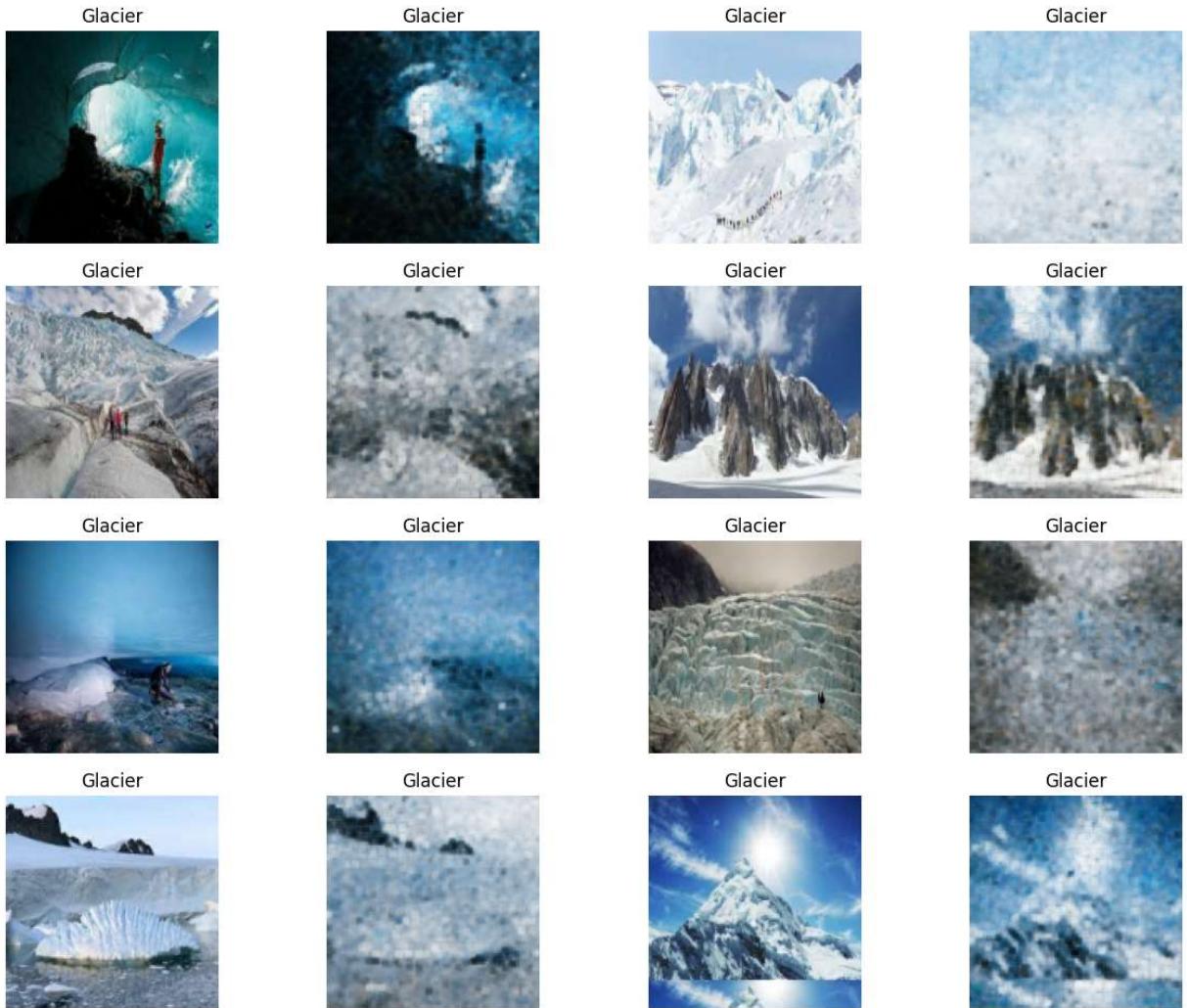


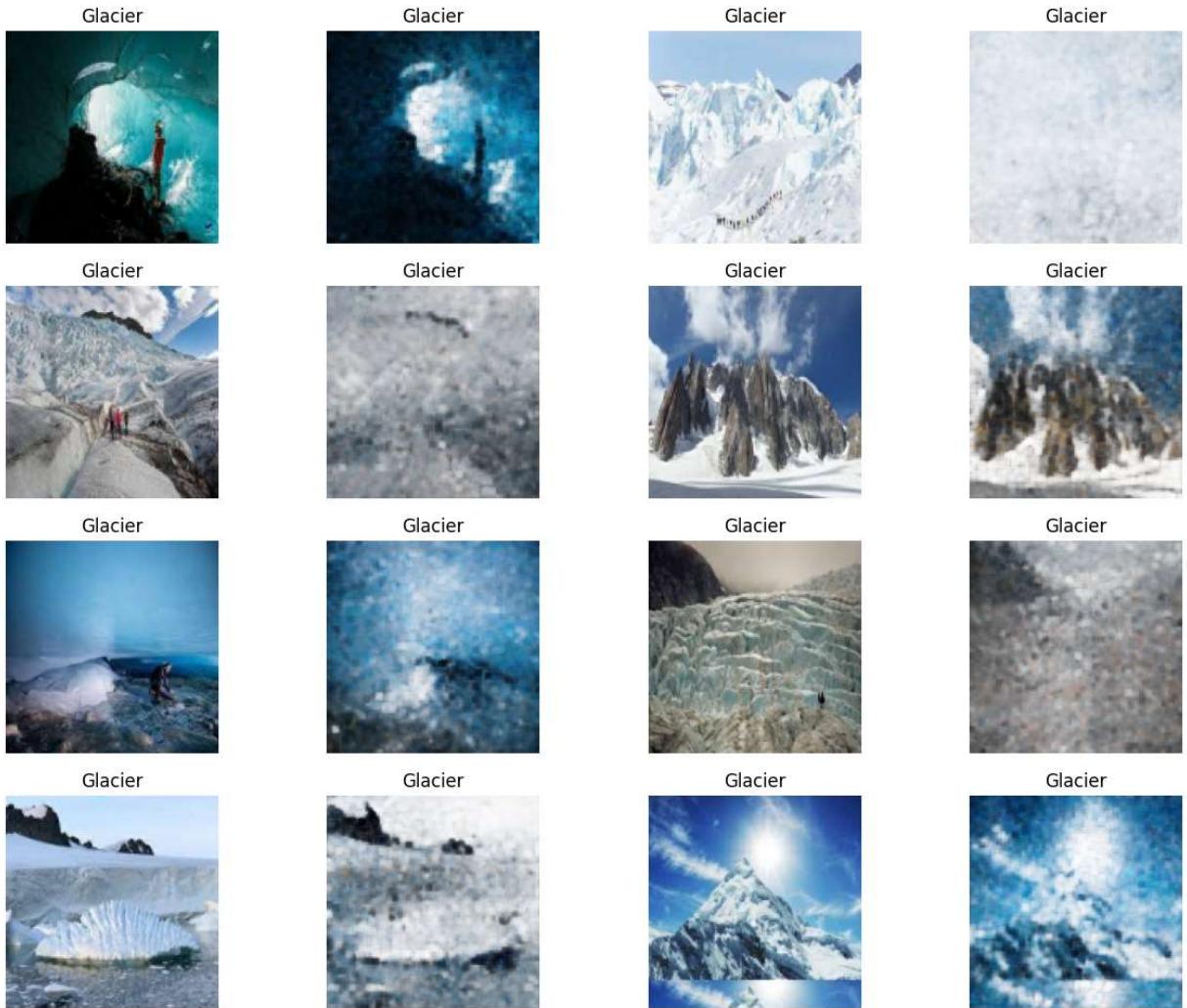
```
120/120 [=====] - 16s 134ms/step - loss: 38.6018 - reconstruction_error: 19.1576 - regularization_error: 19.4443 - val_loss: 69.6303 - val_reconstruction_error: 52.3154 - val_regularization_error: 17.3148
Epoch 502/1000
120/120 [=====] - 17s 142ms/step - loss: 38.3678 - reconstruction_error: 19.1067 - regularization_error: 19.2611 - val_loss: 71.4940 - val_reconstruction_error: 53.2912 - val_regularization_error: 18.2028
Epoch 503/1000
120/120 [=====] - 16s 130ms/step - loss: 38.7822 - reconstruction_error: 19.3885 - regularization_error: 19.3936 - val_loss: 72.2532 - val_reconstruction_error: 54.8159 - val_regularization_error: 17.4372
Epoch 504/1000
120/120 [=====] - 18s 151ms/step - loss: 38.6699 - reconstruction_error: 19.2865 - regularization_error: 19.3834 - val_loss: 70.7977 - val_reconstruction_error: 53.4053 - val_regularization_error: 17.3925
Epoch 505/1000
120/120 [=====] - 16s 133ms/step - loss: 38.5951 - reconstruction_error: 19.2714 - regularization_error: 19.3237 - val_loss: 69.9511 - val_reconstruction_error: 52.5808 - val_regularization_error: 17.3703
Epoch 506/1000
