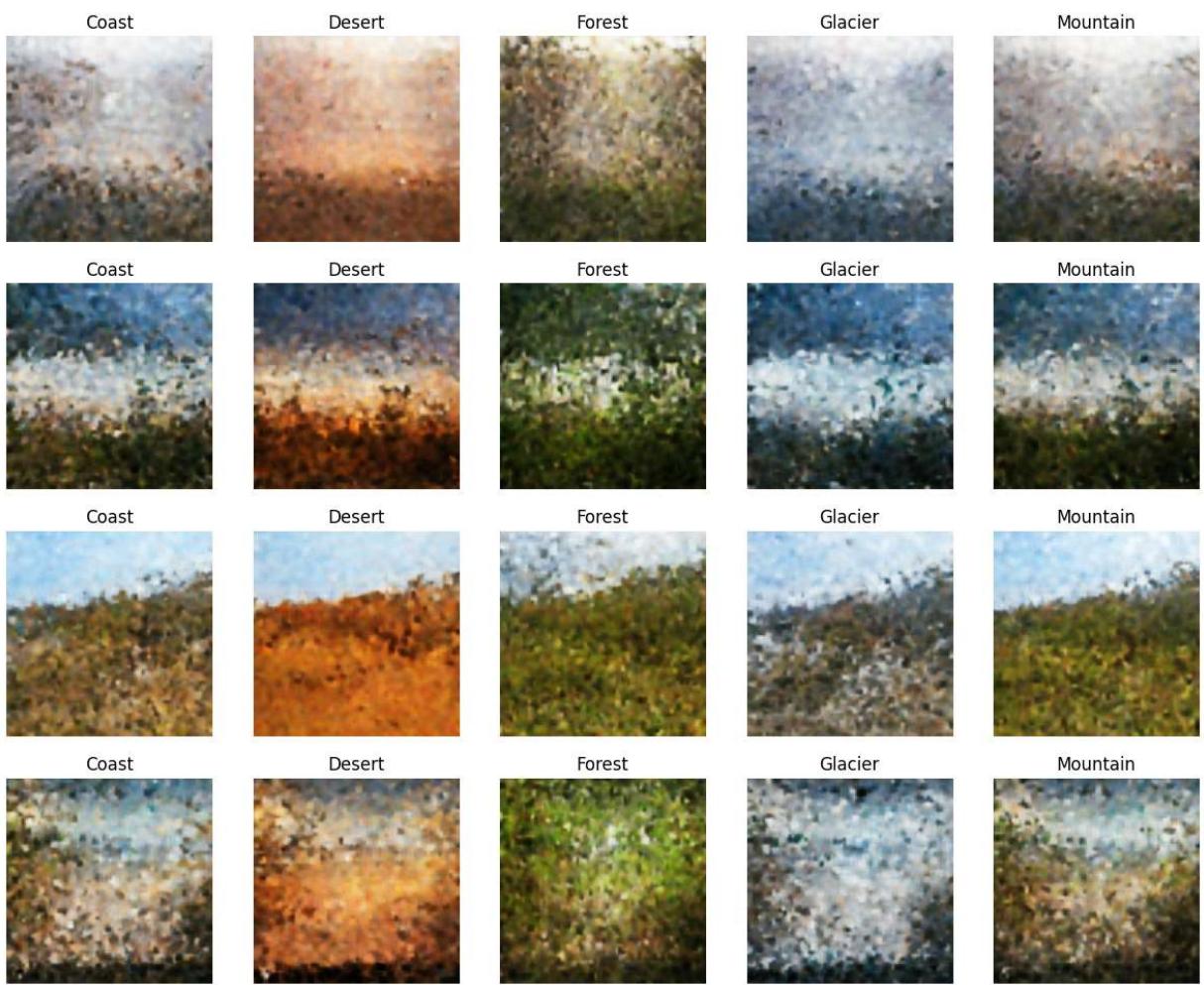
[2023-12-01 04:08:38.606216]: Generating random images for epoch 911 ...



600/600 [=====] - 70s 116ms/step - loss: 89.3629 - reconstruction_error: 42.3381 - regularization_error: 47.0248 - val_loss: 257.5372 - val_reconstruction_error: 211.6726 - val_regularization_error: 45.8646
Epoch 912/1000
600/600 [=====] - 73s 122ms/step - loss: 89.1451 - reconstruction_error: 42.2859 - regularization_error: 46.8591 - val_loss: 258.4129 - val_reconstruction_error: 213.2896 - val_regularization_error: 45.1234
Epoch 913/1000
600/600 [=====] - 73s 121ms/step - loss: 89.0178 - reconstruction_error: 42.2410 - regularization_error: 46.7768 - val_loss: 258.0115 - val_reconstruction_error: 213.3457 - val_regularization_error: 44.6657
Epoch 914/1000
600/600 [=====] - 76s 126ms/step - loss: 89.2355 - reconstruction_error: 42.4391 - regularization_error: 46.7963 - val_loss: 258.9426 - val_reconstruction_error: 212.7313 - val_regularization_error: 46.2113
Epoch 915/1000
600/600 [=====] - 67s 112ms/step - loss: 89.0537 - reconstruction_error: 42.2639 - regularization_error: 46.7898 - val_loss: 259.3590 - val_reconstruction_error: 214.2684 - val_regularization_error: 45.0906
Epoch 916/1000
600/600 [=====] - 76s 127ms/step - loss: 89.1466 - reconstruction_error: 42.2744 - regularization_error: 46.8723 - val_loss: 257.5605 - val_reconstruction_error: 212.3573 - val_regularization_error: 45.2033
Epoch 917/1000
600/600 [=====] - 74s 122ms/step - loss: 89.0847 - reconstruction_error: 42.2378 - regularization_error: 46.8469 - val_loss: 259.0275 - val_reconstruction_error: 214.0997 - val_regularization_error: 44.9279
Epoch 918/1000
600/600 [=====] - 74s 124ms/step - loss: 89.0582 - reconstruction_error: 42.2573 - regularization_error: 46.8009 - val_loss: 259.2866 - val_reconstruction_error: 214.0216 - val_regularization_error: 45.2650
Epoch 919/1000
600/600 [=====] - 78s 129ms/step - loss: 89.1116 - reconstruction_error: 42.3476 - regularization_error: 46.7639 - val_loss: 259.3071 - val_reconstruction_error: 213.8425 - val_regularization_error: 45.4646
Epoch 920/1000
600/600 [=====] - 71s 117ms/step - loss: 88.9346 - reconstruction_error: 42.2194 - regularization_error: 46.7152 - val_loss: 257.7756 - val_reconstruction_error: 212.3692 - val_regularization_error: 45.4065
Epoch 921/1000
600/600 [=====] - ETA: 0s - loss: 88.9070 - reconstruction_error: 42.1445 - regularization_error: 46.7626
[2023-12-01 04:20:58.197844]: Generating fixed images for epoch 921 ...



