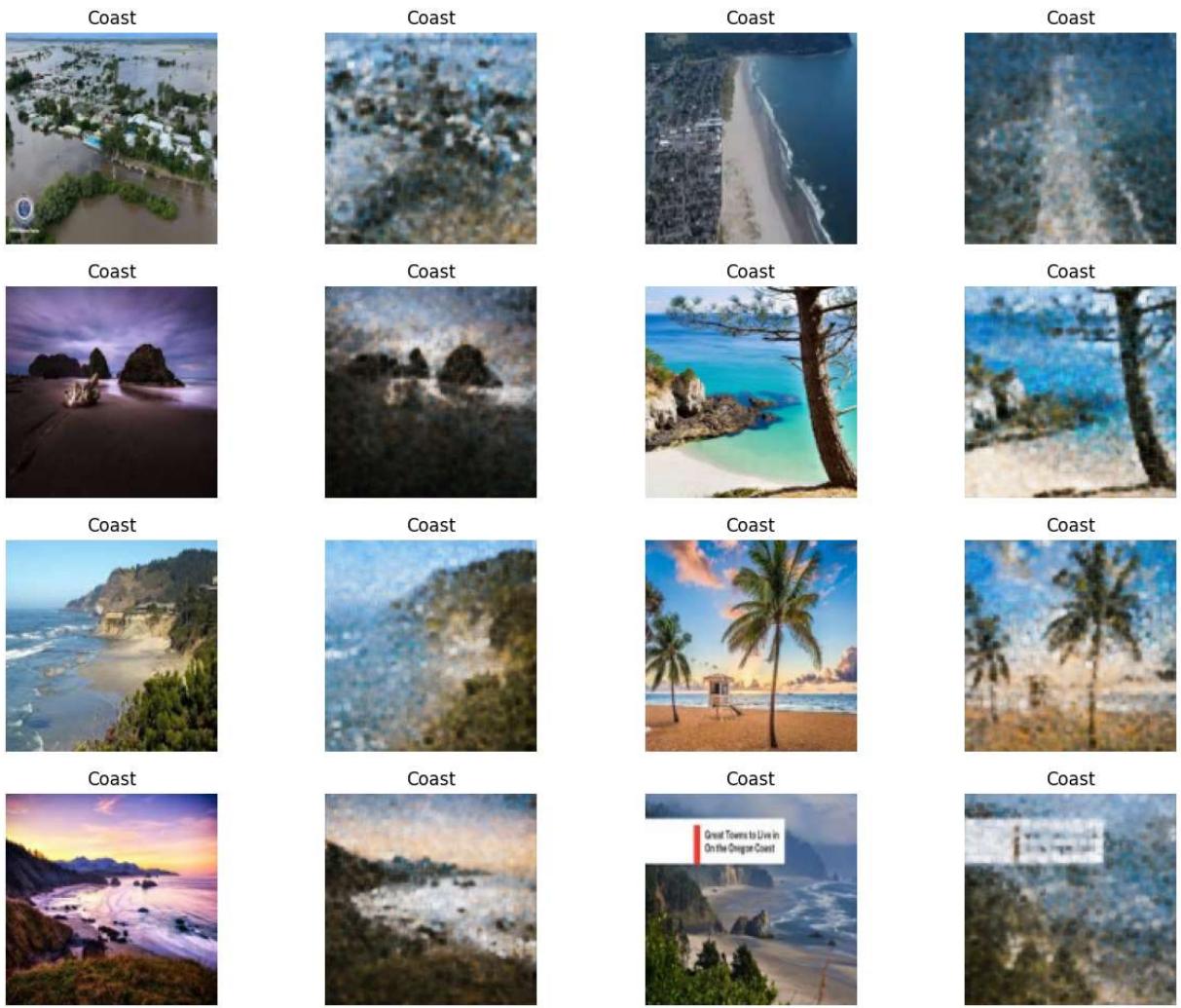
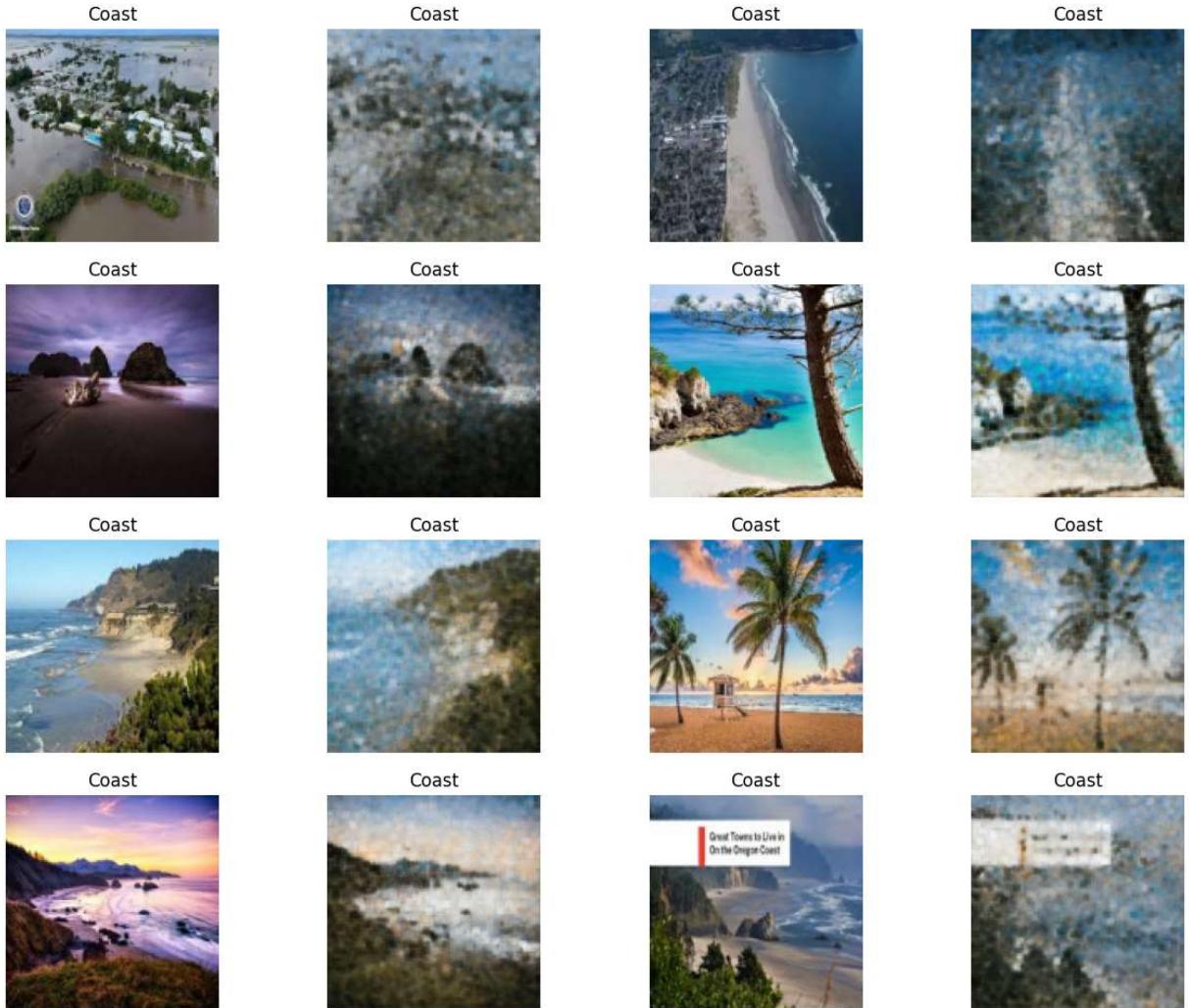


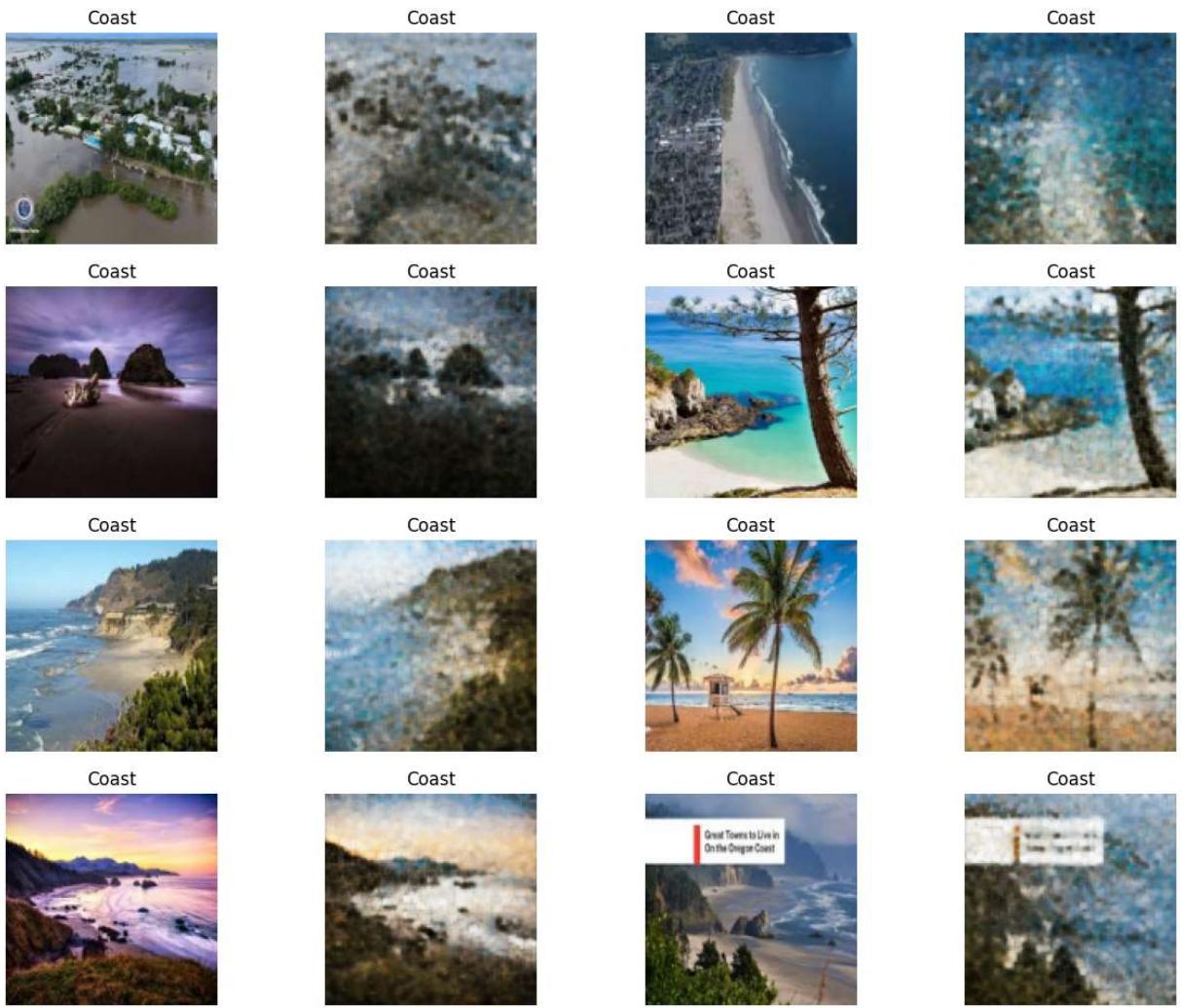
```
120/120 [=====] - 21s 170ms/step - loss: 41.8836 - reconstruction_error: 20.4292 - regularization_error: 21.4544 - val_loss: 79.5708 - val_reconstruction_error: 59.9130 - val_regularization_error: 19.6578
Epoch 502/1000
120/120 [=====] - 15s 123ms/step - loss: 41.6330 - reconstruction_error: 20.1920 - regularization_error: 21.4409 - val_loss: 79.7629 - val_reconstruction_error: 60.2851 - val_regularization_error: 19.4778
Epoch 503/1000
120/120 [=====] - 15s 124ms/step - loss: 41.6959 - reconstruction_error: 20.2967 - regularization_error: 21.3992 - val_loss: 80.6371 - val_reconstruction_error: 61.3328 - val_regularization_error: 19.3043
Epoch 504/1000
120/120 [=====] - 17s 143ms/step - loss: 41.8724 - reconstruction_error: 20.3043 - regularization_error: 21.5682 - val_loss: 80.3872 - val_reconstruction_error: 60.6070 - val_regularization_error: 19.7801
Epoch 505/1000
120/120 [=====] - 20s 167ms/step - loss: 41.9724 - reconstruction_error: 20.4319 - regularization_error: 21.5404 - val_loss: 79.4974 - val_reconstruction_error: 59.4414 - val_regularization_error: 20.0559
Epoch 506/1000
120/120 [=====] - 20s 164ms/step - loss: 41.5545 - reconstruction_error: 20.1469 - regularization_error: 21.4076 - val_loss: 80.5400 - val_reconstruction_error: 60.2272 - val_regularization_error: 20.3128
Epoch 507/1000
120/120 [=====] - 15s 124ms/step - loss: 41.7322 - reconstruction_error: 20.3000 - regularization_error: 21.4322 - val_loss: 79.8744 - val_reconstruction_error: 59.7643 - val_regularization_error: 20.1100
Epoch 508/1000
120/120 [=====] - 18s 146ms/step - loss: 41.8052 - reconstruction_error: 20.2160 - regularization_error: 21.5893 - val_loss: 80.1309 - val_reconstruction_error: 59.7433 - val_regularization_error: 20.3876
Epoch 509/1000
120/120 [=====] - 16s 134ms/step - loss: 41.7640 - reconstruction_error: 20.1630 - regularization_error: 21.6011 - val_loss: 79.1511 - val_reconstruction_error: 60.0791 - val_regularization_error: 19.0720
Epoch 510/1000
120/120 [=====] - 15s 124ms/step - loss: 42.1169 - reconstruction_error: 20.5748 - regularization_error: 21.5421 - val_loss: 81.0823 - val_reconstruction_error: 60.4485 - val_regularization_error: 20.6338
Epoch 511/1000
120/120 [=====] - ETA: 0s - loss: 41.7556 - reconstruction_error: 20.1222 - regularization_error: 21.6334
[2023-12-01 12:15:37.201775]: Reconstructing images for epoch 511 ...
```



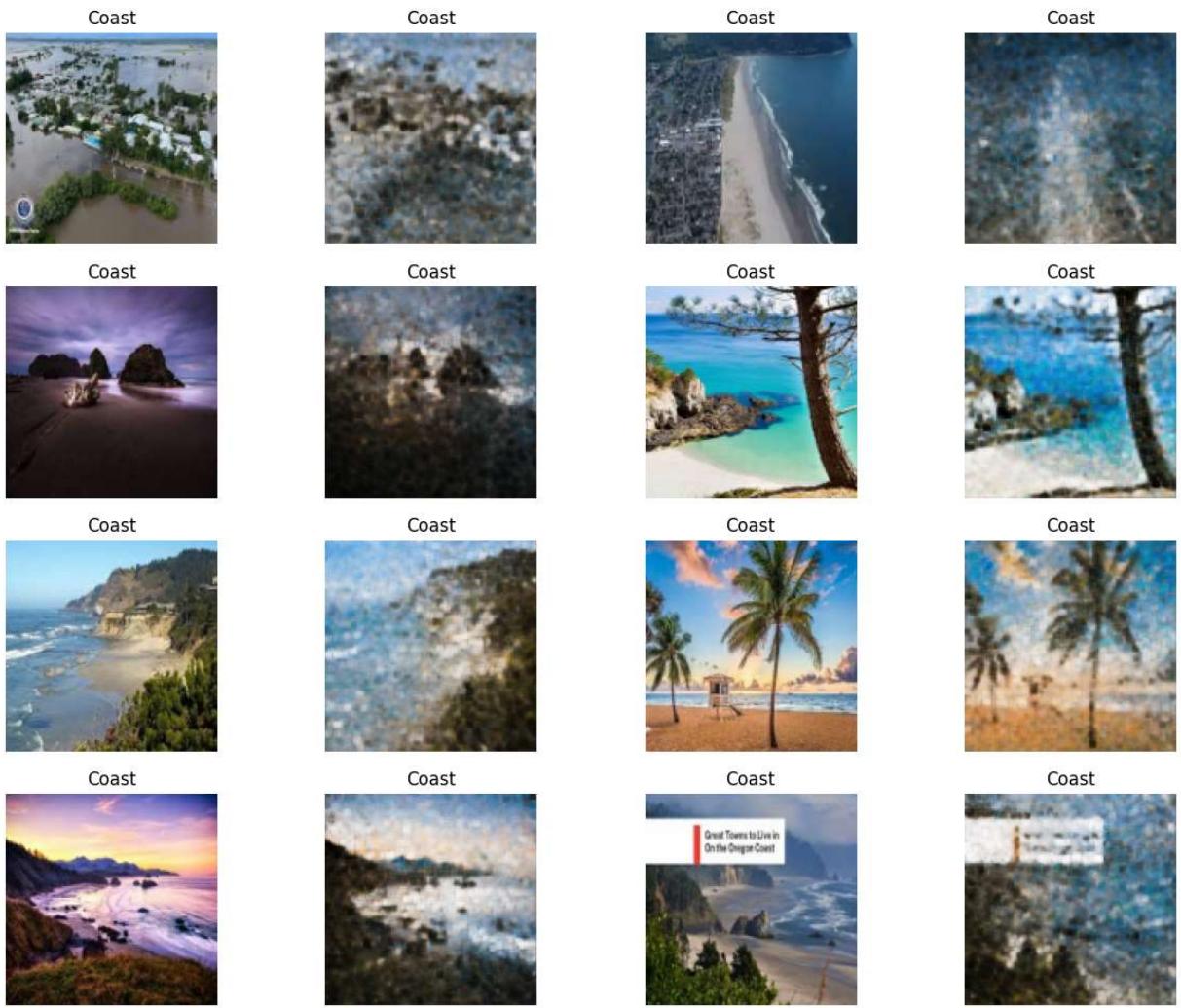
```
120/120 [=====] - 20s 168ms/step - loss: 41.7556 - reconstruction_error: 20.1222 - regularization_error: 21.6334 - val_loss: 80.6110 - val_reconstruction_error: 59.9914 - val_regularization_error: 20.6195
Epoch 512/1000
120/120 [=====] - 17s 143ms/step - loss: 41.8713 - reconstruction_error: 20.2594 - regularization_error: 21.6119 - val_loss: 81.6027 - val_reconstruction_error: 61.2137 - val_regularization_error: 20.3890
Epoch 513/1000
120/120 [=====] - 20s 160ms/step - loss: 41.6804 - reconstruction_error: 20.0466 - regularization_error: 21.6337 - val_loss: 81.3388 - val_reconstruction_error: 60.3056 - val_regularization_error: 21.0332
Epoch 514/1000
120/120 [=====] - 18s 151ms/step - loss: 41.7984 - reconstruction_error: 20.2781 - regularization_error: 21.5203 - val_loss: 81.6908 - val_reconstruction_error: 60.3003 - val_regularization_error: 21.3905
Epoch 515/1000
120/120 [=====] - 17s 138ms/step - loss: 41.8781 - reconstruction_error: 20.2018 - regularization_error: 21.6763 - val_loss: 79.7686 - val_reconstruction_error: 61.0031 - val_regularization_error: 18.7656
Epoch 516/1000
120/120 [=====] - 19s 153ms/step - loss: 41.8162 - reconstruction_error: 20.2670 - regularization_error: 21.5492 - val_loss: 81.7597 - val_reconstruction_error: 60.9053 - val_regularization_error: 20.8544
Epoch 517/1000
120/120 [=====] - 18s 146ms/step - loss: 41.7325 - reconstruction_error: 20.1613 - regularization_error: 21.5712 - val_loss: 81.0567 - val_reconstruction_error: 60.1327 - val_regularization_error: 20.9240
Epoch 518/1000
120/120 [=====] - 18s 153ms/step - loss: 41.4739 - reconstruction_error: 20.0744 - regularization_error: 21.3995 - val_loss: 79.9862 - val_reconstruction_error: 59.9258 - val_regularization_error: 20.0604
Epoch 519/1000
120/120 [=====] - 14s 112ms/step - loss: 41.9202 - reconstruction_error: 20.3199 - regularization_error: 21.6003 - val_loss: 81.4199 - val_reconstruction_error: 60.4688 - val_regularization_error: 20.9510
Epoch 520/1000
120/120 [=====] - 17s 142ms/step - loss: 41.6556 - reconstruction_error: 20.1819 - regularization_error: 21.4737 - val_loss: 81.0755 - val_reconstruction_error: 59.3894 - val_regularization_error: 21.6861
Epoch 521/1000
120/120 [=====] - ETA: 0s - loss: 41.8021 - reconstruction_error: 20.1203 - regularization_error: 21.6818
[2023-12-01 12:18:36.012917]: Reconstructing images for epoch 521 ...
```



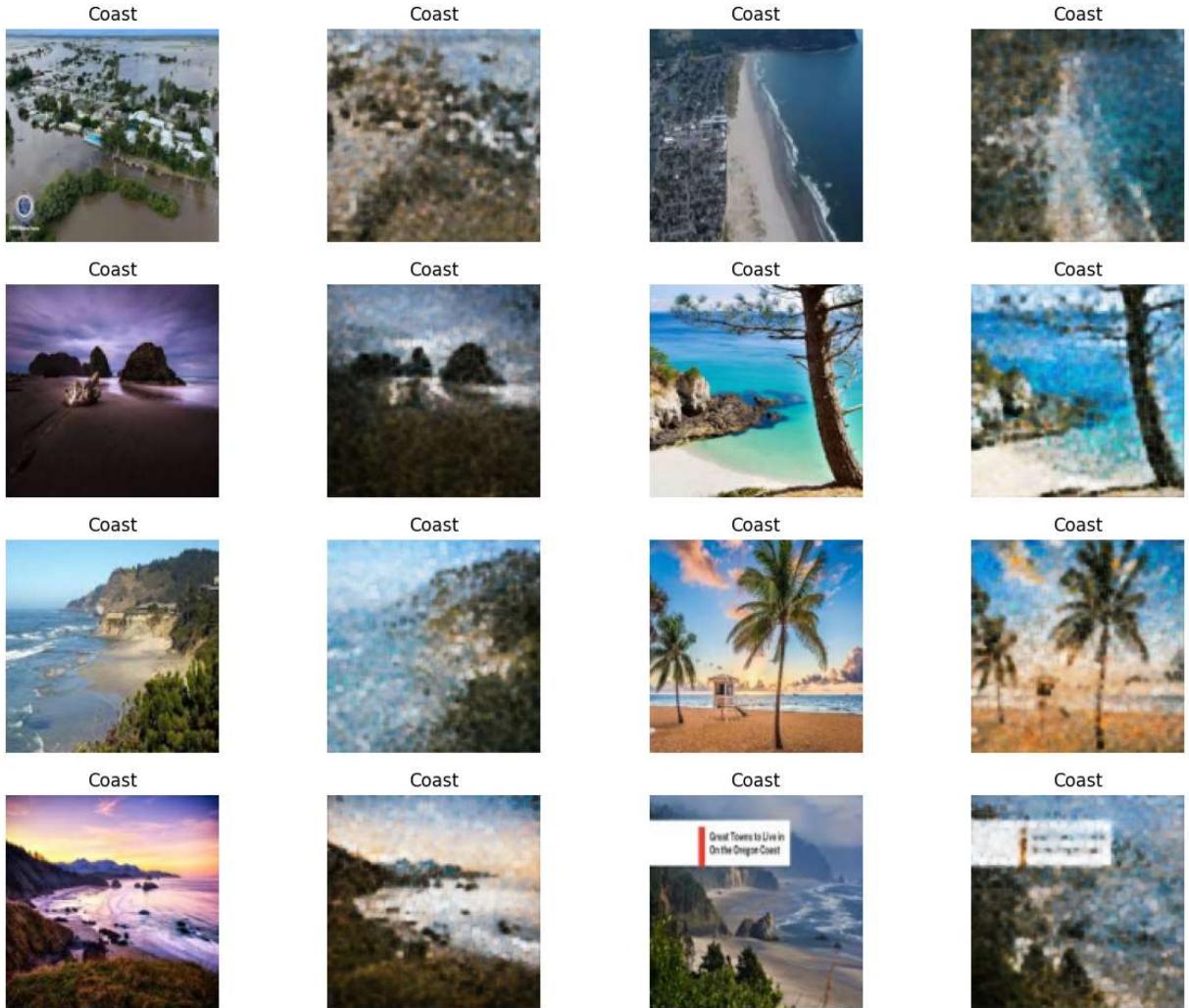
```
120/120 [=====] - 21s 169ms/step - loss: 41.8021 - reconstruction_error: 20.1203 - regularization_error: 21.6818 - val_loss: 79.1554 - val_reconstruction_error: 59.3293 - val_regularization_error: 19.8261
Epoch 522/1000
120/120 [=====] - 13s 109ms/step - loss: 41.5886 - reconstruction_error: 20.0526 - regularization_error: 21.5360 - val_loss: 80.2016 - val_reconstruction_error: 60.0755 - val_regularization_error: 20.1261
Epoch 523/1000
120/120 [=====] - 20s 168ms/step - loss: 41.5456 - reconstruction_error: 19.9771 - regularization_error: 21.5685 - val_loss: 79.8401 - val_reconstruction_error: 59.7353 - val_regularization_error: 20.1049
Epoch 524/1000
120/120 [=====] - 14s 113ms/step - loss: 41.5636 - reconstruction_error: 20.0579 - regularization_error: 21.5057 - val_loss: 81.1983 - val_reconstruction_error: 60.7632 - val_regularization_error: 20.4351
Epoch 525/1000
120/120 [=====] - 17s 138ms/step - loss: 41.7618 - reconstruction_error: 20.1742 - regularization_error: 21.5876 - val_loss: 79.9041 - val_reconstruction_error: 59.7064 - val_regularization_error: 20.1977
Epoch 526/1000
120/120 [=====] - 16s 132ms/step - loss: 41.5956 - reconstruction_error: 20.0194 - regularization_error: 21.5762 - val_loss: 79.5608 - val_reconstruction_error: 60.1481 - val_regularization_error: 19.4128
Epoch 527/1000
120/120 [=====] - 17s 144ms/step - loss: 41.5687 - reconstruction_error: 20.0366 - regularization_error: 21.5321 - val_loss: 79.4753 - val_reconstruction_error: 59.1908 - val_regularization_error: 20.2845
Epoch 528/1000
120/120 [=====] - 17s 139ms/step - loss: 41.6765 - reconstruction_error: 20.0786 - regularization_error: 21.5980 - val_loss: 80.9217 - val_reconstruction_error: 60.6490 - val_regularization_error: 20.2727
Epoch 529/1000
120/120 [=====] - 18s 152ms/step - loss: 41.5363 - reconstruction_error: 19.9329 - regularization_error: 21.6034 - val_loss: 79.4468 - val_reconstruction_error: 59.6509 - val_regularization_error: 19.7959
Epoch 530/1000
120/120 [=====] - 18s 146ms/step - loss: 41.5820 - reconstruction_error: 19.9826 - regularization_error: 21.5994 - val_loss: 80.2343 - val_reconstruction_error: 60.8821 - val_regularization_error: 19.3523
Epoch 531/1000
120/120 [=====] - ETA: 0s - loss: 41.4978 - reconstruction_error: 19.8961 - regularization_error: 21.6017
[2023-12-01 12:21:29.633098]: Reconstructing images for epoch 531 ...
```



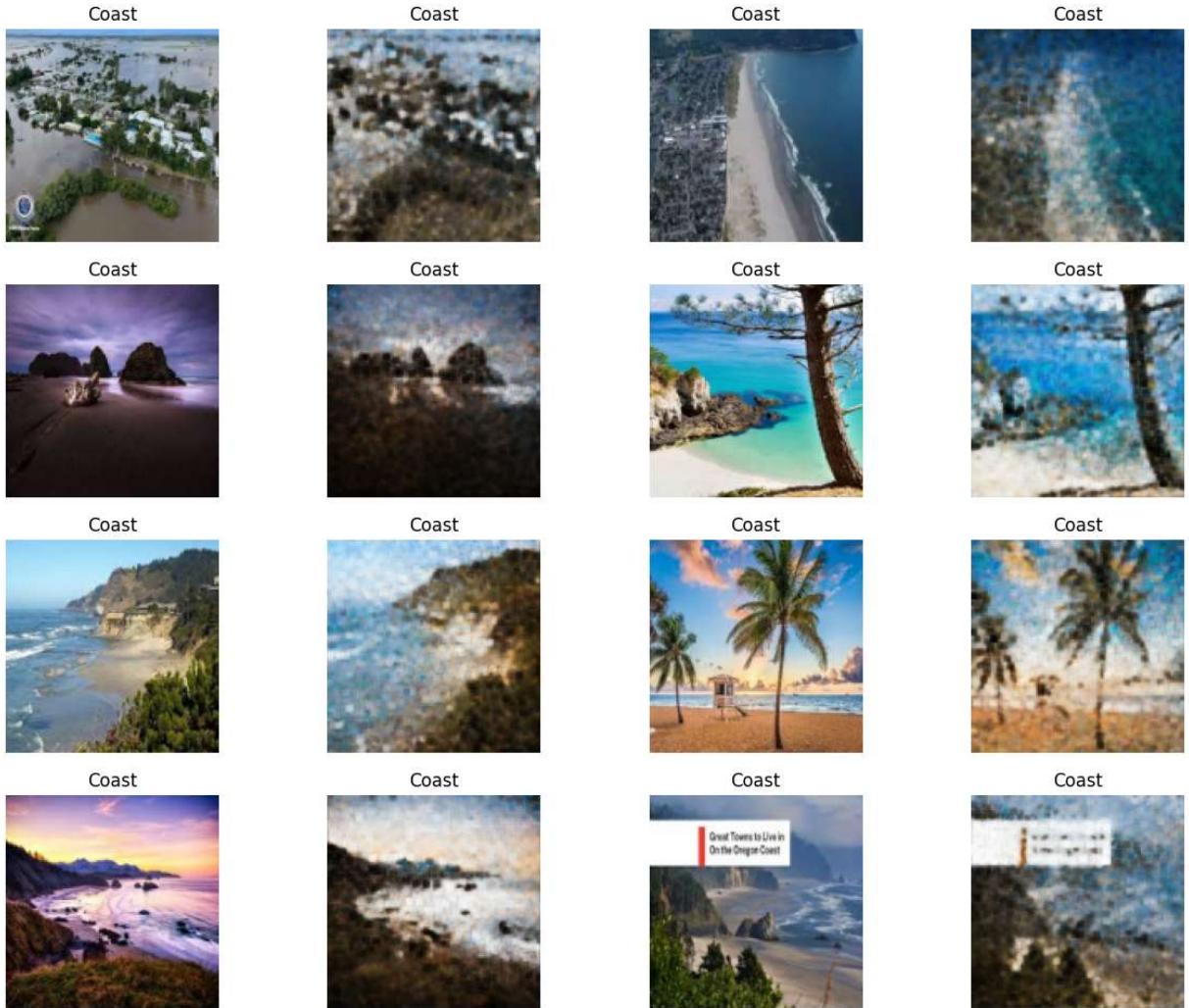
```
120/120 [=====] - 19s 157ms/step - loss: 41.4978 - reconstruction_error: 19.8961 - regularization_error: 21.6017 - val_loss: 80.1081 - val_reconstruction_error: 60.2362 - val_regularization_error: 19.8719
Epoch 532/1000
120/120 [=====] - 16s 137ms/step - loss: 41.3880 - reconstruction_error: 19.9088 - regularization_error: 21.4792 - val_loss: 81.2969 - val_reconstruction_error: 59.9653 - val_regularization_error: 21.3316
Epoch 533/1000
120/120 [=====] - 16s 136ms/step - loss: 41.5532 - reconstruction_error: 19.9876 - regularization_error: 21.5656 - val_loss: 81.4465 - val_reconstruction_error: 60.5184 - val_regularization_error: 20.9282
Epoch 534/1000
120/120 [=====] - 17s 140ms/step - loss: 41.5020 - reconstruction_error: 20.0071 - regularization_error: 21.4949 - val_loss: 82.2490 - val_reconstruction_error: 61.2290 - val_regularization_error: 21.0199
Epoch 535/1000
120/120 [=====] - 17s 141ms/step - loss: 41.3026 - reconstruction_error: 19.9404 - regularization_error: 21.3622 - val_loss: 80.4603 - val_reconstruction_error: 60.2884 - val_regularization_error: 20.1719
Epoch 536/1000
120/120 [=====] - 17s 144ms/step - loss: 41.6352 - reconstruction_error: 20.0947 - regularization_error: 21.5405 - val_loss: 80.9155 - val_reconstruction_error: 60.3427 - val_regularization_error: 20.5728
Epoch 537/1000
120/120 [=====] - 17s 140ms/step - loss: 41.4260 - reconstruction_error: 19.9652 - regularization_error: 21.4607 - val_loss: 80.5485 - val_reconstruction_error: 60.0176 - val_regularization_error: 20.5309
Epoch 538/1000
120/120 [=====] - 18s 145ms/step - loss: 41.6247 - reconstruction_error: 19.9799 - regularization_error: 21.6448 - val_loss: 80.9592 - val_reconstruction_error: 61.1995 - val_regularization_error: 19.7598
Epoch 539/1000
120/120 [=====] - 15s 121ms/step - loss: 41.4214 - reconstruction_error: 19.9345 - regularization_error: 21.4869 - val_loss: 80.6017 - val_reconstruction_error: 60.6611 - val_regularization_error: 19.9406
Epoch 540/1000
120/120 [=====] - 17s 142ms/step - loss: 41.7294 - reconstruction_error: 20.0557 - regularization_error: 21.6737 - val_loss: 82.3867 - val_reconstruction_error: 60.5801 - val_regularization_error: 21.8066
Epoch 541/1000
120/120 [=====] - ETA: 0s - loss: 41.4157 - reconstruction_error: 19.9263 - regularization_error: 21.4895
[2023-12-01 12:24:22.685138]: Reconstructing images for epoch 541 ...
```



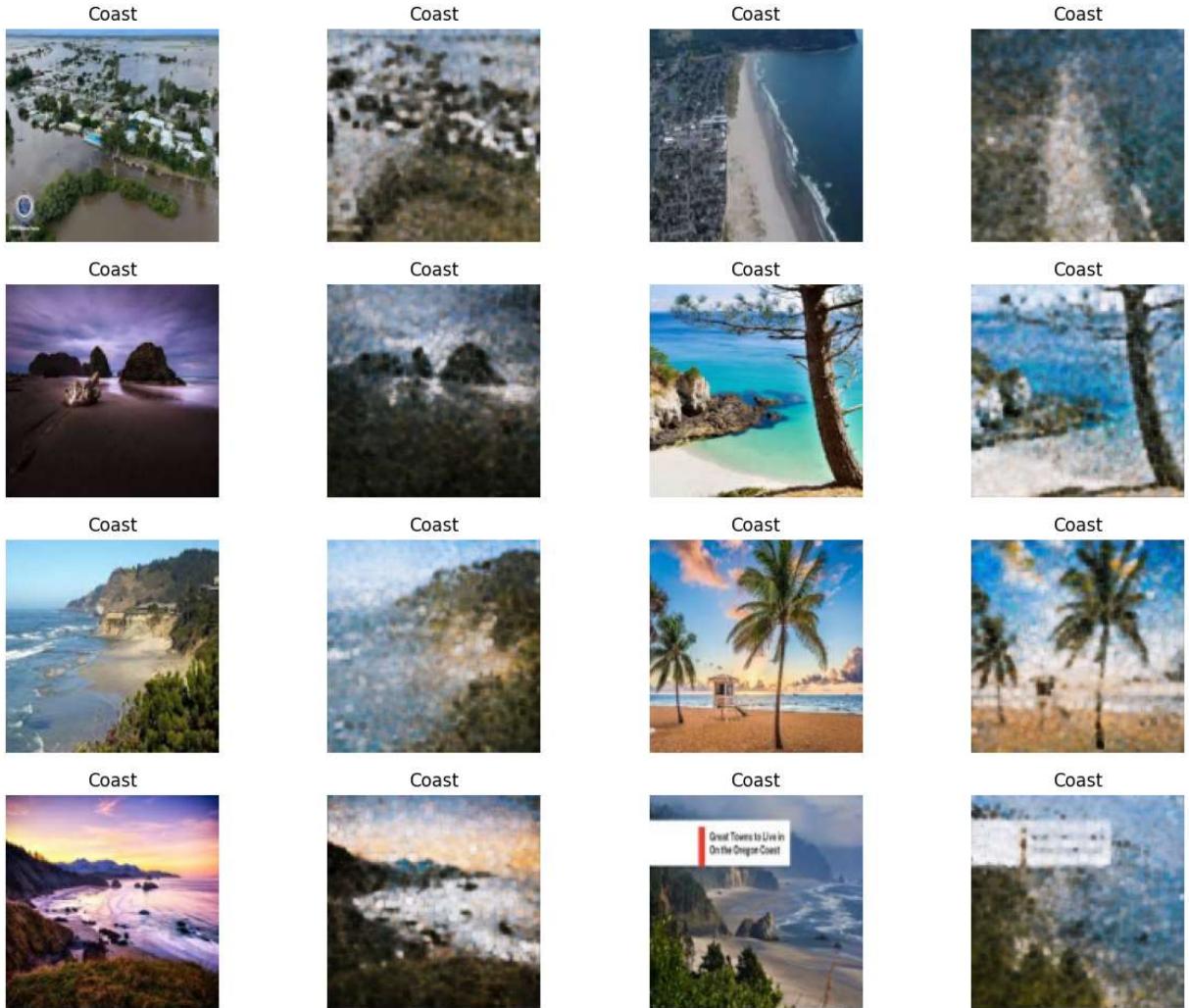
```
120/120 [=====] - 20s 163ms/step - loss: 41.4157 - reconstruction_error: 19.9263 - regularization_error: 21.4895 - val_loss: 81.1099 - val_reconstruction_error: 61.8094 - val_regularization_error: 19.3005
Epoch 542/1000
120/120 [=====] - 16s 134ms/step - loss: 41.3922 - reconstruction_error: 19.8562 - regularization_error: 21.5360 - val_loss: 81.1877 - val_reconstruction_error: 61.1667 - val_regularization_error: 20.0210
Epoch 543/1000
120/120 [=====] - 17s 138ms/step - loss: 41.4213 - reconstruction_error: 19.8729 - regularization_error: 21.5484 - val_loss: 80.6177 - val_reconstruction_error: 60.6824 - val_regularization_error: 19.9352
Epoch 544/1000
120/120 [=====] - 18s 153ms/step - loss: 41.2525 - reconstruction_error: 19.7937 - regularization_error: 21.4588 - val_loss: 79.8625 - val_reconstruction_error: 60.2155 - val_regularization_error: 19.6470
Epoch 545/1000
120/120 [=====] - 14s 118ms/step - loss: 41.3069 - reconstruction_error: 19.7357 - regularization_error: 21.5712 - val_loss: 80.2052 - val_reconstruction_error: 60.3110 - val_regularization_error: 19.8942
Epoch 546/1000
120/120 [=====] - 15s 124ms/step - loss: 41.2941 - reconstruction_error: 19.7708 - regularization_error: 21.5233 - val_loss: 80.0731 - val_reconstruction_error: 60.7714 - val_regularization_error: 19.3016
Epoch 547/1000
120/120 [=====] - 20s 163ms/step - loss: 41.3781 - reconstruction_error: 19.8644 - regularization_error: 21.5138 - val_loss: 81.4674 - val_reconstruction_error: 61.0720 - val_regularization_error: 20.3954
Epoch 548/1000
120/120 [=====] - 18s 146ms/step - loss: 41.2011 - reconstruction_error: 19.7599 - regularization_error: 21.4412 - val_loss: 81.2192 - val_reconstruction_error: 60.8759 - val_regularization_error: 20.3433
Epoch 549/1000
120/120 [=====] - 18s 149ms/step - loss: 41.3819 - reconstruction_error: 19.8725 - regularization_error: 21.5094 - val_loss: 81.6942 - val_reconstruction_error: 59.8132 - val_regularization_error: 21.8810
Epoch 550/1000
120/120 [=====] - 20s 164ms/step - loss: 41.3484 - reconstruction_error: 19.7491 - regularization_error: 21.5993 - val_loss: 79.9618 - val_reconstruction_error: 59.7511 - val_regularization_error: 20.2107
Epoch 551/1000
120/120 [=====] - ETA: 0s - loss: 41.0670 - reconstruction_error: 19.6155 - regularization_error: 21.4516
[2023-12-01 12:27:19.932303]: Reconstructing images for epoch 551 ...
```