120/120 [=====] - 15s 122ms/step - loss: 38.5613 - reconstruction_error: 19.1506 - regularization_error: 19.4107 - val_loss: 70.1257 - val_reconstruction_error: 52.9893 - val_regularization_error: 17.1365
Epoch 507/1000
120/120 [=====] - 17s 140ms/step - loss: 38.4726 - reconstruction_error: 19.0787 - regularization_error: 19.3939 - val_loss: 71.8876 - val_reconstruction_error: 54.1552 - val_regularization_error: 17.7324
Epoch 508/1000
120/120 [=====] - 17s 138ms/step - loss: 38.4235 - reconstruction_error: 19.1824 - regularization_error: 19.2412 - val_loss: 70.6071 - val_reconstruction_error: 53.6108 - val_regularization_error: 16.9962
Epoch 509/1000
120/120 [=====] - 15s 124ms/step - loss: 38.8630 - reconstruction_error: 19.3116 - regularization_error: 19.5515 - val_loss: 71.3062 - val_reconstruction_error: 53.5427 - val_regularization_error: 17.7636
Epoch 510/1000
120/120 [=====] - 20s 167ms/step - loss: 38.6308 - reconstruction_error: 19.1726 - regularization_error: 19.4582 - val_loss: 70.2062 - val_reconstruction_error: 52.7939 - val_regularization_error: 17.4123
Epoch 511/1000
120/120 [=====] - ETA: 0s - loss: 38.3609 - reconstruction_error: 19.0235 - regularization_error: 19.3374
[2023-12-02 13:16:15.497977]: Reconstructing images for epoch 511 ...