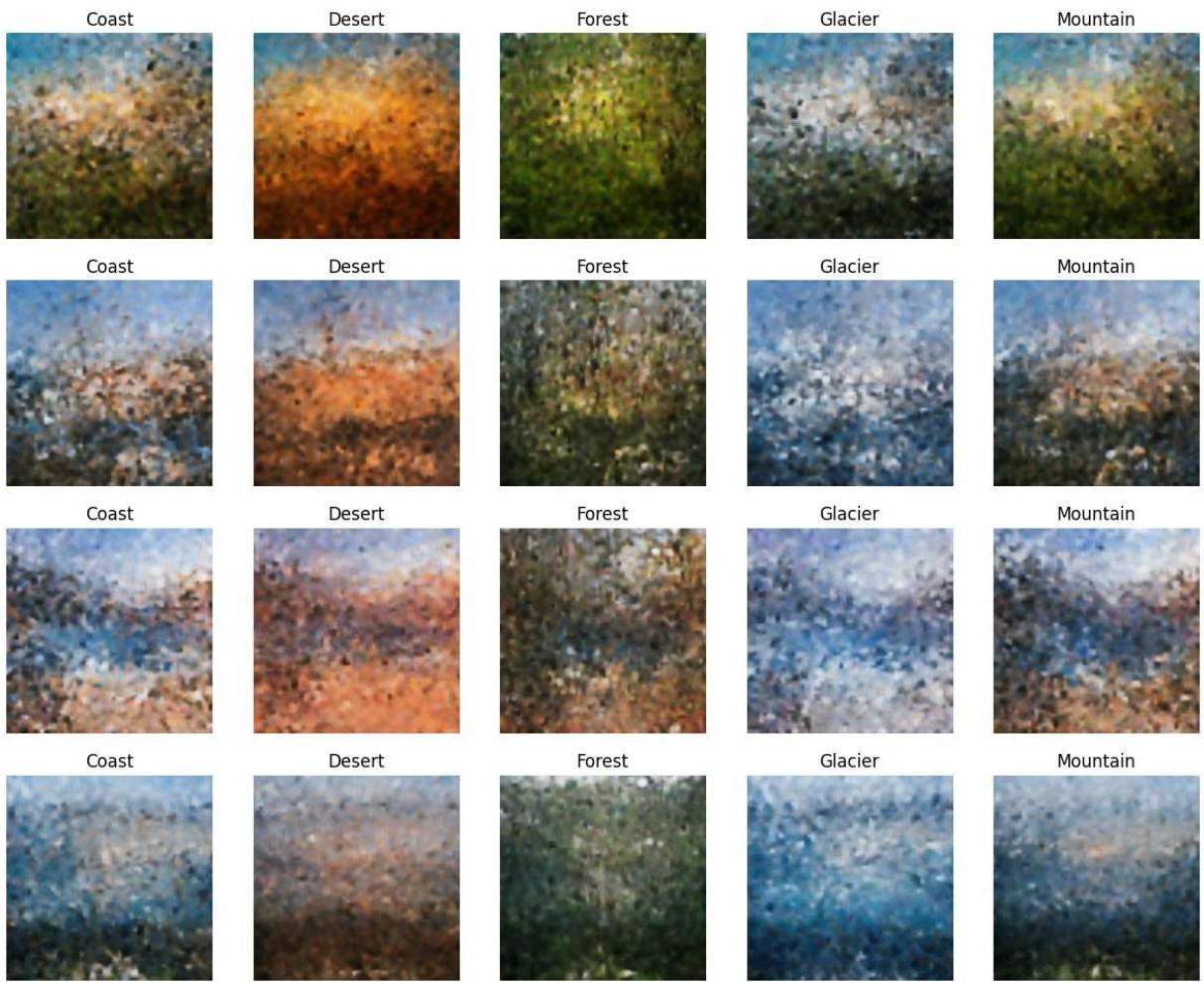
[2023-12-01 04:20:59.520912]: Generating random images for epoch 921 ...



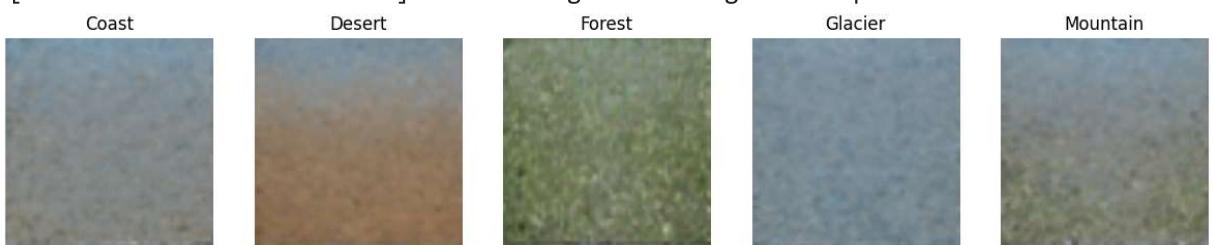
```
600/600 [=====] - 75s 125ms/step - loss: 88.9070 - reconstruction_error: 42.1445 - regularization_error: 46.7626 - val_loss: 259.1519 - val_reconstruction_error: 213.6409 - val_regularization_error: 45.5110
Epoch 922/1000
600/600 [=====] - 66s 111ms/step - loss: 88.9739 - reconstruction_error: 42.2618 - regularization_error: 46.7122 - val_loss: 257.7831 - val_reconstruction_error: 211.8828 - val_regularization_error: 45.9001
Epoch 923/1000
600/600 [=====] - 62s 104ms/step - loss: 89.0247 - reconstruction_error: 42.2894 - regularization_error: 46.7353 - val_loss: 256.2028 - val_reconstruction_error: 210.5335 - val_regularization_error: 45.6692
Epoch 924/1000
600/600 [=====] - 71s 118ms/step - loss: 89.1001 - reconstruction_error: 42.3012 - regularization_error: 46.7989 - val_loss: 257.1656 - val_reconstruction_error: 212.0787 - val_regularization_error: 45.0868
Epoch 925/1000
600/600 [=====] - 72s 120ms/step - loss: 89.1748 - reconstruction_error: 42.2589 - regularization_error: 46.9158 - val_loss: 258.3112 - val_reconstruction_error: 212.9405 - val_regularization_error: 45.3706
Epoch 926/1000
600/600 [=====] - 73s 122ms/step - loss: 89.0356 - reconstruction_error: 42.2206 - regularization_error: 46.8150 - val_loss: 257.7879 - val_reconstruction_error: 212.3261 - val_regularization_error: 45.4618
Epoch 927/1000
600/600 [=====] - 74s 122ms/step - loss: 88.9537 - reconstruction_error: 42.1571 - regularization_error: 46.7966 - val_loss: 255.5407 - val_reconstruction_error: 210.3377 - val_regularization_error: 45.2031
Epoch 928/1000
600/600 [=====] - 73s 121ms/step - loss: 88.9522 - reconstruction_error: 42.1715 - regularization_error: 46.7807 - val_loss: 261.3698 - val_reconstruction_error: 215.9371 - val_regularization_error: 45.4327
Epoch 929/1000
600/600 [=====] - 66s 110ms/step - loss: 88.9029 - reconstruction_error: 42.1588 - regularization_error: 46.7442 - val_loss: 257.3108 - val_reconstruction_error: 211.8773 - val_regularization_error: 45.4334
Epoch 930/1000
600/600 [=====] - 75s 125ms/step - loss: 89.0036 - reconstruction_error: 42.2122 - regularization_error: 46.7913 - val_loss: 256.9742 - val_reconstruction_error: 212.5741 - val_regularization_error: 44.4001
Epoch 931/1000
600/600 [=====] - ETA: 0s - loss: 88.7685 - reconstruction_error: 42.2046 - regularization_error: 46.5640
[2023-12-01 04:32:51.835682]: Generating fixed images for epoch 931 ...
```



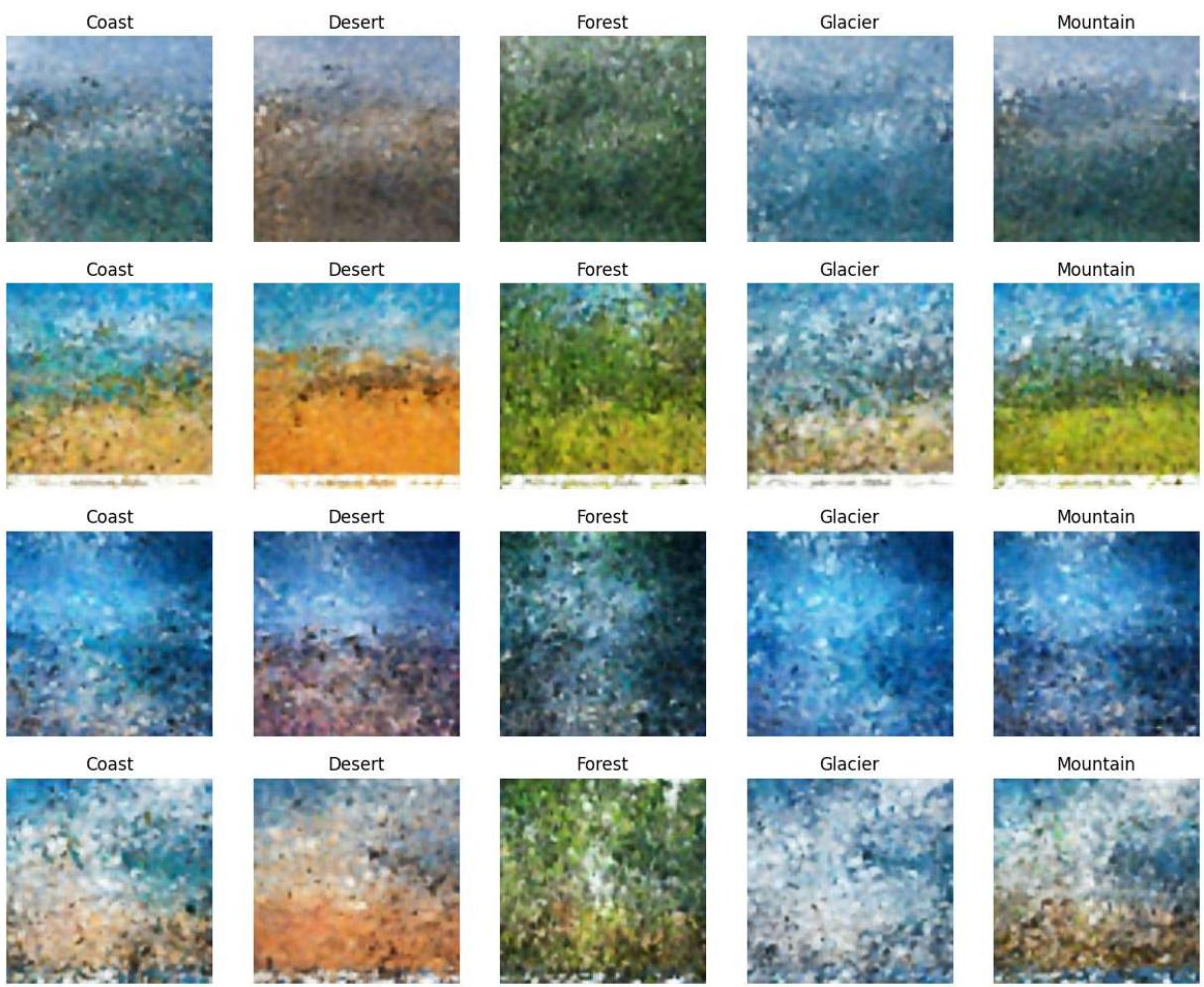
```
[2023-12-01 04:32:52.622174]: Generating random images for epoch 931 ...
```