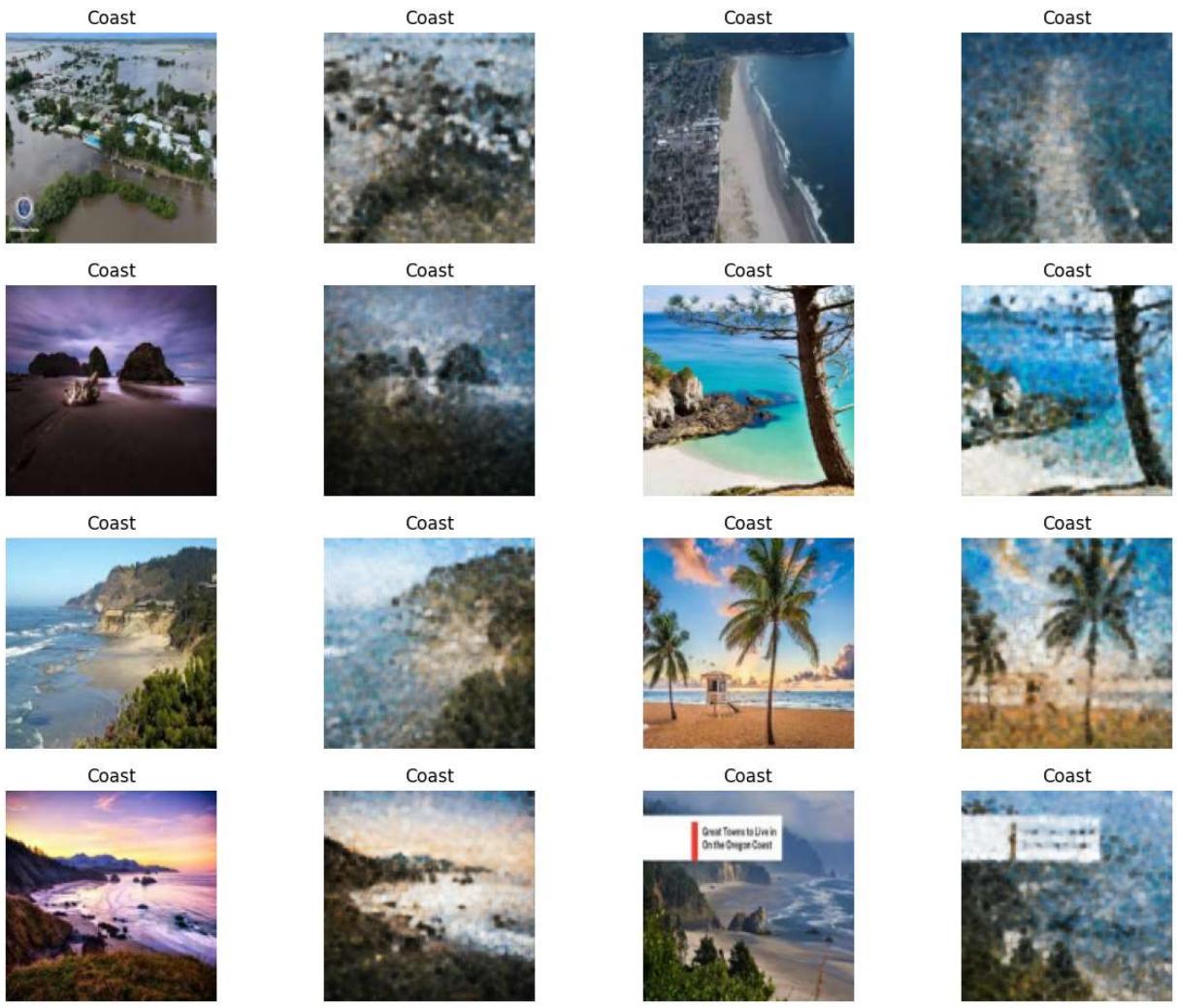
```
120/120 [=====] - 18s 152ms/step - loss: 41.0670 - reconstruction_error: 19.6155 - regularization_error: 21.4516 - val_loss: 80.8151 - val_reconstruction_error: 60.5470 - val_regularization_error: 20.2681
Epoch 552/1000
120/120 [=====] - 18s 151ms/step - loss: 41.5312 - reconstruction_error: 19.9615 - regularization_error: 21.5697 - val_loss: 82.1680 - val_reconstruction_error: 60.9897 - val_regularization_error: 21.1783
Epoch 553/1000
120/120 [=====] - 17s 139ms/step - loss: 41.1790 - reconstruction_error: 19.7146 - regularization_error: 21.4644 - val_loss: 79.8140 - val_reconstruction_error: 59.0574 - val_regularization_error: 20.7566
Epoch 554/1000
120/120 [=====] - 15s 120ms/step - loss: 41.1871 - reconstruction_error: 19.7959 - regularization_error: 21.3912 - val_loss: 79.9491 - val_reconstruction_error: 60.4710 - val_regularization_error: 19.4781
Epoch 555/1000
120/120 [=====] - 18s 144ms/step - loss: 41.1913 - reconstruction_error: 19.7436 - regularization_error: 21.4478 - val_loss: 80.6561 - val_reconstruction_error: 60.5924 - val_regularization_error: 20.0636
Epoch 556/1000
120/120 [=====] - 18s 148ms/step - loss: 41.2623 - reconstruction_error: 19.7650 - regularization_error: 21.4972 - val_loss: 82.1438 - val_reconstruction_error: 61.5505 - val_regularization_error: 20.5933
Epoch 557/1000
120/120 [=====] - 15s 126ms/step - loss: 41.2188 - reconstruction_error: 19.6308 - regularization_error: 21.5880 - val_loss: 80.6287 - val_reconstruction_error: 60.2713 - val_regularization_error: 20.3573
Epoch 558/1000
120/120 [=====] - 19s 155ms/step - loss: 41.1972 - reconstruction_error: 19.7500 - regularization_error: 21.4472 - val_loss: 81.1151 - val_reconstruction_error: 60.9793 - val_regularization_error: 20.1358
Epoch 559/1000
120/120 [=====] - 16s 131ms/step - loss: 41.4342 - reconstruction_error: 19.7929 - regularization_error: 21.6414 - val_loss: 79.3940 - val_reconstruction_error: 59.7159 - val_regularization_error: 19.6781
Epoch 560/1000
120/120 [=====] - 17s 135ms/step - loss: 41.3668 - reconstruction_error: 19.7006 - regularization_error: 21.6661 - val_loss: 81.1564 - val_reconstruction_error: 61.0117 - val_regularization_error: 20.1447
Epoch 561/1000
120/120 [=====] - ETA: 0s - loss: 41.2144 - reconstruction_error: 19.7779 - regularization_error: 21.4365
[2023-12-01 12:30:12.406948]: Reconstructing images for epoch 561 ...
```



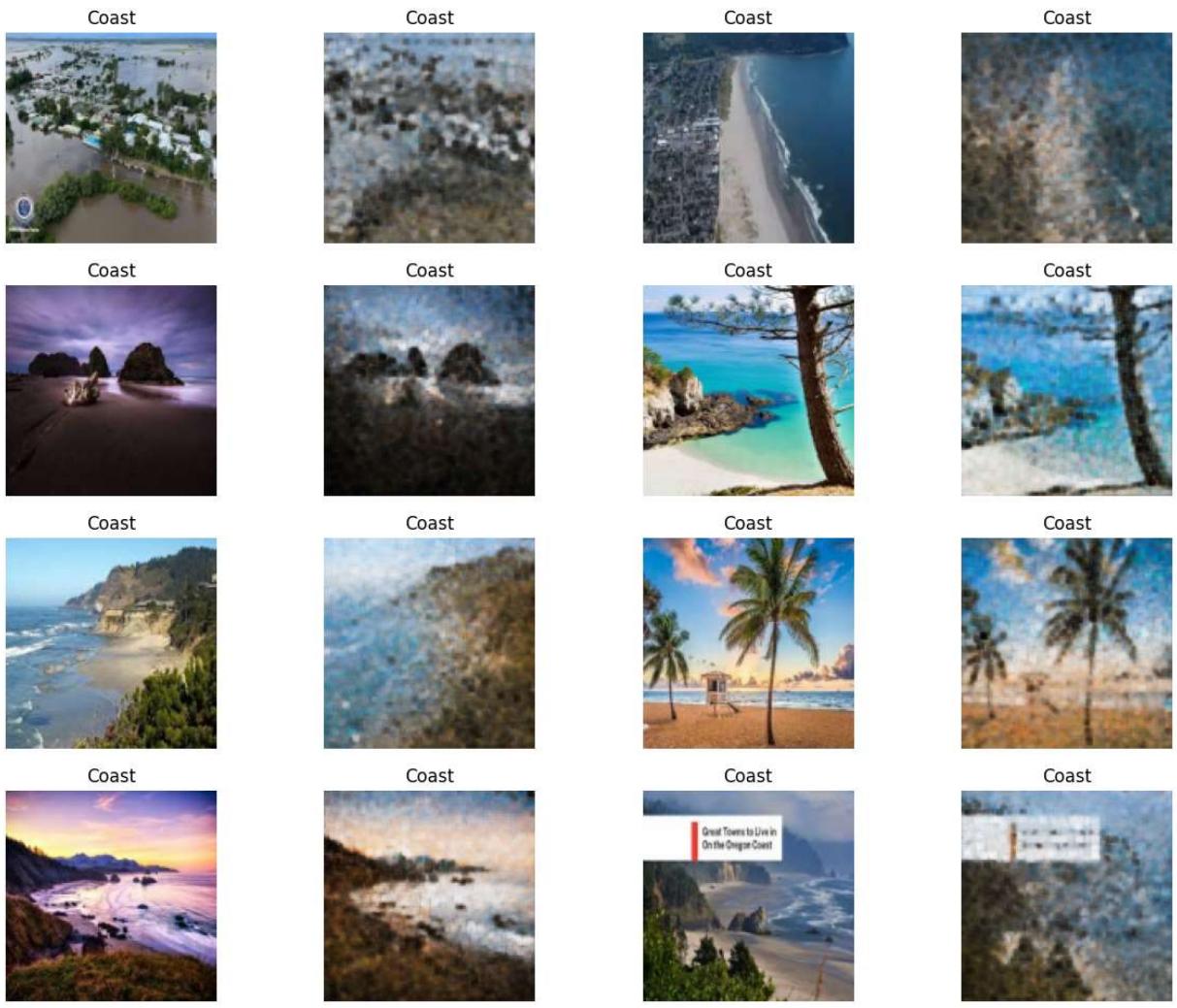
```
120/120 [=====] - 19s 162ms/step - loss: 41.2144 - reconstruction_error: 19.7779 - regularization_error: 21.4365 - val_loss: 80.9979 - val_reconstruction_error: 60.5417 - val_regularization_error: 20.4562
Epoch 562/1000
120/120 [=====] - 17s 141ms/step - loss: 41.2777 - reconstruction_error: 19.7905 - regularization_error: 21.4872 - val_loss: 80.3234 - val_reconstruction_error: 61.4123 - val_regularization_error: 18.9111
Epoch 563/1000
120/120 [=====] - 17s 141ms/step - loss: 41.2984 - reconstruction_error: 19.6639 - regularization_error: 21.6345 - val_loss: 81.7955 - val_reconstruction_error: 60.4371 - val_regularization_error: 21.3584
Epoch 564/1000
120/120 [=====] - 16s 133ms/step - loss: 41.1338 - reconstruction_error: 19.6654 - regularization_error: 21.4684 - val_loss: 80.2325 - val_reconstruction_error: 60.3863 - val_regularization_error: 19.8461
Epoch 565/1000
120/120 [=====] - 18s 145ms/step - loss: 41.0821 - reconstruction_error: 19.6117 - regularization_error: 21.4704 - val_loss: 80.1721 - val_reconstruction_error: 61.0628 - val_regularization_error: 19.1093
Epoch 566/1000
120/120 [=====] - 15s 123ms/step - loss: 41.1374 - reconstruction_error: 19.6852 - regularization_error: 21.4522 - val_loss: 80.5067 - val_reconstruction_error: 60.9455 - val_regularization_error: 19.5612
Epoch 567/1000
120/120 [=====] - 19s 161ms/step - loss: 41.0150 - reconstruction_error: 19.7216 - regularization_error: 21.2935 - val_loss: 80.6406 - val_reconstruction_error: 60.3304 - val_regularization_error: 20.3103
Epoch 568/1000
120/120 [=====] - 18s 152ms/step - loss: 41.1010 - reconstruction_error: 19.6058 - regularization_error: 21.4953 - val_loss: 81.2724 - val_reconstruction_error: 60.7726 - val_regularization_error: 20.4998
Epoch 569/1000
120/120 [=====] - 16s 129ms/step - loss: 41.1175 - reconstruction_error: 19.5636 - regularization_error: 21.5539 - val_loss: 83.5193 - val_reconstruction_error: 61.8118 - val_regularization_error: 21.7074
Epoch 570/1000
120/120 [=====] - 19s 158ms/step - loss: 41.4688 - reconstruction_error: 19.7785 - regularization_error: 21.6902 - val_loss: 80.3324 - val_reconstruction_error: 60.4531 - val_regularization_error: 19.8793
Epoch 571/1000
120/120 [=====] - ETA: 0s - loss: 41.2127 - reconstruction_error: 19.7100 - regularization_error: 21.5027
[2023-12-01 12:33:08.939820]: Reconstructing images for epoch 571 ...
```



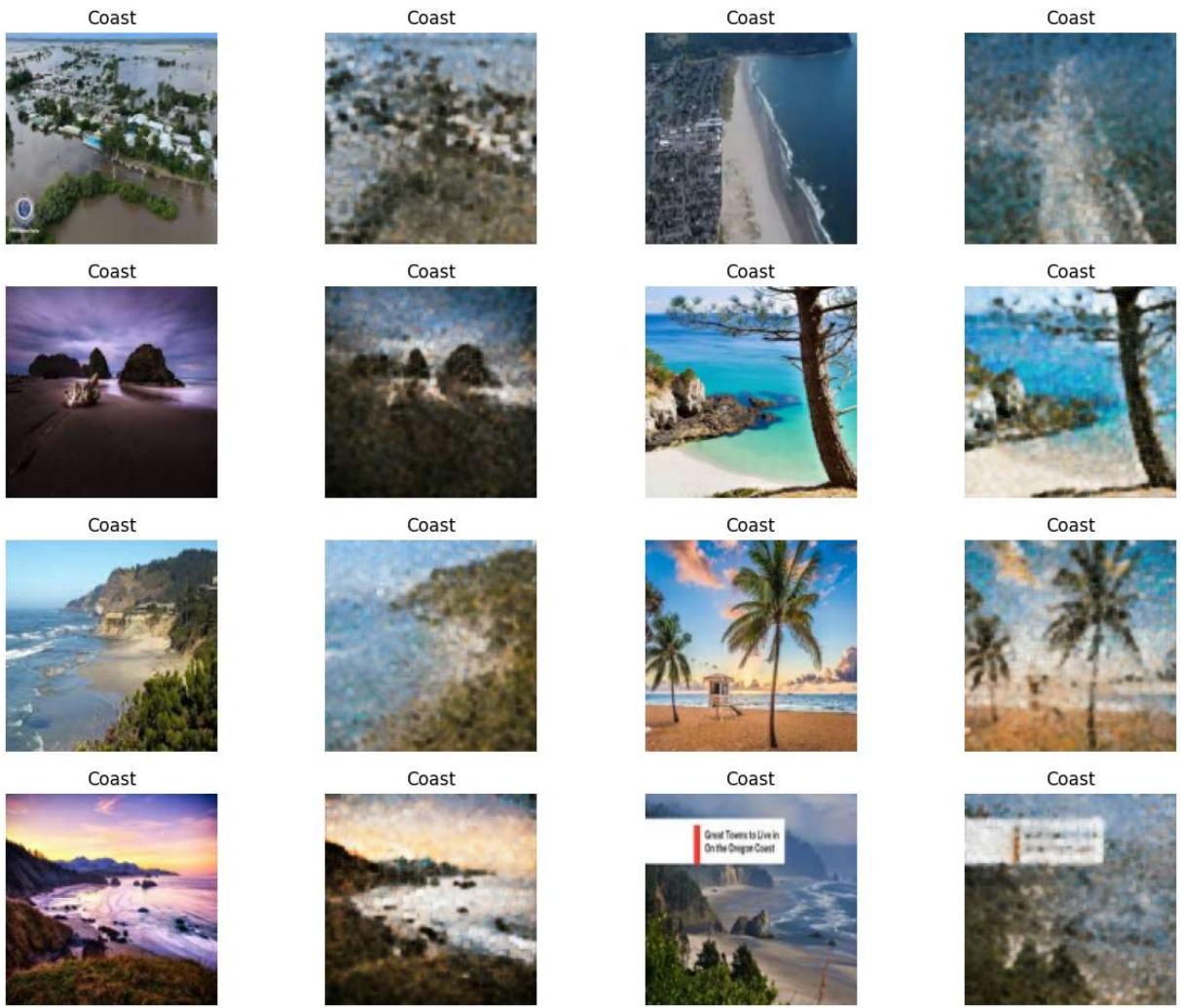
```
120/120 [=====] - 19s 160ms/step - loss: 41.2127 - reconstruction_error: 19.7100 - regularization_error: 21.5027 - val_loss: 82.1362 - val_reconstruction_error: 60.6409 - val_regularization_error: 21.4953
Epoch 572/1000
120/120 [=====] - 13s 107ms/step - loss: 41.2205 - reconstruction_error: 19.6198 - regularization_error: 21.6008 - val_loss: 82.0447 - val_reconstruction_error: 61.5635 - val_regularization_error: 20.4812
Epoch 573/1000
120/120 [=====] - 17s 145ms/step - loss: 41.1809 - reconstruction_error: 19.6159 - regularization_error: 21.5649 - val_loss: 80.4192 - val_reconstruction_error: 61.5861 - val_regularization_error: 18.8330
Epoch 574/1000
120/120 [=====] - 16s 132ms/step - loss: 41.2876 - reconstruction_error: 19.7806 - regularization_error: 21.5069 - val_loss: 80.8697 - val_reconstruction_error: 61.1528 - val_regularization_error: 19.7169
Epoch 575/1000
120/120 [=====] - 17s 142ms/step - loss: 41.1947 - reconstruction_error: 19.6478 - regularization_error: 21.5470 - val_loss: 79.1340 - val_reconstruction_error: 60.7182 - val_regularization_error: 18.4159
Epoch 576/1000
120/120 [=====] - 18s 150ms/step - loss: 41.1266 - reconstruction_error: 19.5722 - regularization_error: 21.5545 - val_loss: 79.3876 - val_reconstruction_error: 59.9716 - val_regularization_error: 19.4160
Epoch 577/1000
120/120 [=====] - 15s 121ms/step - loss: 41.1123 - reconstruction_error: 19.7061 - regularization_error: 21.4062 - val_loss: 81.2189 - val_reconstruction_error: 61.2283 - val_regularization_error: 19.9906
Epoch 578/1000
120/120 [=====] - 13s 108ms/step - loss: 41.1468 - reconstruction_error: 19.5886 - regularization_error: 21.5582 - val_loss: 82.1523 - val_reconstruction_error: 61.5182 - val_regularization_error: 20.6341
Epoch 579/1000
120/120 [=====] - 16s 136ms/step - loss: 40.9361 - reconstruction_error: 19.4800 - regularization_error: 21.4561 - val_loss: 80.3772 - val_reconstruction_error: 60.0981 - val_regularization_error: 20.2790
Epoch 580/1000
120/120 [=====] - 19s 160ms/step - loss: 41.0244 - reconstruction_error: 19.5610 - regularization_error: 21.4634 - val_loss: 79.8888 - val_reconstruction_error: 61.2082 - val_regularization_error: 18.6805
Epoch 581/1000
120/120 [=====] - ETA: 0s - loss: 41.1263 - reconstruction_error: 19.6162 - regularization_error: 21.5101
[2023-12-01 12:35:52.787215]: Reconstructing images for epoch 581 ...
```



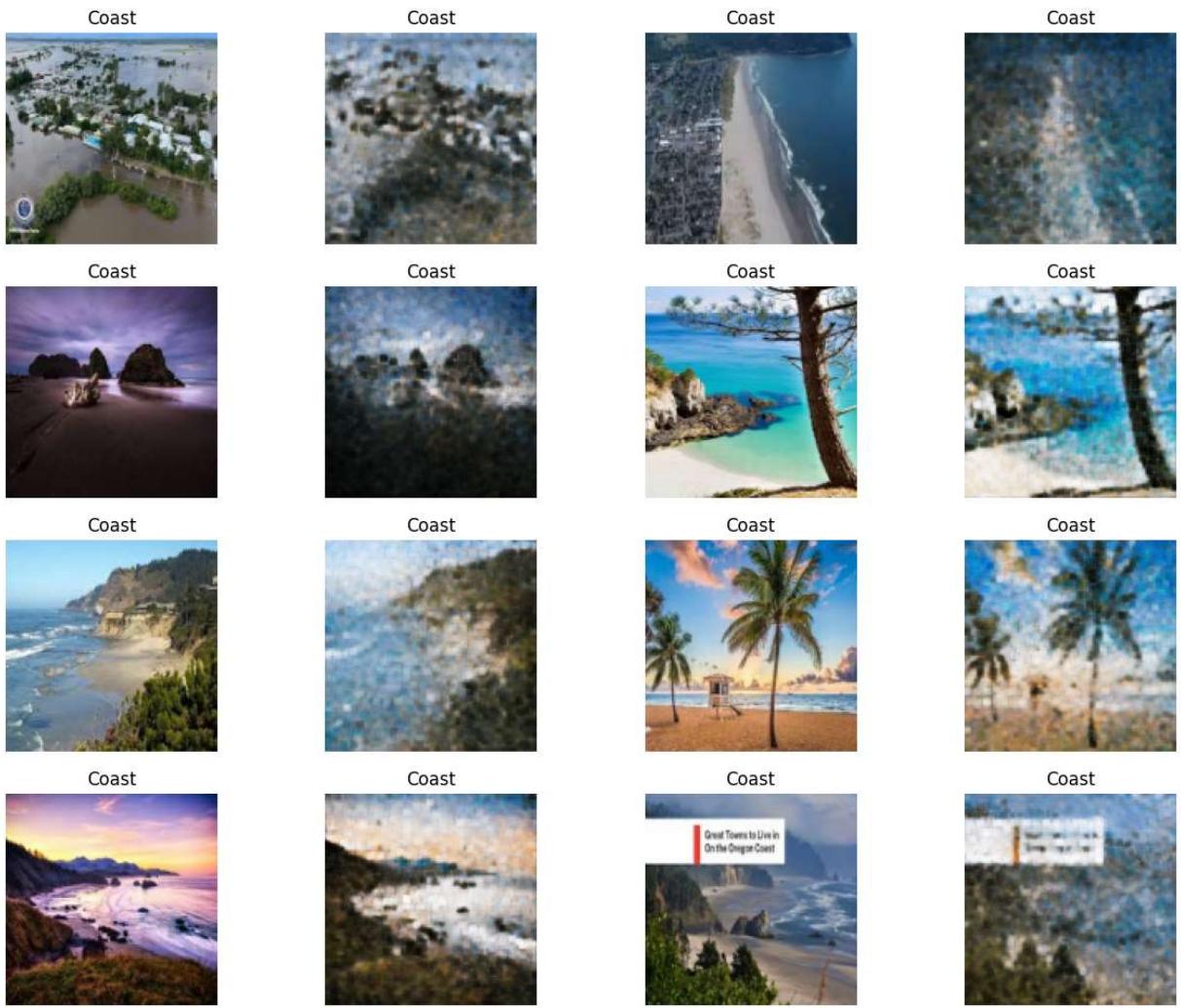
```
120/120 [=====] - 17s 140ms/step - loss: 41.1263 - reconstruction_error: 19.6162 - regularization_error: 21.5101 - val_loss: 80.9837 - val_reconstruction_error: 61.8618 - val_regularization_error: 19.1219
Epoch 582/1000
120/120 [=====] - 17s 140ms/step - loss: 41.0962 - reconstruction_error: 19.6983 - regularization_error: 21.3979 - val_loss: 79.4727 - val_reconstruction_error: 60.2656 - val_regularization_error: 19.2070
Epoch 583/1000
120/120 [=====] - 17s 140ms/step - loss: 40.9884 - reconstruction_error: 19.5704 - regularization_error: 21.4180 - val_loss: 80.9885 - val_reconstruction_error: 60.9997 - val_regularization_error: 19.9888
Epoch 584/1000
120/120 [=====] - 16s 136ms/step - loss: 40.8691 - reconstruction_error: 19.3351 - regularization_error: 21.5339 - val_loss: 80.7215 - val_reconstruction_error: 60.1555 - val_regularization_error: 20.5660
Epoch 585/1000
120/120 [=====] - 16s 135ms/step - loss: 41.3445 - reconstruction_error: 19.6812 - regularization_error: 21.6633 - val_loss: 80.5370 - val_reconstruction_error: 60.0885 - val_regularization_error: 20.4486
Epoch 586/1000
120/120 [=====] - 18s 149ms/step - loss: 40.8841 - reconstruction_error: 19.3521 - regularization_error: 21.5321 - val_loss: 81.9815 - val_reconstruction_error: 62.3688 - val_regularization_error: 19.6127
Epoch 587/1000
120/120 [=====] - 17s 138ms/step - loss: 40.7589 - reconstruction_error: 19.4000 - regularization_error: 21.3589 - val_loss: 81.0594 - val_reconstruction_error: 60.5670 - val_regularization_error: 20.4924
Epoch 588/1000
120/120 [=====] - 17s 142ms/step - loss: 40.8513 - reconstruction_error: 19.3638 - regularization_error: 21.4875 - val_loss: 81.0987 - val_reconstruction_error: 60.9667 - val_regularization_error: 20.1321
Epoch 589/1000
120/120 [=====] - 17s 138ms/step - loss: 41.2497 - reconstruction_error: 19.6126 - regularization_error: 21.6372 - val_loss: 82.3696 - val_reconstruction_error: 60.3976 - val_regularization_error: 21.9721
Epoch 590/1000
120/120 [=====] - 17s 138ms/step - loss: 40.9184 - reconstruction_error: 19.4492 - regularization_error: 21.4692 - val_loss: 80.8193 - val_reconstruction_error: 61.2732 - val_regularization_error: 19.5461
Epoch 591/1000
120/120 [=====] - ETA: 0s - loss: 40.9137 - reconstruction_error: 19.4438 - regularization_error: 21.4699
[2023-12-01 12:38:44.002647]: Reconstructing images for epoch 591 ...
```



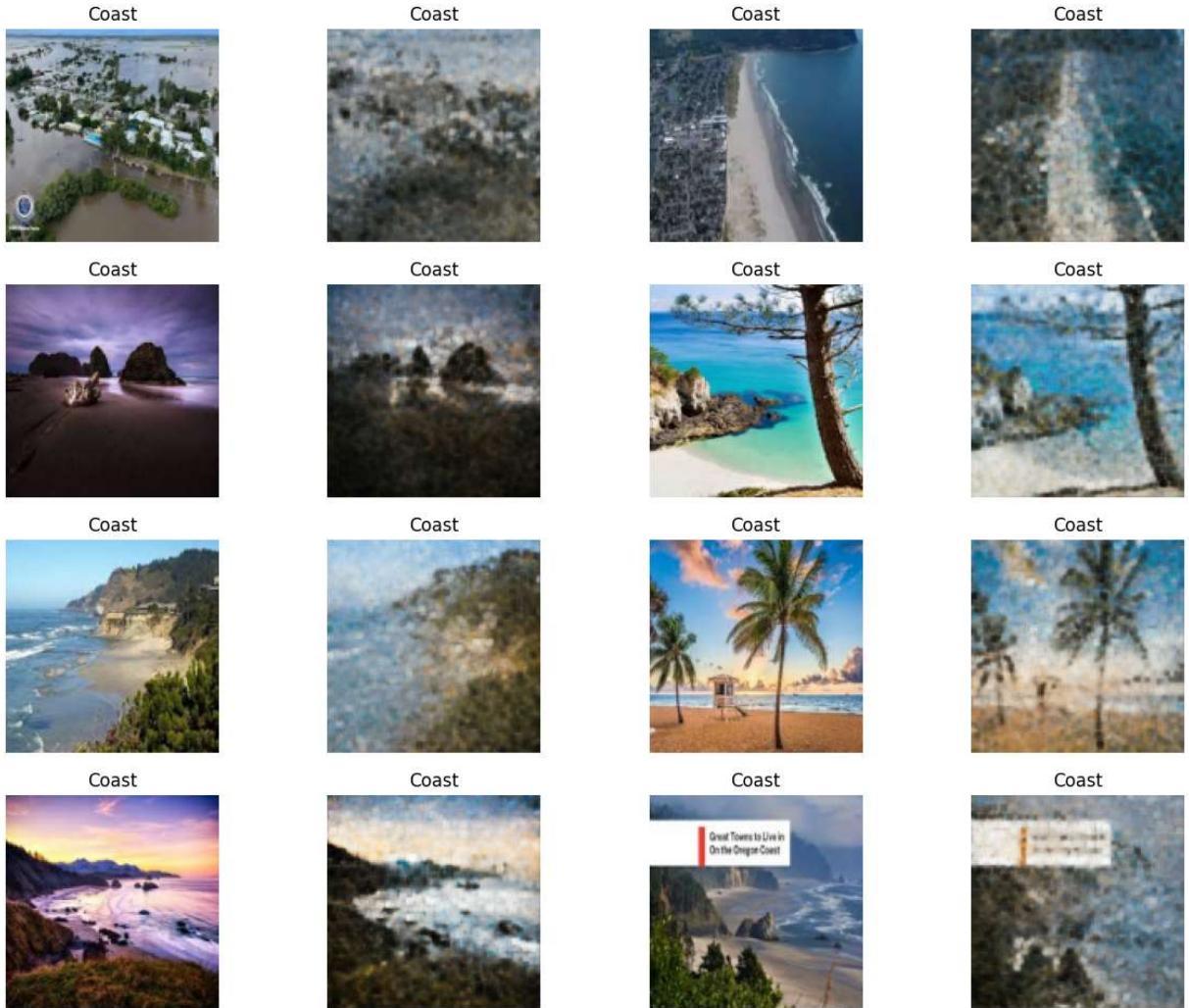
```
120/120 [=====] - 18s 152ms/step - loss: 40.9137 - reconstruction_error: 19.4438 - regularization_error: 21.4699 - val_loss: 80.3855 - val_reconstruction_error: 60.4736 - val_regularization_error: 19.9118
Epoch 592/1000
120/120 [=====] - 17s 144ms/step - loss: 41.0221 - reconstruction_error: 19.5397 - regularization_error: 21.4824 - val_loss: 81.2250 - val_reconstruction_error: 60.0214 - val_regularization_error: 21.2036
Epoch 593/1000
120/120 [=====] - 17s 142ms/step - loss: 40.7705 - reconstruction_error: 19.3491 - regularization_error: 21.4214 - val_loss: 80.3458 - val_reconstruction_error: 60.5186 - val_regularization_error: 19.8272
Epoch 594/1000
120/120 [=====] - 17s 139ms/step - loss: 40.9665 - reconstruction_error: 19.5127 - regularization_error: 21.4538 - val_loss: 82.1503 - val_reconstruction_error: 62.4853 - val_regularization_error: 19.6649
Epoch 595/1000
120/120 [=====] - 17s 145ms/step - loss: 40.8429 - reconstruction_error: 19.4170 - regularization_error: 21.4258 - val_loss: 80.9102 - val_reconstruction_error: 61.0944 - val_regularization_error: 19.8159
Epoch 596/1000
120/120 [=====] - 19s 152ms/step - loss: 41.0116 - reconstruction_error: 19.5696 - regularization_error: 21.4420 - val_loss: 80.4168 - val_reconstruction_error: 60.4341 - val_regularization_error: 19.9827
Epoch 597/1000
120/120 [=====] - 18s 145ms/step - loss: 41.0302 - reconstruction_error: 19.4754 - regularization_error: 21.5547 - val_loss: 81.3297 - val_reconstruction_error: 61.3296 - val_regularization_error: 20.0001
Epoch 598/1000
120/120 [=====] - 14s 117ms/step - loss: 40.9426 - reconstruction_error: 19.5549 - regularization_error: 21.3878 - val_loss: 81.9283 - val_reconstruction_error: 61.1837 - val_regularization_error: 20.7445
Epoch 599/1000
120/120 [=====] - 19s 155ms/step - loss: 40.6722 - reconstruction_error: 19.2874 - regularization_error: 21.3848 - val_loss: 80.2081 - val_reconstruction_error: 60.5256 - val_regularization_error: 19.6825
Epoch 600/1000
120/120 [=====] - 19s 160ms/step - loss: 40.8602 - reconstruction_error: 19.3850 - regularization_error: 21.4752 - val_loss: 81.1604 - val_reconstruction_error: 60.6607 - val_regularization_error: 20.4997
Epoch 601/1000
120/120 [=====] - ETA: 0s - loss: 40.8735 - reconstruction_error: 19.3817 - regularization_error: 21.4919
[2023-12-01 12:41:42.644283]: Reconstructing images for epoch 601 ...
```



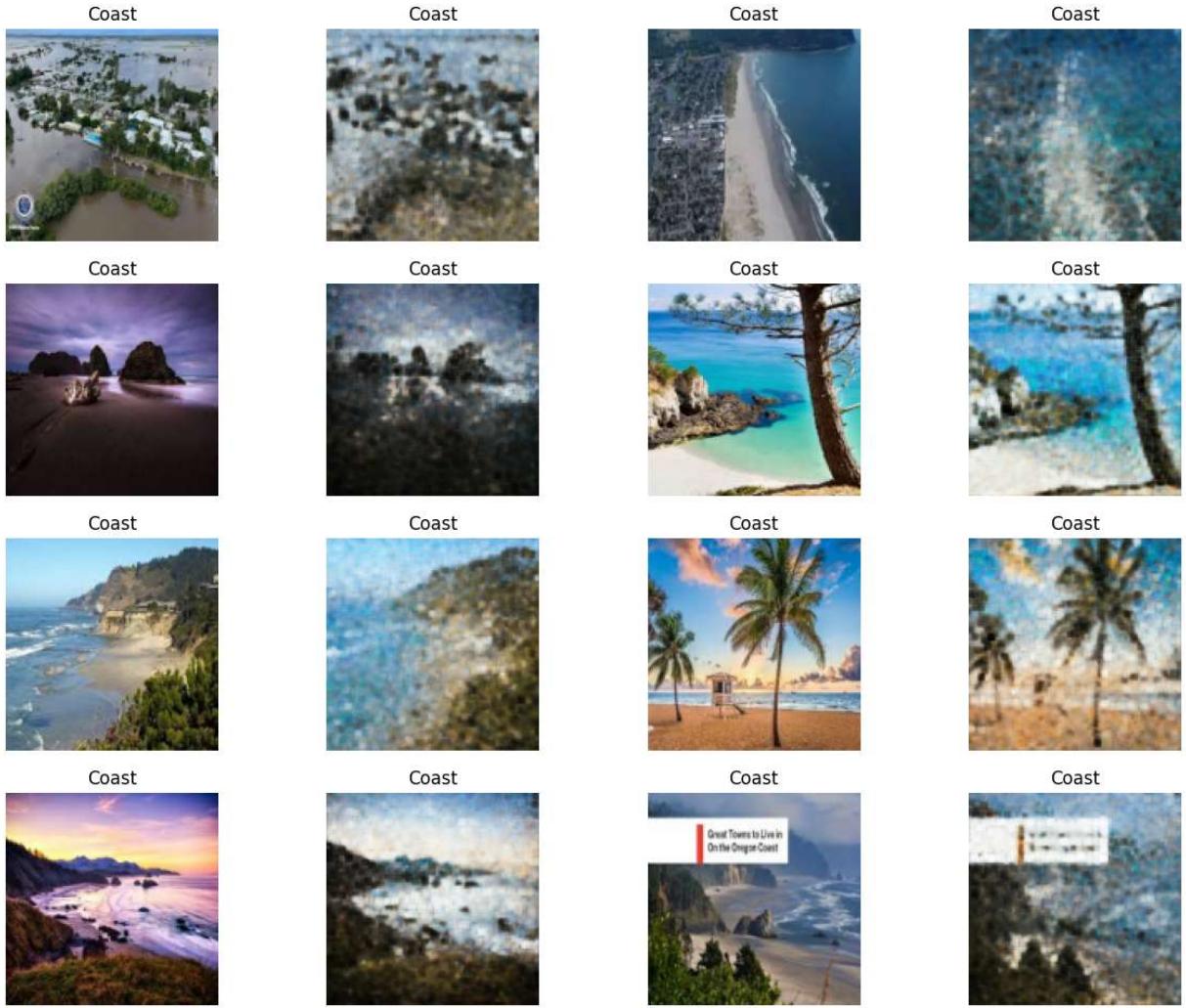
```
120/120 [=====] - 19s 154ms/step - loss: 40.8735 - reconstruction_error: 19.3817 - regularization_error: 21.4919 - val_loss: 81.1629 - val_reconstruction_error: 60.8926 - val_regularization_error: 20.2703
Epoch 602/1000
120/120 [=====] - 16s 131ms/step - loss: 40.8679 - reconstruction_error: 19.3664 - regularization_error: 21.5015 - val_loss: 80.3324 - val_reconstruction_error: 61.1625 - val_regularization_error: 19.1698
Epoch 603/1000
120/120 [=====] - 18s 153ms/step - loss: 40.7752 - reconstruction_error: 19.3173 - regularization_error: 21.4580 - val_loss: 80.8743 - val_reconstruction_error: 61.9304 - val_regularization_error: 18.9439
Epoch 604/1000
120/120 [=====] - 14s 114ms/step - loss: 40.5349 - reconstruction_error: 19.2937 - regularization_error: 21.2412 - val_loss: 80.4729 - val_reconstruction_error: 59.9859 - val_regularization_error: 20.4871
Epoch 605/1000
120/120 [=====] - 17s 139ms/step - loss: 40.5027 - reconstruction_error: 19.2632 - regularization_error: 21.2395 - val_loss: 81.4272 - val_reconstruction_error: 61.5585 - val_regularization_error: 19.8687
Epoch 606/1000
120/120 [=====] - 16s 134ms/step - loss: 40.7014 - reconstruction_error: 19.3462 - regularization_error: 21.3552 - val_loss: 81.6481 - val_reconstruction_error: 62.0324 - val_regularization_error: 19.6157
Epoch 607/1000
120/120 [=====] - 17s 143ms/step - loss: 40.5791 - reconstruction_error: 19.2992 - regularization_error: 21.2799 - val_loss: 81.5842 - val_reconstruction_error: 61.3460 - val_regularization_error: 20.2383
Epoch 608/1000
120/120 [=====] - 16s 135ms/step - loss: 40.6708 - reconstruction_error: 19.2880 - regularization_error: 21.3828 - val_loss: 80.4369 - val_reconstruction_error: 60.8939 - val_regularization_error: 19.5430
Epoch 609/1000
120/120 [=====] - 17s 140ms/step - loss: 40.7949 - reconstruction_error: 19.3587 - regularization_error: 21.4362 - val_loss: 81.3223 - val_reconstruction_error: 61.0369 - val_regularization_error: 20.2854
Epoch 610/1000
120/120 [=====] - 16s 132ms/step - loss: 40.8953 - reconstruction_error: 19.3777 - regularization_error: 21.5175 - val_loss: 80.2525 - val_reconstruction_error: 60.1220 - val_regularization_error: 20.1305
Epoch 611/1000
120/120 [=====] - ETA: 0s - loss: 40.7398 - reconstruction_error: 19.2499 - regularization_error: 21.4898
[2023-12-01 12:44:31.007737]: Reconstructing images for epoch 611 ...
```



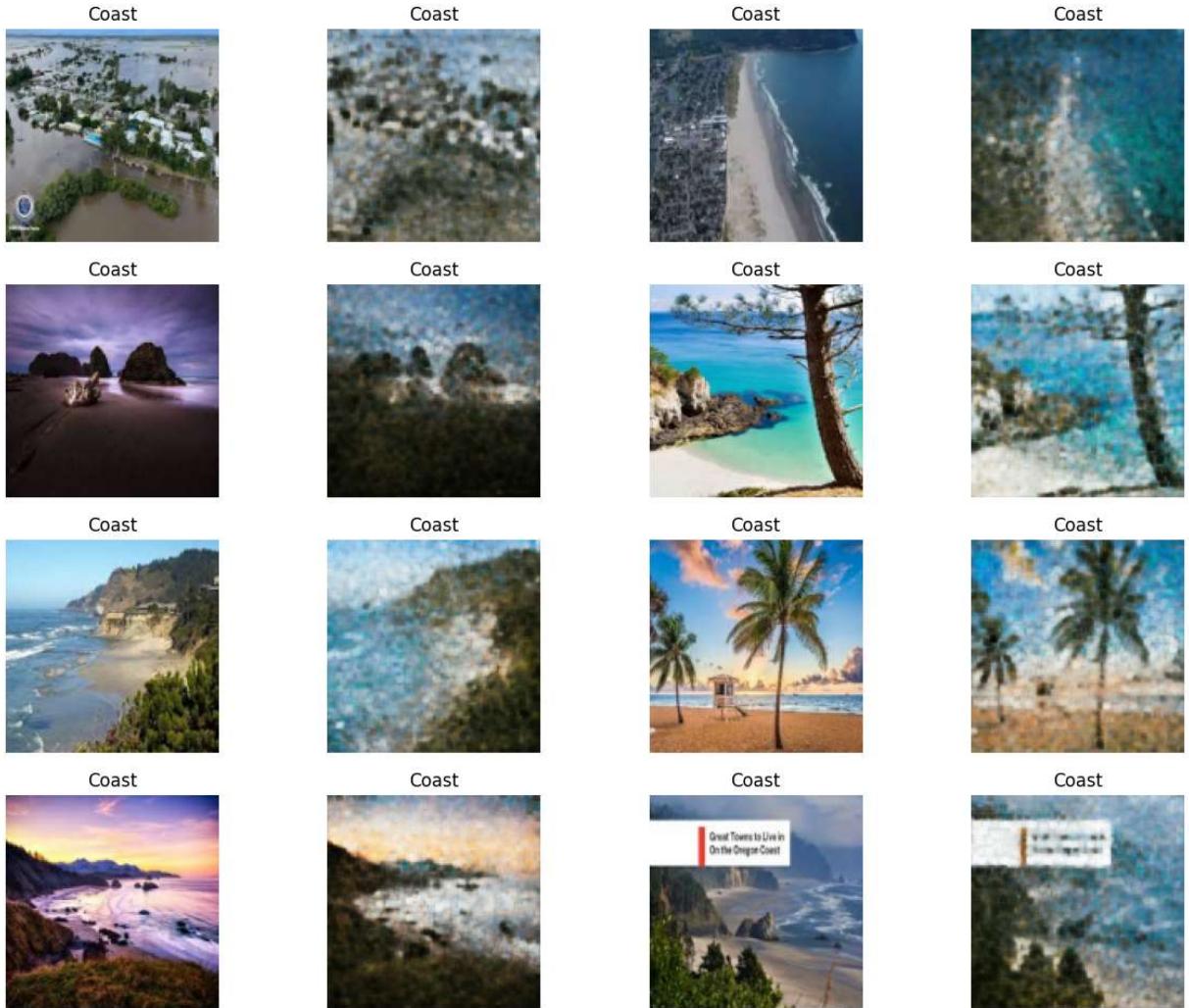
```
120/120 [=====] - 18s 145ms/step - loss: 40.7398 - reconstruction_error: 19.2499 - regularization_error: 21.4898 - val_loss: 80.7645 - val_reconstruction_error: 60.8584 - val_regularization_error: 19.9061
Epoch 612/1000
120/120 [=====] - 19s 158ms/step - loss: 40.9398 - reconstruction_error: 19.4271 - regularization_error: 21.5127 - val_loss: 80.1193 - val_reconstruction_error: 60.5804 - val_regularization_error: 19.5389
Epoch 613/1000
120/120 [=====] - 18s 150ms/step - loss: 40.7684 - reconstruction_error: 19.3059 - regularization_error: 21.4625 - val_loss: 81.2756 - val_reconstruction_error: 61.7100 - val_regularization_error: 19.5655
Epoch 614/1000
120/120 [=====] - 16s 135ms/step - loss: 40.6230 - reconstruction_error: 19.2292 - regularization_error: 21.3938 - val_loss: 80.8994 - val_reconstruction_error: 60.2012 - val_regularization_error: 20.6982
Epoch 615/1000
120/120 [=====] - 17s 141ms/step - loss: 40.7502 - reconstruction_error: 19.3973 - regularization_error: 21.3529 - val_loss: 82.8987 - val_reconstruction_error: 61.4990 - val_regularization_error: 21.3997
Epoch 616/1000
120/120 [=====] - 15s 123ms/step - loss: 40.7715 - reconstruction_error: 19.3330 - regularization_error: 21.4385 - val_loss: 80.1365 - val_reconstruction_error: 60.8892 - val_regularization_error: 19.2473
Epoch 617/1000
120/120 [=====] - 17s 140ms/step - loss: 40.5817 - reconstruction_error: 19.2069 - regularization_error: 21.3748 - val_loss: 81.2345 - val_reconstruction_error: 60.9765 - val_regularization_error: 20.2580
Epoch 618/1000
120/120 [=====] - 14s 117ms/step - loss: 40.5968 - reconstruction_error: 19.2188 - regularization_error: 21.3781 - val_loss: 80.8444 - val_reconstruction_error: 61.2233 - val_regularization_error: 19.6211
Epoch 619/1000
120/120 [=====] - 18s 151ms/step - loss: 40.8829 - reconstruction_error: 19.3303 - regularization_error: 21.5526 - val_loss: 80.3095 - val_reconstruction_error: 60.9208 - val_regularization_error: 19.3887
Epoch 620/1000
120/120 [=====] - 18s 147ms/step - loss: 40.6906 - reconstruction_error: 19.2424 - regularization_error: 21.4482 - val_loss: 80.5227 - val_reconstruction_error: 61.0777 - val_regularization_error: 19.4450
Epoch 621/1000
120/120 [=====] - ETA: 0s - loss: 40.7573 - reconstruction_error: 19.3594 - regularization_error: 21.3979
[2023-12-01 12:47:26.952310]: Reconstructing images for epoch 621 ...
```