600/600 [=====] - 78s 129ms/step - loss: 88.7685 - reconstruction_error: 42.2046 - regularization_error: 46.5640 - val_loss: 260.4177 - val_reconstruction_error: 214.6695 - val_regularization_error: 45.7483
Epoch 932/1000
600/600 [=====] - 72s 119ms/step - loss: 89.0239 - reconstruction_error: 42.2508 - regularization_error: 46.7731 - val_loss: 258.6439 - val_reconstruction_error: 213.7720 - val_regularization_error: 44.8719
Epoch 933/1000
600/600 [=====] - 70s 116ms/step - loss: 88.8205 - reconstruction_error: 42.0990 - regularization_error: 46.7214 - val_loss: 257.3302 - val_reconstruction_error: 211.7745 - val_regularization_error: 45.5557
Epoch 934/1000
600/600 [=====] - 69s 114ms/step - loss: 88.9625 - reconstruction_error: 42.1880 - regularization_error: 46.7745 - val_loss: 259.3992 - val_reconstruction_error: 213.6433 - val_regularization_error: 45.7559
Epoch 935/1000
600/600 [=====] - 76s 126ms/step - loss: 89.0058 - reconstruction_error: 42.2123 - regularization_error: 46.7935 - val_loss: 257.6913 - val_reconstruction_error: 213.3583 - val_regularization_error: 44.3330
Epoch 936/1000
600/600 [=====] - 76s 126ms/step - loss: 88.8180 - reconstruction_error: 42.1028 - regularization_error: 46.7152 - val_loss: 257.8420 - val_reconstruction_error: 211.8311 - val_regularization_error: 46.0110
Epoch 937/1000
600/600 [=====] - 75s 124ms/step - loss: 89.0394 - reconstruction_error: 42.1992 - regularization_error: 46.8402 - val_loss: 256.3648 - val_reconstruction_error: 211.0930 - val_regularization_error: 45.2718
Epoch 938/1000
600/600 [=====] - 74s 123ms/step - loss: 88.9012 - reconstruction_error: 42.1986 - regularization_error: 46.7027 - val_loss: 256.6306 - val_reconstruction_error: 210.5070 - val_regularization_error: 46.1237
Epoch 939/1000
600/600 [=====] - 71s 118ms/step - loss: 88.8358 - reconstruction_error: 42.0698 - regularization_error: 46.7661 - val_loss: 256.4104 - val_reconstruction_error: 211.2774 - val_regularization_error: 45.1330
Epoch 940/1000
600/600 [=====] - 75s 125ms/step - loss: 88.7191 - reconstruction_error: 42.1029 - regularization_error: 46.6163 - val_loss: 256.0616 - val_reconstruction_error: 210.8370 - val_regularization_error: 45.2246
Epoch 941/1000
600/600 [=====] - ETA: 0s - loss: 88.8828 - reconstruction_error: 42.1241 - regularization_error: 46.7587
[2023-12-01 04:45:08.176008]: Generating fixed images for epoch 941 ...



[2023-12-01 04:45:09.031240]: Generating random images for epoch 941 ...



600/600 [=====] - 76s 126ms/step - loss: 88.8828 - reconstruction_error: 42.1241 - regularization_error: 46.7587 - val_loss: 260.1207 - val_reconstruction_error: 213.2976 - val_regularization_error: 46.8231
Epoch 942/1000
600/600 [=====] - 76s 126ms/step - loss: 88.6736 - reconstruction_error: 42.0409 - regularization_error: 46.6327 - val_loss: 262.1342 - val_reconstruction_error: 216.6047 - val_regularization_error: 45.5295
Epoch 943/1000
600/600 [=====] - 69s 114ms/step - loss: 88.7523 - reconstruction_error: 42.0655 - regularization_error: 46.6868 - val_loss: 260.1638 - val_reconstruction_error: 215.7489 - val_regularization_error: 44.4149
Epoch 944/1000
600/600 [=====] - 76s 126ms/step - loss: 88.8636 - reconstruction_error: 42.1647 - regularization_error: 46.6988 - val_loss: 257.3103 - val_reconstruction_error: 212.8038 - val_regularization_error: 44.5065
Epoch 945/1000
600/600 [=====] - 75s 125ms/step - loss: 88.9916 - reconstruction_error: 42.2104 - regularization_error: 46.7812 - val_loss: 261.7500 - val_reconstruction_error: 215.5482 - val_regularization_error: 46.2018
Epoch 946/1000
600/600 [=====] - 77s 128ms/step - loss: 88.7166 - reconstruction_error: 41.9966 - regularization_error: 46.7200 - val_loss: 257.5229 - val_reconstruction_error: 211.6820 - val_regularization_error: 45.8409
Epoch 947/1000
600/600 [=====] - 72s 119ms/step - loss: 88.8550 - reconstruction_error: 42.0670 - regularization_error: 46.7879 - val_loss: 258.0384 - val_reconstruction_error: 211.7855 - val_regularization_error: 46.2530
Epoch 948/1000
600/600 [=====] - 76s 126ms/step - loss: 88.7953 - reconstruction_error: 42.0571 - regularization_error: 46.7382 - val_loss: 256.4181 - val_reconstruction_error: 210.2052 - val_regularization_error: 46.2129
Epoch 949/1000
600/600 [=====] - 72s 119ms/step - loss: 88.8187 - reconstruction_error: 42.0898 - regularization_error: 46.7289 - val_loss: 257.8677 - val_reconstruction_error: 212.3781 - val_regularization_error: 45.4896
Epoch 950/1000
600/600 [=====] - 72s 119ms/step - loss: 88.8284 - reconstruction_error: 42.1323 - regularization_error: 46.6961 - val_loss: 253.1016 - val_reconstruction_error: 206.9033 - val_regularization_error: 46.1982
Epoch 951/1000
600/600 [=====] - ETA: 0s - loss: 88.7885 - reconstruction_error: 42.0609 - regularization_error: 46.7276
[2023-12-01 04:57:21.919425]: Generating fixed images for epoch 951 ...



[2023-12-01 04:57:23.602140]: Generating random images for epoch 951 ...