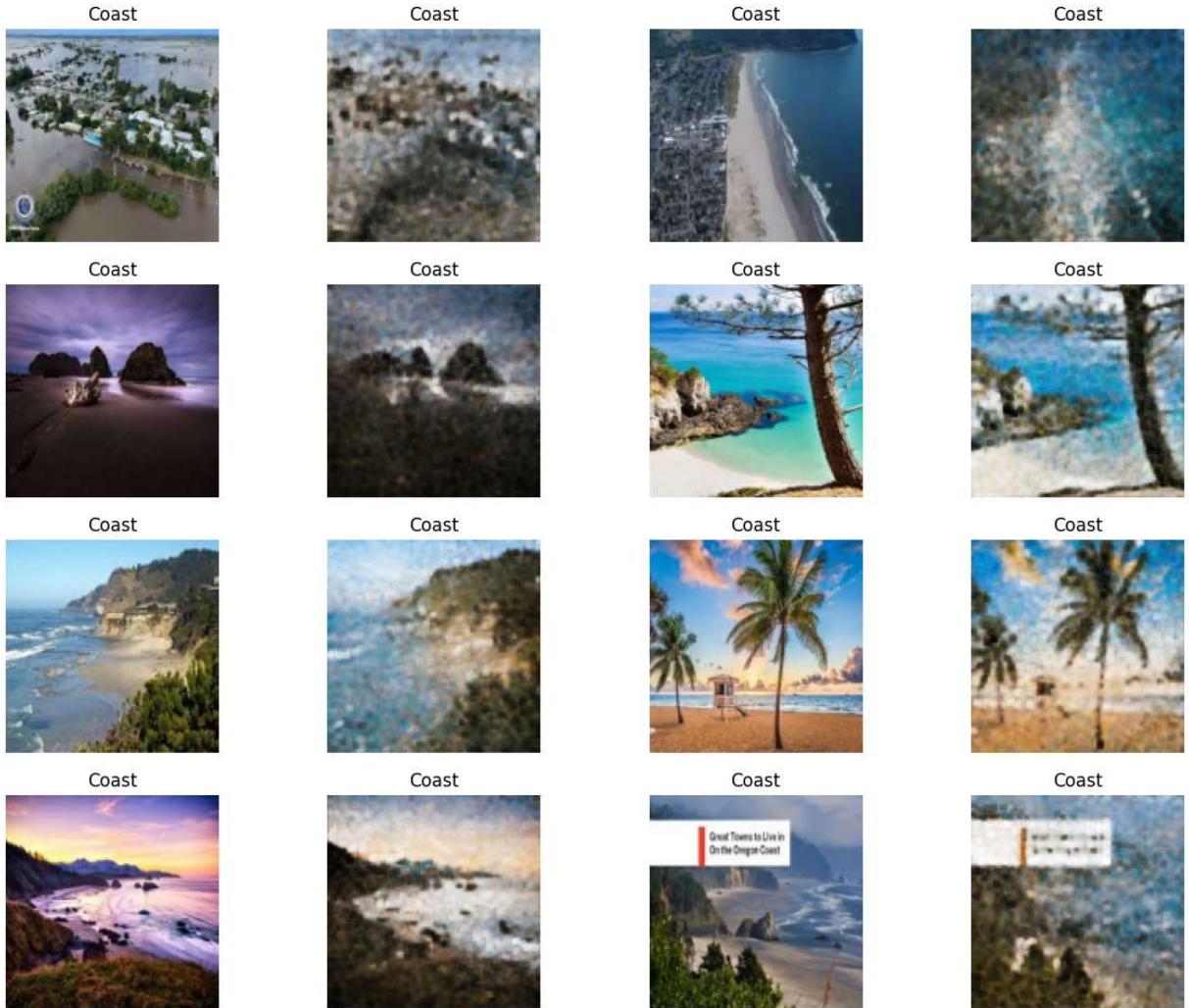
```
120/120 [=====] - 21s 174ms/step - loss: 40.7573 - reconstruction_error: 19.3594 - regularization_error: 21.3979 - val_loss: 80.2595 - val_reconstruction_error: 60.8638 - val_regularization_error: 19.3957
Epoch 622/1000
120/120 [=====] - 17s 141ms/step - loss: 40.6357 - reconstruction_error: 19.1450 - regularization_error: 21.4907 - val_loss: 80.2261 - val_reconstruction_error: 60.3517 - val_regularization_error: 19.8744
Epoch 623/1000
120/120 [=====] - 19s 154ms/step - loss: 40.6852 - reconstruction_error: 19.2649 - regularization_error: 21.4203 - val_loss: 80.4281 - val_reconstruction_error: 61.5368 - val_regularization_error: 18.8913
Epoch 624/1000
120/120 [=====] - 17s 140ms/step - loss: 40.5564 - reconstruction_error: 19.1872 - regularization_error: 21.3693 - val_loss: 81.0805 - val_reconstruction_error: 61.9517 - val_regularization_error: 19.1288
Epoch 625/1000
120/120 [=====] - 17s 138ms/step - loss: 40.4069 - reconstruction_error: 19.1640 - regularization_error: 21.2429 - val_loss: 80.1975 - val_reconstruction_error: 60.4389 - val_regularization_error: 19.7586
Epoch 626/1000
120/120 [=====] - 15s 123ms/step - loss: 40.8555 - reconstruction_error: 19.3623 - regularization_error: 21.4932 - val_loss: 81.4992 - val_reconstruction_error: 61.5621 - val_regularization_error: 19.9371
Epoch 627/1000
120/120 [=====] - 21s 177ms/step - loss: 40.4501 - reconstruction_error: 19.0534 - regularization_error: 21.3967 - val_loss: 79.5686 - val_reconstruction_error: 59.7401 - val_regularization_error: 19.8285
Epoch 628/1000
120/120 [=====] - 18s 150ms/step - loss: 40.8926 - reconstruction_error: 19.2699 - regularization_error: 21.6227 - val_loss: 82.1426 - val_reconstruction_error: 61.2331 - val_regularization_error: 20.9095
Epoch 629/1000
120/120 [=====] - 19s 153ms/step - loss: 40.4377 - reconstruction_error: 19.1163 - regularization_error: 21.3214 - val_loss: 79.7864 - val_reconstruction_error: 60.4255 - val_regularization_error: 19.3609
Epoch 630/1000
120/120 [=====] - 15s 122ms/step - loss: 40.6284 - reconstruction_error: 19.1597 - regularization_error: 21.4686 - val_loss: 80.7892 - val_reconstruction_error: 61.1667 - val_regularization_error: 19.6225
Epoch 631/1000
120/120 [=====] - ETA: 0s - loss: 40.5066 - reconstruction_error: 19.1900 - regularization_error: 21.3167
[2023-12-01 12:50:26.774888]: Reconstructing images for epoch 631 ...
```



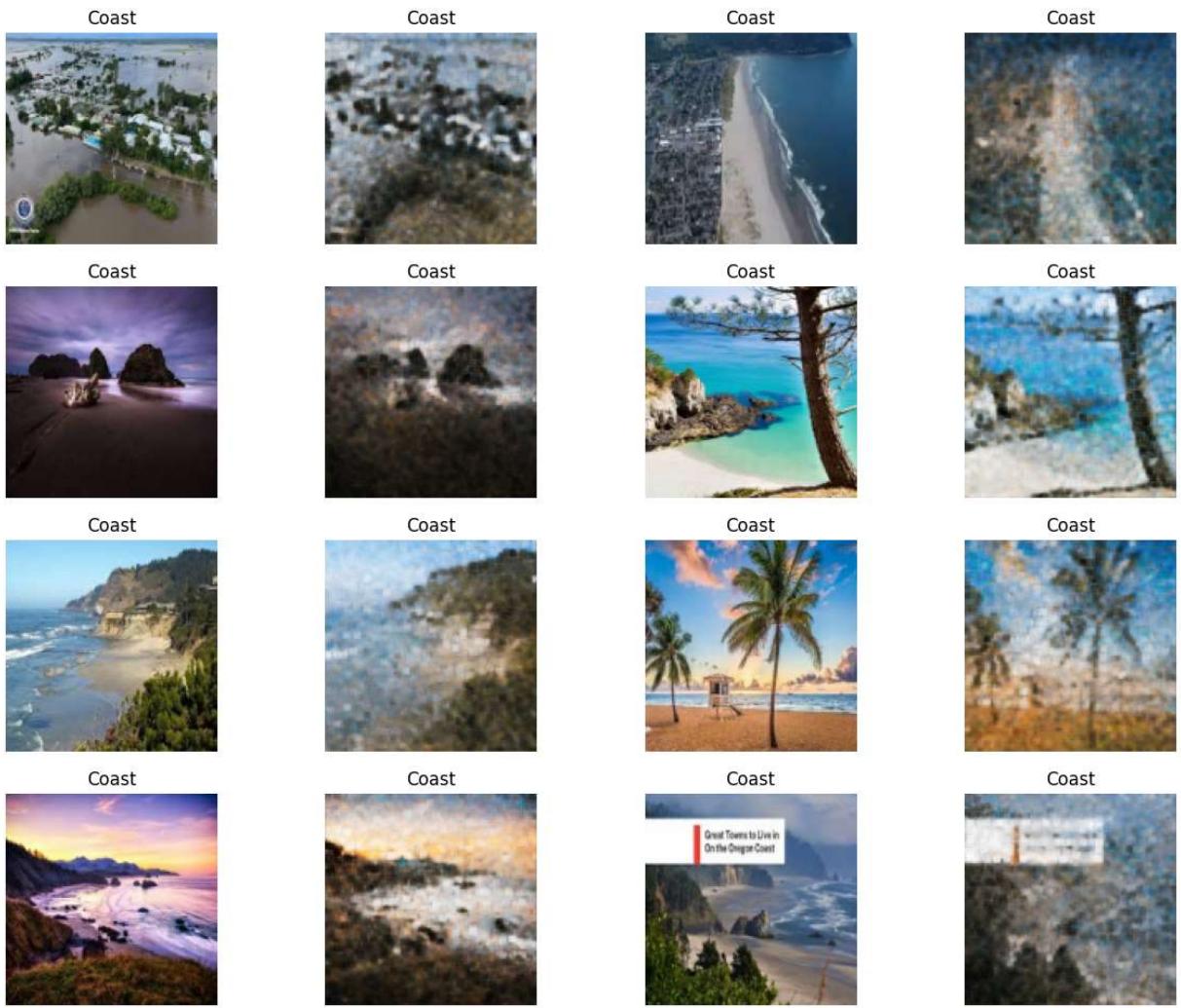
```
120/120 [=====] - 20s 167ms/step - loss: 40.5066 - reconstruction_error: 19.1900 - regularization_error: 21.3167 - val_loss: 83.2274 - val_reconstruction_error: 62.2339 - val_regularization_error: 20.9935
Epoch 632/1000
120/120 [=====] - 16s 135ms/step - loss: 40.7084 - reconstruction_error: 19.2189 - regularization_error: 21.4895 - val_loss: 80.8154 - val_reconstruction_error: 60.3281 - val_regularization_error: 20.4874
Epoch 633/1000
120/120 [=====] - 18s 150ms/step - loss: 40.5476 - reconstruction_error: 19.1521 - regularization_error: 21.3954 - val_loss: 79.5346 - val_reconstruction_error: 59.7314 - val_regularization_error: 19.8032
Epoch 634/1000
120/120 [=====] - 18s 146ms/step - loss: 40.6086 - reconstruction_error: 19.1454 - regularization_error: 21.4632 - val_loss: 80.9517 - val_reconstruction_error: 61.3702 - val_regularization_error: 19.5815
Epoch 635/1000
120/120 [=====] - 13s 109ms/step - loss: 40.5925 - reconstruction_error: 19.1574 - regularization_error: 21.4350 - val_loss: 82.5984 - val_reconstruction_error: 62.3153 - val_regularization_error: 20.2831
Epoch 636/1000
120/120 [=====] - 18s 147ms/step - loss: 40.7619 - reconstruction_error: 19.1622 - regularization_error: 21.5997 - val_loss: 80.3354 - val_reconstruction_error: 60.4222 - val_regularization_error: 19.9132
Epoch 637/1000
120/120 [=====] - 15s 125ms/step - loss: 40.6210 - reconstruction_error: 19.1587 - regularization_error: 21.4623 - val_loss: 80.6494 - val_reconstruction_error: 60.9343 - val_regularization_error: 19.7151
Epoch 638/1000
120/120 [=====] - 16s 135ms/step - loss: 40.7072 - reconstruction_error: 19.2147 - regularization_error: 21.4925 - val_loss: 80.6567 - val_reconstruction_error: 60.6420 - val_regularization_error: 20.0147
Epoch 639/1000
120/120 [=====] - 18s 152ms/step - loss: 40.6081 - reconstruction_error: 19.1580 - regularization_error: 21.4501 - val_loss: 81.2633 - val_reconstruction_error: 60.6137 - val_regularization_error: 20.6496
Epoch 640/1000
120/120 [=====] - 17s 140ms/step - loss: 40.5933 - reconstruction_error: 19.1001 - regularization_error: 21.4932 - val_loss: 81.2279 - val_reconstruction_error: 61.5734 - val_regularization_error: 19.6545
Epoch 641/1000
120/120 [=====] - ETA: 0s - loss: 40.5862 - reconstruction_error: 19.1585 - regularization_error: 21.4277
[2023-12-01 12:53:16.639591]: Reconstructing images for epoch 641 ...
```



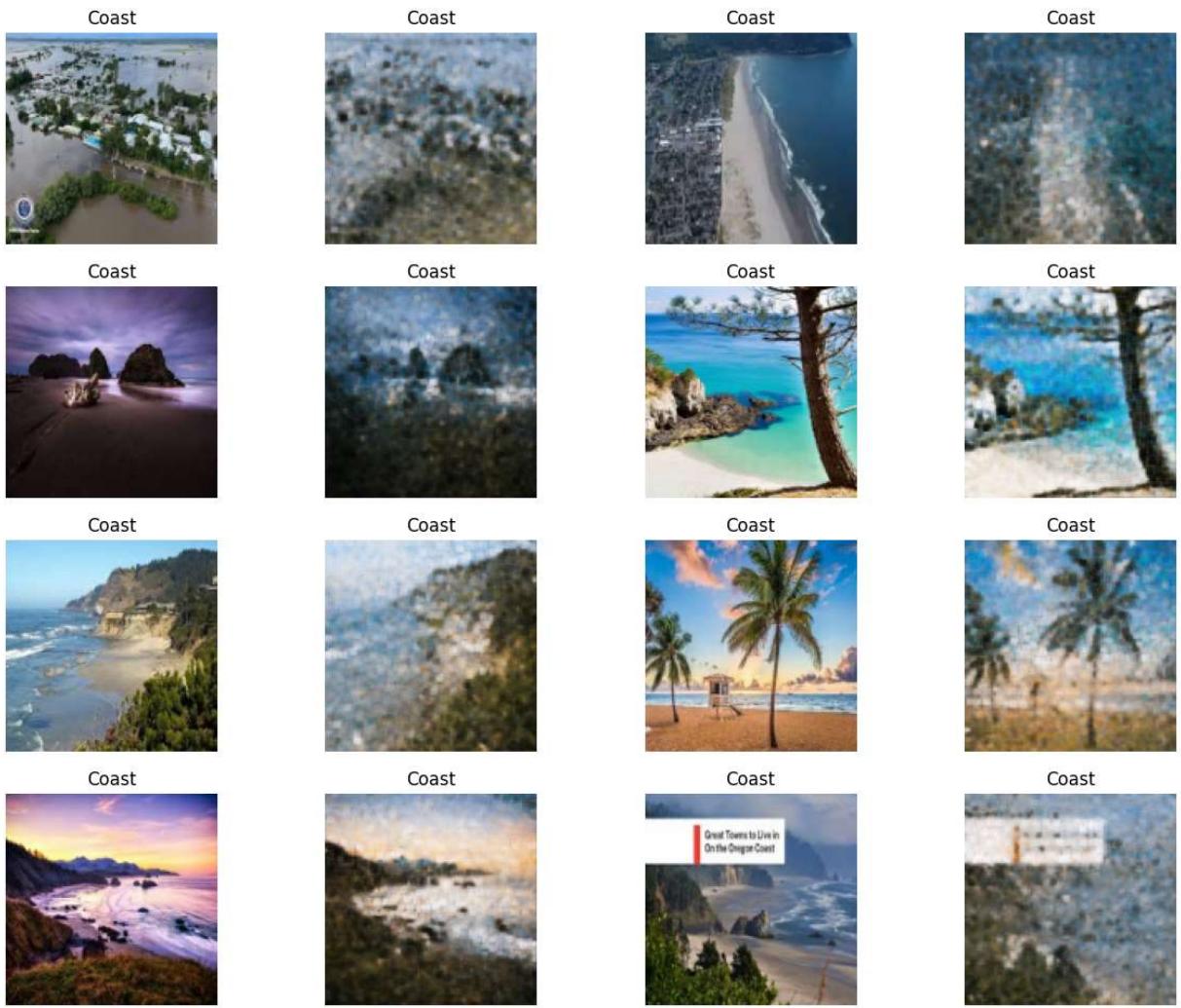
```
120/120 [=====] - 18s 149ms/step - loss: 40.5862 - reconstruction_error: 19.1585 - regularization_error: 21.4277 - val_loss: 81.0910 - val_reconstruction_error: 61.2178 - val_regularization_error: 19.8732
Epoch 642/1000
120/120 [=====] - 17s 138ms/step - loss: 40.4838 - reconstruction_error: 19.1038 - regularization_error: 21.3800 - val_loss: 80.5989 - val_reconstruction_error: 61.0791 - val_regularization_error: 19.5198
Epoch 643/1000
120/120 [=====] - 15s 124ms/step - loss: 40.5349 - reconstruction_error: 19.0487 - regularization_error: 21.4863 - val_loss: 80.2224 - val_reconstruction_error: 60.2136 - val_regularization_error: 20.0088
Epoch 644/1000
120/120 [=====] - 14s 115ms/step - loss: 40.5927 - reconstruction_error: 19.0813 - regularization_error: 21.5114 - val_loss: 79.8370 - val_reconstruction_error: 60.5724 - val_regularization_error: 19.2646
Epoch 645/1000
120/120 [=====] - 17s 141ms/step - loss: 40.4464 - reconstruction_error: 19.0925 - regularization_error: 21.3538 - val_loss: 81.7530 - val_reconstruction_error: 61.4288 - val_regularization_error: 20.3242
Epoch 646/1000
120/120 [=====] - 17s 142ms/step - loss: 40.6121 - reconstruction_error: 19.1190 - regularization_error: 21.4930 - val_loss: 81.5053 - val_reconstruction_error: 62.1327 - val_regularization_error: 19.3726
Epoch 647/1000
120/120 [=====] - 16s 136ms/step - loss: 40.2977 - reconstruction_error: 18.9386 - regularization_error: 21.3591 - val_loss: 80.5521 - val_reconstruction_error: 61.0725 - val_regularization_error: 19.4795
Epoch 648/1000
120/120 [=====] - 17s 139ms/step - loss: 40.2925 - reconstruction_error: 18.9993 - regularization_error: 21.2933 - val_loss: 81.9244 - val_reconstruction_error: 62.6688 - val_regularization_error: 19.2556
Epoch 649/1000
120/120 [=====] - 14s 117ms/step - loss: 40.6873 - reconstruction_error: 19.2140 - regularization_error: 21.4733 - val_loss: 81.6216 - val_reconstruction_error: 60.4773 - val_regularization_error: 21.1443
Epoch 650/1000
120/120 [=====] - 20s 163ms/step - loss: 40.3419 - reconstruction_error: 18.9196 - regularization_error: 21.4223 - val_loss: 80.6645 - val_reconstruction_error: 61.1935 - val_regularization_error: 19.4710
Epoch 651/1000
120/120 [=====] - ETA: 0s - loss: 40.5127 - reconstruction_error: 19.1174 - regularization_error: 21.3953
[2023-12-01 12:56:02.642090]: Reconstructing images for epoch 651 ...
```



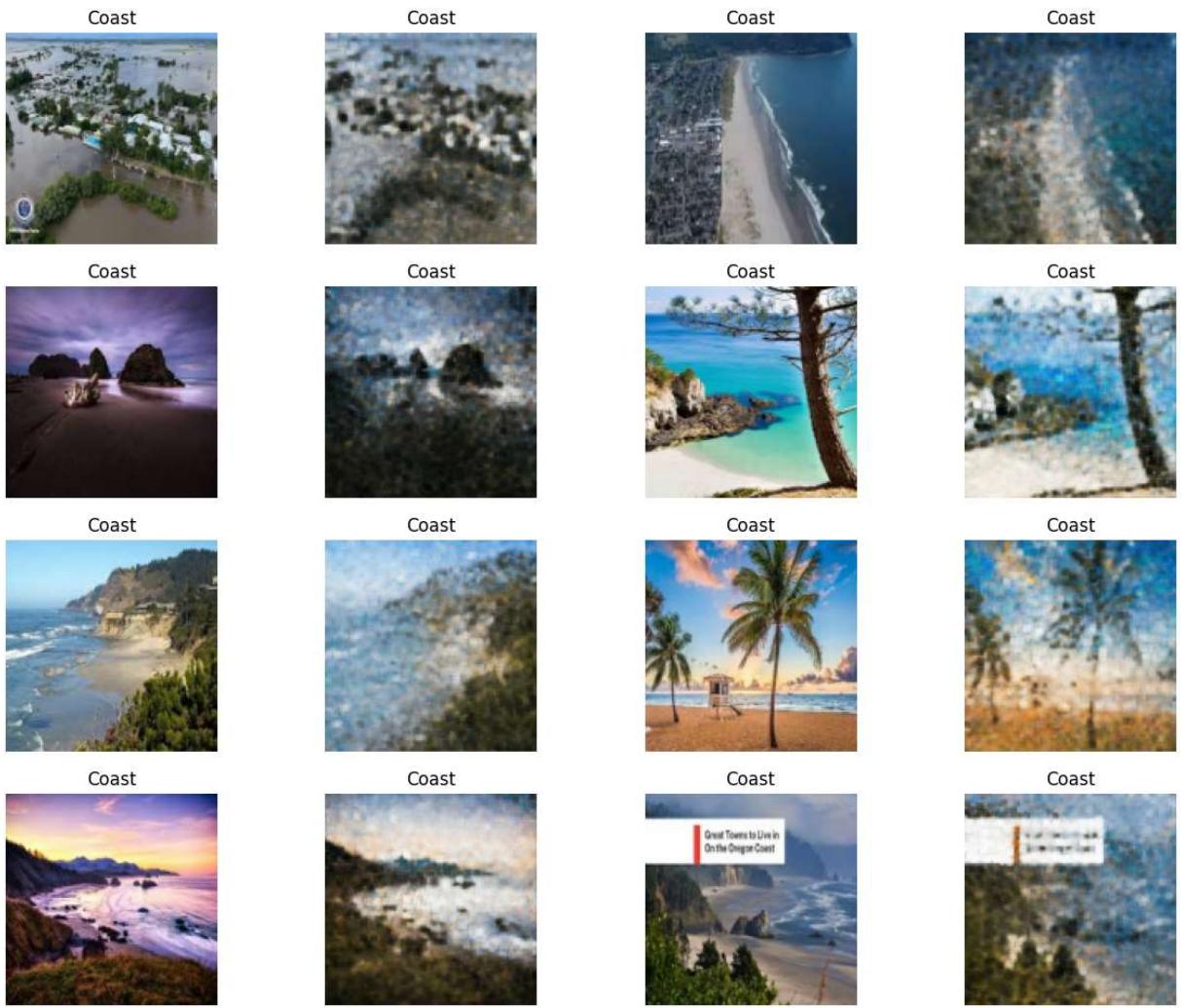
```
120/120 [=====] - 18s 153ms/step - loss: 40.5127 - reconstruction_error: 19.1174 - regularization_error: 21.3953 - val_loss: 81.3090 - val_reconstruction_error: 61.2644 - val_regularization_error: 20.0446
Epoch 652/1000
120/120 [=====] - 16s 133ms/step - loss: 40.3004 - reconstruction_error: 19.0754 - regularization_error: 21.2250 - val_loss: 81.3639 - val_reconstruction_error: 61.0204 - val_regularization_error: 20.3435
Epoch 653/1000
120/120 [=====] - 18s 149ms/step - loss: 40.5725 - reconstruction_error: 19.1330 - regularization_error: 21.4394 - val_loss: 81.9122 - val_reconstruction_error: 61.3686 - val_regularization_error: 20.5436
Epoch 654/1000
120/120 [=====] - 17s 136ms/step - loss: 40.3168 - reconstruction_error: 19.0574 - regularization_error: 21.2594 - val_loss: 79.9078 - val_reconstruction_error: 61.5552 - val_regularization_error: 18.3526
Epoch 655/1000
120/120 [=====] - 17s 141ms/step - loss: 40.4085 - reconstruction_error: 19.0218 - regularization_error: 21.3867 - val_loss: 80.5838 - val_reconstruction_error: 61.3872 - val_regularization_error: 19.1966
Epoch 656/1000
120/120 [=====] - 20s 167ms/step - loss: 40.4633 - reconstruction_error: 19.0586 - regularization_error: 21.4047 - val_loss: 80.9642 - val_reconstruction_error: 61.3983 - val_regularization_error: 19.5659
Epoch 657/1000
120/120 [=====] - 19s 160ms/step - loss: 40.3683 - reconstruction_error: 19.0592 - regularization_error: 21.3090 - val_loss: 81.7862 - val_reconstruction_error: 61.3824 - val_regularization_error: 20.4038
Epoch 658/1000
120/120 [=====] - 14s 116ms/step - loss: 40.5320 - reconstruction_error: 19.0545 - regularization_error: 21.4775 - val_loss: 80.2135 - val_reconstruction_error: 60.8545 - val_regularization_error: 19.3590
Epoch 659/1000
120/120 [=====] - 18s 152ms/step - loss: 40.2899 - reconstruction_error: 19.0571 - regularization_error: 21.2328 - val_loss: 81.4458 - val_reconstruction_error: 62.3534 - val_regularization_error: 19.0924
Epoch 660/1000
120/120 [=====] - 17s 143ms/step - loss: 40.5993 - reconstruction_error: 19.1051 - regularization_error: 21.4942 - val_loss: 80.5055 - val_reconstruction_error: 60.6179 - val_regularization_error: 19.8876
Epoch 661/1000
120/120 [=====] - ETA: 0s - loss: 40.4000 - reconstruction_error: 18.9949 - regularization_error: 21.4051
[2023-12-01 12:58:59.917989]: Reconstructing images for epoch 661 ...
```



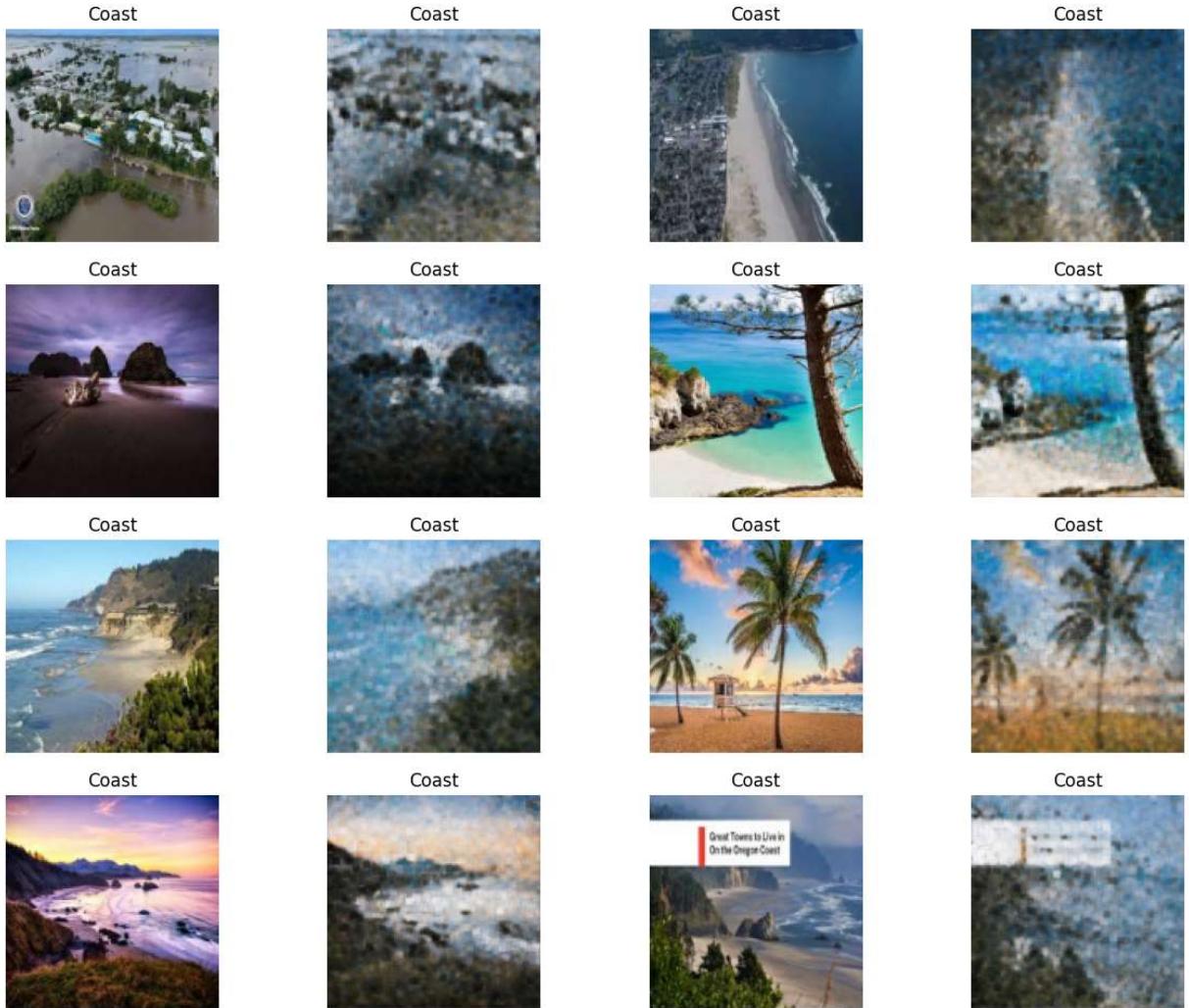
```
120/120 [=====] - 20s 165ms/step - loss: 40.4000 - reconstruction_error: 18.9949 - regularization_error: 21.4051 - val_loss: 80.2885 - val_reconstruction_error: 60.1298 - val_regularization_error: 20.1586
Epoch 662/1000
120/120 [=====] - 18s 145ms/step - loss: 40.3294 - reconstruction_error: 18.9460 - regularization_error: 21.3834 - val_loss: 80.4432 - val_reconstruction_error: 60.1042 - val_regularization_error: 20.3389
Epoch 663/1000
120/120 [=====] - 15s 125ms/step - loss: 40.3432 - reconstruction_error: 18.9519 - regularization_error: 21.3913 - val_loss: 80.6099 - val_reconstruction_error: 60.5365 - val_regularization_error: 20.0733
Epoch 664/1000
120/120 [=====] - 15s 124ms/step - loss: 40.4091 - reconstruction_error: 18.9675 - regularization_error: 21.4416 - val_loss: 80.5464 - val_reconstruction_error: 60.7463 - val_regularization_error: 19.8001
Epoch 665/1000
120/120 [=====] - 16s 129ms/step - loss: 40.0597 - reconstruction_error: 18.8278 - regularization_error: 21.2319 - val_loss: 80.7883 - val_reconstruction_error: 61.1969 - val_regularization_error: 19.5914
Epoch 666/1000
120/120 [=====] - 15s 122ms/step - loss: 40.3628 - reconstruction_error: 18.9969 - regularization_error: 21.3659 - val_loss: 80.9060 - val_reconstruction_error: 61.5139 - val_regularization_error: 19.3921
Epoch 667/1000
120/120 [=====] - 17s 139ms/step - loss: 40.4100 - reconstruction_error: 19.1081 - regularization_error: 21.3018 - val_loss: 80.2044 - val_reconstruction_error: 62.0574 - val_regularization_error: 18.1470
Epoch 668/1000
120/120 [=====] - 18s 150ms/step - loss: 40.2850 - reconstruction_error: 19.0729 - regularization_error: 21.2121 - val_loss: 80.5587 - val_reconstruction_error: 60.9356 - val_regularization_error: 19.6230
Epoch 669/1000
120/120 [=====] - 18s 150ms/step - loss: 40.2549 - reconstruction_error: 18.9325 - regularization_error: 21.3224 - val_loss: 80.3444 - val_reconstruction_error: 61.1478 - val_regularization_error: 19.1966
Epoch 670/1000
120/120 [=====] - 20s 166ms/step - loss: 40.2677 - reconstruction_error: 18.9280 - regularization_error: 21.3397 - val_loss: 82.1929 - val_reconstruction_error: 61.7850 - val_regularization_error: 20.4079
Epoch 671/1000
120/120 [=====] - ETA: 0s - loss: 40.1759 - reconstruction_error: 18.8831 - regularization_error: 21.2927
[2023-12-01 13:01:51.621454]: Reconstructing images for epoch 671 ...
```



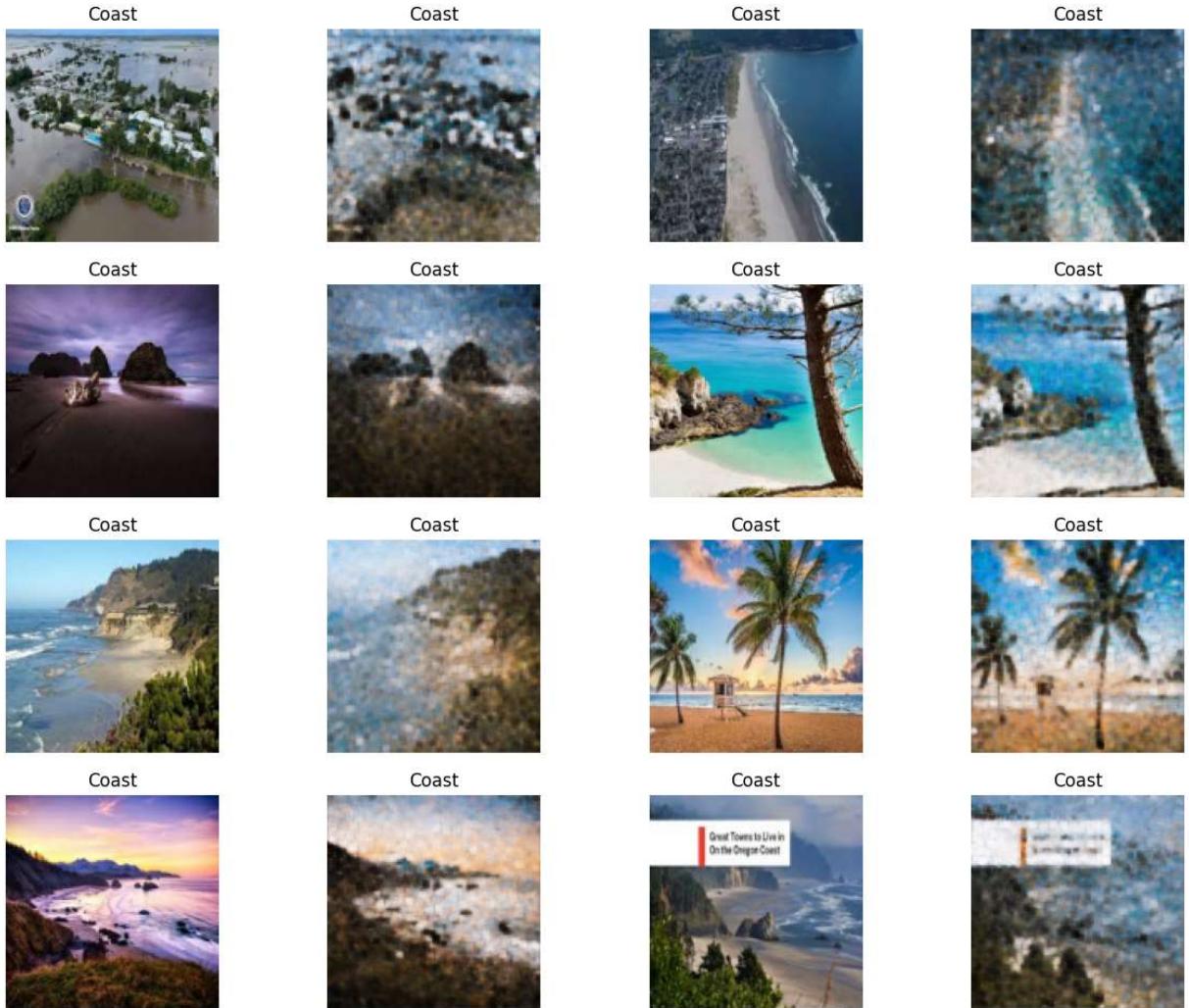
```
120/120 [=====] - 18s 150ms/step - loss: 40.1759 - reconstruction_error: 18.8831 - regularization_error: 21.2927 - val_loss: 79.9473 - val_reconstruction_error: 60.4941 - val_regularization_error: 19.4533
Epoch 672/1000
120/120 [=====] - 16s 135ms/step - loss: 40.4393 - reconstruction_error: 18.9615 - regularization_error: 21.4778 - val_loss: 81.3384 - val_reconstruction_error: 61.3307 - val_regularization_error: 20.0077
Epoch 673/1000
120/120 [=====] - 17s 141ms/step - loss: 40.3749 - reconstruction_error: 18.9282 - regularization_error: 21.4468 - val_loss: 82.7859 - val_reconstruction_error: 62.2860 - val_regularization_error: 20.5000
Epoch 674/1000
120/120 [=====] - 15s 124ms/step - loss: 40.3341 - reconstruction_error: 18.9477 - regularization_error: 21.3864 - val_loss: 80.8072 - val_reconstruction_error: 60.5340 - val_regularization_error: 20.2732
Epoch 675/1000
120/120 [=====] - 16s 134ms/step - loss: 40.1596 - reconstruction_error: 18.7952 - regularization_error: 21.3644 - val_loss: 80.8504 - val_reconstruction_error: 61.5686 - val_regularization_error: 19.2817
Epoch 676/1000
120/120 [=====] - 17s 143ms/step - loss: 40.1565 - reconstruction_error: 18.8516 - regularization_error: 21.3049 - val_loss: 80.6861 - val_reconstruction_error: 61.5535 - val_regularization_error: 19.1326
Epoch 677/1000
120/120 [=====] - 16s 128ms/step - loss: 40.0082 - reconstruction_error: 18.8297 - regularization_error: 21.1785 - val_loss: 81.1394 - val_reconstruction_error: 62.0766 - val_regularization_error: 19.0628
Epoch 678/1000
120/120 [=====] - 18s 144ms/step - loss: 40.3877 - reconstruction_error: 18.8517 - regularization_error: 21.5360 - val_loss: 81.8491 - val_reconstruction_error: 61.2445 - val_regularization_error: 20.6046
Epoch 679/1000
120/120 [=====] - 17s 143ms/step - loss: 40.4428 - reconstruction_error: 19.0687 - regularization_error: 21.3740 - val_loss: 82.9817 - val_reconstruction_error: 62.1005 - val_regularization_error: 20.8811
Epoch 680/1000
120/120 [=====] - 19s 154ms/step - loss: 40.1470 - reconstruction_error: 18.8313 - regularization_error: 21.3157 - val_loss: 81.9336 - val_reconstruction_error: 61.1852 - val_regularization_error: 20.7484
Epoch 681/1000
120/120 [=====] - ETA: 0s - loss: 40.5295 - reconstruction_error: 18.9246 - regularization_error: 21.6049
[2023-12-01 13:04:46.884929]: Reconstructing images for epoch 681 ...
```



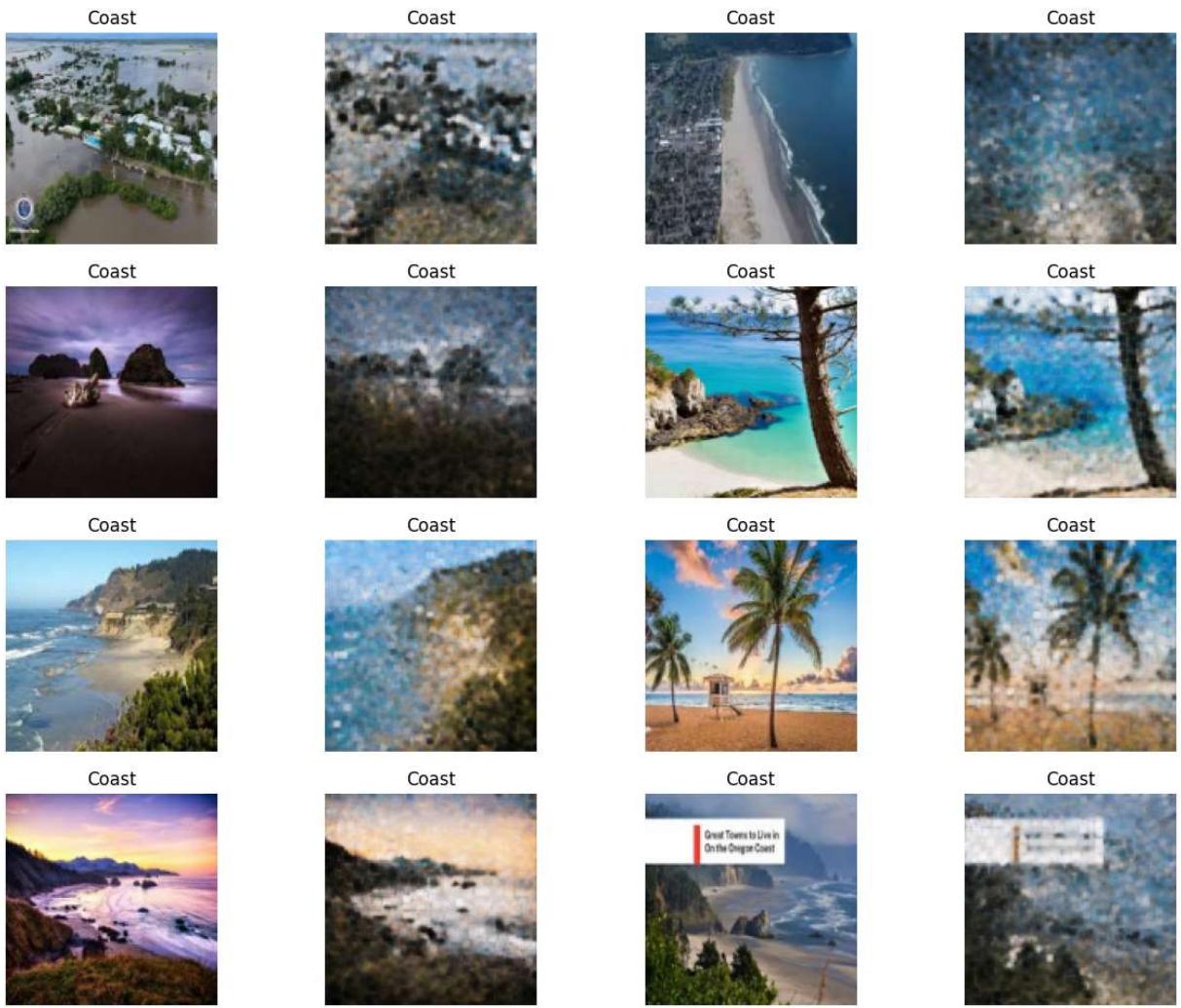
```
120/120 [=====] - 21s 173ms/step - loss: 40.5295 - reconstruction_error: 18.9246 - regularization_error: 21.6049 - val_loss: 81.6451 - val_reconstruction_error: 61.7565 - val_regularization_error: 19.8886
Epoch 682/1000
120/120 [=====] - 16s 134ms/step - loss: 40.2251 - reconstruction_error: 18.7509 - regularization_error: 21.4742 - val_loss: 81.3080 - val_reconstruction_error: 61.2841 - val_regularization_error: 20.0239
Epoch 683/1000
120/120 [=====] - 16s 135ms/step - loss: 40.2674 - reconstruction_error: 18.8494 - regularization_error: 21.4181 - val_loss: 81.3747 - val_reconstruction_error: 61.3049 - val_regularization_error: 20.0698
Epoch 684/1000
120/120 [=====] - 18s 149ms/step - loss: 40.3356 - reconstruction_error: 18.8984 - regularization_error: 21.4371 - val_loss: 80.8487 - val_reconstruction_error: 61.0224 - val_regularization_error: 19.8264
Epoch 685/1000
120/120 [=====] - 19s 154ms/step - loss: 40.3927 - reconstruction_error: 18.9435 - regularization_error: 21.4493 - val_loss: 81.7825 - val_reconstruction_error: 61.5119 - val_regularization_error: 20.2706
Epoch 686/1000
120/120 [=====] - 19s 154ms/step - loss: 40.1076 - reconstruction_error: 18.7114 - regularization_error: 21.3961 - val_loss: 80.7307 - val_reconstruction_error: 60.9470 - val_regularization_error: 19.7837
Epoch 687/1000
120/120 [=====] - 17s 144ms/step - loss: 40.2782 - reconstruction_error: 18.9356 - regularization_error: 21.3426 - val_loss: 81.6542 - val_reconstruction_error: 61.5499 - val_regularization_error: 20.1043
Epoch 688/1000
120/120 [=====] - 18s 149ms/step - loss: 40.2470 - reconstruction_error: 18.8829 - regularization_error: 21.3640 - val_loss: 82.3198 - val_reconstruction_error: 61.7969 - val_regularization_error: 20.5229
Epoch 689/1000
120/120 [=====] - 15s 123ms/step - loss: 40.2029 - reconstruction_error: 18.8690 - regularization_error: 21.3339 - val_loss: 80.3874 - val_reconstruction_error: 61.0637 - val_regularization_error: 19.3236
Epoch 690/1000
120/120 [=====] - 15s 124ms/step - loss: 40.1819 - reconstruction_error: 18.9538 - regularization_error: 21.2282 - val_loss: 81.6239 - val_reconstruction_error: 61.5477 - val_regularization_error: 20.0762
Epoch 691/1000
120/120 [=====] - ETA: 0s - loss: 40.2705 - reconstruction_error: 18.7626 - regularization_error: 21.5079
[2023-12-01 13:07:42.341856]: Reconstructing images for epoch 691 ...
```



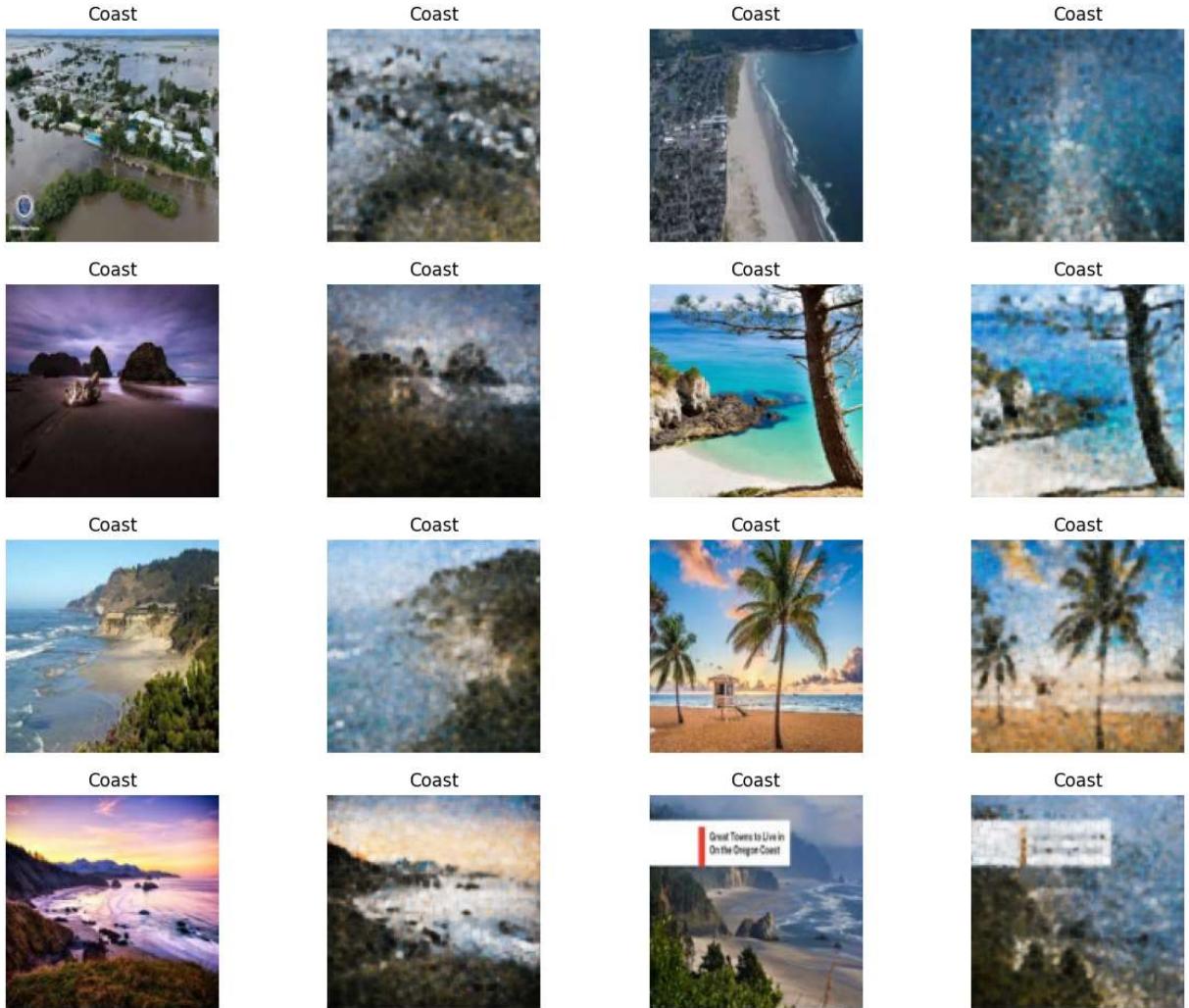
```
120/120 [=====] - 21s 173ms/step - loss: 40.2705 - reconstruction_error: 18.7626 - regularization_error: 21.5079 - val_loss: 80.6003 - val_reconstruction_error: 61.6872 - val_regularization_error: 18.9132
Epoch 692/1000
120/120 [=====] - 14s 114ms/step - loss: 40.1222 - reconstruction_error: 18.7094 - regularization_error: 21.4128 - val_loss: 81.9833 - val_reconstruction_error: 61.7977 - val_regularization_error: 20.1856
Epoch 693/1000
120/120 [=====] - 15s 121ms/step - loss: 40.0153 - reconstruction_error: 18.8206 - regularization_error: 21.1947 - val_loss: 81.8418 - val_reconstruction_error: 61.5857 - val_regularization_error: 20.2561
Epoch 694/1000
120/120 [=====] - 18s 146ms/step - loss: 40.1584 - reconstruction_error: 18.7784 - regularization_error: 21.3800 - val_loss: 81.4909 - val_reconstruction_error: 61.1037 - val_regularization_error: 20.3872
Epoch 695/1000
120/120 [=====] - 17s 143ms/step - loss: 40.1322 - reconstruction_error: 18.7696 - regularization_error: 21.3626 - val_loss: 80.5656 - val_reconstruction_error: 60.6380 - val_regularization_error: 19.9277
Epoch 696/1000
120/120 [=====] - 16s 133ms/step - loss: 40.3054 - reconstruction_error: 18.8297 - regularization_error: 21.4757 - val_loss: 80.7551 - val_reconstruction_error: 60.3379 - val_regularization_error: 20.4172
Epoch 697/1000
120/120 [=====] - 13s 109ms/step - loss: 40.1574 - reconstruction_error: 18.8472 - regularization_error: 21.3102 - val_loss: 81.8556 - val_reconstruction_error: 61.9277 - val_regularization_error: 19.9278
Epoch 698/1000
120/120 [=====] - 16s 135ms/step - loss: 40.1487 - reconstruction_error: 18.7845 - regularization_error: 21.3642 - val_loss: 80.9652 - val_reconstruction_error: 61.4498 - val_regularization_error: 19.5154
Epoch 699/1000
120/120 [=====] - 16s 132ms/step - loss: 39.9810 - reconstruction_error: 18.7180 - regularization_error: 21.2630 - val_loss: 80.3542 - val_reconstruction_error: 61.3876 - val_regularization_error: 18.9666
Epoch 700/1000
120/120 [=====] - 18s 151ms/step - loss: 40.0026 - reconstruction_error: 18.7805 - regularization_error: 21.2221 - val_loss: 81.0012 - val_reconstruction_error: 61.8900 - val_regularization_error: 19.1112
Epoch 701/1000
120/120 [=====] - ETA: 0s - loss: 40.1348 - reconstruction_error: 18.7323 - regularization_error: 21.4025
[2023-12-01 13:10:31.526925]: Reconstructing images for epoch 701 ...
```



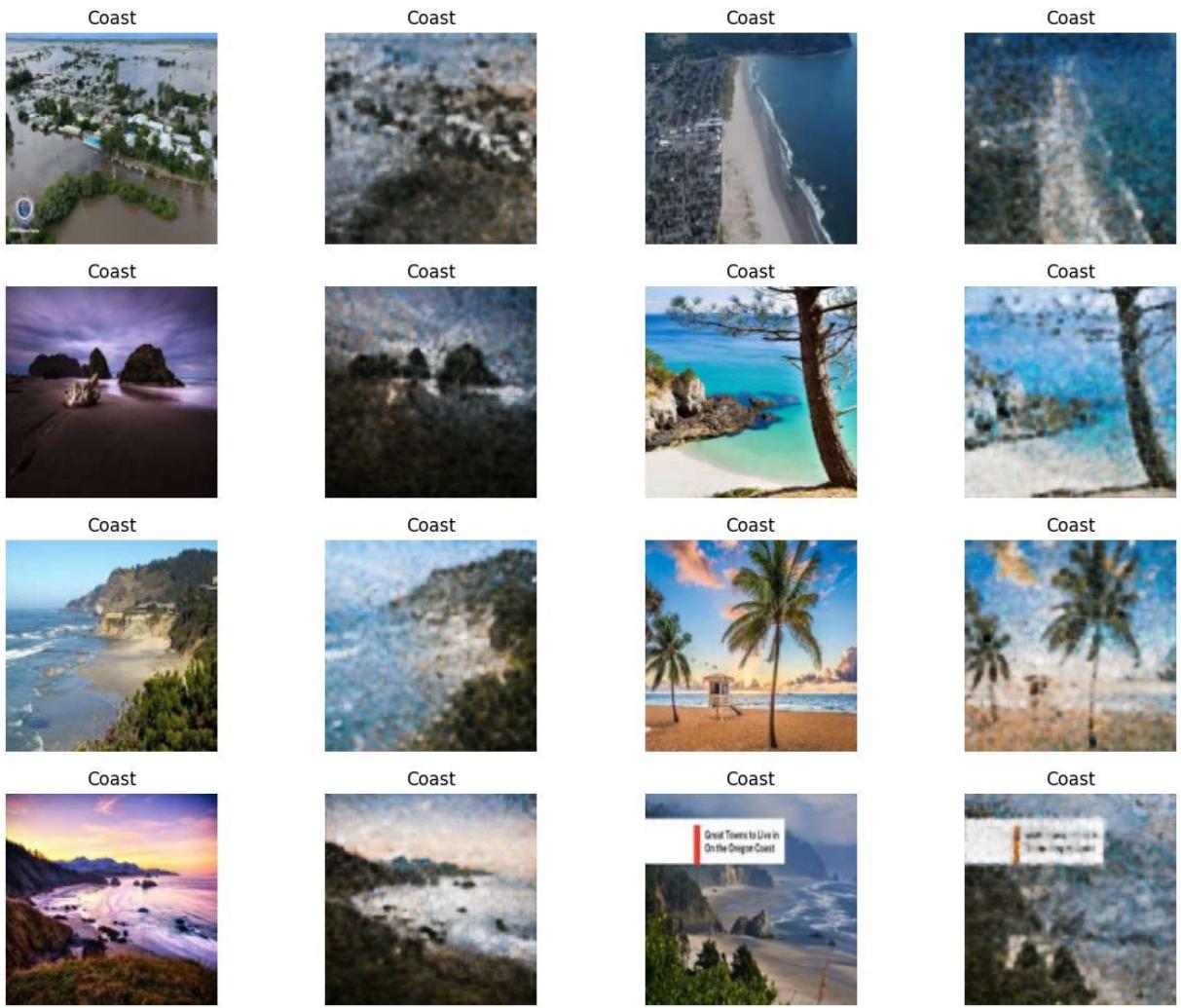
```
120/120 [=====] - 23s 192ms/step - loss: 40.1348 - reconstruction_error: 18.7323 - regularization_error: 21.4025 - val_loss: 80.7513 - val_reconstruction_error: 60.4446 - val_regularization_error: 20.3067
Epoch 702/1000
120/120 [=====] - 18s 148ms/step - loss: 40.0151 - reconstruction_error: 18.6931 - regularization_error: 21.3220 - val_loss: 81.5021 - val_reconstruction_error: 61.0806 - val_regularization_error: 20.4215
Epoch 703/1000
120/120 [=====] - 17s 144ms/step - loss: 39.9844 - reconstruction_error: 18.6472 - regularization_error: 21.3372 - val_loss: 80.9872 - val_reconstruction_error: 61.0138 - val_regularization_error: 19.9734
Epoch 704/1000
120/120 [=====] - 18s 150ms/step - loss: 40.0176 - reconstruction_error: 18.7006 - regularization_error: 21.3170 - val_loss: 80.0472 - val_reconstruction_error: 61.0254 - val_regularization_error: 19.0218
Epoch 705/1000
120/120 [=====] - 19s 160ms/step - loss: 39.9805 - reconstruction_error: 18.6164 - regularization_error: 21.3640 - val_loss: 80.9284 - val_reconstruction_error: 61.6687 - val_regularization_error: 19.2597
Epoch 706/1000
120/120 [=====] - 17s 138ms/step - loss: 40.0770 - reconstruction_error: 18.6641 - regularization_error: 21.4129 - val_loss: 81.6787 - val_reconstruction_error: 61.7484 - val_regularization_error: 19.9303
Epoch 707/1000
120/120 [=====] - 19s 153ms/step - loss: 40.2262 - reconstruction_error: 18.8545 - regularization_error: 21.3717 - val_loss: 81.4641 - val_reconstruction_error: 61.6863 - val_regularization_error: 19.7778
Epoch 708/1000
120/120 [=====] - 16s 131ms/step - loss: 40.2061 - reconstruction_error: 18.7169 - regularization_error: 21.4892 - val_loss: 80.5357 - val_reconstruction_error: 61.7652 - val_regularization_error: 18.7705
Epoch 709/1000
120/120 [=====] - 17s 140ms/step - loss: 40.0790 - reconstruction_error: 18.7403 - regularization_error: 21.3387 - val_loss: 80.6121 - val_reconstruction_error: 62.2353 - val_regularization_error: 18.3768
Epoch 710/1000
120/120 [=====] - 15s 121ms/step - loss: 40.1428 - reconstruction_error: 18.7678 - regularization_error: 21.3750 - val_loss: 81.8201 - val_reconstruction_error: 61.3536 - val_regularization_error: 20.4665
Epoch 711/1000
119/120 [=====.>.] - ETA: 0s - loss: 40.1209 - reconstruction_error: 18.7888 - regularization_error: 21.3321
[2023-12-01 13:13:25.945406]: Reconstructing images for epoch 711 ...
```



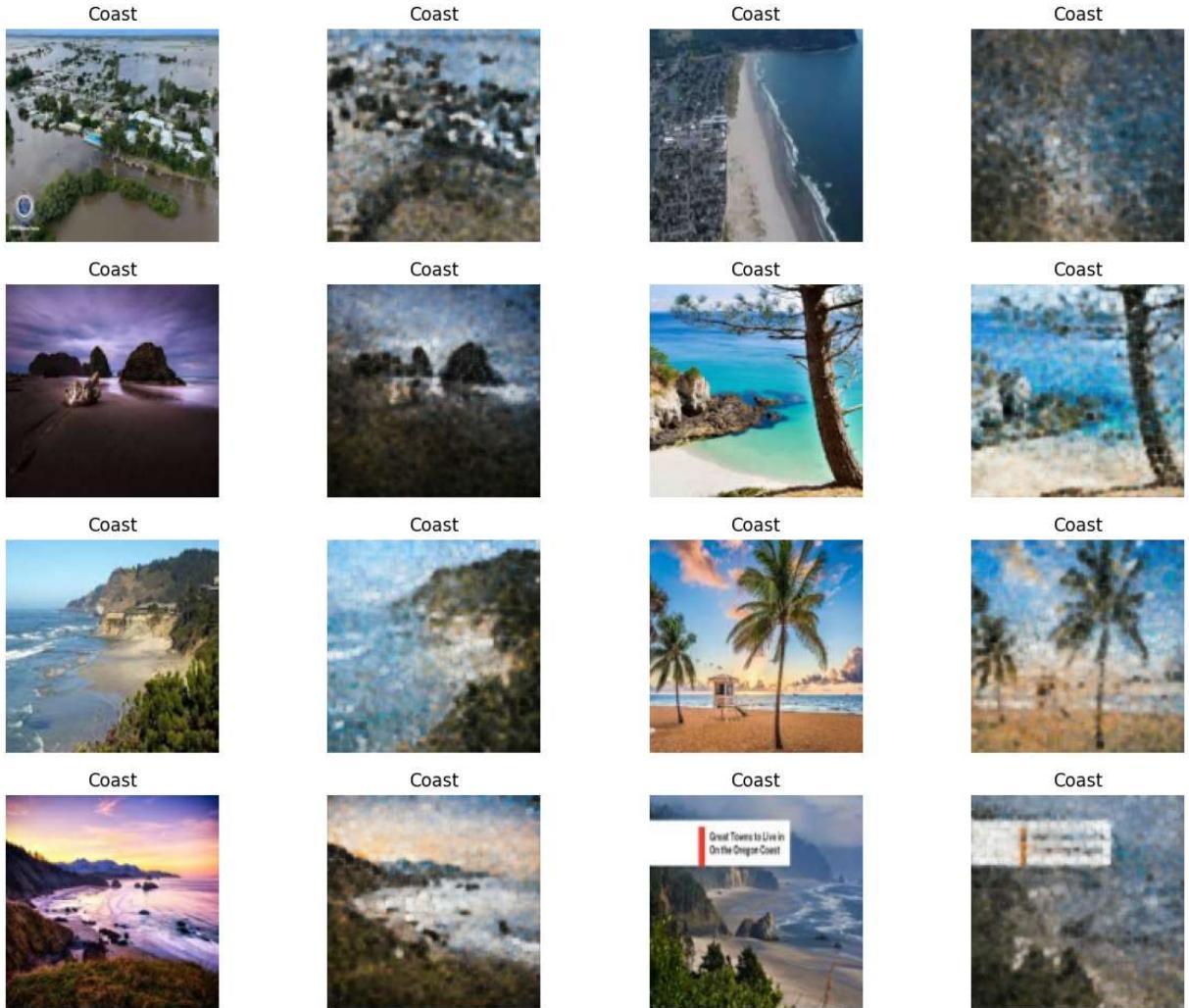
```
120/120 [=====] - 18s 147ms/step - loss: 40.1147 - reconstruction_error: 18.7790 - regularization_error: 21.3357 - val_loss: 80.9073 - val_reconstruction_error: 60.7742 - val_regularization_error: 20.1331
Epoch 712/1000
120/120 [=====] - 18s 146ms/step - loss: 39.8049 - reconstruction_error: 18.5575 - regularization_error: 21.2474 - val_loss: 80.6859 - val_reconstruction_error: 60.7523 - val_regularization_error: 19.9337
Epoch 713/1000
120/120 [=====] - 14s 116ms/step - loss: 40.1591 - reconstruction_error: 18.7381 - regularization_error: 21.4210 - val_loss: 81.7620 - val_reconstruction_error: 62.3104 - val_regularization_error: 19.4516
Epoch 714/1000
120/120 [=====] - 18s 145ms/step - loss: 39.9418 - reconstruction_error: 18.7502 - regularization_error: 21.1916 - val_loss: 81.4184 - val_reconstruction_error: 61.5821 - val_regularization_error: 19.8363
Epoch 715/1000
120/120 [=====] - 17s 141ms/step - loss: 40.0473 - reconstruction_error: 18.6527 - regularization_error: 21.3946 - val_loss: 82.0609 - val_reconstruction_error: 60.4257 - val_regularization_error: 21.6352
Epoch 716/1000
120/120 [=====] - 20s 166ms/step - loss: 39.8849 - reconstruction_error: 18.6231 - regularization_error: 21.2619 - val_loss: 81.3627 - val_reconstruction_error: 61.7188 - val_regularization_error: 19.6439
Epoch 717/1000
120/120 [=====] - 16s 131ms/step - loss: 40.0871 - reconstruction_error: 18.6939 - regularization_error: 21.3933 - val_loss: 81.5848 - val_reconstruction_error: 61.8621 - val_regularization_error: 19.7227
Epoch 718/1000
120/120 [=====] - 17s 140ms/step - loss: 39.8397 - reconstruction_error: 18.5753 - regularization_error: 21.2644 - val_loss: 80.7639 - val_reconstruction_error: 60.9960 - val_regularization_error: 19.7679
Epoch 719/1000
120/120 [=====] - 19s 157ms/step - loss: 40.0112 - reconstruction_error: 18.7369 - regularization_error: 21.2742 - val_loss: 81.6701 - val_reconstruction_error: 60.7476 - val_regularization_error: 20.9225
Epoch 720/1000
120/120 [=====] - 17s 137ms/step - loss: 40.1855 - reconstruction_error: 18.6729 - regularization_error: 21.5126 - val_loss: 80.6581 - val_reconstruction_error: 61.3317 - val_regularization_error: 19.3265
Epoch 721/1000
120/120 [=====] - ETA: 0s - loss: 40.2011 - reconstruction_error: 18.7010 - regularization_error: 21.5001
[2023-12-01 13:16:23.217595]: Reconstructing images for epoch 721 ...
```



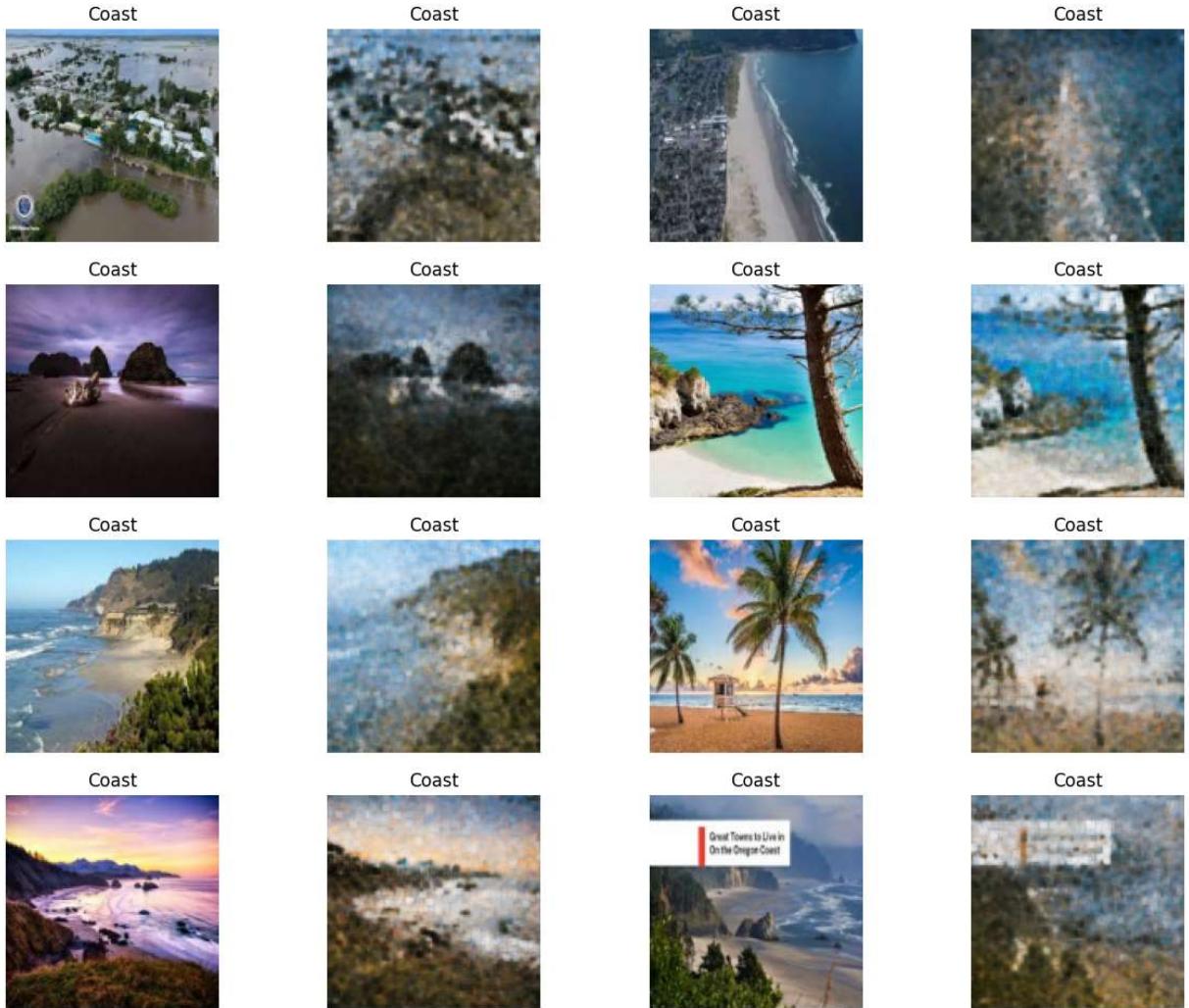
```
120/120 [=====] - 22s 177ms/step - loss: 40.2011 - reconstruction_error: 18.7010 - regularization_error: 21.5001 - val_loss: 81.2564 - val_reconstruction_error: 61.0995 - val_regularization_error: 20.1569
Epoch 722/1000
120/120 [=====] - 16s 134ms/step - loss: 39.9473 - reconstruction_error: 18.5728 - regularization_error: 21.3745 - val_loss: 80.2112 - val_reconstruction_error: 60.7532 - val_regularization_error: 19.4580
Epoch 723/1000
120/120 [=====] - 17s 141ms/step - loss: 40.0917 - reconstruction_error: 18.6760 - regularization_error: 21.4157 - val_loss: 82.9478 - val_reconstruction_error: 62.1512 - val_regularization_error: 20.7966
Epoch 724/1000
120/120 [=====] - 18s 146ms/step - loss: 39.8027 - reconstruction_error: 18.6084 - regularization_error: 21.1944 - val_loss: 81.5313 - val_reconstruction_error: 61.0357 - val_regularization_error: 20.4957
Epoch 725/1000
120/120 [=====] - 16s 133ms/step - loss: 39.6564 - reconstruction_error: 18.4737 - regularization_error: 21.1827 - val_loss: 81.6852 - val_reconstruction_error: 62.2649 - val_regularization_error: 19.4204
Epoch 726/1000
120/120 [=====] - 22s 183ms/step - loss: 39.9803 - reconstruction_error: 18.6044 - regularization_error: 21.3759 - val_loss: 82.2261 - val_reconstruction_error: 62.2643 - val_regularization_error: 19.9617
Epoch 727/1000
120/120 [=====] - 17s 143ms/step - loss: 39.7672 - reconstruction_error: 18.5310 - regularization_error: 21.2362 - val_loss: 81.0640 - val_reconstruction_error: 61.8882 - val_regularization_error: 19.1758
Epoch 728/1000
120/120 [=====] - 15s 125ms/step - loss: 39.7733 - reconstruction_error: 18.4973 - regularization_error: 21.2760 - val_loss: 82.0037 - val_reconstruction_error: 61.6927 - val_regularization_error: 20.3111
Epoch 729/1000
120/120 [=====] - 18s 144ms/step - loss: 39.6780 - reconstruction_error: 18.5521 - regularization_error: 21.1259 - val_loss: 81.5960 - val_reconstruction_error: 61.4419 - val_regularization_error: 20.1541
Epoch 730/1000
120/120 [=====] - 18s 146ms/step - loss: 39.9529 - reconstruction_error: 18.6276 - regularization_error: 21.3253 - val_loss: 81.3196 - val_reconstruction_error: 60.5344 - val_regularization_error: 20.7853
Epoch 731/1000
120/120 [=====] - ETA: 0s - loss: 40.1640 - reconstruction_error: 18.6165 - regularization_error: 21.5475
[2023-12-01 13:19:20.031542]: Reconstructing images for epoch 731 ...
```



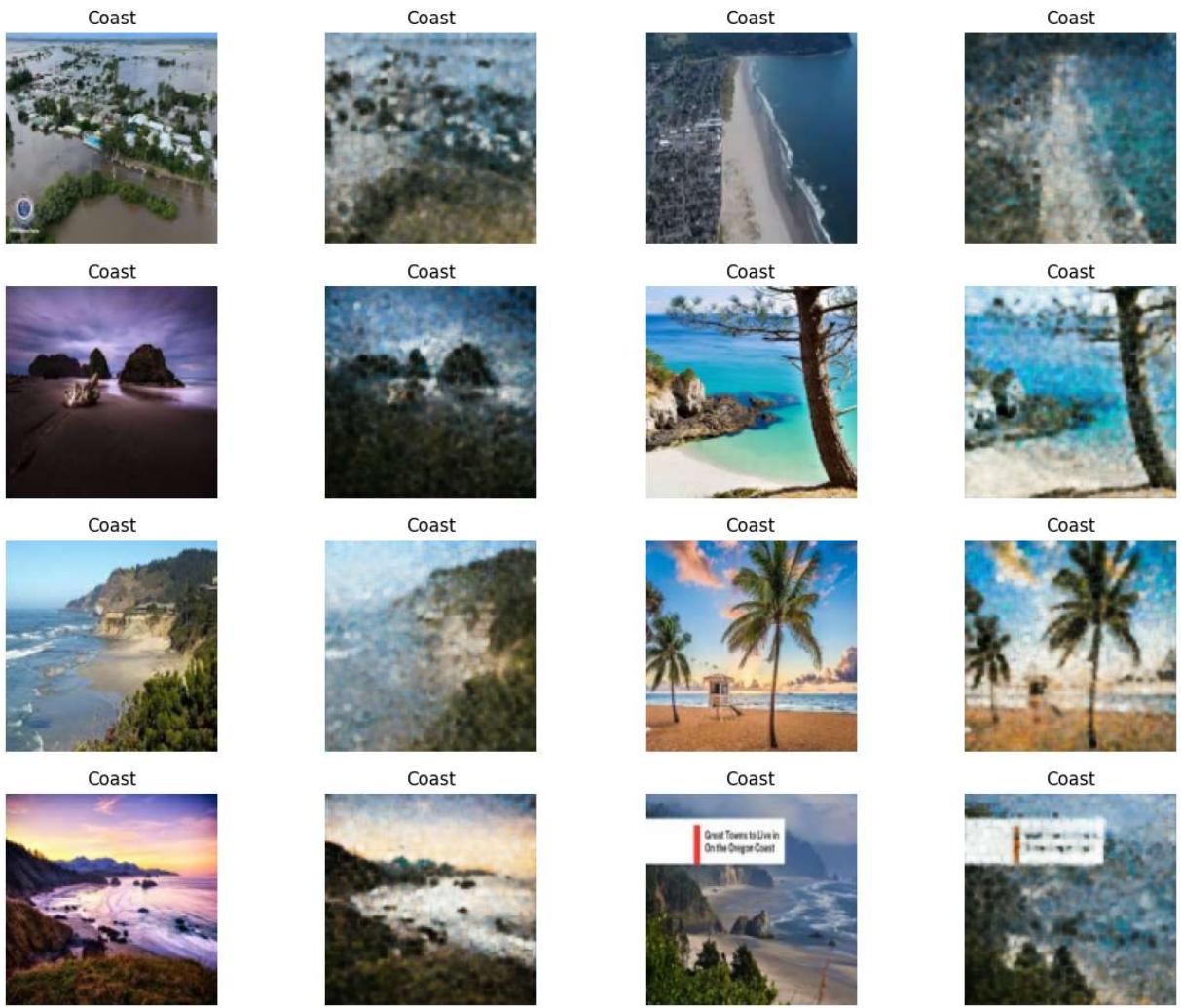
```
120/120 [=====] - 17s 143ms/step - loss: 40.1640 - reconstruction_error: 18.6165 - regularization_error: 21.5475 - val_loss: 81.9650 - val_reconstruction_error: 60.7276 - val_regularization_error: 21.2375
Epoch 732/1000
120/120 [=====] - 17s 138ms/step - loss: 39.9042 - reconstruction_error: 18.5467 - regularization_error: 21.3575 - val_loss: 80.9342 - val_reconstruction_error: 61.6723 - val_regularization_error: 19.2619
Epoch 733/1000
120/120 [=====] - 17s 142ms/step - loss: 39.9017 - reconstruction_error: 18.6291 - regularization_error: 21.2727 - val_loss: 84.8983 - val_reconstruction_error: 63.5164 - val_regularization_error: 21.3818
Epoch 734/1000
120/120 [=====] - 17s 139ms/step - loss: 40.0023 - reconstruction_error: 18.6777 - regularization_error: 21.3246 - val_loss: 80.1647 - val_reconstruction_error: 61.9608 - val_regularization_error: 18.2038
Epoch 735/1000
120/120 [=====] - 17s 136ms/step - loss: 39.9692 - reconstruction_error: 18.6430 - regularization_error: 21.3263 - val_loss: 79.6533 - val_reconstruction_error: 60.3713 - val_regularization_error: 19.2820
Epoch 736/1000
120/120 [=====] - 18s 149ms/step - loss: 39.8201 - reconstruction_error: 18.4973 - regularization_error: 21.3228 - val_loss: 81.5034 - val_reconstruction_error: 61.5982 - val_regularization_error: 19.9053
Epoch 737/1000
120/120 [=====] - 17s 139ms/step - loss: 39.9495 - reconstruction_error: 18.4631 - regularization_error: 21.4865 - val_loss: 80.2752 - val_reconstruction_error: 60.3773 - val_regularization_error: 19.8979
Epoch 738/1000
120/120 [=====] - 18s 152ms/step - loss: 39.8073 - reconstruction_error: 18.5432 - regularization_error: 21.2641 - val_loss: 82.1896 - val_reconstruction_error: 62.9330 - val_regularization_error: 19.2567
Epoch 739/1000
120/120 [=====] - 17s 140ms/step - loss: 39.8742 - reconstruction_error: 18.5870 - regularization_error: 21.2872 - val_loss: 80.4415 - val_reconstruction_error: 61.6765 - val_regularization_error: 18.7650
Epoch 740/1000
120/120 [=====] - 17s 141ms/step - loss: 39.8743 - reconstruction_error: 18.5844 - regularization_error: 21.2899 - val_loss: 82.5811 - val_reconstruction_error: 61.9576 - val_regularization_error: 20.6235
Epoch 741/1000
120/120 [=====] - ETA: 0s - loss: 39.7981 - reconstruction_error: 18.4617 - regularization_error: 21.3364
[2023-12-01 13:22:15.720212]: Reconstructing images for epoch 741 ...
```