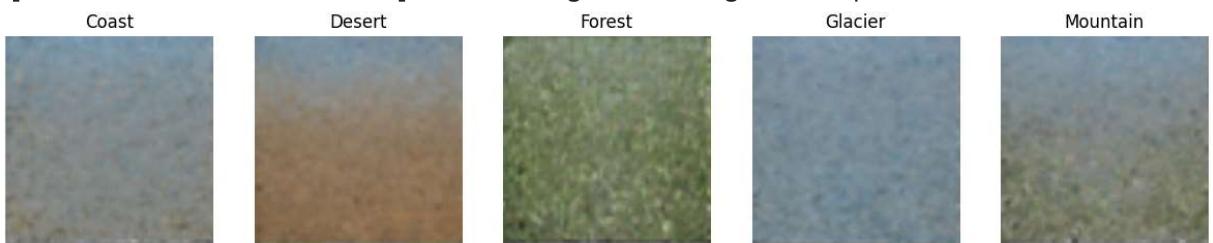
```
600/600 [=====] - 69s 115ms/step - loss: 88.7885 - reconstruction_error: 42.0609 - regularization_error: 46.7276 - val_loss: 255.9590 - val_reconstruction_error: 209.2667 - val_regularization_error: 46.6923
Epoch 952/1000
600/600 [=====] - 73s 122ms/step - loss: 88.6733 - reconstruction_error: 41.9716 - regularization_error: 46.7016 - val_loss: 258.5929 - val_reconstruction_error: 212.3838 - val_regularization_error: 46.2091
Epoch 953/1000
600/600 [=====] - 75s 124ms/step - loss: 88.8287 - reconstruction_error: 42.0787 - regularization_error: 46.7499 - val_loss: 263.9835 - val_reconstruction_error: 217.5174 - val_regularization_error: 46.4660
Epoch 954/1000
600/600 [=====] - 73s 121ms/step - loss: 88.7439 - reconstruction_error: 41.9982 - regularization_error: 46.7457 - val_loss: 259.8699 - val_reconstruction_error: 215.1549 - val_regularization_error: 44.7151
Epoch 955/1000
600/600 [=====] - 77s 128ms/step - loss: 88.6384 - reconstruction_error: 41.9566 - regularization_error: 46.6818 - val_loss: 258.1236 - val_reconstruction_error: 213.1584 - val_regularization_error: 44.9653
Epoch 956/1000
600/600 [=====] - 76s 127ms/step - loss: 88.6431 - reconstruction_error: 41.9288 - regularization_error: 46.7143 - val_loss: 258.5369 - val_reconstruction_error: 212.9592 - val_regularization_error: 45.5777
Epoch 957/1000
600/600 [=====] - 77s 129ms/step - loss: 88.5431 - reconstruction_error: 41.9064 - regularization_error: 46.6366 - val_loss: 258.7403 - val_reconstruction_error: 214.0945 - val_regularization_error: 44.6457
Epoch 958/1000
600/600 [=====] - 76s 127ms/step - loss: 88.6898 - reconstruction_error: 42.0411 - regularization_error: 46.6487 - val_loss: 257.4041 - val_reconstruction_error: 211.6246 - val_regularization_error: 45.7794
Epoch 959/1000
600/600 [=====] - 67s 111ms/step - loss: 88.7348 - reconstruction_error: 42.0700 - regularization_error: 46.6648 - val_loss: 259.2260 - val_reconstruction_error: 214.5716 - val_regularization_error: 44.6544
Epoch 960/1000
600/600 [=====] - 75s 123ms/step - loss: 88.7334 - reconstruction_error: 42.0137 - regularization_error: 46.7197 - val_loss: 259.4675 - val_reconstruction_error: 215.0960 - val_regularization_error: 44.3715
Epoch 961/1000
600/600 [=====] - ETA: 0s - loss: 88.6536 - reconstruction_error: 42.0377 - regularization_error: 46.6158
[2023-12-01 05:09:41.627634]: Generating fixed images for epoch 961 ...
```



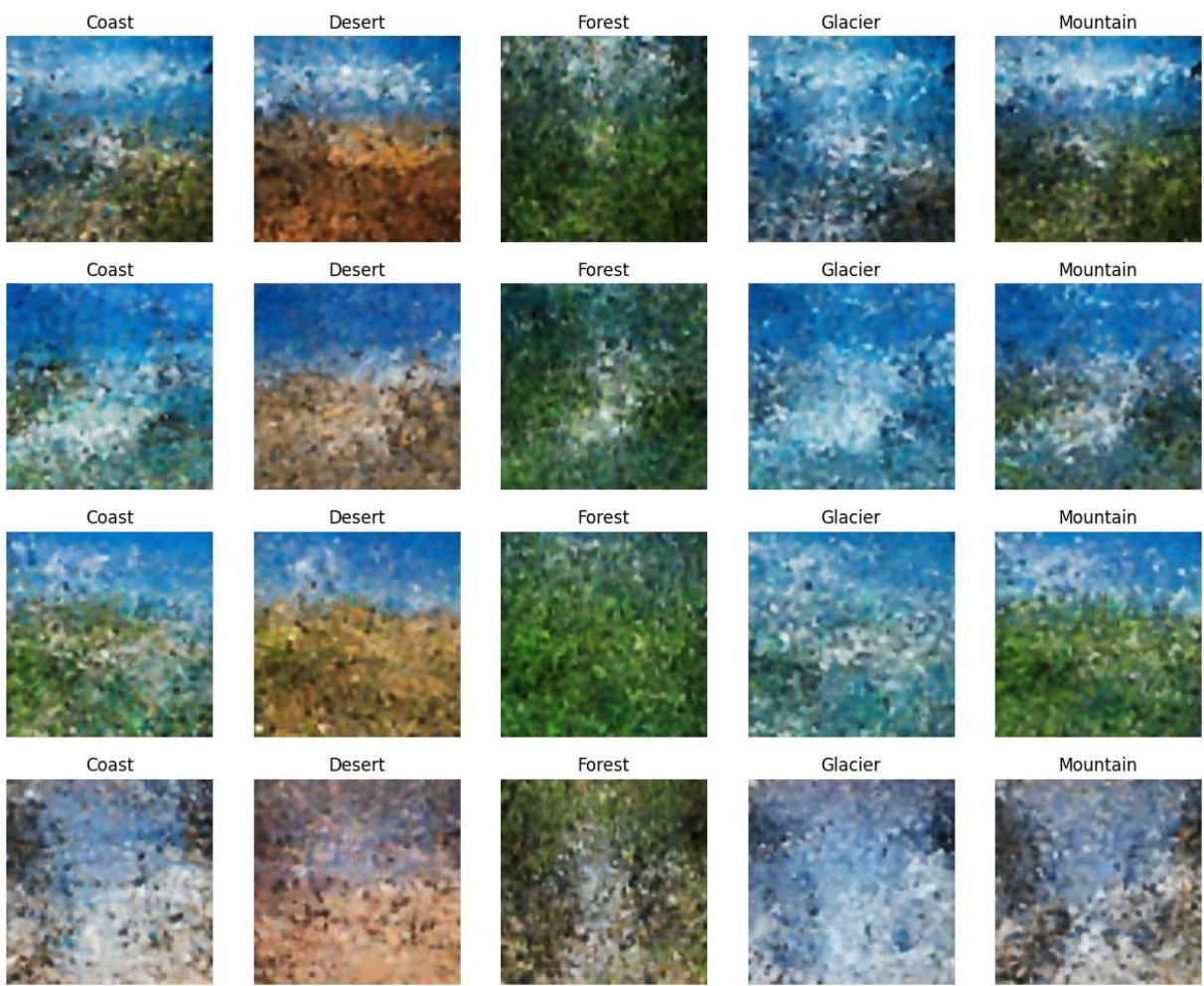
```
[2023-12-01 05:09:42.463447]: Generating random images for epoch 961 ...
```



600/600 [=====] - 68s 113ms/step - loss: 88.6536 - reconstruction_error: 42.0377 - regularization_error: 46.6158 - val_loss: 258.1510 - val_reconstruction_error: 213.4344 - val_regularization_error: 44.7167
Epoch 962/1000
600/600 [=====] - 74s 123ms/step - loss: 88.6598 - reconstruction_error: 41.9506 - regularization_error: 46.7092 - val_loss: 260.2271 - val_reconstruction_error: 215.0491 - val_regularization_error: 45.1778
Epoch 963/1000
600/600 [=====] - 71s 118ms/step - loss: 88.6851 - reconstruction_error: 42.0309 - regularization_error: 46.6542 - val_loss: 259.0260 - val_reconstruction_error: 213.4359 - val_regularization_error: 45.5901
Epoch 964/1000
600/600 [=====] - 72s 119ms/step - loss: 88.9591 - reconstruction_error: 42.1012 - regularization_error: 46.8580 - val_loss: 258.3197 - val_reconstruction_error: 212.3925 - val_regularization_error: 45.9272
Epoch 965/1000
600/600 [=====] - 73s 121ms/step - loss: 88.7976 - reconstruction_error: 42.0427 - regularization_error: 46.7549 - val_loss: 255.3154 - val_reconstruction_error: 209.8296 - val_regularization_error: 45.4860
Epoch 966/1000
600/600 [=====] - 70s 116ms/step - loss: 88.4820 - reconstruction_error: 41.8975 - regularization_error: 46.5844 - val_loss: 256.9572 - val_reconstruction_error: 211.0376 - val_regularization_error: 45.9196
Epoch 967/1000
600/600 [=====] - 69s 115ms/step - loss: 88.6998 - reconstruction_error: 41.9817 - regularization_error: 46.7181 - val_loss: 255.9546 - val_reconstruction_error: 210.4371 - val_regularization_error: 45.5174
Epoch 968/1000
600/600 [=====] - 75s 124ms/step - loss: 88.7150 - reconstruction_error: 41.9583 - regularization_error: 46.7567 - val_loss: 259.6543 - val_reconstruction_error: 214.3244 - val_regularization_error: 45.3298
Epoch 969/1000
600/600 [=====] - 78s 130ms/step - loss: 88.6141 - reconstruction_error: 41.9657 - regularization_error: 46.6484 - val_loss: 261.6972 - val_reconstruction_error: 216.3809 - val_regularization_error: 45.3163
Epoch 970/1000
600/600 [=====] - 74s 123ms/step - loss: 88.7092 - reconstruction_error: 41.9801 - regularization_error: 46.7292 - val_loss: 260.1794 - val_reconstruction_error: 213.9914 - val_regularization_error: 46.1880
Epoch 971/1000
600/600 [=====] - ETA: 0s - loss: 88.5244 - reconstruction_error: 41.8936 - regularization_error: 46.6308
[2023-12-01 05:21:53.903892]: Generating fixed images for epoch 971 ...