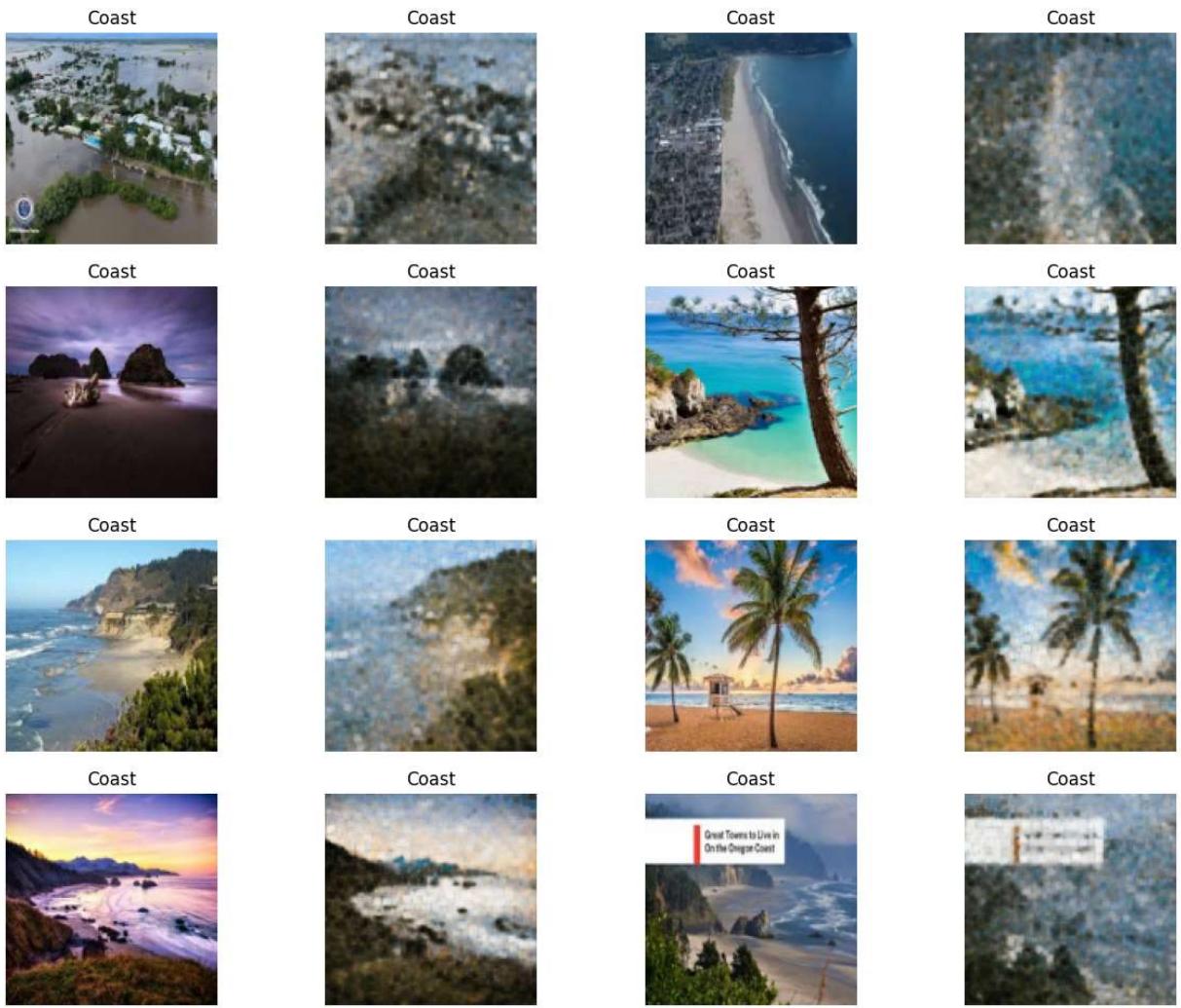
```
120/120 [=====] - 19s 157ms/step - loss: 39.7981 - reconstruction_error: 18.4617 - regularization_error: 21.3364 - val_loss: 80.1709 - val_reconstruction_error: 60.1055 - val_regularization_error: 20.0654
Epoch 742/1000
120/120 [=====] - 14s 117ms/step - loss: 39.8885 - reconstruction_error: 18.6252 - regularization_error: 21.2634 - val_loss: 82.6293 - val_reconstruction_error: 61.9661 - val_regularization_error: 20.6632
Epoch 743/1000
120/120 [=====] - 15s 119ms/step - loss: 39.8608 - reconstruction_error: 18.5316 - regularization_error: 21.3293 - val_loss: 80.6142 - val_reconstruction_error: 60.9524 - val_regularization_error: 19.6618
Epoch 744/1000
120/120 [=====] - 17s 137ms/step - loss: 40.2529 - reconstruction_error: 18.7577 - regularization_error: 21.4952 - val_loss: 82.1303 - val_reconstruction_error: 61.6930 - val_regularization_error: 20.4374
Epoch 745/1000
120/120 [=====] - 16s 134ms/step - loss: 39.7907 - reconstruction_error: 18.4650 - regularization_error: 21.3257 - val_loss: 80.1642 - val_reconstruction_error: 61.0362 - val_regularization_error: 19.1280
Epoch 746/1000
120/120 [=====] - 18s 151ms/step - loss: 39.8633 - reconstruction_error: 18.4651 - regularization_error: 21.3982 - val_loss: 83.0652 - val_reconstruction_error: 62.0851 - val_regularization_error: 20.9801
Epoch 747/1000
120/120 [=====] - 15s 124ms/step - loss: 39.8674 - reconstruction_error: 18.5741 - regularization_error: 21.2934 - val_loss: 80.8241 - val_reconstruction_error: 61.7012 - val_regularization_error: 19.1230
Epoch 748/1000
120/120 [=====] - 17s 144ms/step - loss: 39.6424 - reconstruction_error: 18.4103 - regularization_error: 21.2321 - val_loss: 80.0930 - val_reconstruction_error: 60.9209 - val_regularization_error: 19.1720
Epoch 749/1000
120/120 [=====] - 18s 149ms/step - loss: 39.7830 - reconstruction_error: 18.4840 - regularization_error: 21.2990 - val_loss: 81.4165 - val_reconstruction_error: 61.7717 - val_regularization_error: 19.6449
Epoch 750/1000
120/120 [=====] - 19s 153ms/step - loss: 39.6848 - reconstruction_error: 18.4225 - regularization_error: 21.2623 - val_loss: 81.4986 - val_reconstruction_error: 61.5516 - val_regularization_error: 19.9470
Epoch 751/1000
120/120 [=====] - ETA: 0s - loss: 39.9487 - reconstruction_error: 18.5359 - regularization_error: 21.4128
[2023-12-01 13:25:04.412542]: Reconstructing images for epoch 751 ...
```



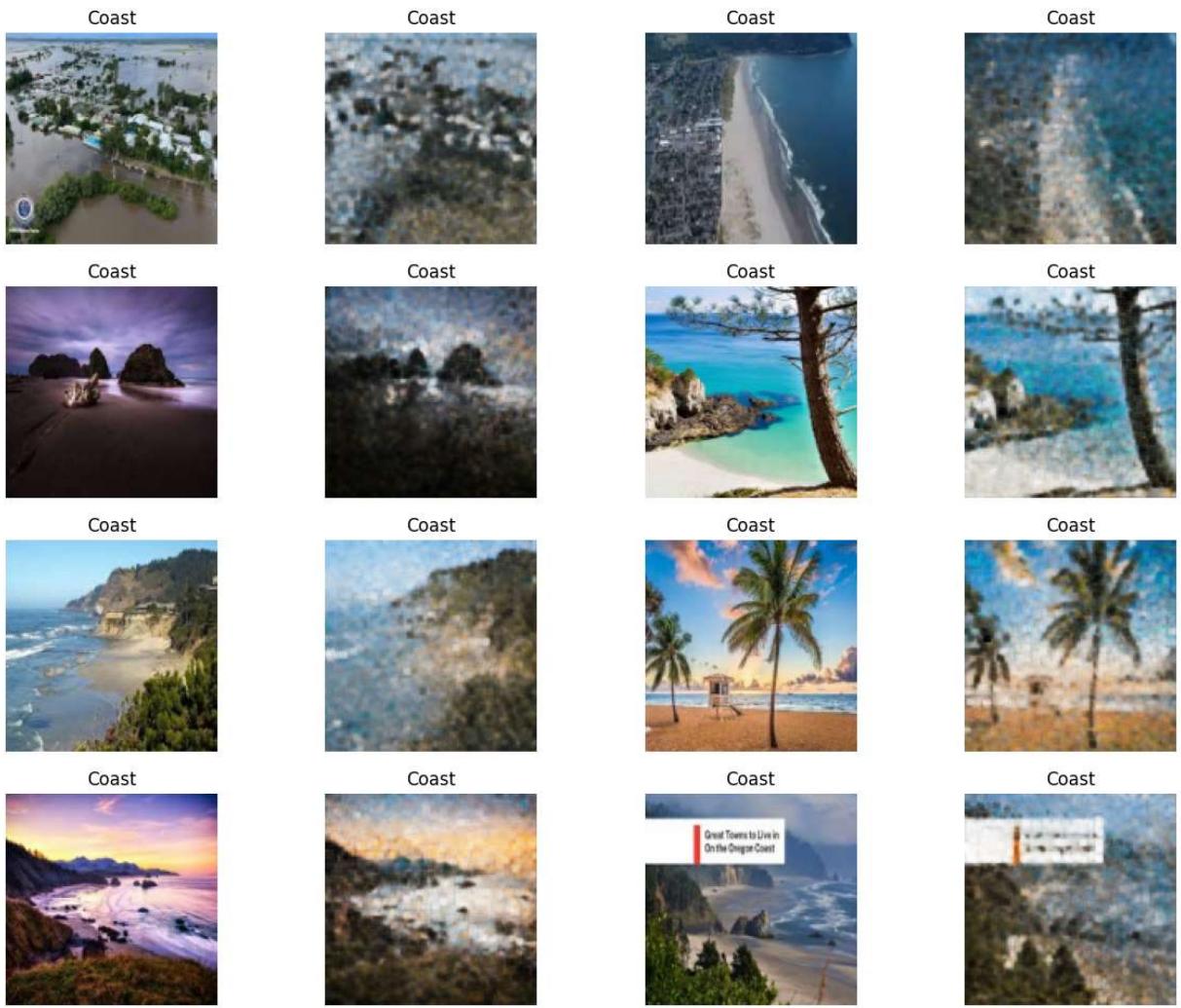
```
120/120 [=====] - 19s 156ms/step - loss: 39.9487 - reconstruction_error: 18.5359 - regularization_error: 21.4128 - val_loss: 81.3698 - val_reconstruction_error: 61.7714 - val_regularization_error: 19.5984
Epoch 752/1000
120/120 [=====] - 16s 136ms/step - loss: 39.9634 - reconstruction_error: 18.6221 - regularization_error: 21.3413 - val_loss: 80.8296 - val_reconstruction_error: 61.5977 - val_regularization_error: 19.2319
Epoch 753/1000
120/120 [=====] - 17s 144ms/step - loss: 39.6068 - reconstruction_error: 18.4161 - regularization_error: 21.1906 - val_loss: 82.8475 - val_reconstruction_error: 62.1575 - val_regularization_error: 20.6901
Epoch 754/1000
120/120 [=====] - 17s 142ms/step - loss: 39.8350 - reconstruction_error: 18.5203 - regularization_error: 21.3146 - val_loss: 82.1373 - val_reconstruction_error: 61.9356 - val_regularization_error: 20.2017
Epoch 755/1000
120/120 [=====] - 15s 122ms/step - loss: 39.7663 - reconstruction_error: 18.3547 - regularization_error: 21.4116 - val_loss: 81.4346 - val_reconstruction_error: 62.1620 - val_regularization_error: 19.2727
Epoch 756/1000
120/120 [=====] - 17s 140ms/step - loss: 39.7154 - reconstruction_error: 18.4103 - regularization_error: 21.3051 - val_loss: 81.6380 - val_reconstruction_error: 61.7561 - val_regularization_error: 19.8819
Epoch 757/1000
120/120 [=====] - 17s 143ms/step - loss: 39.6487 - reconstruction_error: 18.4740 - regularization_error: 21.1747 - val_loss: 81.3208 - val_reconstruction_error: 61.8367 - val_regularization_error: 19.4842
Epoch 758/1000
120/120 [=====] - 17s 142ms/step - loss: 39.6704 - reconstruction_error: 18.3712 - regularization_error: 21.2992 - val_loss: 80.0097 - val_reconstruction_error: 61.2300 - val_regularization_error: 18.7797
Epoch 759/1000
120/120 [=====] - 16s 133ms/step - loss: 39.6964 - reconstruction_error: 18.4173 - regularization_error: 21.2791 - val_loss: 81.9412 - val_reconstruction_error: 61.4366 - val_regularization_error: 20.5046
Epoch 760/1000
120/120 [=====] - 18s 146ms/step - loss: 39.6384 - reconstruction_error: 18.3334 - regularization_error: 21.3050 - val_loss: 80.9310 - val_reconstruction_error: 61.9974 - val_regularization_error: 18.9336
Epoch 761/1000
120/120 [=====] - ETA: 0s - loss: 39.6770 - reconstruction_error: 18.3686 - regularization_error: 21.3084
[2023-12-01 13:27:57.651269]: Reconstructing images for epoch 761 ...
```



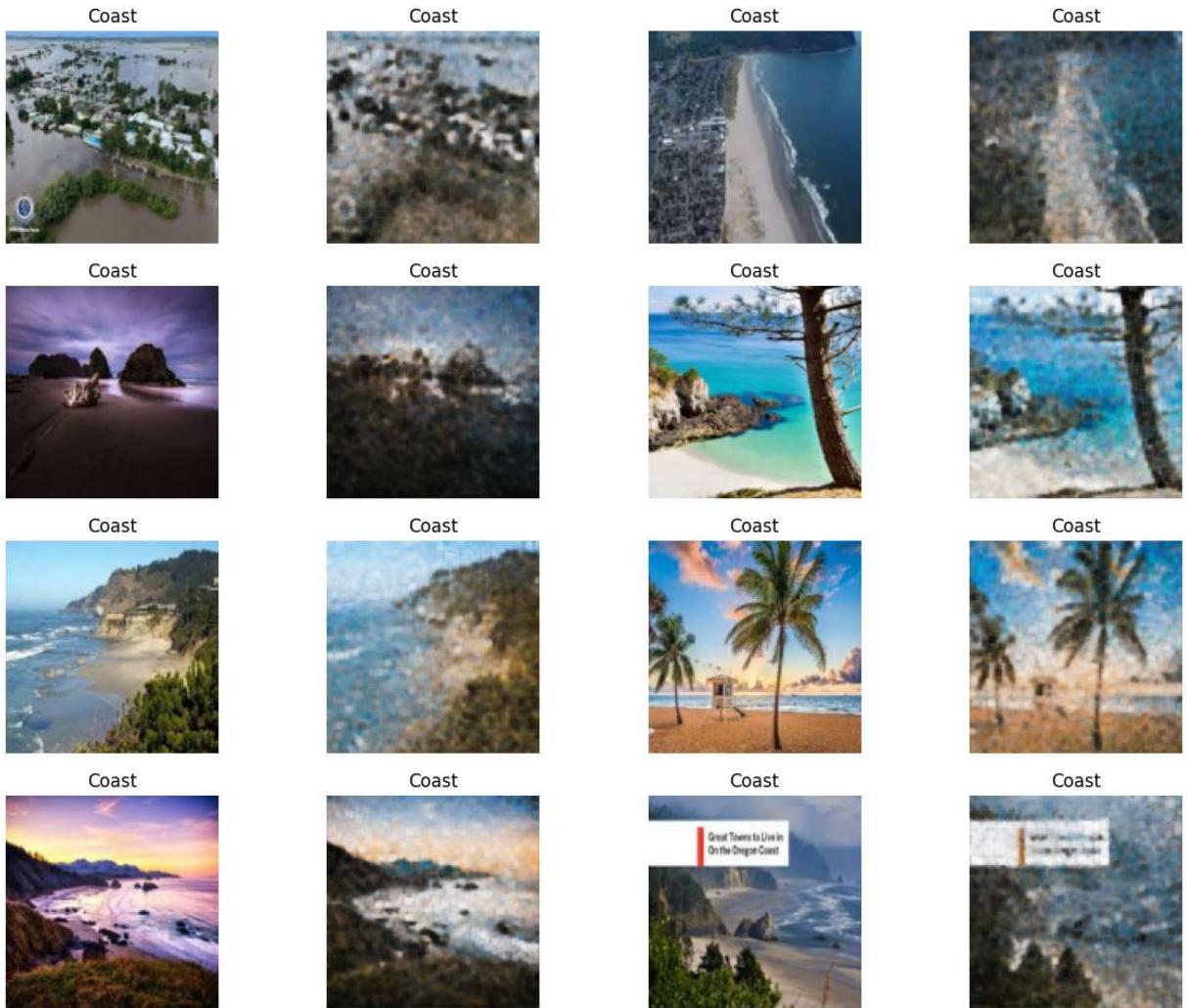
```
120/120 [=====] - 20s 169ms/step - loss: 39.6770 - reconstruction_error: 18.3686 - regularization_error: 21.3084 - val_loss: 81.6737 - val_reconstruction_error: 61.1581 - val_regularization_error: 20.5156
Epoch 762/1000
120/120 [=====] - 18s 154ms/step - loss: 39.6091 - reconstruction_error: 18.2763 - regularization_error: 21.3329 - val_loss: 81.1466 - val_reconstruction_error: 61.1144 - val_regularization_error: 20.0322
Epoch 763/1000
120/120 [=====] - 14s 116ms/step - loss: 39.6629 - reconstruction_error: 18.4171 - regularization_error: 21.2458 - val_loss: 82.3503 - val_reconstruction_error: 61.4475 - val_regularization_error: 20.9028
Epoch 764/1000
120/120 [=====] - 17s 139ms/step - loss: 39.6440 - reconstruction_error: 18.3192 - regularization_error: 21.3248 - val_loss: 80.2460 - val_reconstruction_error: 60.5026 - val_regularization_error: 19.7434
Epoch 765/1000
120/120 [=====] - 17s 138ms/step - loss: 39.7428 - reconstruction_error: 18.4760 - regularization_error: 21.2668 - val_loss: 81.1057 - val_reconstruction_error: 61.9394 - val_regularization_error: 19.1663
Epoch 766/1000
120/120 [=====] - 17s 145ms/step - loss: 39.7766 - reconstruction_error: 18.4383 - regularization_error: 21.3384 - val_loss: 81.6390 - val_reconstruction_error: 61.3212 - val_regularization_error: 20.3177
Epoch 767/1000
120/120 [=====] - 13s 110ms/step - loss: 39.6844 - reconstruction_error: 18.3746 - regularization_error: 21.3098 - val_loss: 81.7608 - val_reconstruction_error: 61.6192 - val_regularization_error: 20.1416
Epoch 768/1000
120/120 [=====] - 18s 147ms/step - loss: 39.5072 - reconstruction_error: 18.3016 - regularization_error: 21.2056 - val_loss: 80.9711 - val_reconstruction_error: 61.0954 - val_regularization_error: 19.8756
Epoch 769/1000
120/120 [=====] - 17s 142ms/step - loss: 39.8260 - reconstruction_error: 18.4083 - regularization_error: 21.4177 - val_loss: 80.2166 - val_reconstruction_error: 60.8055 - val_regularization_error: 19.4111
Epoch 770/1000
120/120 [=====] - 18s 153ms/step - loss: 39.7585 - reconstruction_error: 18.3801 - regularization_error: 21.3783 - val_loss: 82.2053 - val_reconstruction_error: 61.8992 - val_regularization_error: 20.3061
Epoch 771/1000
120/120 [=====] - ETA: 0s - loss: 39.7668 - reconstruction_error: 18.5476 - regularization_error: 21.2192
[2023-12-01 13:30:50.169852]: Reconstructing images for epoch 771 ...
```



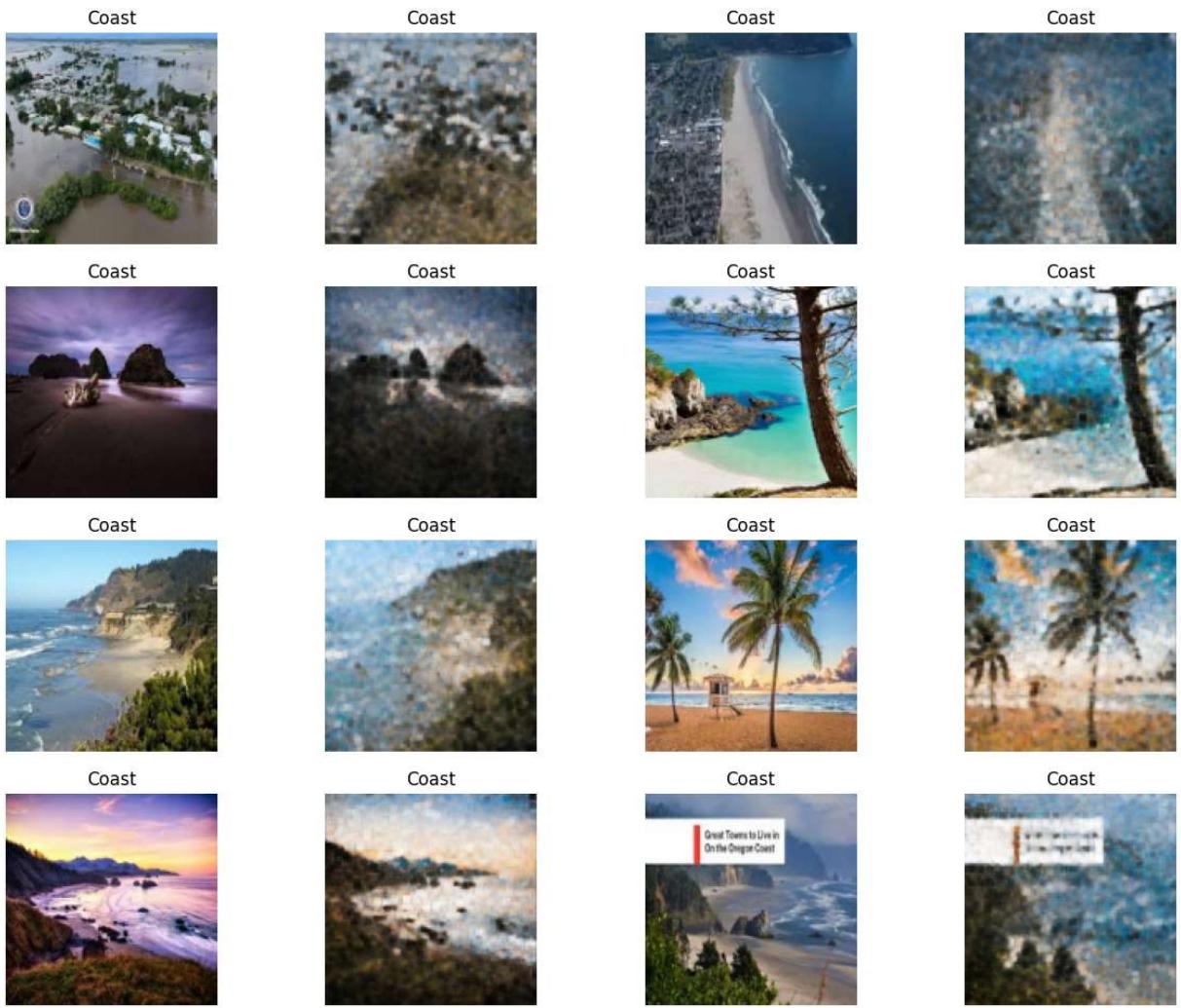
```
120/120 [=====] - 20s 162ms/step - loss: 39.7668 - reconstruction_error: 18.5476 - regularization_error: 21.2192 - val_loss: 81.4741 - val_reconstruction_error: 62.1331 - val_regularization_error: 19.3409
Epoch 772/1000
120/120 [=====] - 17s 144ms/step - loss: 39.7339 - reconstruction_error: 18.4930 - regularization_error: 21.2409 - val_loss: 81.8821 - val_reconstruction_error: 61.7910 - val_regularization_error: 20.0912
Epoch 773/1000
120/120 [=====] - 18s 153ms/step - loss: 39.5405 - reconstruction_error: 18.2684 - regularization_error: 21.2721 - val_loss: 82.1725 - val_reconstruction_error: 62.1615 - val_regularization_error: 20.0110
Epoch 774/1000
120/120 [=====] - 15s 123ms/step - loss: 39.5481 - reconstruction_error: 18.2679 - regularization_error: 21.2801 - val_loss: 81.3289 - val_reconstruction_error: 61.7847 - val_regularization_error: 19.5442
Epoch 775/1000
120/120 [=====] - 17s 141ms/step - loss: 39.7237 - reconstruction_error: 18.3961 - regularization_error: 21.3276 - val_loss: 80.3262 - val_reconstruction_error: 61.2237 - val_regularization_error: 19.1025
Epoch 776/1000
120/120 [=====] - 17s 140ms/step - loss: 39.7245 - reconstruction_error: 18.3232 - regularization_error: 21.4013 - val_loss: 82.5327 - val_reconstruction_error: 62.4525 - val_regularization_error: 20.0802
Epoch 777/1000
120/120 [=====] - 19s 159ms/step - loss: 39.6477 - reconstruction_error: 18.2977 - regularization_error: 21.3501 - val_loss: 81.0955 - val_reconstruction_error: 61.7532 - val_regularization_error: 19.3423
Epoch 778/1000
120/120 [=====] - 16s 133ms/step - loss: 39.7006 - reconstruction_error: 18.4658 - regularization_error: 21.2348 - val_loss: 81.2752 - val_reconstruction_error: 61.7032 - val_regularization_error: 19.5719
Epoch 779/1000
120/120 [=====] - 18s 149ms/step - loss: 39.5358 - reconstruction_error: 18.2848 - regularization_error: 21.2510 - val_loss: 80.9609 - val_reconstruction_error: 61.7354 - val_regularization_error: 19.2255
Epoch 780/1000
120/120 [=====] - 16s 131ms/step - loss: 39.4329 - reconstruction_error: 18.2516 - regularization_error: 21.1813 - val_loss: 81.3947 - val_reconstruction_error: 61.6686 - val_regularization_error: 19.7260
Epoch 781/1000
120/120 [=====] - ETA: 0s - loss: 39.6612 - reconstruction_error: 18.3360 - regularization_error: 21.3252
[2023-12-01 13:33:47.529532]: Reconstructing images for epoch 781 ...
```



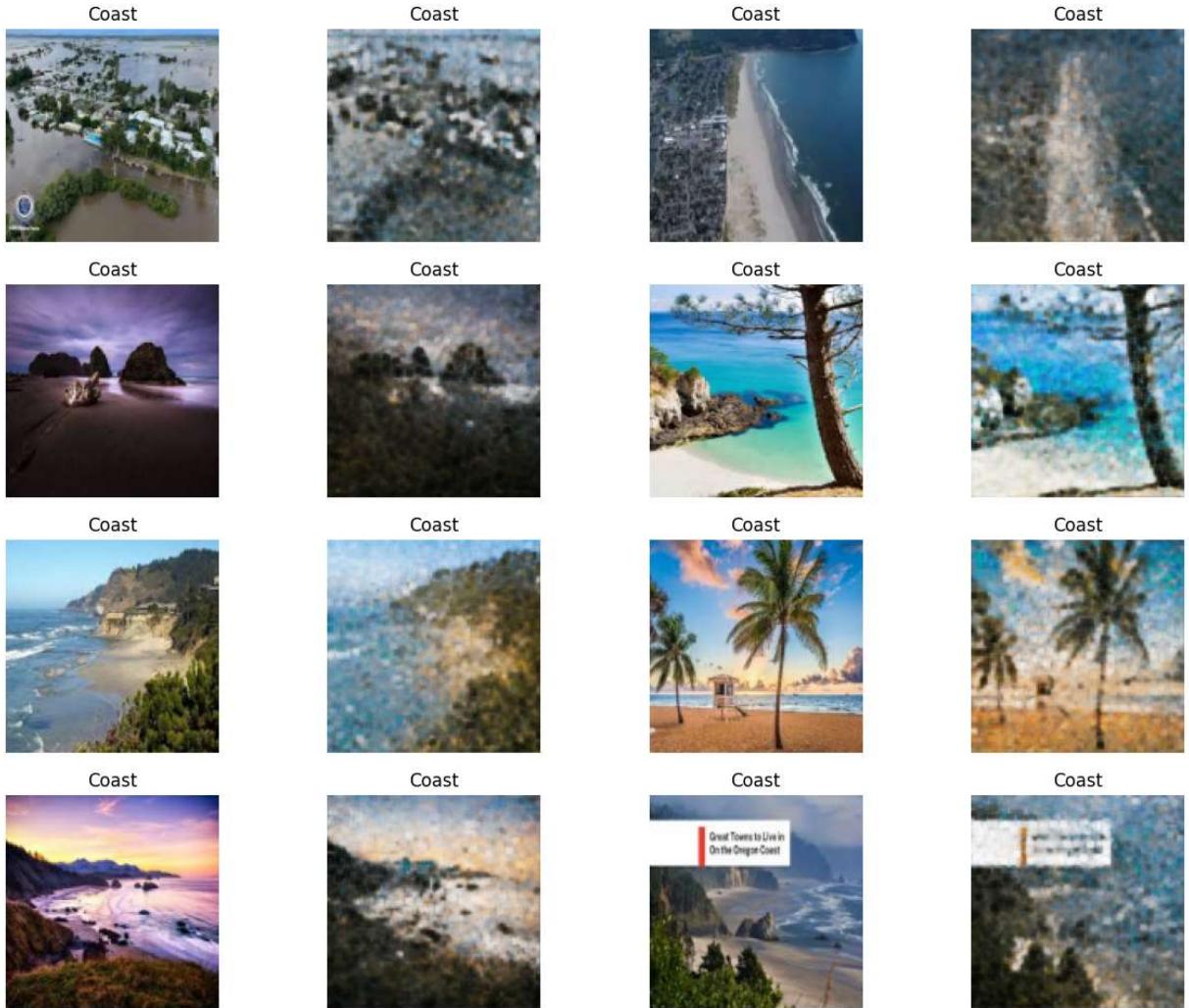
```
120/120 [=====] - 21s 173ms/step - loss: 39.6612 - reconstruction_error: 18.3360 - regularization_error: 21.3252 - val_loss: 80.9417 - val_reconstruction_error: 61.8332 - val_regularization_error: 19.1085
Epoch 782/1000
120/120 [=====] - 16s 128ms/step - loss: 39.5562 - reconstruction_error: 18.3020 - regularization_error: 21.2542 - val_loss: 84.4975 - val_reconstruction_error: 64.7932 - val_regularization_error: 19.7043
Epoch 783/1000
120/120 [=====] - 17s 141ms/step - loss: 39.4326 - reconstruction_error: 18.2972 - regularization_error: 21.1354 - val_loss: 81.3054 - val_reconstruction_error: 61.4374 - val_regularization_error: 19.8680
Epoch 784/1000
120/120 [=====] - 16s 137ms/step - loss: 39.5015 - reconstruction_error: 18.2423 - regularization_error: 21.2592 - val_loss: 81.7922 - val_reconstruction_error: 61.3742 - val_regularization_error: 20.4180
Epoch 785/1000
120/120 [=====] - 19s 158ms/step - loss: 39.6956 - reconstruction_error: 18.3325 - regularization_error: 21.3631 - val_loss: 81.1174 - val_reconstruction_error: 62.4137 - val_regularization_error: 18.7038
Epoch 786/1000
120/120 [=====] - 16s 132ms/step - loss: 39.4300 - reconstruction_error: 18.2557 - regularization_error: 21.1743 - val_loss: 81.9098 - val_reconstruction_error: 61.8573 - val_regularization_error: 20.0525
Epoch 787/1000
120/120 [=====] - 18s 152ms/step - loss: 39.5984 - reconstruction_error: 18.2873 - regularization_error: 21.3111 - val_loss: 80.4032 - val_reconstruction_error: 61.2273 - val_regularization_error: 19.1759
Epoch 788/1000
120/120 [=====] - 17s 142ms/step - loss: 39.4064 - reconstruction_error: 18.1871 - regularization_error: 21.2193 - val_loss: 81.5026 - val_reconstruction_error: 61.8133 - val_regularization_error: 19.6893
Epoch 789/1000
120/120 [=====] - 15s 128ms/step - loss: 39.6315 - reconstruction_error: 18.3364 - regularization_error: 21.2952 - val_loss: 82.2231 - val_reconstruction_error: 62.0930 - val_regularization_error: 20.1301
Epoch 790/1000
120/120 [=====] - 18s 151ms/step - loss: 39.5776 - reconstruction_error: 18.2557 - regularization_error: 21.3219 - val_loss: 82.8900 - val_reconstruction_error: 61.7407 - val_regularization_error: 21.1493
Epoch 791/1000
120/120 [=====] - ETA: 0s - loss: 39.5946 - reconstruction_error: 18.2800 - regularization_error: 21.3146
[2023-12-01 13:36:42.699962]: Reconstructing images for epoch 791 ...
```



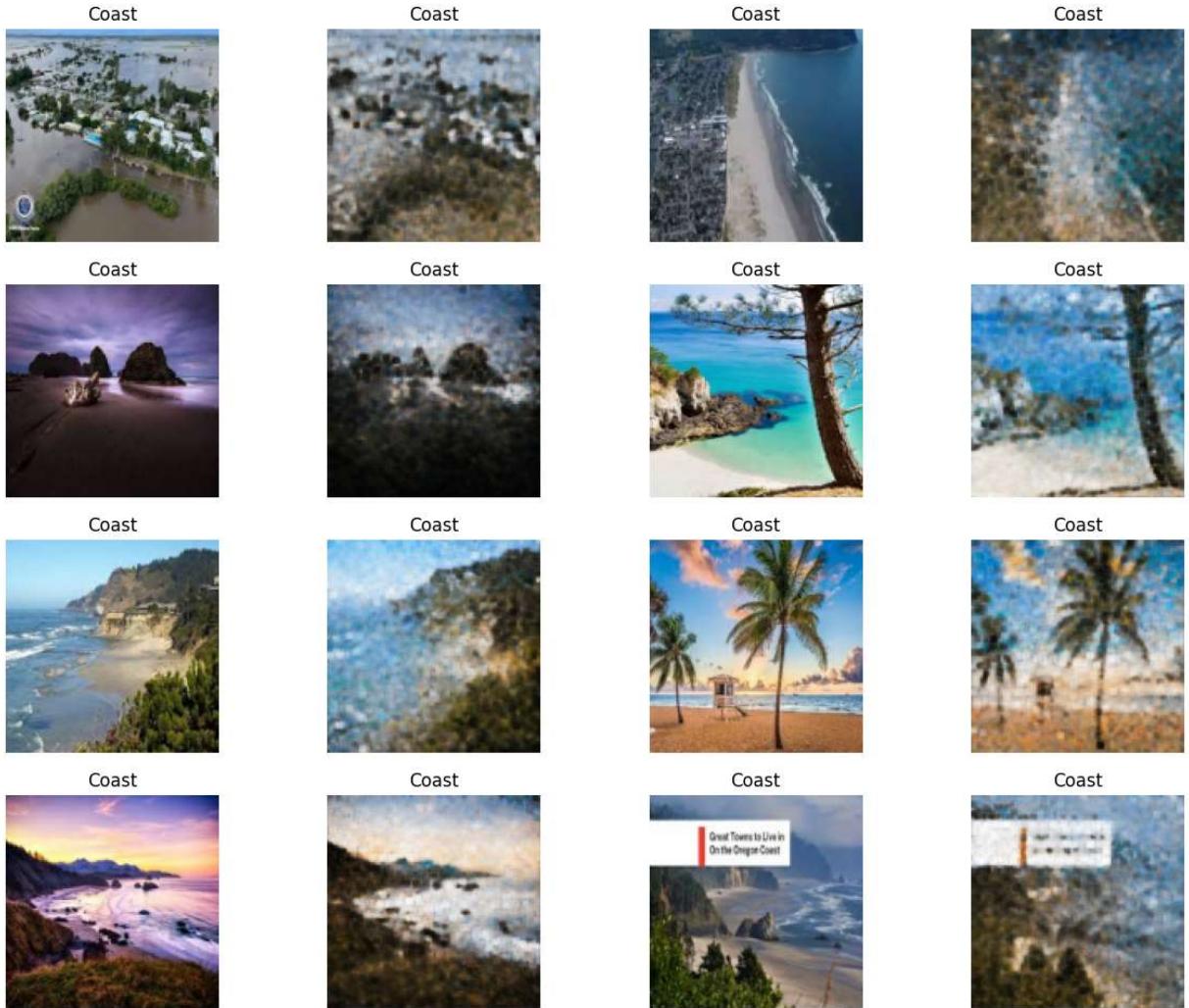
```
120/120 [=====] - 20s 167ms/step - loss: 39.5946 - reconstruction_error: 18.2800 - regularization_error: 21.3146 - val_loss: 81.2705 - val_reconstruction_error: 61.8058 - val_regularization_error: 19.4647
Epoch 792/1000
120/120 [=====] - 16s 132ms/step - loss: 39.5509 - reconstruction_error: 18.2814 - regularization_error: 21.2695 - val_loss: 81.8319 - val_reconstruction_error: 62.1828 - val_regularization_error: 19.6490
Epoch 793/1000
120/120 [=====] - 16s 133ms/step - loss: 39.7333 - reconstruction_error: 18.2721 - regularization_error: 21.4613 - val_loss: 81.5393 - val_reconstruction_error: 60.9294 - val_regularization_error: 20.6099
Epoch 794/1000
120/120 [=====] - 15s 125ms/step - loss: 39.3347 - reconstruction_error: 18.2477 - regularization_error: 21.0870 - val_loss: 80.8181 - val_reconstruction_error: 61.4966 - val_regularization_error: 19.3215
Epoch 795/1000
120/120 [=====] - 16s 133ms/step - loss: 39.4152 - reconstruction_error: 18.1773 - regularization_error: 21.2379 - val_loss: 82.3870 - val_reconstruction_error: 61.8964 - val_regularization_error: 20.4905
Epoch 796/1000
120/120 [=====] - 18s 147ms/step - loss: 39.5441 - reconstruction_error: 18.1621 - regularization_error: 21.3820 - val_loss: 81.7125 - val_reconstruction_error: 60.7391 - val_regularization_error: 20.9734
Epoch 797/1000
120/120 [=====] - 15s 125ms/step - loss: 39.5251 - reconstruction_error: 18.3045 - regularization_error: 21.2206 - val_loss: 83.4357 - val_reconstruction_error: 62.8139 - val_regularization_error: 20.6218
Epoch 798/1000
120/120 [=====] - 16s 132ms/step - loss: 39.3918 - reconstruction_error: 18.2119 - regularization_error: 21.1798 - val_loss: 83.2113 - val_reconstruction_error: 61.8979 - val_regularization_error: 21.3133
Epoch 799/1000
120/120 [=====] - 14s 118ms/step - loss: 39.3398 - reconstruction_error: 18.1145 - regularization_error: 21.2252 - val_loss: 81.4707 - val_reconstruction_error: 62.5381 - val_regularization_error: 18.9326
Epoch 800/1000
120/120 [=====] - 19s 156ms/step - loss: 39.3523 - reconstruction_error: 18.1592 - regularization_error: 21.1931 - val_loss: 81.2361 - val_reconstruction_error: 61.9556 - val_regularization_error: 19.2805
Epoch 801/1000
120/120 [=====] - ETA: 0s - loss: 39.5846 - reconstruction_error: 18.2892 - regularization_error: 21.2954
[2023-12-01 13:39:35.947082]: Reconstructing images for epoch 801 ...
```



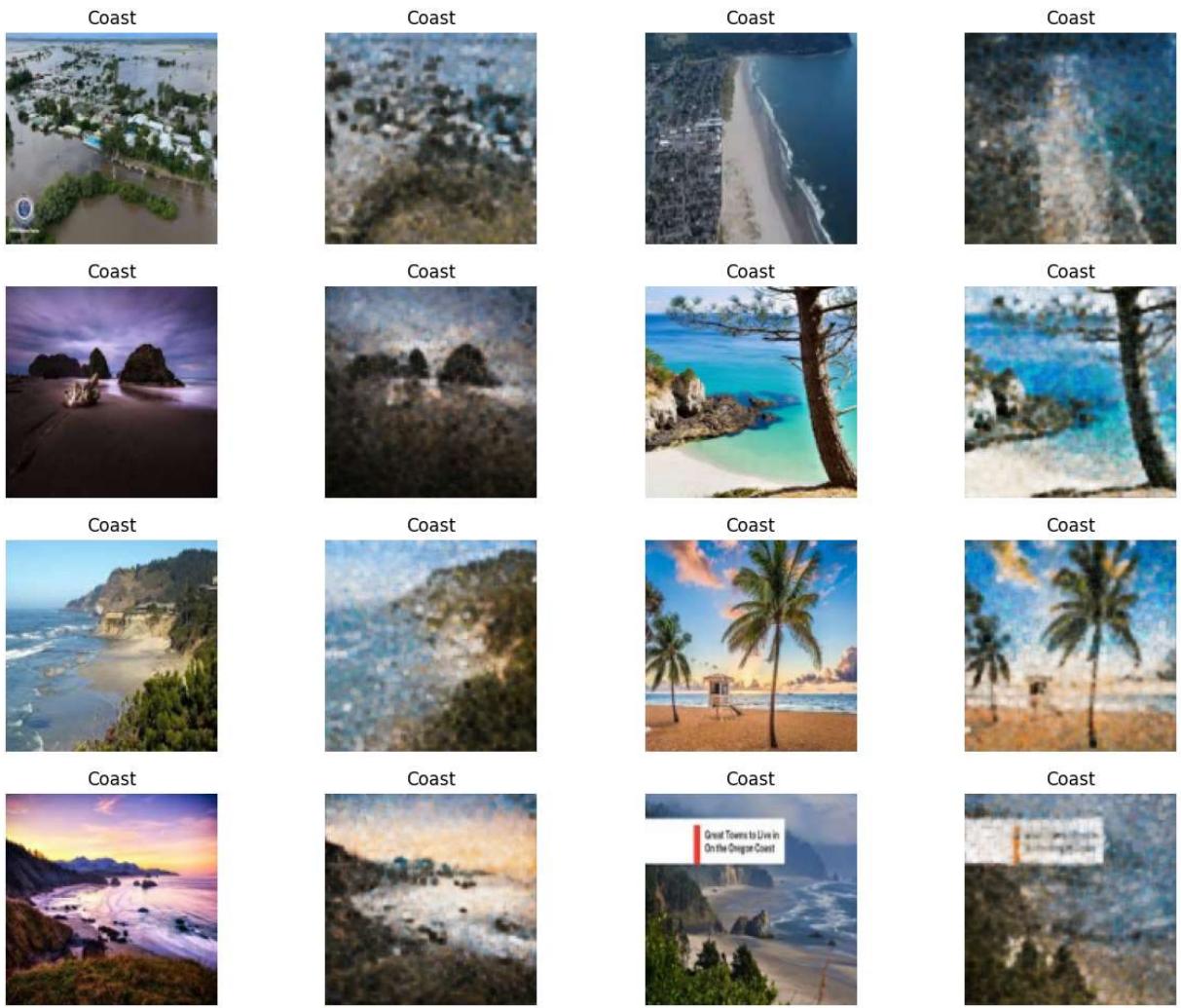
```
120/120 [=====] - 20s 167ms/step - loss: 39.5846 - reconstruction_error: 18.2892 - regularization_error: 21.2954 - val_loss: 80.8811 - val_reconstruction_error: 60.9170 - val_regularization_error: 19.9641
Epoch 802/1000
120/120 [=====] - 16s 130ms/step - loss: 39.7005 - reconstruction_error: 18.4405 - regularization_error: 21.2601 - val_loss: 81.1729 - val_reconstruction_error: 61.2862 - val_regularization_error: 19.8867
Epoch 803/1000
120/120 [=====] - 17s 142ms/step - loss: 39.5818 - reconstruction_error: 18.3413 - regularization_error: 21.2405 - val_loss: 82.2482 - val_reconstruction_error: 62.1076 - val_regularization_error: 20.1406
Epoch 804/1000
120/120 [=====] - 17s 137ms/step - loss: 39.4056 - reconstruction_error: 18.1747 - regularization_error: 21.2308 - val_loss: 81.7853 - val_reconstruction_error: 61.8066 - val_regularization_error: 19.9787
Epoch 805/1000
120/120 [=====] - 18s 147ms/step - loss: 39.3700 - reconstruction_error: 18.1879 - regularization_error: 21.1821 - val_loss: 81.4966 - val_reconstruction_error: 62.0595 - val_regularization_error: 19.4371
Epoch 806/1000
120/120 [=====] - 18s 147ms/step - loss: 39.3025 - reconstruction_error: 18.0831 - regularization_error: 21.2194 - val_loss: 82.0681 - val_reconstruction_error: 62.5251 - val_regularization_error: 19.5430
Epoch 807/1000
120/120 [=====] - 17s 143ms/step - loss: 39.3951 - reconstruction_error: 18.0522 - regularization_error: 21.3430 - val_loss: 81.8729 - val_reconstruction_error: 62.7754 - val_regularization_error: 19.0975
Epoch 808/1000
120/120 [=====] - 18s 149ms/step - loss: 39.6009 - reconstruction_error: 18.2609 - regularization_error: 21.3400 - val_loss: 81.7893 - val_reconstruction_error: 61.8439 - val_regularization_error: 19.9453
Epoch 809/1000
120/120 [=====] - 18s 149ms/step - loss: 39.3775 - reconstruction_error: 18.1041 - regularization_error: 21.2734 - val_loss: 82.0228 - val_reconstruction_error: 61.5460 - val_regularization_error: 20.4767
Epoch 810/1000
120/120 [=====] - 16s 135ms/step - loss: 39.3630 - reconstruction_error: 18.1208 - regularization_error: 21.2423 - val_loss: 81.6639 - val_reconstruction_error: 62.0503 - val_regularization_error: 19.6136
Epoch 811/1000
120/120 [=====] - ETA: 0s - loss: 39.5502 - reconstruction_error: 18.2151 - regularization_error: 21.3350
[2023-12-01 13:42:31.558824]: Reconstructing images for epoch 811 ...
```



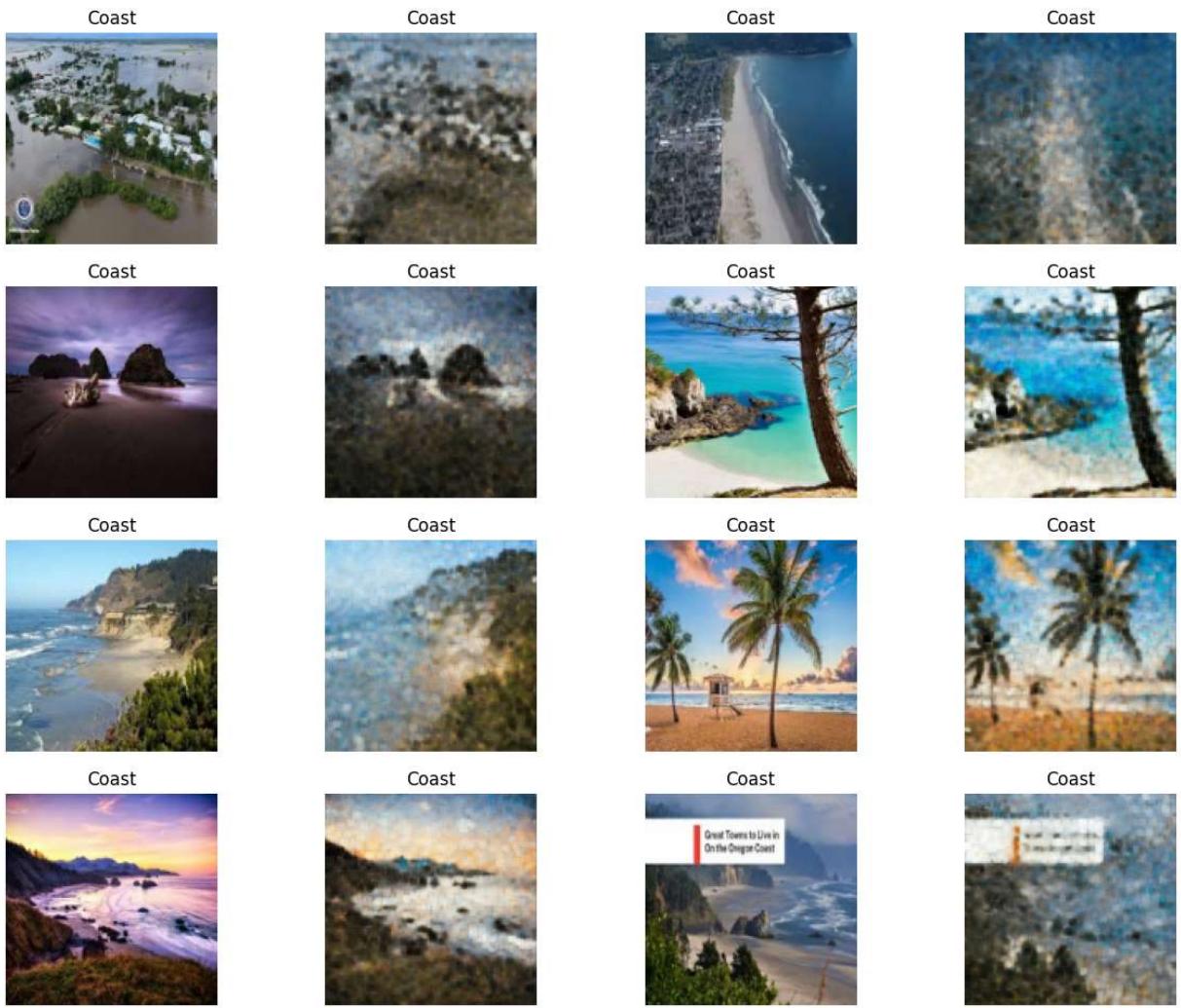
```
120/120 [=====] - 18s 149ms/step - loss: 39.5502 - reconstruction_error: 18.2151 - regularization_error: 21.3350 - val_loss: 81.8823 - val_reconstruction_error: 61.7415 - val_regularization_error: 20.1408
Epoch 812/1000
120/120 [=====] - 15s 123ms/step - loss: 39.4936 - reconstruction_error: 18.2194 - regularization_error: 21.2742 - val_loss: 81.2977 - val_reconstruction_error: 61.3852 - val_regularization_error: 19.9126
Epoch 813/1000
120/120 [=====] - 18s 146ms/step - loss: 39.2738 - reconstruction_error: 18.0695 - regularization_error: 21.2044 - val_loss: 80.4890 - val_reconstruction_error: 61.1899 - val_regularization_error: 19.2991
Epoch 814/1000
120/120 [=====] - 17s 138ms/step - loss: 39.2771 - reconstruction_error: 18.1489 - regularization_error: 21.1282 - val_loss: 82.2949 - val_reconstruction_error: 61.7143 - val_regularization_error: 20.5805
Epoch 815/1000
120/120 [=====] - 16s 135ms/step - loss: 39.3601 - reconstruction_error: 18.1957 - regularization_error: 21.1644 - val_loss: 82.2528 - val_reconstruction_error: 62.3077 - val_regularization_error: 19.9451
Epoch 816/1000
120/120 [=====] - 17s 138ms/step - loss: 39.3939 - reconstruction_error: 18.1364 - regularization_error: 21.2575 - val_loss: 81.1384 - val_reconstruction_error: 61.3585 - val_regularization_error: 19.7800
Epoch 817/1000
120/120 [=====] - 17s 143ms/step - loss: 39.4478 - reconstruction_error: 18.1686 - regularization_error: 21.2791 - val_loss: 81.3400 - val_reconstruction_error: 62.0510 - val_regularization_error: 19.2891
Epoch 818/1000
120/120 [=====] - 18s 147ms/step - loss: 39.3241 - reconstruction_error: 18.1315 - regularization_error: 21.1927 - val_loss: 82.4143 - val_reconstruction_error: 62.8040 - val_regularization_error: 19.6103
Epoch 819/1000
120/120 [=====] - 17s 140ms/step - loss: 39.2297 - reconstruction_error: 18.0858 - regularization_error: 21.1439 - val_loss: 81.0269 - val_reconstruction_error: 61.1846 - val_regularization_error: 19.8423
Epoch 820/1000
120/120 [=====] - 18s 148ms/step - loss: 39.2850 - reconstruction_error: 18.1169 - regularization_error: 21.1681 - val_loss: 80.9614 - val_reconstruction_error: 62.0840 - val_regularization_error: 18.8774
Epoch 821/1000
120/120 [=====] - ETA: 0s - loss: 39.2135 - reconstruction_error: 18.0037 - regularization_error: 21.2098
[2023-12-01 13:45:25.073689]: Reconstructing images for epoch 821 ...
```



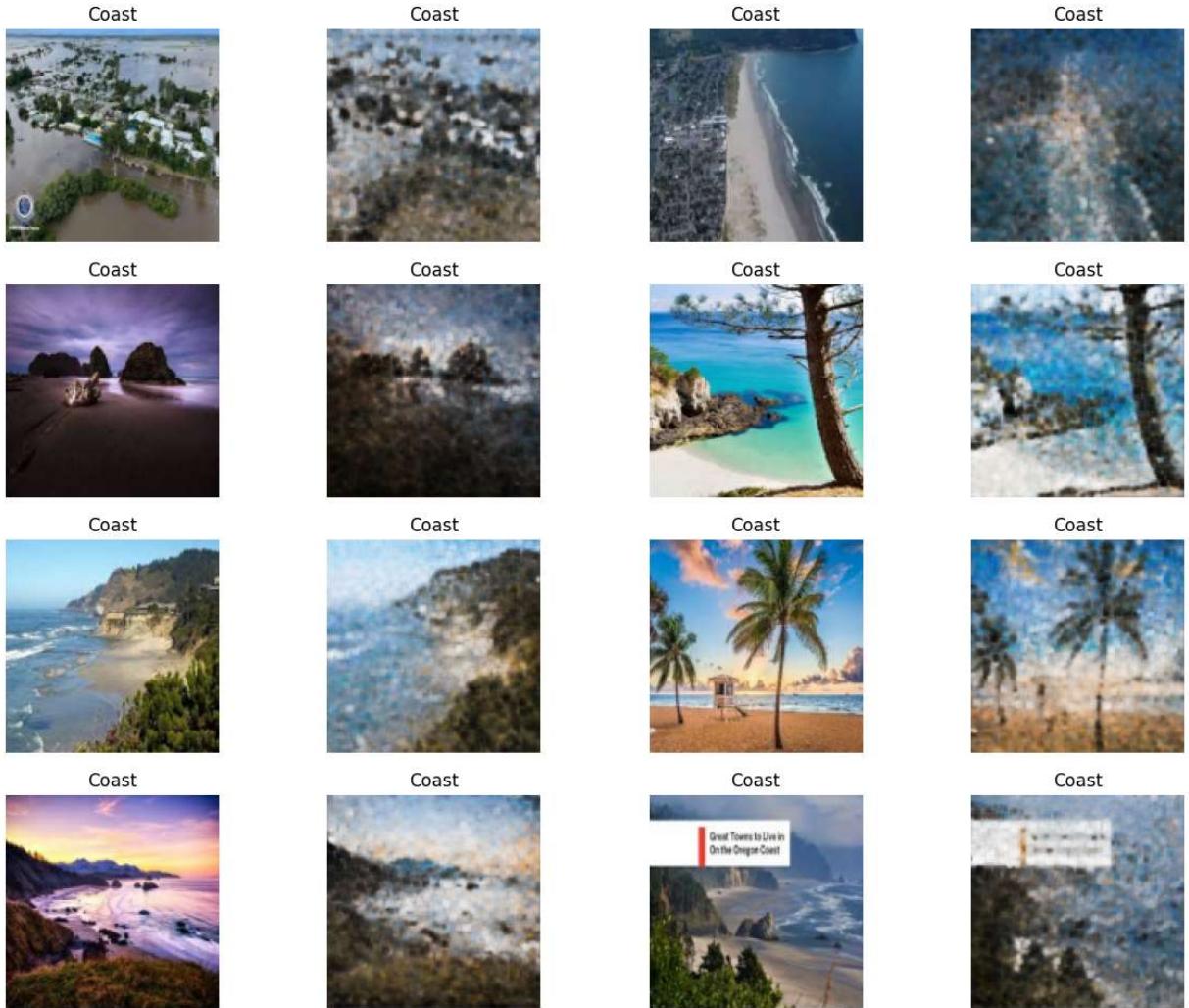
```
120/120 [=====] - 20s 170ms/step - loss: 39.2135 - reconstruction_error: 18.0037 - regularization_error: 21.2098 - val_loss: 81.5934 - val_reconstruction_error: 61.4828 - val_regularization_error: 20.1106
Epoch 822/1000
120/120 [=====] - 17s 144ms/step - loss: 39.3633 - reconstruction_error: 18.0506 - regularization_error: 21.3127 - val_loss: 81.7760 - val_reconstruction_error: 61.2588 - val_regularization_error: 20.5171
Epoch 823/1000
120/120 [=====] - 15s 123ms/step - loss: 39.3853 - reconstruction_error: 18.2253 - regularization_error: 21.1600 - val_loss: 82.8475 - val_reconstruction_error: 62.0752 - val_regularization_error: 20.7724
Epoch 824/1000
120/120 [=====] - 17s 137ms/step - loss: 39.2712 - reconstruction_error: 18.0604 - regularization_error: 21.2108 - val_loss: 81.3390 - val_reconstruction_error: 62.4583 - val_regularization_error: 18.8807
Epoch 825/1000
120/120 [=====] - 17s 142ms/step - loss: 39.2770 - reconstruction_error: 18.0537 - regularization_error: 21.2233 - val_loss: 81.4778 - val_reconstruction_error: 61.9597 - val_regularization_error: 19.5181
Epoch 826/1000
120/120 [=====] - 15s 124ms/step - loss: 39.2796 - reconstruction_error: 18.1287 - regularization_error: 21.1509 - val_loss: 82.6449 - val_reconstruction_error: 62.5796 - val_regularization_error: 20.0653
Epoch 827/1000
120/120 [=====] - 18s 144ms/step - loss: 39.4683 - reconstruction_error: 18.1411 - regularization_error: 21.3272 - val_loss: 81.7481 - val_reconstruction_error: 62.0318 - val_regularization_error: 19.7163
Epoch 828/1000
120/120 [=====] - 16s 128ms/step - loss: 39.5190 - reconstruction_error: 18.2155 - regularization_error: 21.3035 - val_loss: 82.2117 - val_reconstruction_error: 62.9068 - val_regularization_error: 19.3049
Epoch 829/1000
120/120 [=====] - 18s 148ms/step - loss: 39.0975 - reconstruction_error: 18.0146 - regularization_error: 21.0829 - val_loss: 81.7504 - val_reconstruction_error: 62.0516 - val_regularization_error: 19.6988
Epoch 830/1000
120/120 [=====] - 20s 160ms/step - loss: 39.2002 - reconstruction_error: 18.0070 - regularization_error: 21.1932 - val_loss: 81.5757 - val_reconstruction_error: 62.6978 - val_regularization_error: 18.8778
Epoch 831/1000
120/120 [=====] - ETA: 0s - loss: 39.3658 - reconstruction_error: 18.0457 - regularization_error: 21.3201
[2023-12-01 13:48:21.313873]: Reconstructing images for epoch 831 ...
```



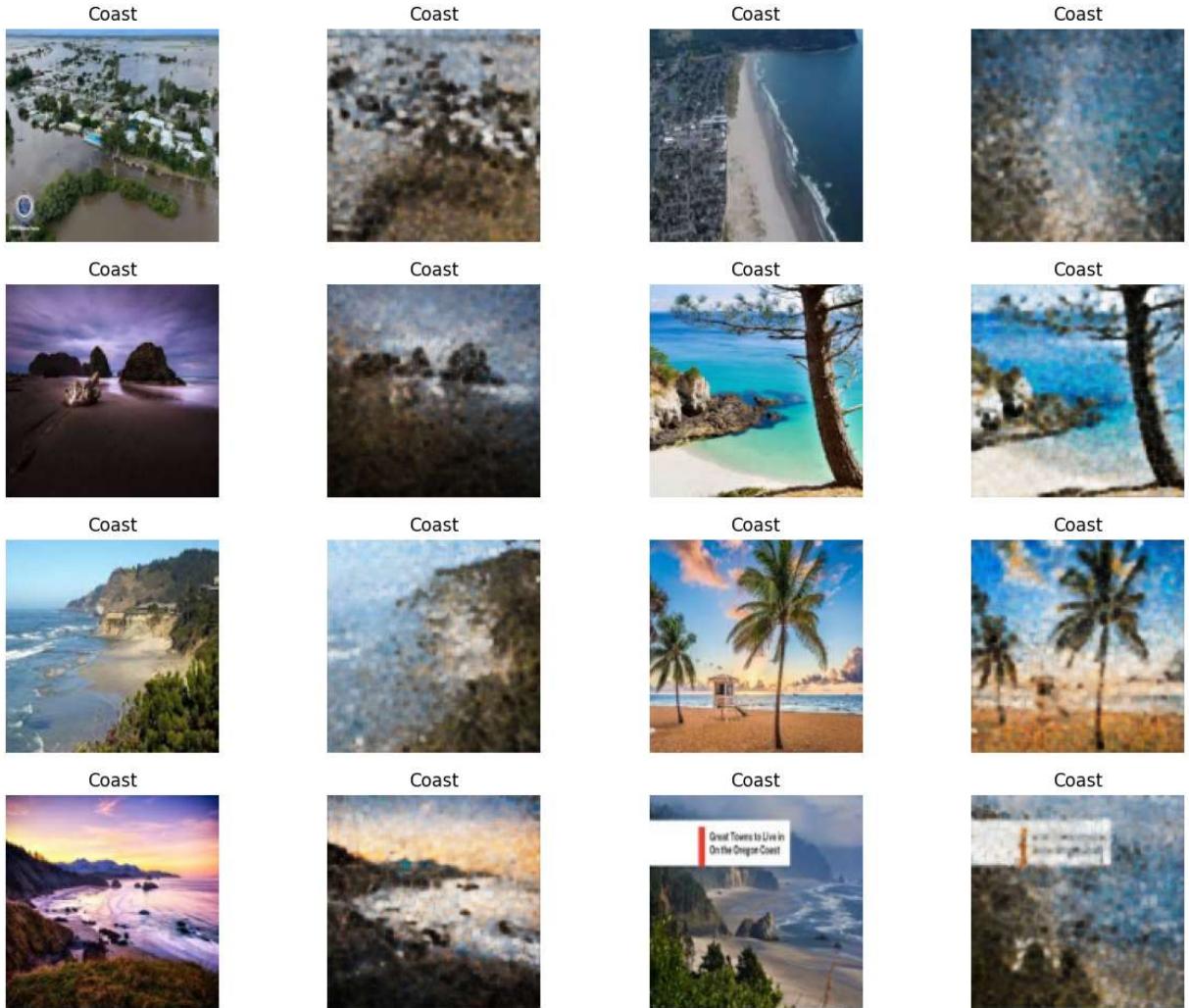
```
120/120 [=====] - 21s 178ms/step - loss: 39.3658 - reconstruction_error: 18.0457 - regularization_error: 21.3201 - val_loss: 82.5034 - val_reconstruction_error: 62.4996 - val_regularization_error: 20.0037
Epoch 832/1000
120/120 [=====] - 17s 142ms/step - loss: 39.4116 - reconstruction_error: 18.0831 - regularization_error: 21.3285 - val_loss: 81.8371 - val_reconstruction_error: 61.7957 - val_regularization_error: 20.0413
Epoch 833/1000
120/120 [=====] - 20s 163ms/step - loss: 39.2642 - reconstruction_error: 18.0967 - regularization_error: 21.1676 - val_loss: 82.3553 - val_reconstruction_error: 63.6049 - val_regularization_error: 18.7505
Epoch 834/1000
120/120 [=====] - 15s 127ms/step - loss: 39.1367 - reconstruction_error: 18.0881 - regularization_error: 21.0486 - val_loss: 81.2904 - val_reconstruction_error: 62.8194 - val_regularization_error: 18.4710
Epoch 835/1000
120/120 [=====] - 19s 154ms/step - loss: 39.2258 - reconstruction_error: 18.0426 - regularization_error: 21.1832 - val_loss: 81.2742 - val_reconstruction_error: 61.8224 - val_regularization_error: 19.4518
Epoch 836/1000
120/120 [=====] - 19s 158ms/step - loss: 39.3472 - reconstruction_error: 18.0553 - regularization_error: 21.2919 - val_loss: 83.7268 - val_reconstruction_error: 63.7001 - val_regularization_error: 20.0267
Epoch 837/1000
120/120 [=====] - 15s 127ms/step - loss: 39.4592 - reconstruction_error: 18.1584 - regularization_error: 21.3008 - val_loss: 80.9768 - val_reconstruction_error: 61.6578 - val_regularization_error: 19.3191
Epoch 838/1000
120/120 [=====] - 17s 136ms/step - loss: 39.3316 - reconstruction_error: 18.0102 - regularization_error: 21.3215 - val_loss: 81.5095 - val_reconstruction_error: 61.6286 - val_regularization_error: 19.8810
Epoch 839/1000
120/120 [=====] - 17s 138ms/step - loss: 39.2015 - reconstruction_error: 18.0142 - regularization_error: 21.1873 - val_loss: 81.7502 - val_reconstruction_error: 62.0080 - val_regularization_error: 19.7422
Epoch 840/1000
120/120 [=====] - 17s 142ms/step - loss: 39.1996 - reconstruction_error: 18.0097 - regularization_error: 21.1899 - val_loss: 82.2972 - val_reconstruction_error: 61.7183 - val_regularization_error: 20.5789
Epoch 841/1000
120/120 [=====] - ETA: 0s - loss: 39.3237 - reconstruction_error: 18.0794 - regularization_error: 21.2444
[2023-12-01 13:51:18.654235]: Reconstructing images for epoch 841 ...
```



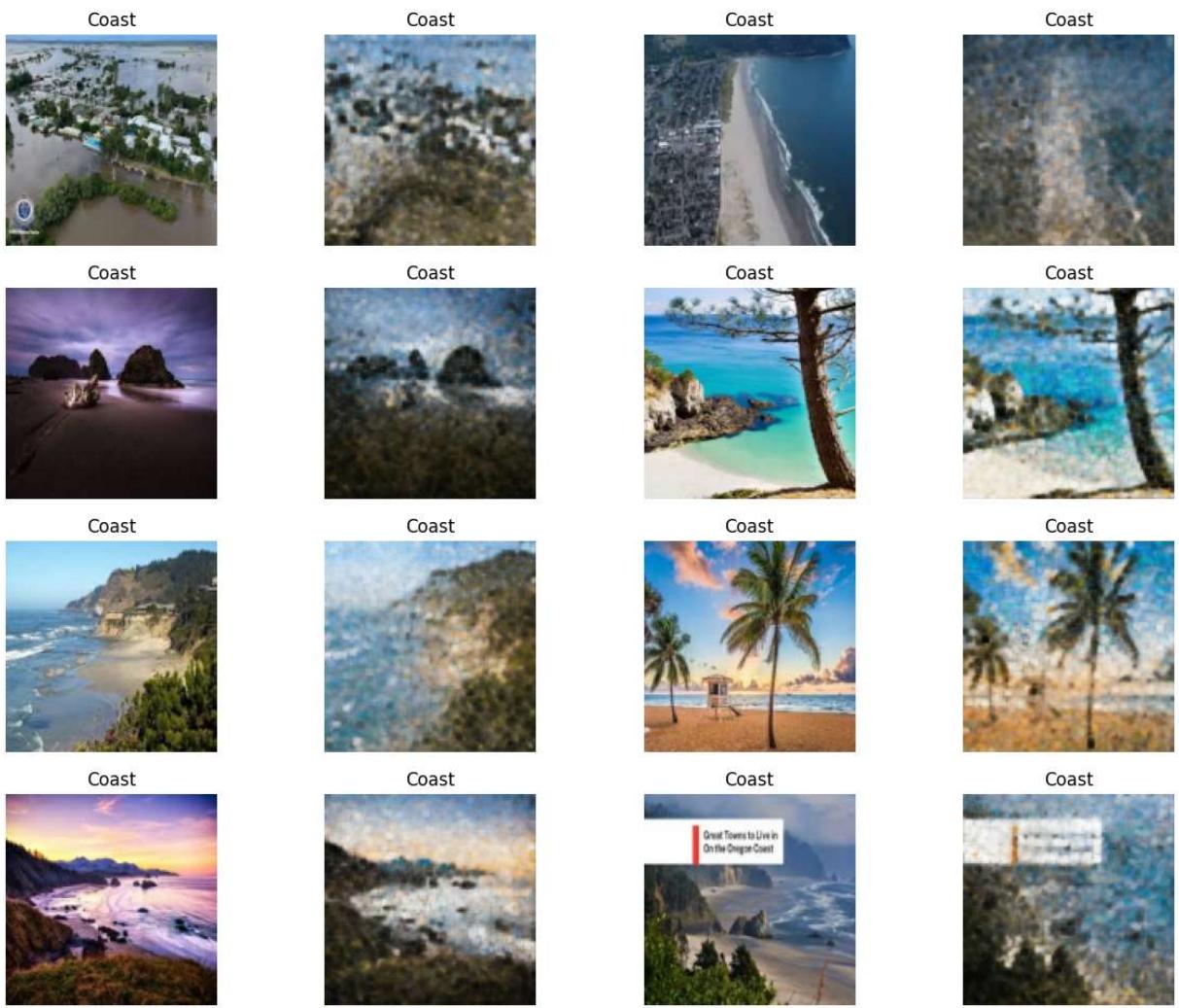
```
120/120 [=====] - 21s 170ms/step - loss: 39.3237 - reconstruction_error: 18.0794 - regularization_error: 21.2444 - val_loss: 82.0115 - val_reconstruction_error: 61.5642 - val_regularization_error: 20.4473
Epoch 842/1000
120/120 [=====] - 17s 145ms/step - loss: 39.3284 - reconstruction_error: 18.0537 - regularization_error: 21.2747 - val_loss: 81.1391 - val_reconstruction_error: 61.7107 - val_regularization_error: 19.4284
Epoch 843/1000
120/120 [=====] - 16s 133ms/step - loss: 39.3986 - reconstruction_error: 18.0247 - regularization_error: 21.3739 - val_loss: 82.7785 - val_reconstruction_error: 62.3017 - val_regularization_error: 20.4768
Epoch 844/1000
120/120 [=====] - 13s 110ms/step - loss: 39.2213 - reconstruction_error: 18.0594 - regularization_error: 21.1619 - val_loss: 81.4483 - val_reconstruction_error: 62.2351 - val_regularization_error: 19.2133
Epoch 845/1000
120/120 [=====] - 19s 158ms/step - loss: 39.1536 - reconstruction_error: 17.9918 - regularization_error: 21.1618 - val_loss: 80.5177 - val_reconstruction_error: 61.2076 - val_regularization_error: 19.3102
Epoch 846/1000
120/120 [=====] - 19s 155ms/step - loss: 39.0511 - reconstruction_error: 17.8850 - regularization_error: 21.1661 - val_loss: 80.6957 - val_reconstruction_error: 61.2828 - val_regularization_error: 19.4129
Epoch 847/1000
120/120 [=====] - 17s 140ms/step - loss: 39.0516 - reconstruction_error: 17.9220 - regularization_error: 21.1296 - val_loss: 81.1348 - val_reconstruction_error: 62.2574 - val_regularization_error: 18.8774
Epoch 848/1000
120/120 [=====] - 16s 133ms/step - loss: 39.2705 - reconstruction_error: 18.0520 - regularization_error: 21.2185 - val_loss: 81.0716 - val_reconstruction_error: 61.4855 - val_regularization_error: 19.5861
Epoch 849/1000
120/120 [=====] - 17s 141ms/step - loss: 38.9958 - reconstruction_error: 17.8838 - regularization_error: 21.1120 - val_loss: 80.8474 - val_reconstruction_error: 61.7279 - val_regularization_error: 19.1195
Epoch 850/1000
120/120 [=====] - 19s 152ms/step - loss: 39.1251 - reconstruction_error: 17.9771 - regularization_error: 21.1480 - val_loss: 82.0041 - val_reconstruction_error: 62.2929 - val_regularization_error: 19.7112
Epoch 851/1000
120/120 [=====] - ETA: 0s - loss: 39.2222 - reconstruction_error: 18.0531 - regularization_error: 21.1691
[2023-12-01 13:54:14.578987]: Reconstructing images for epoch 851 ...
```



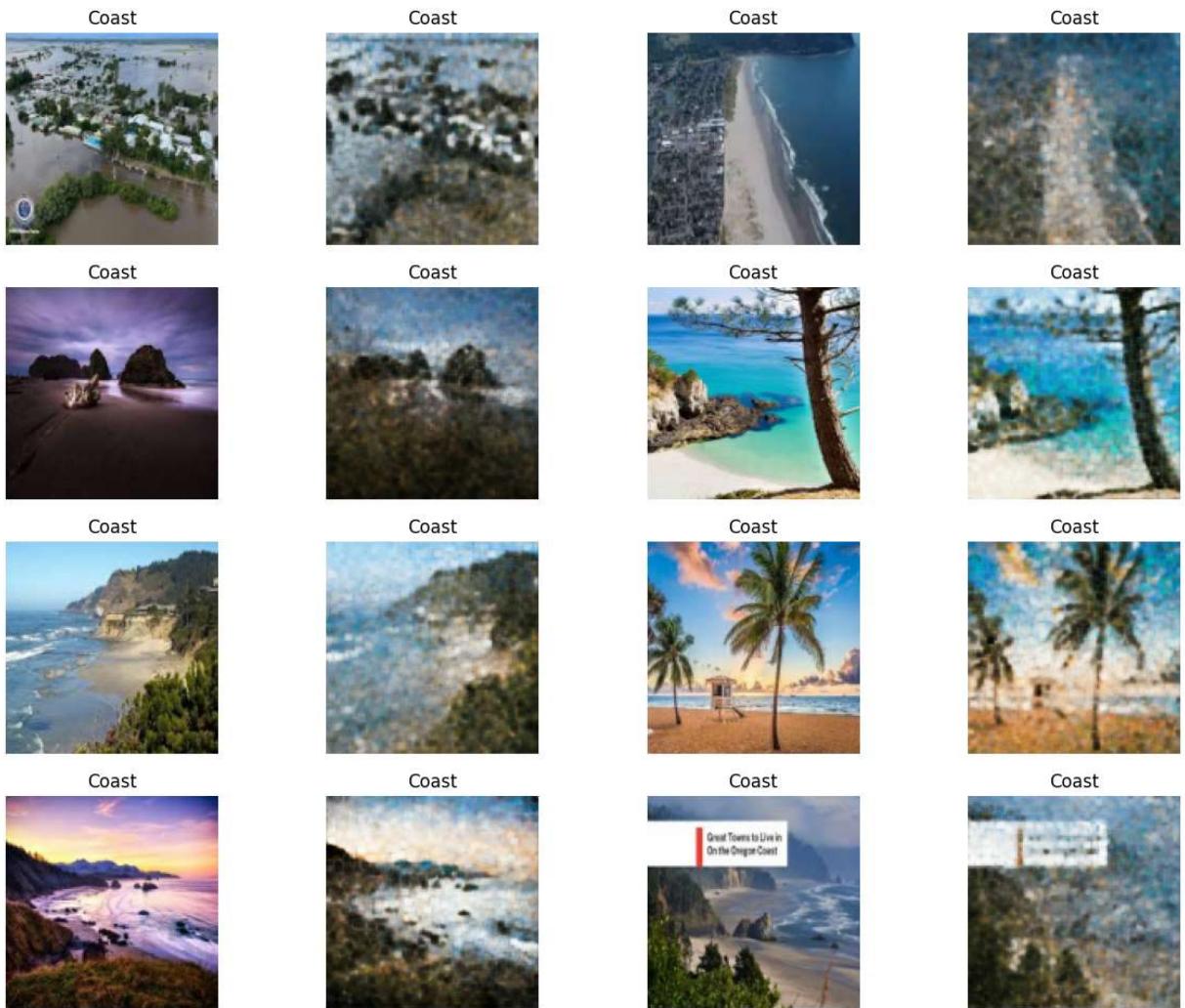
```
120/120 [=====] - 21s 172ms/step - loss: 39.2222 - reconstruction_error: 18.0531 - regularization_error: 21.1691 - val_loss: 81.4572 - val_reconstruction_error: 62.7431 - val_regularization_error: 18.7141
Epoch 852/1000
120/120 [=====] - 17s 139ms/step - loss: 39.2941 - reconstruction_error: 17.9537 - regularization_error: 21.3404 - val_loss: 82.8195 - val_reconstruction_error: 63.1357 - val_regularization_error: 19.6838
Epoch 853/1000
120/120 [=====] - 15s 126ms/step - loss: 39.4051 - reconstruction_error: 18.1057 - regularization_error: 21.2994 - val_loss: 80.5874 - val_reconstruction_error: 61.6520 - val_regularization_error: 18.9354
Epoch 854/1000
120/120 [=====] - 18s 146ms/step - loss: 39.3121 - reconstruction_error: 18.1756 - regularization_error: 21.1365 - val_loss: 82.7634 - val_reconstruction_error: 62.7240 - val_regularization_error: 20.0395
Epoch 855/1000
120/120 [=====] - 15s 128ms/step - loss: 39.2078 - reconstruction_error: 18.0590 - regularization_error: 21.1488 - val_loss: 81.7844 - val_reconstruction_error: 62.0661 - val_regularization_error: 19.7183
Epoch 856/1000
120/120 [=====] - 16s 137ms/step - loss: 39.3009 - reconstruction_error: 18.0244 - regularization_error: 21.2765 - val_loss: 81.5364 - val_reconstruction_error: 61.6655 - val_regularization_error: 19.8709
Epoch 857/1000
120/120 [=====] - 19s 153ms/step - loss: 39.1521 - reconstruction_error: 17.8994 - regularization_error: 21.2527 - val_loss: 81.3377 - val_reconstruction_error: 61.4710 - val_regularization_error: 19.8668
Epoch 858/1000
120/120 [=====] - 17s 143ms/step - loss: 39.1996 - reconstruction_error: 17.9518 - regularization_error: 21.2478 - val_loss: 81.4811 - val_reconstruction_error: 60.9795 - val_regularization_error: 20.5017
Epoch 859/1000
120/120 [=====] - 16s 134ms/step - loss: 39.0855 - reconstruction_error: 17.8926 - regularization_error: 21.1929 - val_loss: 80.9257 - val_reconstruction_error: 61.9775 - val_regularization_error: 18.9483
Epoch 860/1000
120/120 [=====] - 19s 155ms/step - loss: 39.1504 - reconstruction_error: 17.9840 - regularization_error: 21.1665 - val_loss: 81.0542 - val_reconstruction_error: 60.9667 - val_regularization_error: 20.0874
Epoch 861/1000
120/120 [=====] - ETA: 0s - loss: 38.9978 - reconstruction_error: 17.8547 - regularization_error: 21.1432
[2023-12-01 13:57:11.414344]: Reconstructing images for epoch 861 ...
```



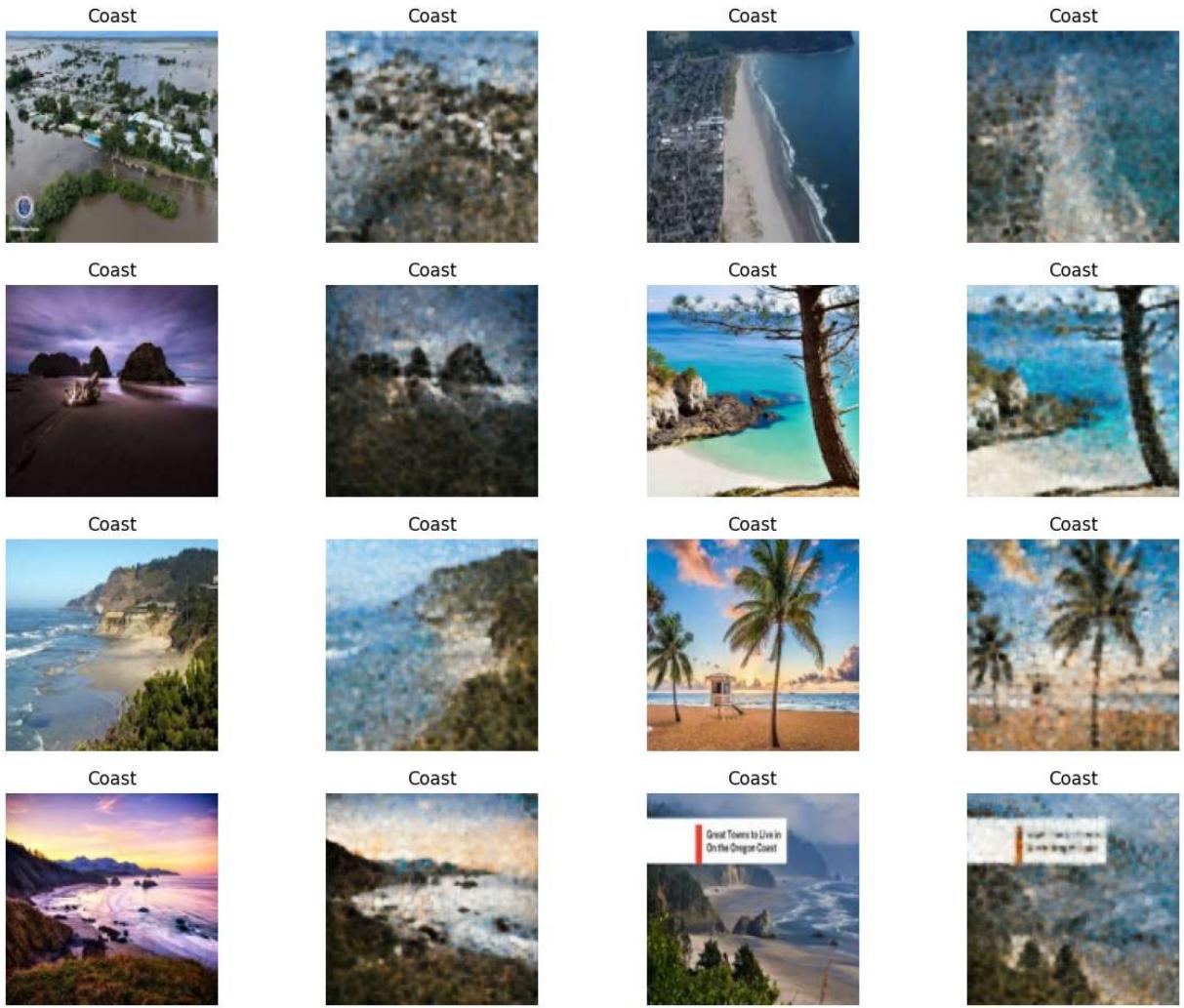
```
120/120 [=====] - 21s 179ms/step - loss: 38.9978 - reconstruction_error: 17.8547 - regularization_error: 21.1432 - val_loss: 81.2486 - val_reconstruction_error: 61.9720 - val_regularization_error: 19.2766
Epoch 862/1000
120/120 [=====] - 17s 138ms/step - loss: 39.0439 - reconstruction_error: 17.8924 - regularization_error: 21.1515 - val_loss: 80.9998 - val_reconstruction_error: 61.0643 - val_regularization_error: 19.9355
Epoch 863/1000
120/120 [=====] - 16s 129ms/step - loss: 39.1307 - reconstruction_error: 17.9989 - regularization_error: 21.1317 - val_loss: 81.4238 - val_reconstruction_error: 61.8452 - val_regularization_error: 19.5786
Epoch 864/1000
120/120 [=====] - 18s 146ms/step - loss: 38.9588 - reconstruction_error: 17.8697 - regularization_error: 21.0891 - val_loss: 80.9517 - val_reconstruction_error: 60.6875 - val_regularization_error: 20.2642
Epoch 865/1000
120/120 [=====] - 18s 144ms/step - loss: 39.0641 - reconstruction_error: 17.8840 - regularization_error: 21.1801 - val_loss: 81.0734 - val_reconstruction_error: 62.0648 - val_regularization_error: 19.0086
Epoch 866/1000
120/120 [=====] - 16s 136ms/step - loss: 39.1376 - reconstruction_error: 17.8225 - regularization_error: 21.3150 - val_loss: 81.1819 - val_reconstruction_error: 61.4742 - val_regularization_error: 19.7077
Epoch 867/1000
120/120 [=====] - 15s 119ms/step - loss: 39.2437 - reconstruction_error: 17.9909 - regularization_error: 21.2528 - val_loss: 81.5468 - val_reconstruction_error: 61.3632 - val_regularization_error: 20.1836
Epoch 868/1000
120/120 [=====] - 17s 136ms/step - loss: 39.2183 - reconstruction_error: 17.9655 - regularization_error: 21.2527 - val_loss: 80.6451 - val_reconstruction_error: 61.5745 - val_regularization_error: 19.0706
Epoch 869/1000
120/120 [=====] - 19s 157ms/step - loss: 39.4308 - reconstruction_error: 18.1416 - regularization_error: 21.2893 - val_loss: 83.2321 - val_reconstruction_error: 62.6429 - val_regularization_error: 20.5891
Epoch 870/1000
120/120 [=====] - 18s 146ms/step - loss: 39.1933 - reconstruction_error: 18.0601 - regularization_error: 21.1332 - val_loss: 80.3630 - val_reconstruction_error: 62.0249 - val_regularization_error: 18.3381
Epoch 871/1000
120/120 [=====] - ETA: 0s - loss: 39.2039 - reconstruction_error: 17.9308 - regularization_error: 21.2731
[2023-12-01 14:00:04.861161]: Reconstructing images for epoch 871 ...
```