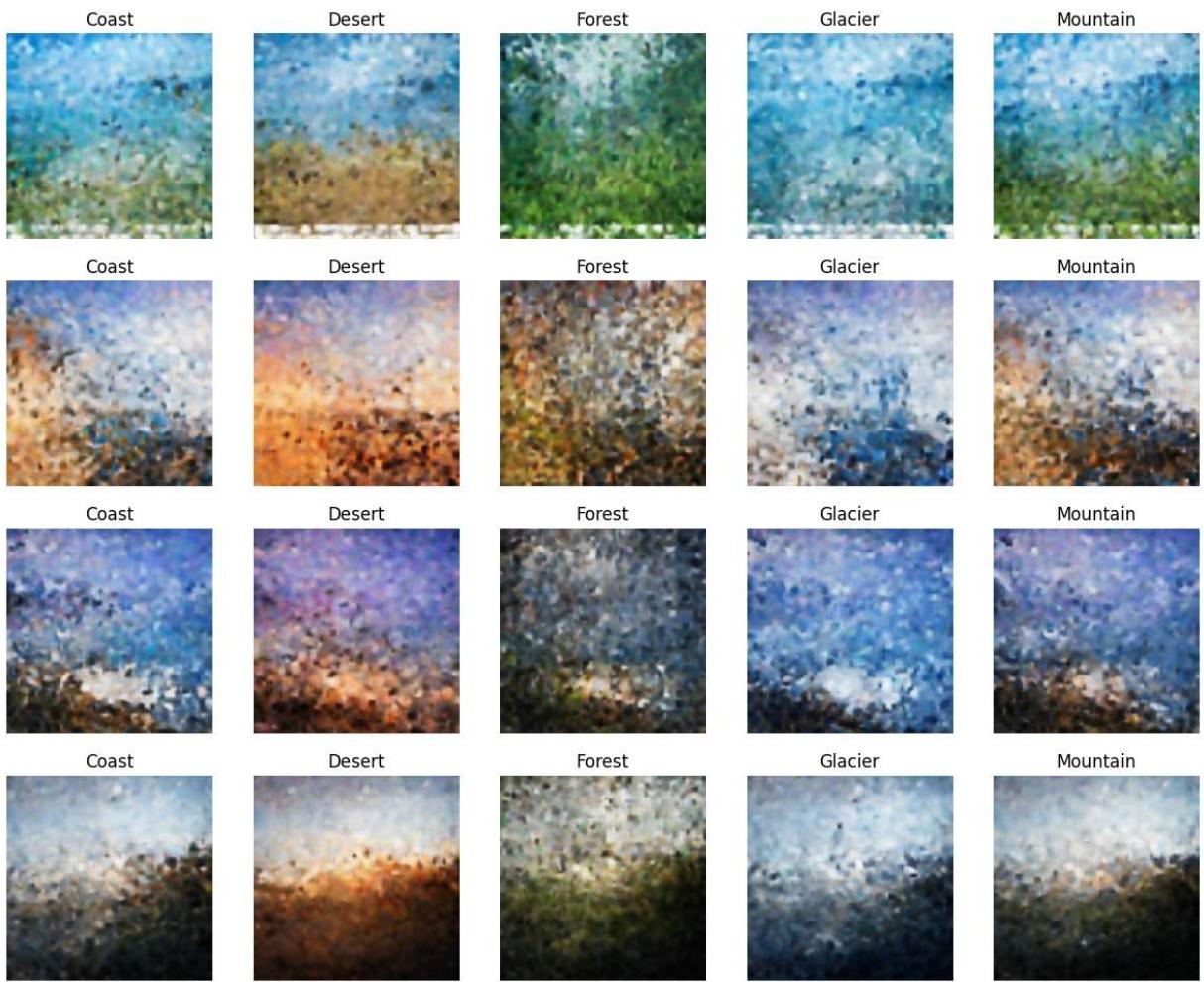
[2023-12-01 05:21:54.669208]: Generating random images for epoch 971 ...



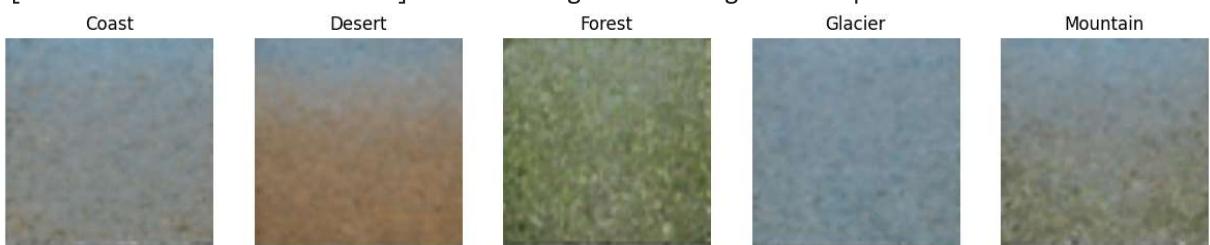
```
600/600 [=====] - 75s 125ms/step - loss: 88.5244 - reconstruction_error: 41.8936 - regularization_error: 46.6308 - val_loss: 261.8332 - val_reconstruction_error: 216.3131 - val_regularization_error: 45.5201
Epoch 972/1000
600/600 [=====] - 72s 119ms/step - loss: 88.4820 - reconstruction_error: 41.7895 - regularization_error: 46.6925 - val_loss: 257.8824 - val_reconstruction_error: 212.3872 - val_regularization_error: 45.4951
Epoch 973/1000
600/600 [=====] - 74s 123ms/step - loss: 88.9219 - reconstruction_error: 42.0963 - regularization_error: 46.8256 - val_loss: 256.9271 - val_reconstruction_error: 211.7511 - val_regularization_error: 45.1760
Epoch 974/1000
600/600 [=====] - 67s 111ms/step - loss: 88.5636 - reconstruction_error: 41.9359 - regularization_error: 46.6277 - val_loss: 256.6390 - val_reconstruction_error: 210.8345 - val_regularization_error: 45.8045
Epoch 975/1000
600/600 [=====] - 74s 123ms/step - loss: 88.6324 - reconstruction_error: 41.9390 - regularization_error: 46.6934 - val_loss: 260.4543 - val_reconstruction_error: 215.5373 - val_regularization_error: 44.9169
Epoch 976/1000
600/600 [=====] - 80s 133ms/step - loss: 88.4758 - reconstruction_error: 41.8499 - regularization_error: 46.6259 - val_loss: 261.8550 - val_reconstruction_error: 215.7410 - val_regularization_error: 46.1140
Epoch 977/1000
600/600 [=====] - 76s 127ms/step - loss: 88.5230 - reconstruction_error: 41.8117 - regularization_error: 46.7114 - val_loss: 260.9488 - val_reconstruction_error: 215.2938 - val_regularization_error: 45.6549
Epoch 978/1000
600/600 [=====] - 70s 116ms/step - loss: 88.4721 - reconstruction_error: 41.9028 - regularization_error: 46.5693 - val_loss: 261.1576 - val_reconstruction_error: 215.1212 - val_regularization_error: 46.0365
Epoch 979/1000
600/600 [=====] - 69s 114ms/step - loss: 88.5042 - reconstruction_error: 41.8679 - regularization_error: 46.6364 - val_loss: 257.3764 - val_reconstruction_error: 212.2159 - val_regularization_error: 45.1605
Epoch 980/1000
600/600 [=====] - 86s 143ms/step - loss: 88.4373 - reconstruction_error: 41.8298 - regularization_error: 46.6075 - val_loss: 257.7123 - val_reconstruction_error: 212.0099 - val_regularization_error: 45.7024
Epoch 981/1000
600/600 [=====] - ETA: 0s - loss: 88.5283 - reconstruction_error: 41.8585 - regularization_error: 46.6699
[2023-12-01 05:34:21.527519]: Generating fixed images for epoch 981 ...
```



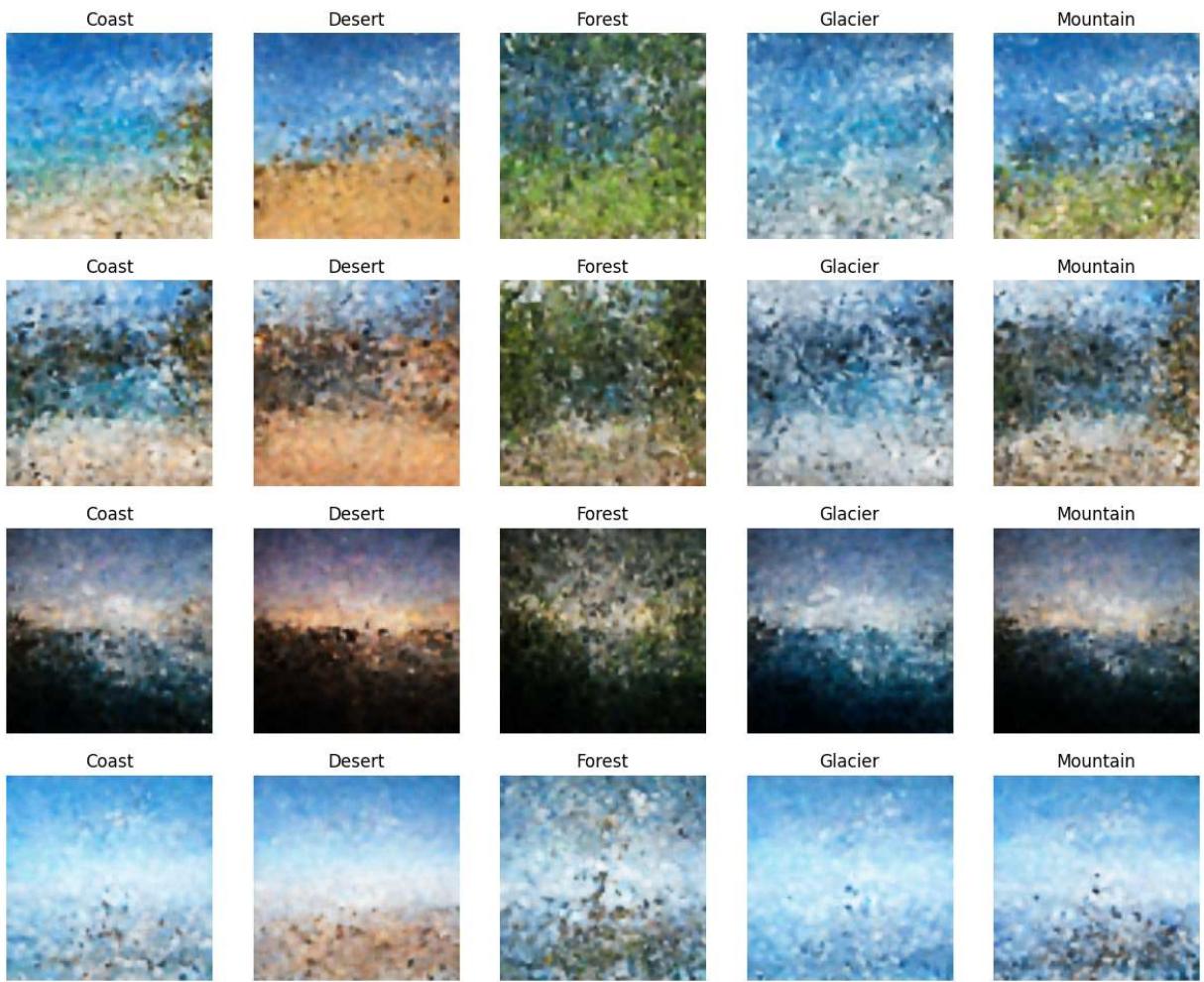
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[2023-12-01 05:34:22.107868]: Generating random images for epoch 981 ...
```



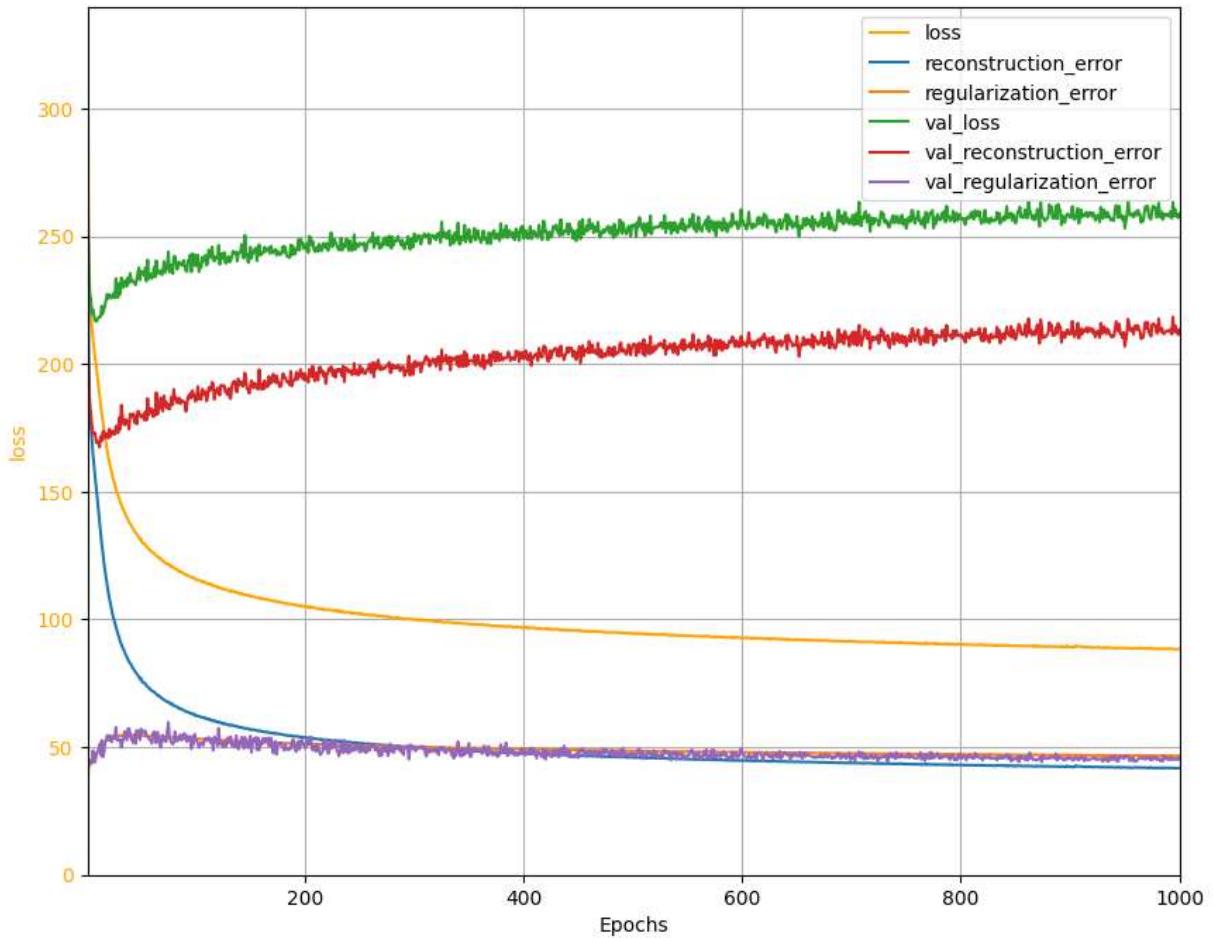
```
600/600 [=====] - 75s 125ms/step - loss: 88.5283 - reconstruction_error: 41.8585 - regularization_error: 46.6699 - val_loss: 262.9402 - val_reconstruction_error: 217.7519 - val_regularization_error: 45.1883
Epoch 982/1000
600/600 [=====] - 70s 116ms/step - loss: 88.5664 - reconstruction_error: 41.9170 - regularization_error: 46.6494 - val_loss: 258.8170 - val_reconstruction_error: 213.6327 - val_regularization_error: 45.1842
Epoch 983/1000
600/600 [=====] - 73s 120ms/step - loss: 88.4097 - reconstruction_error: 41.8134 - regularization_error: 46.5964 - val_loss: 257.1737 - val_reconstruction_error: 212.6429 - val_regularization_error: 44.5308
Epoch 984/1000
600/600 [=====] - 74s 123ms/step - loss: 88.5403 - reconstruction_error: 41.9561 - regularization_error: 46.5843 - val_loss: 259.4716 - val_reconstruction_error: 214.0302 - val_regularization_error: 45.4414
Epoch 985/1000
600/600 [=====] - 71s 119ms/step - loss: 88.5929 - reconstruction_error: 41.9559 - regularization_error: 46.6371 - val_loss: 256.5328 - val_reconstruction_error: 211.9061 - val_regularization_error: 44.6267
Epoch 986/1000
600/600 [=====] - 74s 123ms/step - loss: 88.3943 - reconstruction_error: 41.7389 - regularization_error: 46.6553 - val_loss: 258.5283 - val_reconstruction_error: 211.8286 - val_regularization_error: 46.6997
Epoch 987/1000
600/600 [=====] - 72s 120ms/step - loss: 88.4009 - reconstruction_error: 41.8640 - regularization_error: 46.5369 - val_loss: 258.1292 - val_reconstruction_error: 212.4681 - val_regularization_error: 45.6611
Epoch 988/1000
600/600 [=====] - 68s 113ms/step - loss: 88.5975 - reconstruction_error: 41.9092 - regularization_error: 46.6882 - val_loss: 258.7233 - val_reconstruction_error: 212.9006 - val_regularization_error: 45.8228
Epoch 989/1000
600/600 [=====] - 70s 117ms/step - loss: 88.4246 - reconstruction_error: 41.8388 - regularization_error: 46.5857 - val_loss: 258.1442 - val_reconstruction_error: 212.9909 - val_regularization_error: 45.1532
Epoch 990/1000
600/600 [=====] - 73s 122ms/step - loss: 88.4834 - reconstruction_error: 41.8393 - regularization_error: 46.6442 - val_loss: 258.3687 - val_reconstruction_error: 213.0489 - val_regularization_error: 45.3197
Epoch 991/1000
600/600 [=====] - ETA: 0s - loss: 88.5889 - reconstruction_error: 41.9173 - regularization_error: 46.6716
[2023-12-01 05:46:21.565059]: Generating fixed images for epoch 991 ...
```