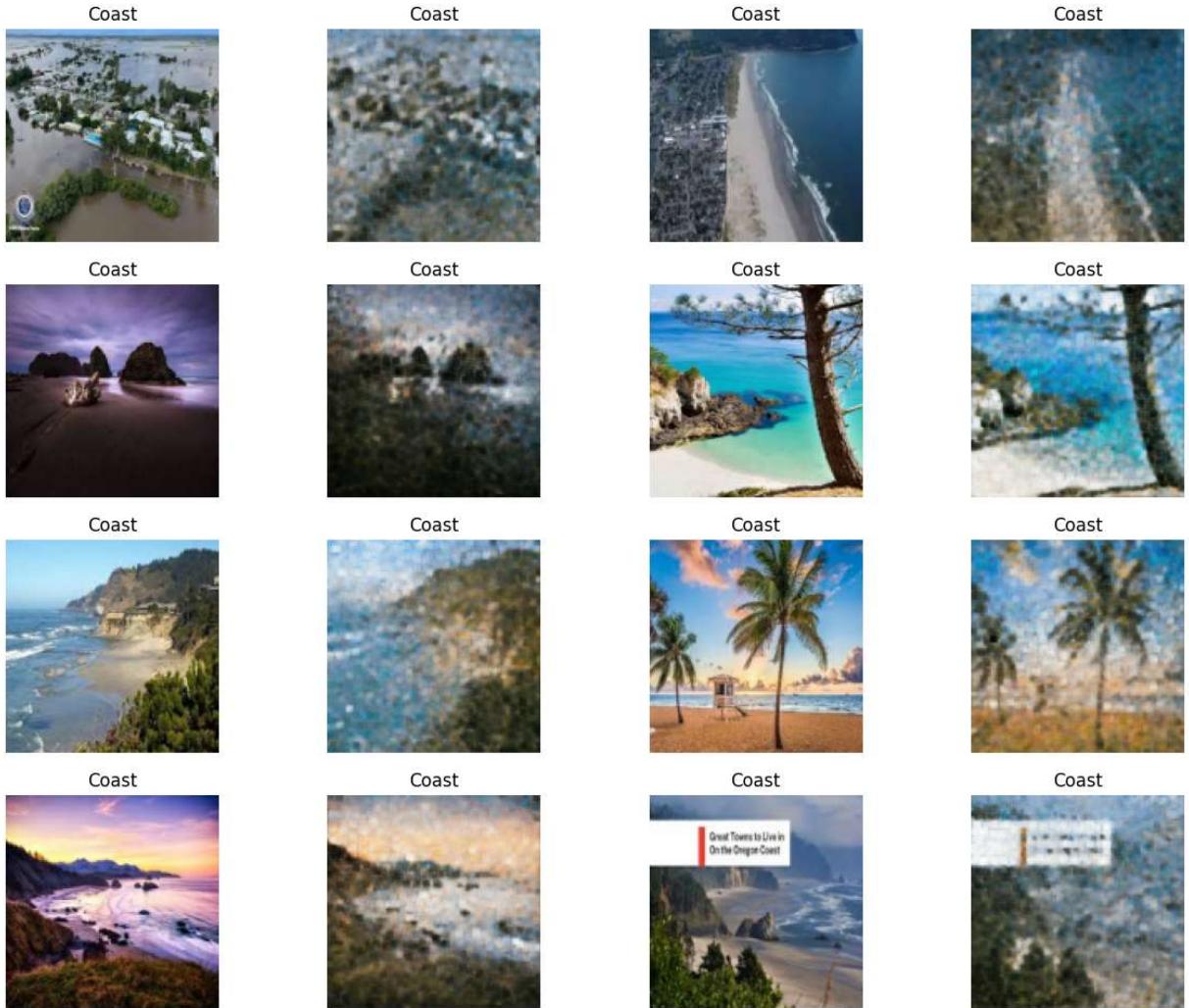
```
120/120 [=====] - 20s 165ms/step - loss: 39.2039 - reconstruction_error: 17.9308 - regularization_error: 21.2731 - val_loss: 82.4946 - val_reconstruction_error: 62.4537 - val_regularization_error: 20.0410
Epoch 872/1000
120/120 [=====] - 15s 128ms/step - loss: 39.0685 - reconstruction_error: 17.9029 - regularization_error: 21.1656 - val_loss: 83.8141 - val_reconstruction_error: 63.6179 - val_regularization_error: 20.1963
Epoch 873/1000
120/120 [=====] - 17s 139ms/step - loss: 39.3000 - reconstruction_error: 18.0053 - regularization_error: 21.2947 - val_loss: 81.0354 - val_reconstruction_error: 61.8234 - val_regularization_error: 19.2120
Epoch 874/1000
120/120 [=====] - 17s 140ms/step - loss: 38.9641 - reconstruction_error: 17.8432 - regularization_error: 21.1209 - val_loss: 82.0012 - val_reconstruction_error: 62.7280 - val_regularization_error: 19.2733
Epoch 875/1000
120/120 [=====] - 18s 149ms/step - loss: 39.1351 - reconstruction_error: 17.9035 - regularization_error: 21.2316 - val_loss: 80.8611 - val_reconstruction_error: 61.6255 - val_regularization_error: 19.2356
Epoch 876/1000
120/120 [=====] - 19s 156ms/step - loss: 39.1840 - reconstruction_error: 17.8991 - regularization_error: 21.2849 - val_loss: 81.8757 - val_reconstruction_error: 63.4272 - val_regularization_error: 18.4485
Epoch 877/1000
120/120 [=====] - 17s 143ms/step - loss: 39.2380 - reconstruction_error: 17.9502 - regularization_error: 21.2879 - val_loss: 84.1515 - val_reconstruction_error: 63.6485 - val_regularization_error: 20.5030
Epoch 878/1000
120/120 [=====] - 16s 133ms/step - loss: 39.0698 - reconstruction_error: 17.8767 - regularization_error: 21.1931 - val_loss: 81.5080 - val_reconstruction_error: 61.8057 - val_regularization_error: 19.7022
Epoch 879/1000
120/120 [=====] - 17s 144ms/step - loss: 39.1471 - reconstruction_error: 17.9387 - regularization_error: 21.2083 - val_loss: 82.3129 - val_reconstruction_error: 61.7635 - val_regularization_error: 20.5494
Epoch 880/1000
120/120 [=====] - 19s 161ms/step - loss: 38.9559 - reconstruction_error: 17.8064 - regularization_error: 21.1495 - val_loss: 80.9398 - val_reconstruction_error: 61.5043 - val_regularization_error: 19.4355
Epoch 881/1000
120/120 [=====] - ETA: 0s - loss: 39.1236 - reconstruction_error: 17.9387 - regularization_error: 21.1849
[2023-12-01 14:03:02.378656]: Reconstructing images for epoch 881 ...
```



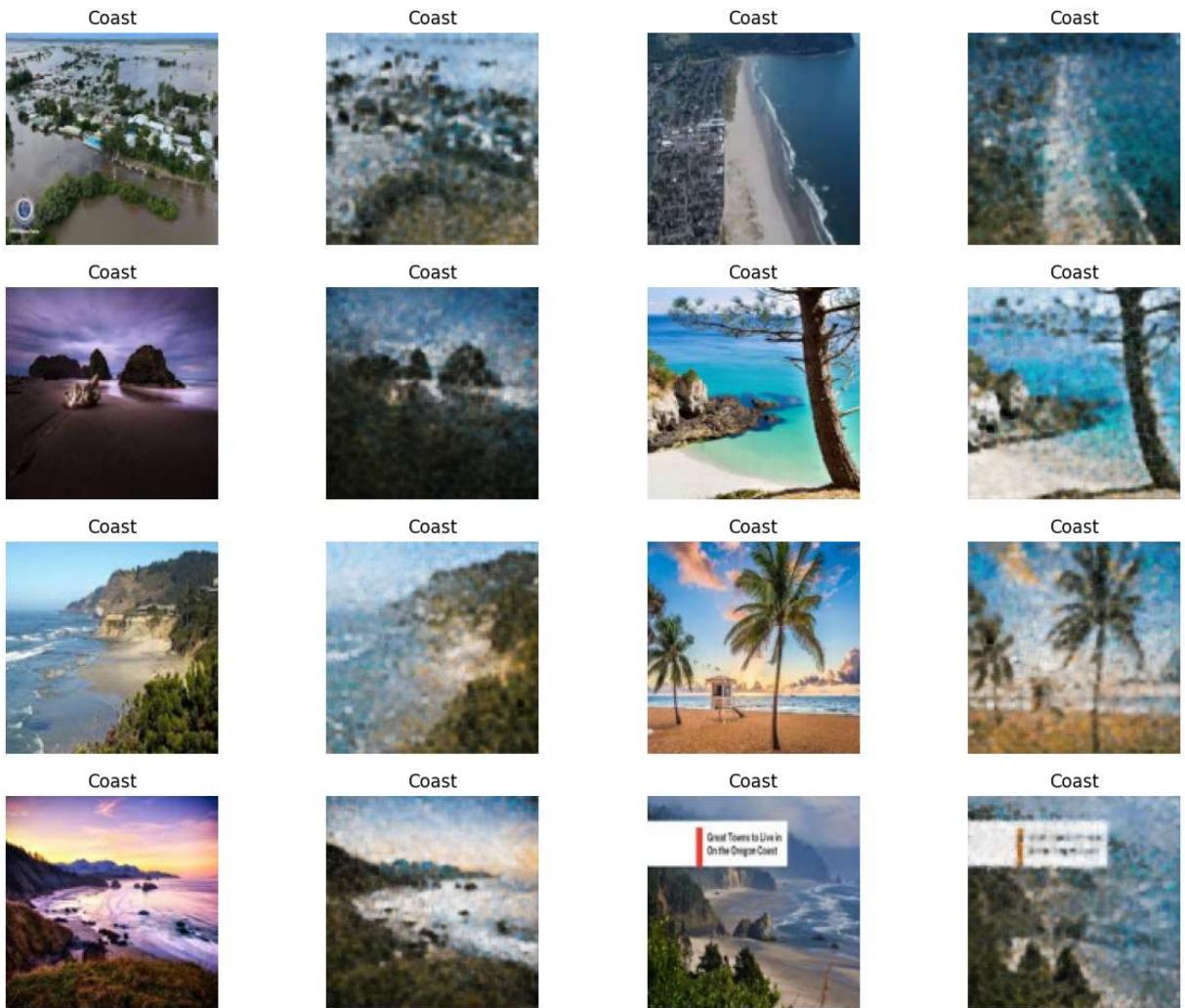
```
120/120 [=====] - 20s 166ms/step - loss: 39.1236 - reconstruction_error: 17.9387 - regularization_error: 21.1849 - val_loss: 82.1862 - val_reconstruction_error: 62.1240 - val_regularization_error: 20.0622
Epoch 882/1000
120/120 [=====] - 18s 150ms/step - loss: 39.1203 - reconstruction_error: 17.9241 - regularization_error: 21.1962 - val_loss: 80.6995 - val_reconstruction_error: 60.5902 - val_regularization_error: 20.1093
Epoch 883/1000
120/120 [=====] - 16s 129ms/step - loss: 38.9482 - reconstruction_error: 17.8424 - regularization_error: 21.1058 - val_loss: 81.9255 - val_reconstruction_error: 62.3887 - val_regularization_error: 19.5368
Epoch 884/1000
120/120 [=====] - 17s 144ms/step - loss: 39.0497 - reconstruction_error: 17.8323 - regularization_error: 21.2173 - val_loss: 81.4049 - val_reconstruction_error: 62.5212 - val_regularization_error: 18.8838
Epoch 885/1000
120/120 [=====] - 18s 152ms/step - loss: 39.1352 - reconstruction_error: 17.8925 - regularization_error: 21.2427 - val_loss: 81.4458 - val_reconstruction_error: 62.7817 - val_regularization_error: 18.6641
Epoch 886/1000
120/120 [=====] - 19s 160ms/step - loss: 39.1203 - reconstruction_error: 17.8458 - regularization_error: 21.2745 - val_loss: 82.1273 - val_reconstruction_error: 61.6291 - val_regularization_error: 20.4981
Epoch 887/1000
120/120 [=====] - 15s 125ms/step - loss: 39.0615 - reconstruction_error: 17.7974 - regularization_error: 21.2641 - val_loss: 81.7629 - val_reconstruction_error: 62.4216 - val_regularization_error: 19.3413
Epoch 888/1000
120/120 [=====] - 16s 133ms/step - loss: 39.0461 - reconstruction_error: 17.8980 - regularization_error: 21.1481 - val_loss: 84.2671 - val_reconstruction_error: 63.1916 - val_regularization_error: 21.0755
Epoch 889/1000
120/120 [=====] - 17s 140ms/step - loss: 39.1303 - reconstruction_error: 17.9026 - regularization_error: 21.2277 - val_loss: 81.9715 - val_reconstruction_error: 61.8728 - val_regularization_error: 20.0987
Epoch 890/1000
120/120 [=====] - 15s 124ms/step - loss: 39.0370 - reconstruction_error: 17.8430 - regularization_error: 21.1939 - val_loss: 81.5585 - val_reconstruction_error: 61.9071 - val_regularization_error: 19.6514
Epoch 891/1000
120/120 [=====] - ETA: 0s - loss: 39.0611 - reconstruction_error: 17.8867 - regularization_error: 21.1744
[2023-12-01 14:05:58.504977]: Reconstructing images for epoch 891 ...
```



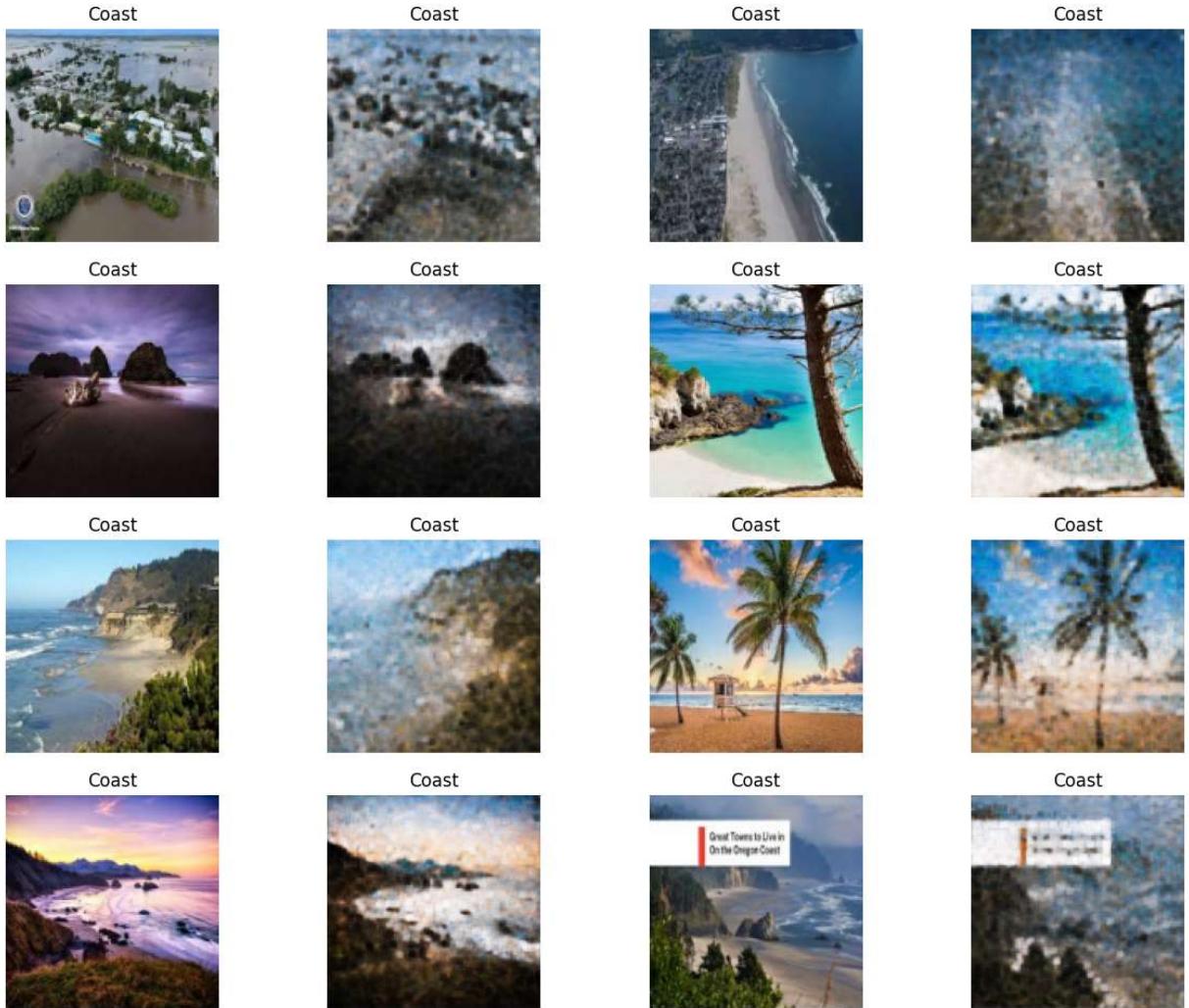
```
120/120 [=====] - 22s 186ms/step - loss: 39.0611 - reconstruction_error: 17.8867 - regularization_error: 21.1744 - val_loss: 82.5865 - val_reconstruction_error: 62.8158 - val_regularization_error: 19.7707
Epoch 892/1000
120/120 [=====] - 15s 129ms/step - loss: 38.9982 - reconstruction_error: 17.7342 - regularization_error: 21.2641 - val_loss: 81.7686 - val_reconstruction_error: 62.3422 - val_regularization_error: 19.4263
Epoch 893/1000
120/120 [=====] - 18s 147ms/step - loss: 38.9140 - reconstruction_error: 17.7858 - regularization_error: 21.1282 - val_loss: 83.0707 - val_reconstruction_error: 63.2318 - val_regularization_error: 19.8389
Epoch 894/1000
120/120 [=====] - 19s 154ms/step - loss: 39.1885 - reconstruction_error: 17.9737 - regularization_error: 21.2147 - val_loss: 83.2492 - val_reconstruction_error: 62.2602 - val_regularization_error: 20.9891
Epoch 895/1000
120/120 [=====] - 17s 141ms/step - loss: 39.0680 - reconstruction_error: 17.8889 - regularization_error: 21.1791 - val_loss: 80.3364 - val_reconstruction_error: 62.0018 - val_regularization_error: 18.3346
Epoch 896/1000
120/120 [=====] - 18s 149ms/step - loss: 39.1956 - reconstruction_error: 17.9162 - regularization_error: 21.2794 - val_loss: 80.8018 - val_reconstruction_error: 62.1210 - val_regularization_error: 18.6808
Epoch 897/1000
120/120 [=====] - 17s 138ms/step - loss: 38.9395 - reconstruction_error: 17.8302 - regularization_error: 21.1093 - val_loss: 80.9459 - val_reconstruction_error: 61.5657 - val_regularization_error: 19.3801
Epoch 898/1000
120/120 [=====] - 19s 155ms/step - loss: 39.0482 - reconstruction_error: 17.8325 - regularization_error: 21.2156 - val_loss: 81.4731 - val_reconstruction_error: 61.4061 - val_regularization_error: 20.0671
Epoch 899/1000
120/120 [=====] - 18s 147ms/step - loss: 39.1806 - reconstruction_error: 17.8657 - regularization_error: 21.3149 - val_loss: 82.8315 - val_reconstruction_error: 62.1333 - val_regularization_error: 20.6982
Epoch 900/1000
120/120 [=====] - 16s 134ms/step - loss: 39.0165 - reconstruction_error: 17.7581 - regularization_error: 21.2583 - val_loss: 82.0980 - val_reconstruction_error: 61.9171 - val_regularization_error: 20.1809
Epoch 901/1000
120/120 [=====] - ETA: 0s - loss: 38.8732 - reconstruction_error: 17.7100 - regularization_error: 21.1632
[2023-12-01 14:08:59.295351]: Reconstructing images for epoch 901 ...
```



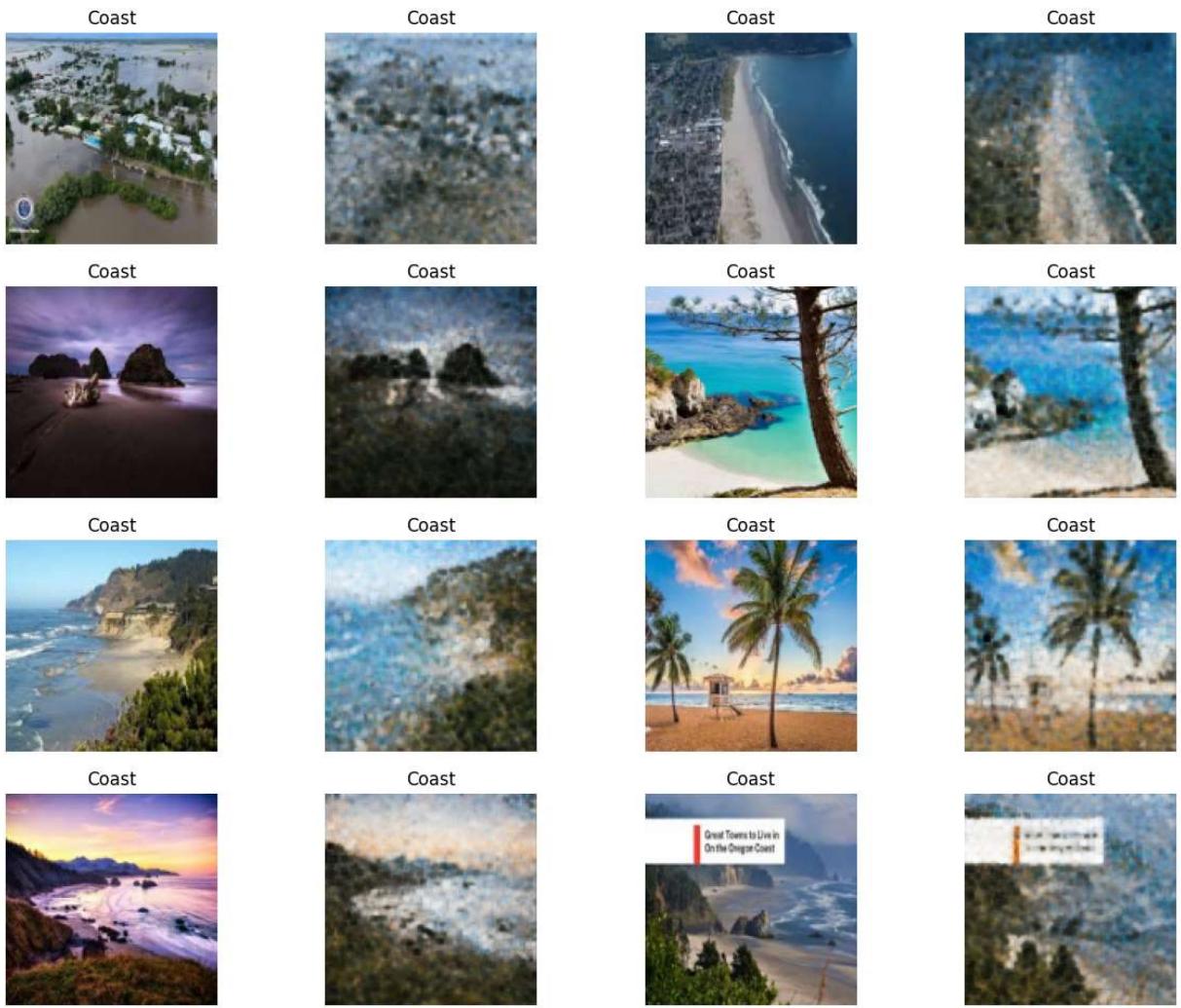
```
120/120 [=====] - 23s 193ms/step - loss: 38.8732 - reconstruction_error: 17.7100 - regularization_error: 21.1632 - val_loss: 80.9379 - val_reconstruction_error: 61.8400 - val_regularization_error: 19.0978
Epoch 902/1000
120/120 [=====] - 17s 139ms/step - loss: 38.8372 - reconstruction_error: 17.6987 - regularization_error: 21.1385 - val_loss: 81.5391 - val_reconstruction_error: 62.0317 - val_regularization_error: 19.5075
Epoch 903/1000
120/120 [=====] - 15s 125ms/step - loss: 39.1204 - reconstruction_error: 17.9193 - regularization_error: 21.2011 - val_loss: 81.9642 - val_reconstruction_error: 62.4100 - val_regularization_error: 19.5542
Epoch 904/1000
120/120 [=====] - 18s 148ms/step - loss: 39.1896 - reconstruction_error: 17.9375 - regularization_error: 21.2521 - val_loss: 82.9882 - val_reconstruction_error: 62.4585 - val_regularization_error: 20.5297
Epoch 905/1000
120/120 [=====] - 16s 132ms/step - loss: 39.2780 - reconstruction_error: 17.9183 - regularization_error: 21.3597 - val_loss: 81.3079 - val_reconstruction_error: 61.8266 - val_regularization_error: 19.4813
Epoch 906/1000
120/120 [=====] - 18s 145ms/step - loss: 39.2061 - reconstruction_error: 17.9009 - regularization_error: 21.3052 - val_loss: 82.2414 - val_reconstruction_error: 63.1437 - val_regularization_error: 19.0977
Epoch 907/1000
120/120 [=====] - 15s 125ms/step - loss: 38.9201 - reconstruction_error: 17.7521 - regularization_error: 21.1680 - val_loss: 81.8281 - val_reconstruction_error: 62.2137 - val_regularization_error: 19.6144
Epoch 908/1000
120/120 [=====] - 18s 151ms/step - loss: 38.7441 - reconstruction_error: 17.6572 - regularization_error: 21.0869 - val_loss: 80.8801 - val_reconstruction_error: 61.7026 - val_regularization_error: 19.1775
Epoch 909/1000
120/120 [=====] - 16s 130ms/step - loss: 38.9668 - reconstruction_error: 17.7665 - regularization_error: 21.2004 - val_loss: 82.3299 - val_reconstruction_error: 62.0573 - val_regularization_error: 20.2727
Epoch 910/1000
120/120 [=====] - 16s 129ms/step - loss: 38.9499 - reconstruction_error: 17.7453 - regularization_error: 21.2046 - val_loss: 81.3700 - val_reconstruction_error: 62.0777 - val_regularization_error: 19.2924
Epoch 911/1000
120/120 [=====] - ETA: 0s - loss: 38.9041 - reconstruction_error: 17.7031 - regularization_error: 21.2010
[2023-12-01 14:11:50.333088]: Reconstructing images for epoch 911 ...
```



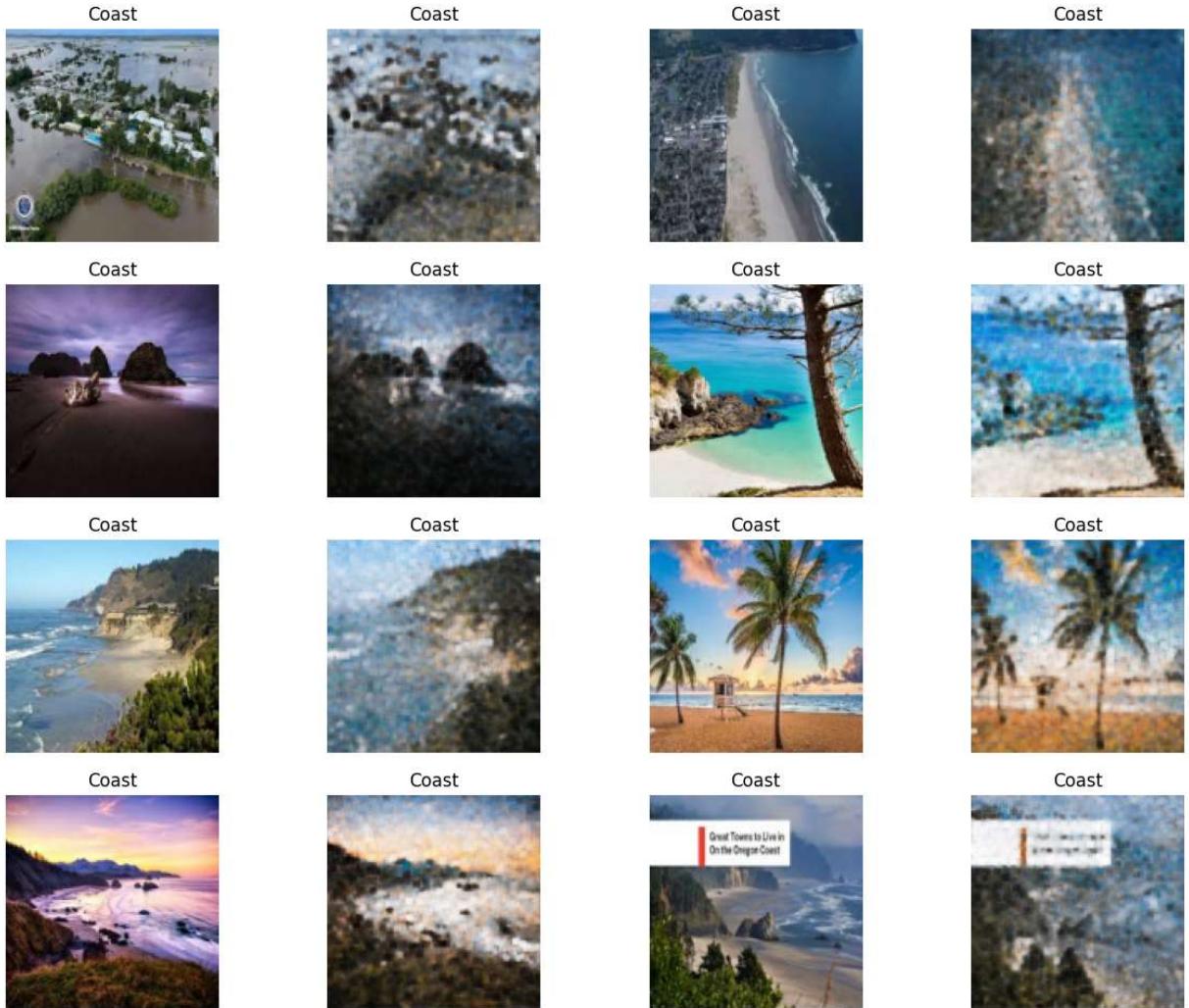
```
120/120 [=====] - 21s 174ms/step - loss: 38.9041 - reconstruction_error: 17.7031 - regularization_error: 21.2010 - val_loss: 81.2597 - val_reconstruction_error: 62.0833 - val_regularization_error: 19.1764
Epoch 912/1000
120/120 [=====] - 14s 120ms/step - loss: 38.9456 - reconstruction_error: 17.7272 - regularization_error: 21.2184 - val_loss: 81.7521 - val_reconstruction_error: 62.5618 - val_regularization_error: 19.1903
Epoch 913/1000
120/120 [=====] - 17s 137ms/step - loss: 38.9016 - reconstruction_error: 17.6941 - regularization_error: 21.2074 - val_loss: 84.0171 - val_reconstruction_error: 63.5833 - val_regularization_error: 20.4338
Epoch 914/1000
120/120 [=====] - 19s 161ms/step - loss: 39.0552 - reconstruction_error: 17.7436 - regularization_error: 21.3116 - val_loss: 82.2456 - val_reconstruction_error: 62.7587 - val_regularization_error: 19.4869
Epoch 915/1000
120/120 [=====] - 18s 147ms/step - loss: 38.8822 - reconstruction_error: 17.7680 - regularization_error: 21.1142 - val_loss: 81.8014 - val_reconstruction_error: 62.1993 - val_regularization_error: 19.6021
Epoch 916/1000
120/120 [=====] - 15s 120ms/step - loss: 38.9476 - reconstruction_error: 17.6280 - regularization_error: 21.3195 - val_loss: 81.9215 - val_reconstruction_error: 62.3410 - val_regularization_error: 19.5805
Epoch 917/1000
120/120 [=====] - 20s 162ms/step - loss: 38.7360 - reconstruction_error: 17.6509 - regularization_error: 21.0851 - val_loss: 81.4735 - val_reconstruction_error: 61.9453 - val_regularization_error: 19.5283
Epoch 918/1000
120/120 [=====] - 15s 121ms/step - loss: 38.7886 - reconstruction_error: 17.6083 - regularization_error: 21.1804 - val_loss: 81.9997 - val_reconstruction_error: 61.8610 - val_regularization_error: 20.1388
Epoch 919/1000
120/120 [=====] - 14s 115ms/step - loss: 38.8291 - reconstruction_error: 17.7267 - regularization_error: 21.1025 - val_loss: 81.8593 - val_reconstruction_error: 62.3936 - val_regularization_error: 19.4657
Epoch 920/1000
120/120 [=====] - 17s 140ms/step - loss: 38.7517 - reconstruction_error: 17.7144 - regularization_error: 21.0372 - val_loss: 79.7756 - val_reconstruction_error: 62.1559 - val_regularization_error: 17.6197
Epoch 921/1000
120/120 [=====] - ETA: 0s - loss: 38.9053 - reconstruction_error: 17.7493 - regularization_error: 21.1560
[2023-12-01 14:14:39.956350]: Reconstructing images for epoch 921 ...
```



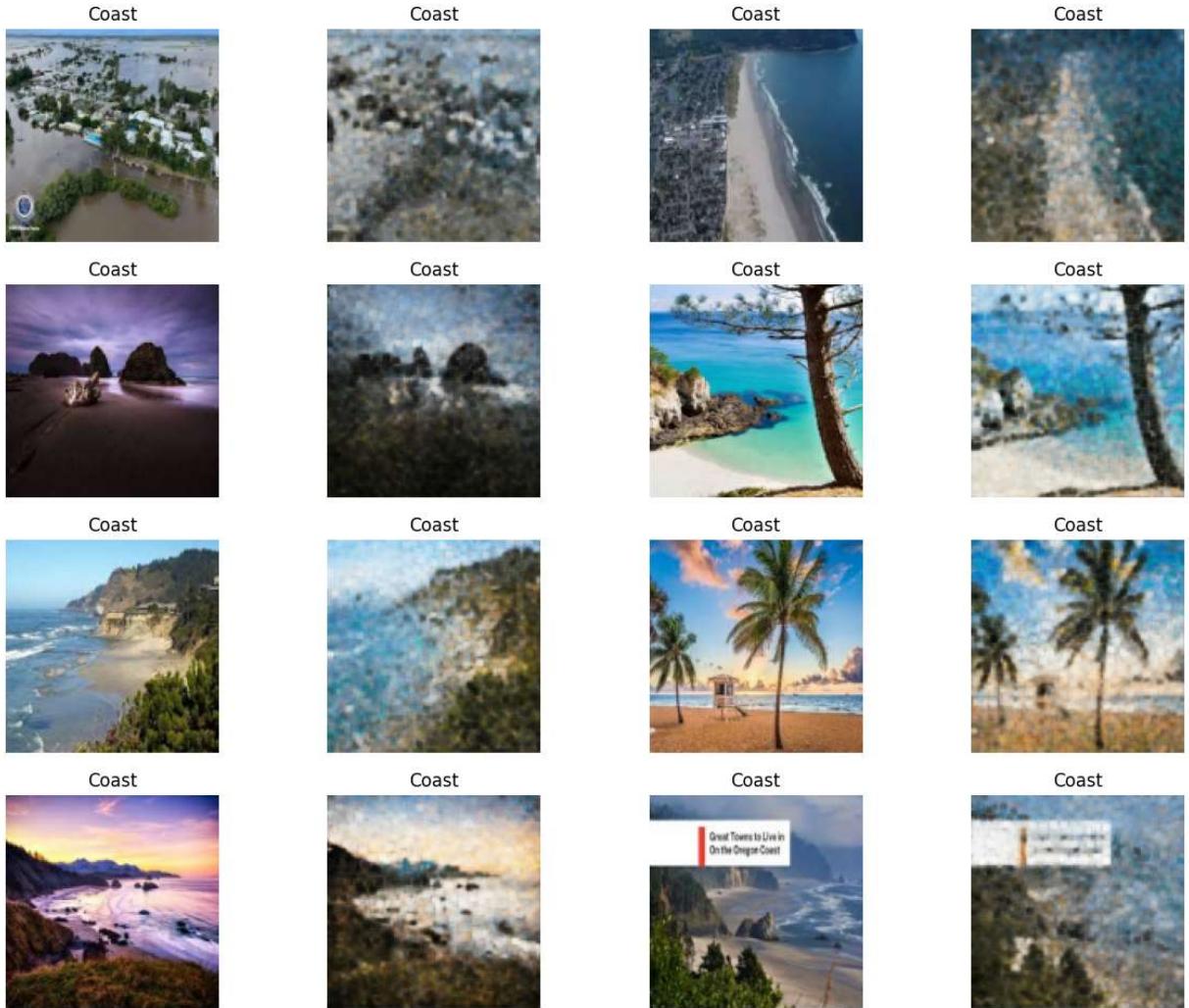
```
120/120 [=====] - 19s 159ms/step - loss: 38.9053 - reconstruction_error: 17.7493 - regularization_error: 21.1560 - val_loss: 81.5382 - val_reconstruction_error: 61.4953 - val_regularization_error: 20.0429
Epoch 922/1000
120/120 [=====] - 17s 144ms/step - loss: 39.3216 - reconstruction_error: 17.9419 - regularization_error: 21.3797 - val_loss: 82.2600 - val_reconstruction_error: 62.2821 - val_regularization_error: 19.9779
Epoch 923/1000
120/120 [=====] - 14s 115ms/step - loss: 38.8677 - reconstruction_error: 17.7827 - regularization_error: 21.0850 - val_loss: 82.4060 - val_reconstruction_error: 61.8462 - val_regularization_error: 20.5598
Epoch 924/1000
120/120 [=====] - 19s 160ms/step - loss: 39.0601 - reconstruction_error: 17.7365 - regularization_error: 21.3237 - val_loss: 81.8751 - val_reconstruction_error: 62.1795 - val_regularization_error: 19.6956
Epoch 925/1000
120/120 [=====] - 15s 128ms/step - loss: 38.8608 - reconstruction_error: 17.6806 - regularization_error: 21.1802 - val_loss: 82.1528 - val_reconstruction_error: 62.5523 - val_regularization_error: 19.6005
Epoch 926/1000
120/120 [=====] - 17s 141ms/step - loss: 38.7287 - reconstruction_error: 17.6706 - regularization_error: 21.0582 - val_loss: 81.0505 - val_reconstruction_error: 61.4393 - val_regularization_error: 19.6112
Epoch 927/1000
120/120 [=====] - 17s 142ms/step - loss: 38.7407 - reconstruction_error: 17.6638 - regularization_error: 21.0770 - val_loss: 81.9734 - val_reconstruction_error: 63.1529 - val_regularization_error: 18.8206
Epoch 928/1000
120/120 [=====] - 18s 149ms/step - loss: 38.8942 - reconstruction_error: 17.6834 - regularization_error: 21.2108 - val_loss: 81.4091 - val_reconstruction_error: 61.9587 - val_regularization_error: 19.4505
Epoch 929/1000
120/120 [=====] - 17s 139ms/step - loss: 38.7135 - reconstruction_error: 17.6937 - regularization_error: 21.0198 - val_loss: 81.8911 - val_reconstruction_error: 62.7595 - val_regularization_error: 19.1316
Epoch 930/1000
120/120 [=====] - 17s 140ms/step - loss: 39.0228 - reconstruction_error: 17.7827 - regularization_error: 21.2401 - val_loss: 81.3660 - val_reconstruction_error: 61.7026 - val_regularization_error: 19.6634
Epoch 931/1000
120/120 [=====] - ETA: 0s - loss: 38.6062 - reconstruction_error: 17.5561 - regularization_error: 21.0501
[2023-12-01 14:17:34.412934]: Reconstructing images for epoch 931 ...
```