```
[2023-12-01 05:46:22.706782]: Generating random images for epoch 991 ...
```



600/600 [=====] - 72s 120ms/step - loss: 88.5889 - reconstruction_error: 41.9173 - regularization_error: 46.6716 - val_loss: 257.7050 - val_reconstruction_error: 212.6274 - val_regularization_error: 45.0776
Epoch 992/1000
600/600 [=====] - 75s 125ms/step - loss: 88.4735 - reconstruction_error: 41.8840 - regularization_error: 46.5896 - val_loss: 259.6883 - val_reconstruction_error: 213.5097 - val_regularization_error: 46.1785
Epoch 993/1000
600/600 [=====] - 80s 133ms/step - loss: 88.5073 - reconstruction_error: 41.8666 - regularization_error: 46.6407 - val_loss: 256.9617 - val_reconstruction_error: 211.6288 - val_regularization_error: 45.3329
Epoch 994/1000
600/600 [=====] - 77s 128ms/step - loss: 88.4702 - reconstruction_error: 41.8148 - regularization_error: 46.6554 - val_loss: 263.4019 - val_reconstruction_error: 218.3617 - val_regularization_error: 45.0402
Epoch 995/1000
600/600 [=====] - 77s 129ms/step - loss: 88.3625 - reconstruction_error: 41.7810 - regularization_error: 46.5814 - val_loss: 258.1867 - val_reconstruction_error: 212.6379 - val_regularization_error: 45.5488
Epoch 996/1000
600/600 [=====] - 65s 108ms/step - loss: 88.3042 - reconstruction_error: 41.7773 - regularization_error: 46.5268 - val_loss: 260.5326 - val_reconstruction_error: 215.0969 - val_regularization_error: 45.4356
Epoch 997/1000
600/600 [=====] - 71s 118ms/step - loss: 88.2379 - reconstruction_error: 41.6791 - regularization_error: 46.5588 - val_loss: 257.7654 - val_reconstruction_error: 212.2665 - val_regularization_error: 45.4988
Epoch 998/1000
600/600 [=====] - 69s 115ms/step - loss: 88.4019 - reconstruction_error: 41.7399 - regularization_error: 46.6619 - val_loss: 258.4478 - val_reconstruction_error: 213.3749 - val_regularization_error: 45.0730
Epoch 999/1000
600/600 [=====] - 82s 136ms/step - loss: 88.4073 - reconstruction_error: 41.7849 - regularization_error: 46.6224 - val_loss: 257.1942 - val_reconstruction_error: 211.4682 - val_regularization_error: 45.7261
Epoch 1000/1000
600/600 [=====] - 71s 118ms/step - loss: 88.5017 - reconstruction_error: 41.8357 - regularization_error: 46.6660 - val_loss: 258.8911 - val_reconstruction_error: 213.4931 - val_regularization_error: 45.3979

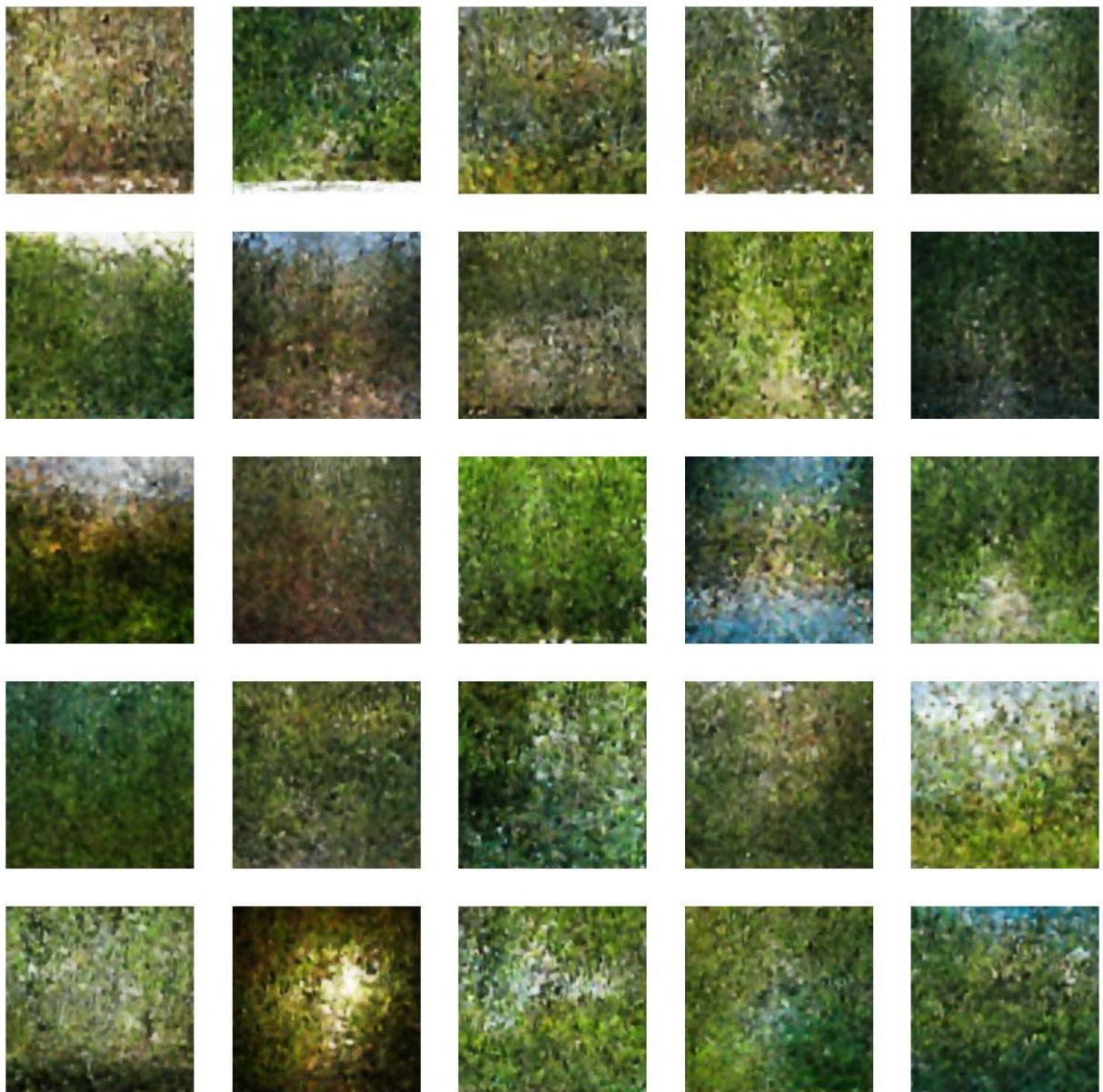


Landscape Generation

Coasts

**Deserts**

**Forests**

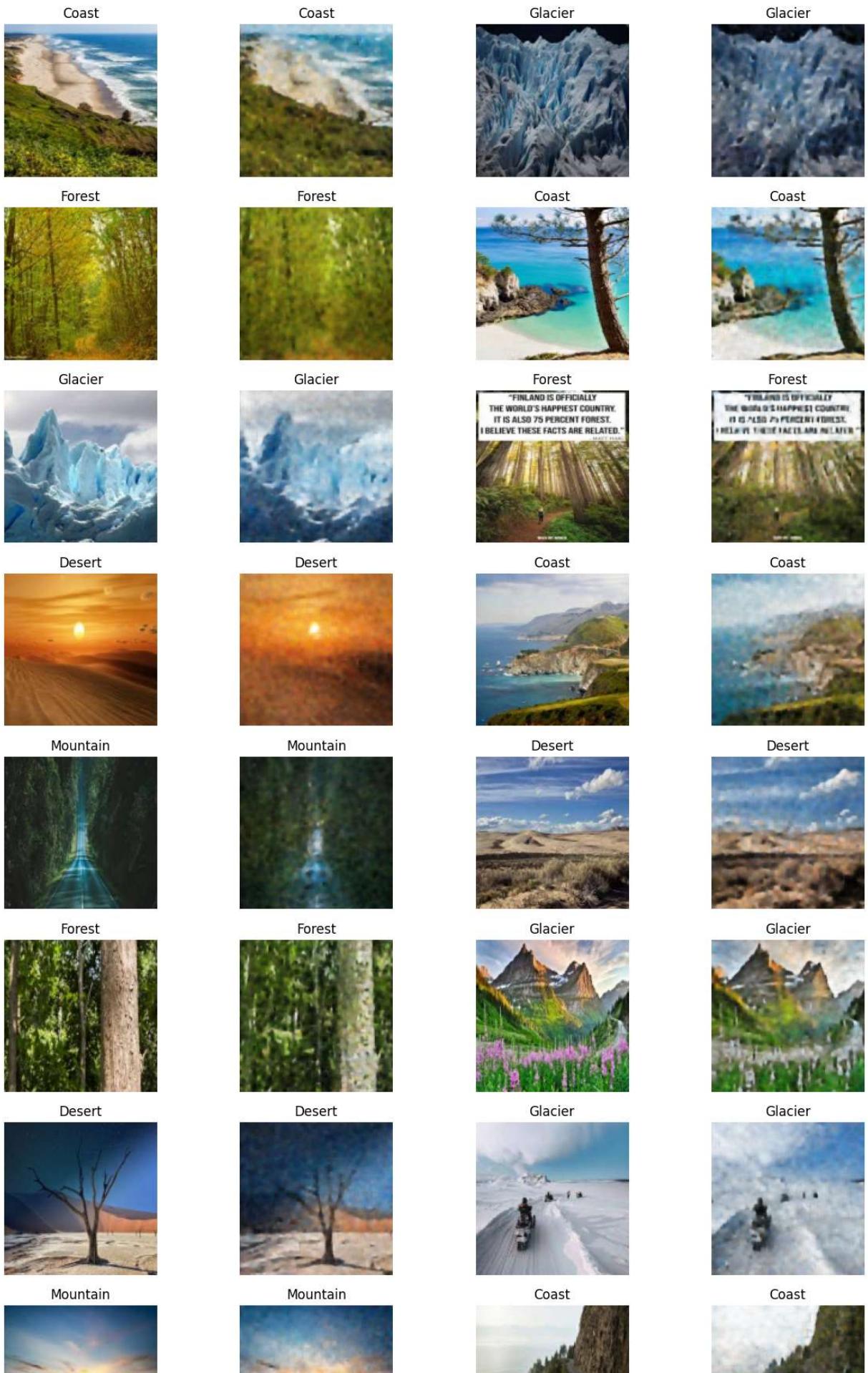
**Glaciers**



Mountains



Reconstruction





Performance Summary

[2023-12-01 09:32:53.311673]: Configuration
 [2023-12-01 09:32:53.311803]: - Preprocessing:
 [2023-12-01 09:32:53.311838]: - Dataset Size: 12000
 [2023-12-01 09:32:53.311872]: - Dataset Labels: {'Coast': 0, 'Desert': 1, 'Forest': 2, 'Glacier': 3, 'Mountain': 4}
 [2023-12-01 09:32:53.461356]: - Image Size: (128, 128, 3)
 [2023-12-01 09:32:53.664658]: - Label Size: (5,)
 [2023-12-01 09:32:53.666293]: - Augmentations:
 [2023-12-01 09:32:53.666492]: - Grayscale: No
 [2023-12-01 09:32:53.666598]: - Cut Out: No
 [2023-12-01 09:32:53.666943]: - Architecture:
 [2023-12-01 09:32:53.667036]: - Condition Size: 5
 [2023-12-01 09:32:53.667128]: - Code Size: 64
 [2023-12-01 09:32:53.675382]: - CNN Activation: relu
 [2023-12-01 09:32:53.675538]: - Latent Activation: None
 [2023-12-01 09:32:53.675604]: - Output Activation: sigmoid
 [2023-12-01 09:32:53.675802]: - Training:
 [2023-12-01 09:32:53.675912]: - Training Set Size: 9600
 [2023-12-01 09:32:53.676053]: - Validation Size: 1200
 [2023-12-01 09:32:53.676149]: - Test Size: 1200
 [2023-12-01 09:32:53.676208]: - Shuffle Size: 1024
 [2023-12-01 09:32:53.676734]: - Batch Size: 16
 [2023-12-01 09:32:53.676899]: - Max Epochs: 1000
 [2023-12-01 09:32:53.677000]: - Patience: 200
 [2023-12-01 09:32:53.677172]: - KL Coefficient: 1
 [2023-12-01 09:32:53.691307]: - Optimizer: <keras.src.optimizers.adam.Adam object at 0x7fa79c26ce80>
 [2023-12-01 09:32:53.692733]: - Learning Rate: 0.001
 [2023-12-01 09:32:53.693532]: - Pre-trained: Yes

[2023-12-01 09:32:53.693693]: Reconstruction & Regularization
 [2023-12-01 09:32:53.693948]: Training loss: 88.511597
 [2023-12-01 09:32:53.696909]: - Reconstruction Error: 41.736599
 [2023-12-01 09:32:53.697083]: - Regularization Error: 46.774956
 [2023-12-01 09:32:53.697229]: Validation loss: 258.920105
 [2023-12-01 09:32:53.697371]: - Reconstruction Error: 213.520172
 [2023-12-01 09:32:53.697458]: - Regularization Error: 45.400002
 [2023-12-01 09:32:53.697545]: Test loss: 258.619141
 [2023-12-01 09:32:53.697654]: - Reconstruction Error: 213.513275
 [2023-12-01 09:32:53.697740]: - Regularization Error: 45.105869

[2023-12-01 09:32:53.697884]: Generation Quality
 [2023-12-01 09:32:53.704738]: Coast | accuracy: 3.91% | loss: 19.771
 [2023-12-01 09:32:53.705518]: Desert | accuracy: 74.22% | loss: 2.892
 [2023-12-01 09:32:53.705692]: Forest | accuracy: 98.44% | loss: 0.031
 [2023-12-01 09:32:53.705835]: Glacier | accuracy: 35.16% | loss: 9.539
 [2023-12-01 09:32:53.705975]: Mountain | accuracy: 0.78% | loss: 27.472
 [2023-12-01 09:32:53.706137]: -----
 [2023-12-01 09:32:53.706306]: Average | accuracy: 42.50% | loss: 11.941