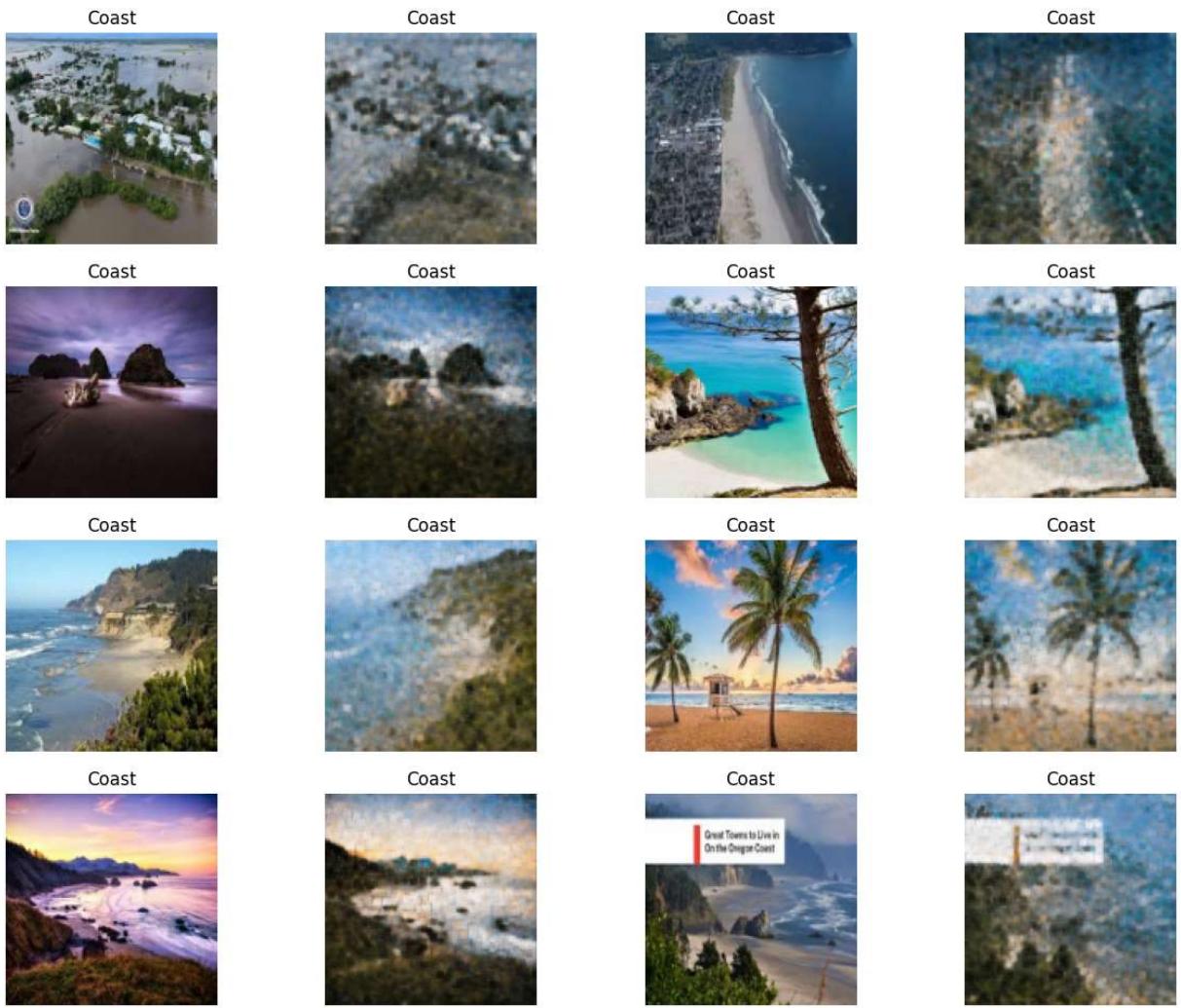
```
120/120 [=====] - 20s 164ms/step - loss: 38.6062 - reconstruction_error: 17.5561 - regularization_error: 21.0501 - val_loss: 82.2078 - val_reconstruction_error: 62.8858 - val_regularization_error: 19.3220
Epoch 932/1000
120/120 [=====] - 16s 136ms/step - loss: 38.6326 - reconstruction_error: 17.6136 - regularization_error: 21.0190 - val_loss: 81.9147 - val_reconstruction_error: 62.4951 - val_regularization_error: 19.4196
Epoch 933/1000
120/120 [=====] - 17s 139ms/step - loss: 38.6401 - reconstruction_error: 17.5534 - regularization_error: 21.0867 - val_loss: 81.8335 - val_reconstruction_error: 62.5443 - val_regularization_error: 19.2892
Epoch 934/1000
120/120 [=====] - 19s 158ms/step - loss: 38.9220 - reconstruction_error: 17.7553 - regularization_error: 21.1666 - val_loss: 82.1835 - val_reconstruction_error: 62.2499 - val_regularization_error: 19.9337
Epoch 935/1000
120/120 [=====] - 18s 151ms/step - loss: 38.8416 - reconstruction_error: 17.6728 - regularization_error: 21.1688 - val_loss: 81.9185 - val_reconstruction_error: 61.8058 - val_regularization_error: 20.1127
Epoch 936/1000
120/120 [=====] - 18s 153ms/step - loss: 38.9585 - reconstruction_error: 17.6664 - regularization_error: 21.2921 - val_loss: 80.3366 - val_reconstruction_error: 61.9706 - val_regularization_error: 18.3660
Epoch 937/1000
120/120 [=====] - 17s 139ms/step - loss: 39.0031 - reconstruction_error: 17.7913 - regularization_error: 21.2118 - val_loss: 80.1071 - val_reconstruction_error: 62.0695 - val_regularization_error: 18.0377
Epoch 938/1000
120/120 [=====] - 19s 153ms/step - loss: 38.7860 - reconstruction_error: 17.6426 - regularization_error: 21.1435 - val_loss: 82.3171 - val_reconstruction_error: 63.0751 - val_regularization_error: 19.2420
Epoch 939/1000
120/120 [=====] - 18s 152ms/step - loss: 38.6583 - reconstruction_error: 17.6135 - regularization_error: 21.0449 - val_loss: 81.4491 - val_reconstruction_error: 62.5444 - val_regularization_error: 18.9047
Epoch 940/1000
120/120 [=====] - 18s 148ms/step - loss: 38.8932 - reconstruction_error: 17.6970 - regularization_error: 21.1962 - val_loss: 81.4627 - val_reconstruction_error: 62.1586 - val_regularization_error: 19.3041
Epoch 941/1000
120/120 [=====] - ETA: 0s - loss: 38.6195 - reconstruction_error: 17.6051 - regularization_error: 21.0144
[2023-12-01 14:20:40.806344]: Reconstructing images for epoch 941 ...
```



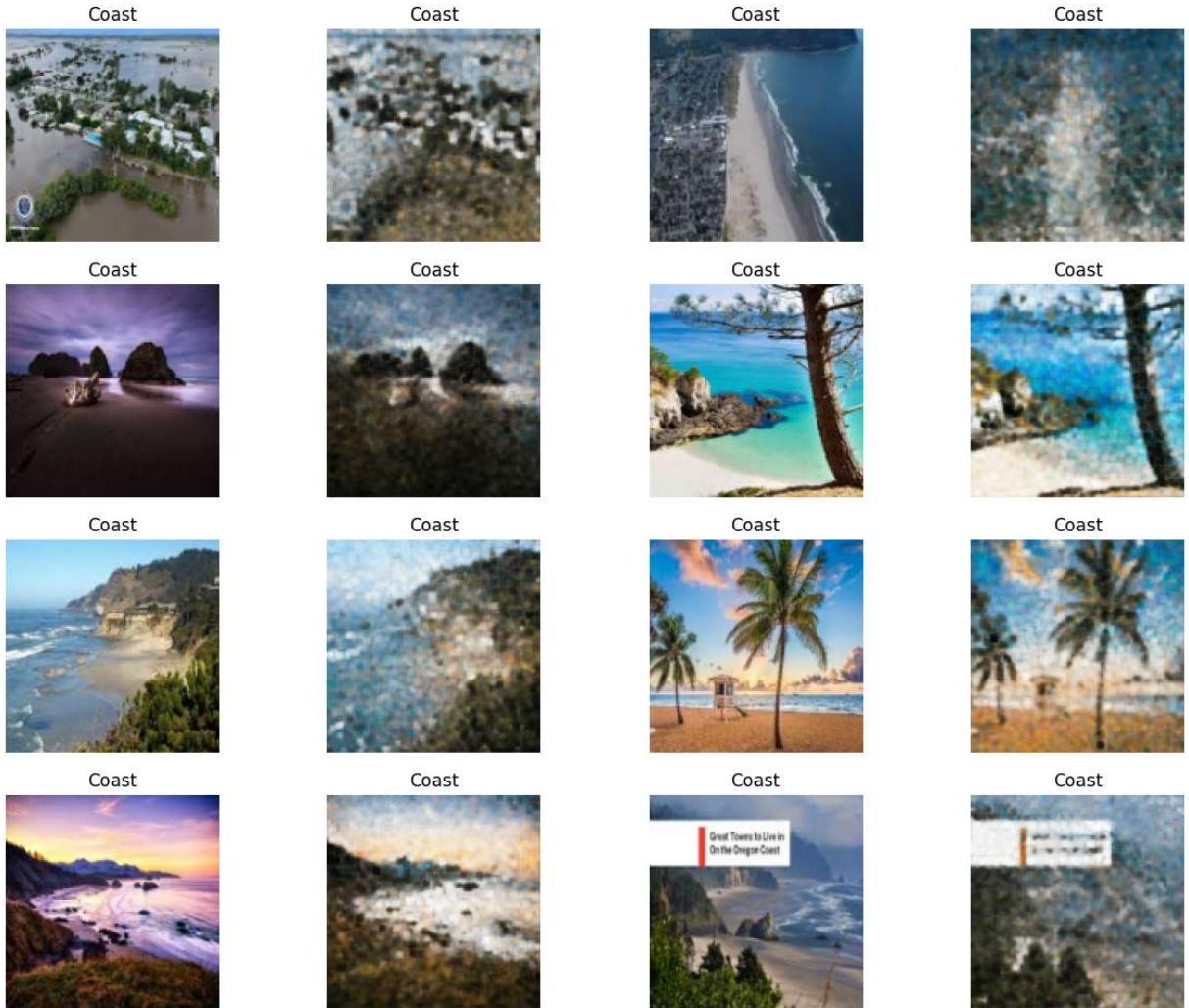
```
120/120 [=====] - 23s 192ms/step - loss: 38.6195 - reconstruction_error: 17.6051 - regularization_error: 21.0144 - val_loss: 81.7935 - val_reconstruction_error: 62.5164 - val_regularization_error: 19.2771
Epoch 942/1000
120/120 [=====] - 16s 131ms/step - loss: 38.8994 - reconstruction_error: 17.6421 - regularization_error: 21.2573 - val_loss: 82.0144 - val_reconstruction_error: 62.5530 - val_regularization_error: 19.4614
Epoch 943/1000
120/120 [=====] - 18s 147ms/step - loss: 38.8633 - reconstruction_error: 17.6289 - regularization_error: 21.2344 - val_loss: 81.9022 - val_reconstruction_error: 61.8426 - val_regularization_error: 20.0596
Epoch 944/1000
120/120 [=====] - 17s 141ms/step - loss: 38.6999 - reconstruction_error: 17.5789 - regularization_error: 21.1210 - val_loss: 82.8080 - val_reconstruction_error: 62.9227 - val_regularization_error: 19.8853
Epoch 945/1000
120/120 [=====] - 15s 128ms/step - loss: 38.9994 - reconstruction_error: 17.7215 - regularization_error: 21.2779 - val_loss: 82.0490 - val_reconstruction_error: 62.4784 - val_regularization_error: 19.5706
Epoch 946/1000
120/120 [=====] - 14s 115ms/step - loss: 38.4706 - reconstruction_error: 17.4607 - regularization_error: 21.0099 - val_loss: 81.9734 - val_reconstruction_error: 62.8049 - val_regularization_error: 19.1685
Epoch 947/1000
120/120 [=====] - 20s 165ms/step - loss: 38.7094 - reconstruction_error: 17.5936 - regularization_error: 21.1158 - val_loss: 82.4207 - val_reconstruction_error: 62.4201 - val_regularization_error: 20.0005
Epoch 948/1000
120/120 [=====] - 17s 141ms/step - loss: 38.8770 - reconstruction_error: 17.6888 - regularization_error: 21.1881 - val_loss: 80.7156 - val_reconstruction_error: 62.0450 - val_regularization_error: 18.6706
Epoch 949/1000
120/120 [=====] - 15s 125ms/step - loss: 38.7714 - reconstruction_error: 17.6356 - regularization_error: 21.1357 - val_loss: 83.4247 - val_reconstruction_error: 62.6237 - val_regularization_error: 20.8010
Epoch 950/1000
120/120 [=====] - 16s 126ms/step - loss: 38.8262 - reconstruction_error: 17.5920 - regularization_error: 21.2342 - val_loss: 81.7520 - val_reconstruction_error: 62.1975 - val_regularization_error: 19.5545
Epoch 951/1000
120/120 [=====] - ETA: 0s - loss: 38.9724 - reconstruction_error: 17.8409 - regularization_error: 21.1315
[2023-12-01 14:23:32.170668]: Reconstructing images for epoch 951 ...
```



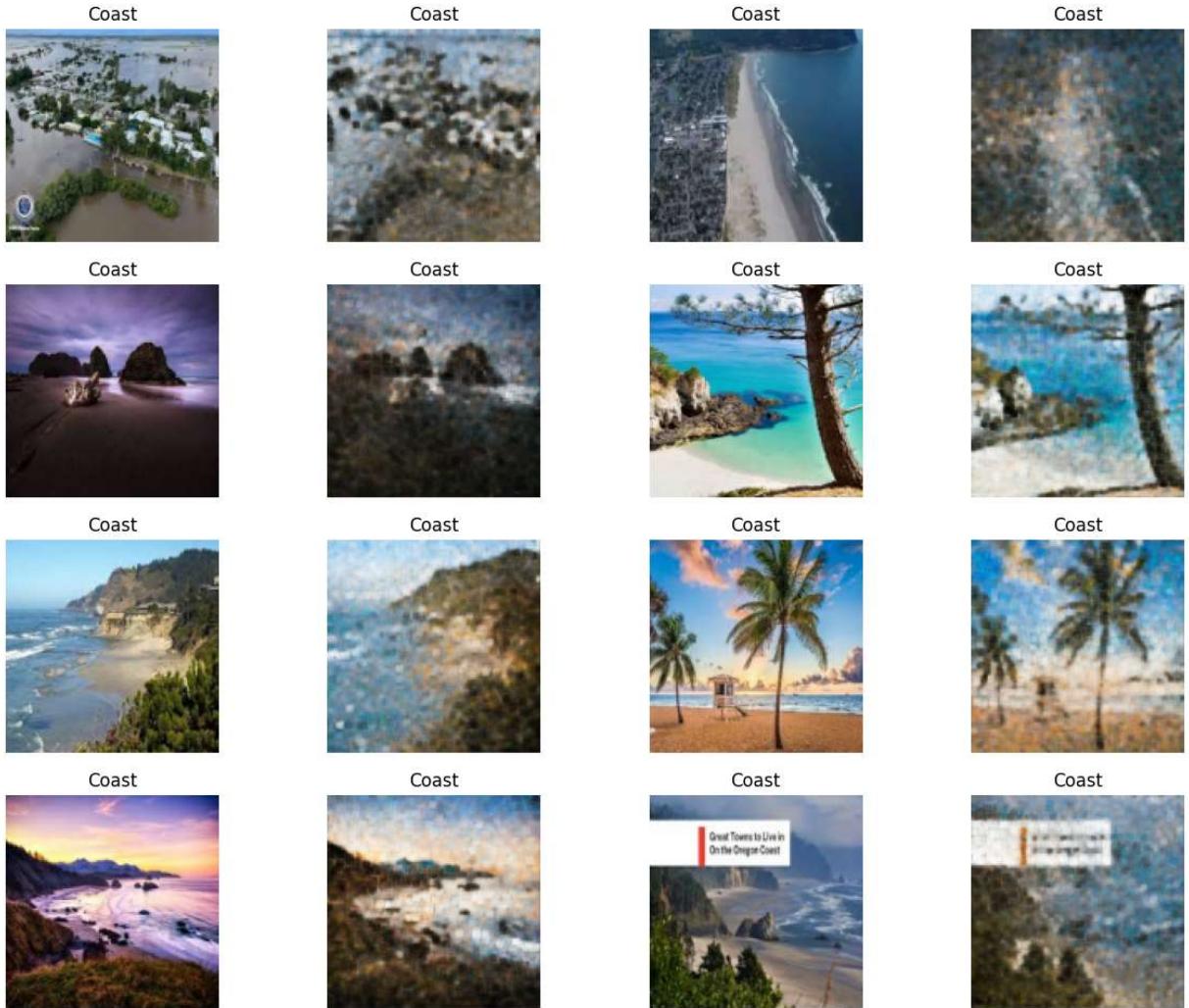
```
120/120 [=====] - 20s 168ms/step - loss: 38.9724 - reconstruction_error: 17.8409 - regularization_error: 21.1315 - val_loss: 82.7416 - val_reconstruction_error: 62.7489 - val_regularization_error: 19.9927
Epoch 952/1000
120/120 [=====] - 16s 135ms/step - loss: 38.7296 - reconstruction_error: 17.5642 - regularization_error: 21.1654 - val_loss: 82.4242 - val_reconstruction_error: 62.1874 - val_regularization_error: 20.2368
Epoch 953/1000
120/120 [=====] - 17s 142ms/step - loss: 38.6222 - reconstruction_error: 17.5581 - regularization_error: 21.0641 - val_loss: 82.9792 - val_reconstruction_error: 62.7387 - val_regularization_error: 20.2405
Epoch 954/1000
120/120 [=====] - 20s 164ms/step - loss: 38.7762 - reconstruction_error: 17.6258 - regularization_error: 21.1504 - val_loss: 82.0965 - val_reconstruction_error: 62.4919 - val_regularization_error: 19.6046
Epoch 955/1000
120/120 [=====] - 17s 137ms/step - loss: 38.8660 - reconstruction_error: 17.5616 - regularization_error: 21.3044 - val_loss: 81.6035 - val_reconstruction_error: 62.1335 - val_regularization_error: 19.4700
Epoch 956/1000
120/120 [=====] - 20s 169ms/step - loss: 38.7033 - reconstruction_error: 17.6267 - regularization_error: 21.0765 - val_loss: 81.6750 - val_reconstruction_error: 62.7452 - val_regularization_error: 18.9297
Epoch 957/1000
120/120 [=====] - 19s 162ms/step - loss: 38.5489 - reconstruction_error: 17.4754 - regularization_error: 21.0736 - val_loss: 81.7879 - val_reconstruction_error: 61.3451 - val_regularization_error: 20.4428
Epoch 958/1000
120/120 [=====] - 15s 127ms/step - loss: 38.6988 - reconstruction_error: 17.5526 - regularization_error: 21.1462 - val_loss: 81.6020 - val_reconstruction_error: 62.0004 - val_regularization_error: 19.6015
Epoch 959/1000
120/120 [=====] - 19s 154ms/step - loss: 38.6897 - reconstruction_error: 17.5677 - regularization_error: 21.1220 - val_loss: 82.2592 - val_reconstruction_error: 62.7307 - val_regularization_error: 19.5285
Epoch 960/1000
120/120 [=====] - 20s 161ms/step - loss: 38.7612 - reconstruction_error: 17.6166 - regularization_error: 21.1446 - val_loss: 81.2526 - val_reconstruction_error: 61.1628 - val_regularization_error: 20.0898
Epoch 961/1000
120/120 [=====] - ETA: 0s - loss: 38.8893 - reconstruction_error: 17.6546 - regularization_error: 21.2347
[2023-12-01 14:26:38.310559]: Reconstructing images for epoch 961 ...
```



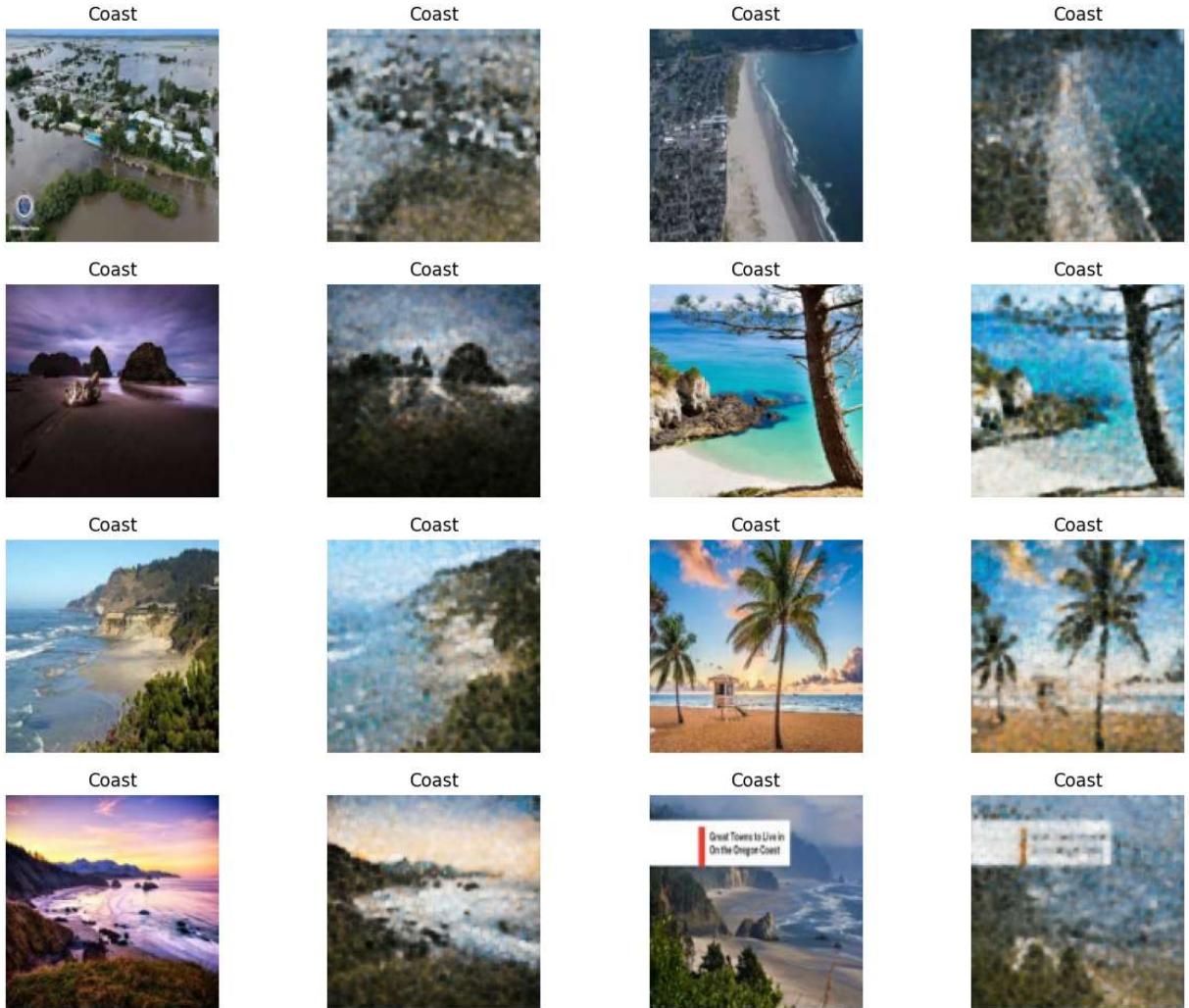
```
120/120 [=====] - 21s 174ms/step - loss: 38.8893 - reconstruction_error: 17.6546 - regularization_error: 21.2347 - val_loss: 80.1137 - val_reconstruction_error: 61.3883 - val_regularization_error: 18.7254
Epoch 962/1000
120/120 [=====] - 16s 132ms/step - loss: 38.6285 - reconstruction_error: 17.5784 - regularization_error: 21.0500 - val_loss: 81.4271 - val_reconstruction_error: 62.2821 - val_regularization_error: 19.1450
Epoch 963/1000
120/120 [=====] - 16s 129ms/step - loss: 38.8928 - reconstruction_error: 17.6772 - regularization_error: 21.2156 - val_loss: 83.6715 - val_reconstruction_error: 63.3616 - val_regularization_error: 20.3100
Epoch 964/1000
120/120 [=====] - 17s 143ms/step - loss: 38.7170 - reconstruction_error: 17.5444 - regularization_error: 21.1726 - val_loss: 83.9992 - val_reconstruction_error: 63.2870 - val_regularization_error: 20.7122
Epoch 965/1000
120/120 [=====] - 16s 134ms/step - loss: 38.8223 - reconstruction_error: 17.6246 - regularization_error: 21.1977 - val_loss: 81.9596 - val_reconstruction_error: 64.4676 - val_regularization_error: 17.4920
Epoch 966/1000
120/120 [=====] - 15s 125ms/step - loss: 38.6757 - reconstruction_error: 17.6352 - regularization_error: 21.0406 - val_loss: 81.7410 - val_reconstruction_error: 62.2760 - val_regularization_error: 19.4650
Epoch 967/1000
120/120 [=====] - 15s 121ms/step - loss: 38.5878 - reconstruction_error: 17.5051 - regularization_error: 21.0826 - val_loss: 82.4416 - val_reconstruction_error: 62.8357 - val_regularization_error: 19.6059
Epoch 968/1000
120/120 [=====] - 16s 130ms/step - loss: 38.6159 - reconstruction_error: 17.5671 - regularization_error: 21.0488 - val_loss: 80.4005 - val_reconstruction_error: 61.9339 - val_regularization_error: 18.4666
Epoch 969/1000
120/120 [=====] - 14s 120ms/step - loss: 38.8001 - reconstruction_error: 17.5657 - regularization_error: 21.2344 - val_loss: 81.4667 - val_reconstruction_error: 63.1383 - val_regularization_error: 18.3284
Epoch 970/1000
120/120 [=====] - 16s 130ms/step - loss: 38.7510 - reconstruction_error: 17.6441 - regularization_error: 21.1069 - val_loss: 81.8822 - val_reconstruction_error: 62.0804 - val_regularization_error: 19.8018
Epoch 971/1000
120/120 [=====] - ETA: 0s - loss: 38.6040 - reconstruction_error: 17.5441 - regularization_error: 21.0600
[2023-12-01 14:29:20.516133]: Reconstructing images for epoch 971 ...
```



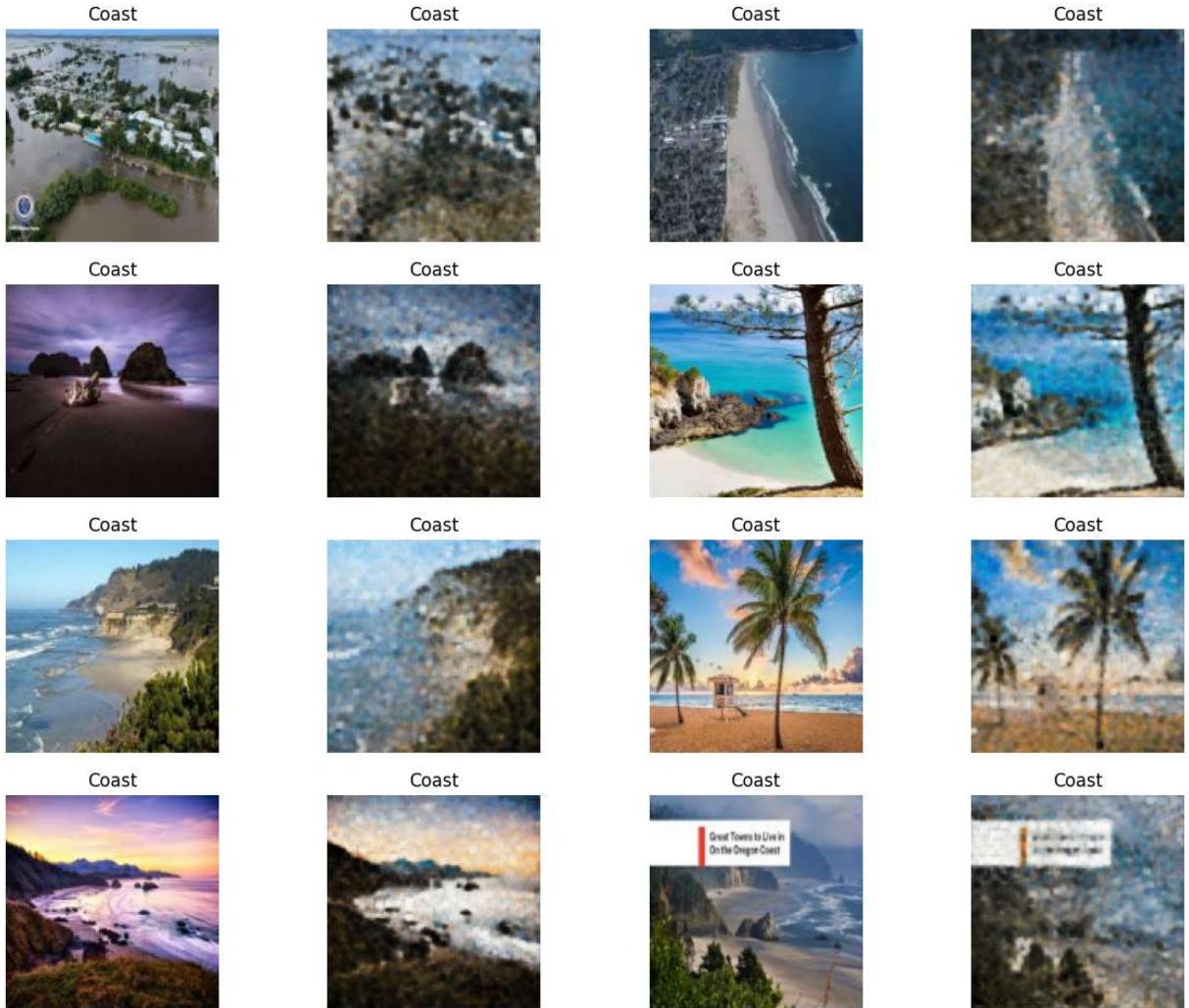
```
120/120 [=====] - 19s 161ms/step - loss: 38.6040 - reconstruction_error: 17.5441 - regularization_error: 21.0600 - val_loss: 83.4465 - val_reconstruction_error: 63.2452 - val_regularization_error: 20.2013
Epoch 972/1000
120/120 [=====] - 17s 142ms/step - loss: 38.5412 - reconstruction_error: 17.5313 - regularization_error: 21.0099 - val_loss: 82.8543 - val_reconstruction_error: 63.0252 - val_regularization_error: 19.8291
Epoch 973/1000
120/120 [=====] - 17s 139ms/step - loss: 38.9318 - reconstruction_error: 17.6417 - regularization_error: 21.2901 - val_loss: 83.0409 - val_reconstruction_error: 62.2258 - val_regularization_error: 20.8151
Epoch 974/1000
120/120 [=====] - 20s 164ms/step - loss: 38.6682 - reconstruction_error: 17.5251 - regularization_error: 21.1431 - val_loss: 82.1353 - val_reconstruction_error: 62.6452 - val_regularization_error: 19.4901
Epoch 975/1000
120/120 [=====] - 17s 145ms/step - loss: 38.5835 - reconstruction_error: 17.5651 - regularization_error: 21.0185 - val_loss: 82.8772 - val_reconstruction_error: 63.8648 - val_regularization_error: 19.0124
Epoch 976/1000
120/120 [=====] - 15s 122ms/step - loss: 38.4980 - reconstruction_error: 17.4784 - regularization_error: 21.0196 - val_loss: 80.7129 - val_reconstruction_error: 61.6006 - val_regularization_error: 19.1123
Epoch 977/1000
120/120 [=====] - 16s 131ms/step - loss: 38.6048 - reconstruction_error: 17.6141 - regularization_error: 20.9908 - val_loss: 81.3369 - val_reconstruction_error: 62.0792 - val_regularization_error: 19.2577
Epoch 978/1000
120/120 [=====] - 16s 133ms/step - loss: 38.7102 - reconstruction_error: 17.5787 - regularization_error: 21.1315 - val_loss: 81.9751 - val_reconstruction_error: 62.6190 - val_regularization_error: 19.3561
Epoch 979/1000
120/120 [=====] - 16s 135ms/step - loss: 38.7073 - reconstruction_error: 17.6195 - regularization_error: 21.0878 - val_loss: 83.2301 - val_reconstruction_error: 63.5052 - val_regularization_error: 19.7250
Epoch 980/1000
120/120 [=====] - 18s 146ms/step - loss: 38.7333 - reconstruction_error: 17.5706 - regularization_error: 21.1627 - val_loss: 80.9908 - val_reconstruction_error: 62.4295 - val_regularization_error: 18.5613
Epoch 981/1000
120/120 [=====] - ETA: 0s - loss: 38.5494 - reconstruction_error: 17.5466 - regularization_error: 21.0028
[2023-12-01 14:32:15.233207]: Reconstructing images for epoch 981 ...
```



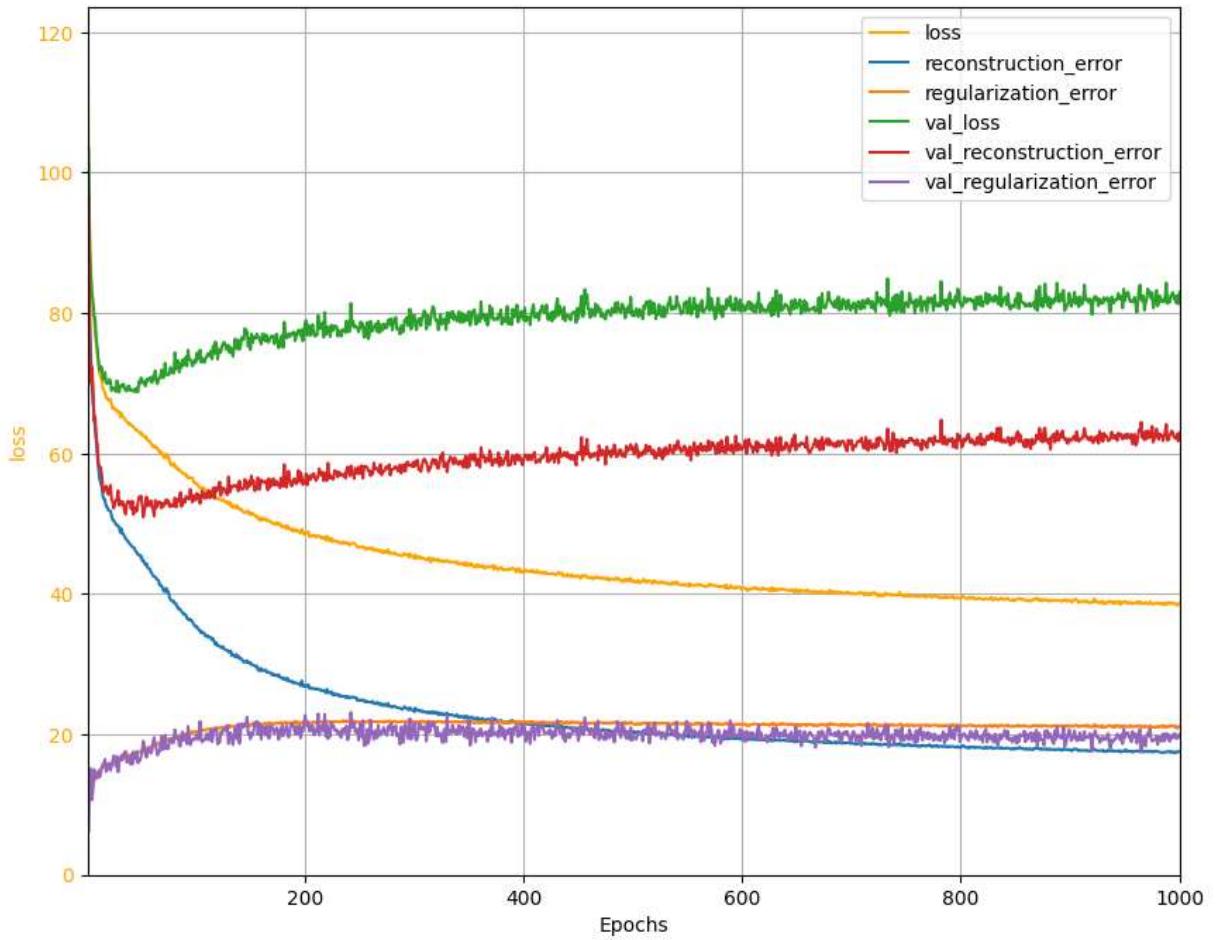
```
120/120 [=====] - 21s 179ms/step - loss: 38.5494 - reconstruction_error: 17.5466 - regularization_error: 21.0028 - val_loss: 81.5229 - val_reconstruction_error: 61.9851 - val_regularization_error: 19.5379
Epoch 982/1000
120/120 [=====] - 19s 160ms/step - loss: 38.6670 - reconstruction_error: 17.5392 - regularization_error: 21.1278 - val_loss: 82.4726 - val_reconstruction_error: 62.7974 - val_regularization_error: 19.6752
Epoch 983/1000
120/120 [=====] - 17s 143ms/step - loss: 38.7163 - reconstruction_error: 17.4796 - regularization_error: 21.2367 - val_loss: 81.7102 - val_reconstruction_error: 62.6575 - val_regularization_error: 19.0527
Epoch 984/1000
120/120 [=====] - 17s 139ms/step - loss: 38.4928 - reconstruction_error: 17.3917 - regularization_error: 21.1011 - val_loss: 81.5980 - val_reconstruction_error: 62.5368 - val_regularization_error: 19.0612
Epoch 985/1000
120/120 [=====] - 19s 157ms/step - loss: 38.6676 - reconstruction_error: 17.4029 - regularization_error: 21.2647 - val_loss: 81.9238 - val_reconstruction_error: 61.8064 - val_regularization_error: 20.1174
Epoch 986/1000
120/120 [=====] - 18s 147ms/step - loss: 38.4826 - reconstruction_error: 17.4548 - regularization_error: 21.0279 - val_loss: 81.5538 - val_reconstruction_error: 62.4918 - val_regularization_error: 19.0620
Epoch 987/1000
120/120 [=====] - 16s 133ms/step - loss: 38.7679 - reconstruction_error: 17.5434 - regularization_error: 21.2245 - val_loss: 82.5445 - val_reconstruction_error: 63.1074 - val_regularization_error: 19.4371
Epoch 988/1000
120/120 [=====] - 19s 155ms/step - loss: 38.5258 - reconstruction_error: 17.4864 - regularization_error: 21.0395 - val_loss: 84.2836 - val_reconstruction_error: 64.1431 - val_regularization_error: 20.1405
Epoch 989/1000
120/120 [=====] - 19s 155ms/step - loss: 38.5630 - reconstruction_error: 17.5163 - regularization_error: 21.0466 - val_loss: 81.3547 - val_reconstruction_error: 61.8777 - val_regularization_error: 19.4770
Epoch 990/1000
120/120 [=====] - 16s 130ms/step - loss: 38.6666 - reconstruction_error: 17.5794 - regularization_error: 21.0872 - val_loss: 81.9807 - val_reconstruction_error: 61.9399 - val_regularization_error: 20.0408
Epoch 991/1000
120/120 [=====] - ETA: 0s - loss: 38.8524 - reconstruction_error: 17.5795 - regularization_error: 21.2728
[2023-12-01 14:35:15.860693]: Reconstructing images for epoch 991 ...
```



```
120/120 [=====] - 21s 171ms/step - loss: 38.8524 - reconstruction_error: 17.5795 - regularization_error: 21.2728 - val_loss: 81.5351 - val_reconstruction_error: 62.5468 - val_regularization_error: 18.9882
Epoch 992/1000
120/120 [=====] - 17s 138ms/step - loss: 38.6171 - reconstruction_error: 17.4309 - regularization_error: 21.1862 - val_loss: 82.5178 - val_reconstruction_error: 62.8507 - val_regularization_error: 19.6671
Epoch 993/1000
120/120 [=====] - 18s 145ms/step - loss: 38.6693 - reconstruction_error: 17.5061 - regularization_error: 21.1632 - val_loss: 82.6267 - val_reconstruction_error: 63.2222 - val_regularization_error: 19.4045
Epoch 994/1000
120/120 [=====] - 16s 130ms/step - loss: 38.7769 - reconstruction_error: 17.5424 - regularization_error: 21.2345 - val_loss: 82.9477 - val_reconstruction_error: 62.9163 - val_regularization_error: 20.0314
Epoch 995/1000
120/120 [=====] - 19s 160ms/step - loss: 38.5701 - reconstruction_error: 17.3668 - regularization_error: 21.2033 - val_loss: 82.0168 - val_reconstruction_error: 62.3775 - val_regularization_error: 19.6394
Epoch 996/1000
120/120 [=====] - 17s 142ms/step - loss: 38.5505 - reconstruction_error: 17.4877 - regularization_error: 21.0628 - val_loss: 82.3390 - val_reconstruction_error: 62.2064 - val_regularization_error: 20.1326
Epoch 997/1000
120/120 [=====] - 18s 152ms/step - loss: 38.5636 - reconstruction_error: 17.4046 - regularization_error: 21.1589 - val_loss: 81.4664 - val_reconstruction_error: 62.0902 - val_regularization_error: 19.3762
Epoch 998/1000
120/120 [=====] - 19s 161ms/step - loss: 38.3757 - reconstruction_error: 17.5260 - regularization_error: 20.8498 - val_loss: 82.4704 - val_reconstruction_error: 62.7789 - val_regularization_error: 19.6915
Epoch 999/1000
120/120 [=====] - 18s 152ms/step - loss: 38.6562 - reconstruction_error: 17.5786 - regularization_error: 21.0776 - val_loss: 81.3033 - val_reconstruction_error: 61.7732 - val_regularization_error: 19.5301
Epoch 1000/1000
120/120 [=====] - ETA: 0s - loss: 38.6949 - reconstruction_error: 17.5436 - regularization_error: 21.1513
[2023-12-01 14:37:56.552706]: Reconstructing images for epoch 1000 ...
```



120/120 [=====] - 17s 137ms/step - loss: 38.6949 - reconstruction_error: 17.5436 - regularization_error: 21.1513 - val_loss: 82.9661 - val_reconstruction_error: 62.9623 - val_regularization_error: 20.0038



Generation