```



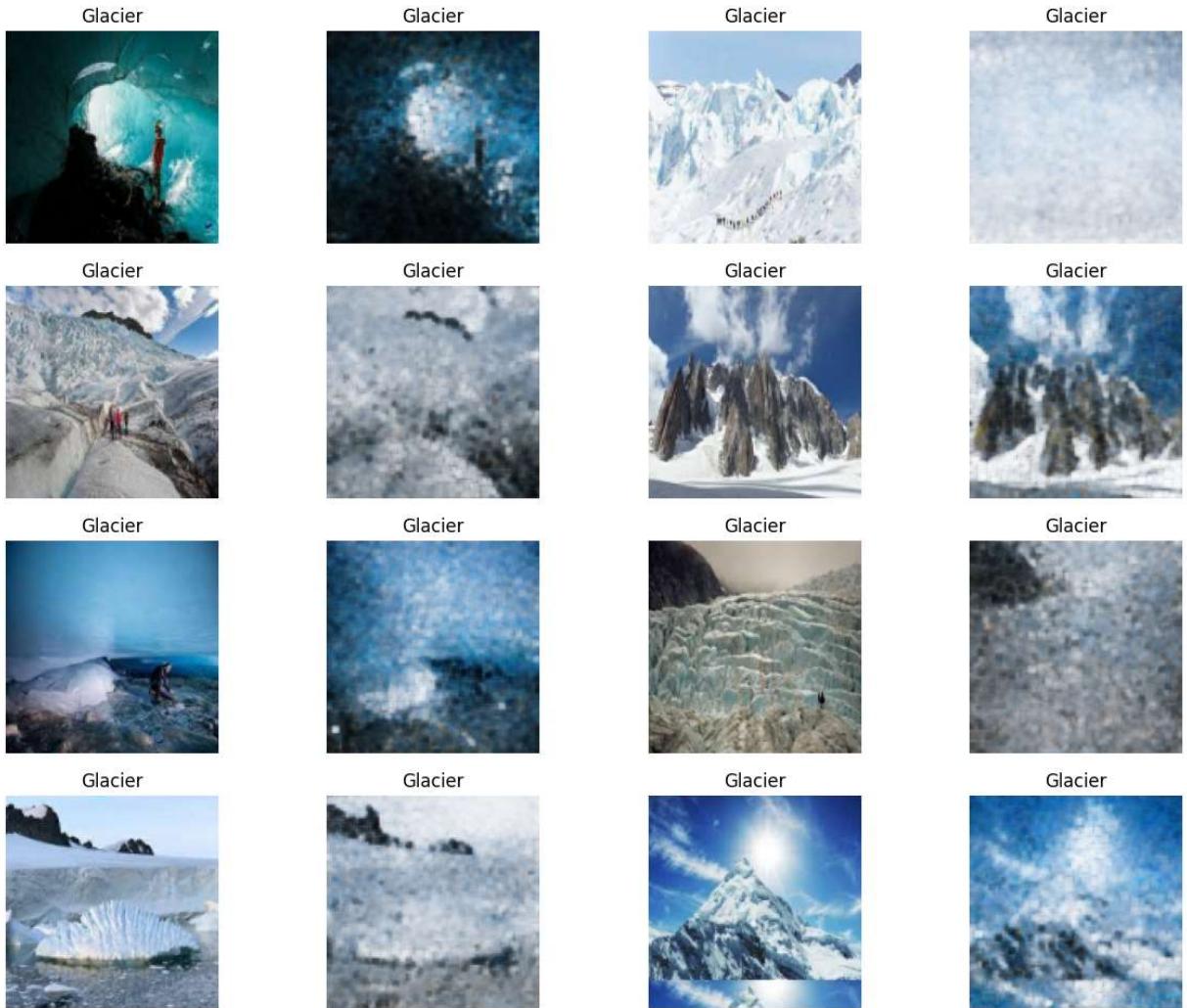
```
120/120 [=====] - 21s 175ms/step - loss: 38.3609 - reconstruction_error: 19.0235 - regularization_error: 19.3374 - val_loss: 70.5999 - val_reconstruction_error: 53.7620 - val_regularization_error: 16.8378
Epoch 512/1000
120/120 [=====] - 17s 142ms/step - loss: 38.4692 - reconstruction_error: 19.1280 - regularization_error: 19.3412 - val_loss: 71.3877 - val_reconstruction_error: 53.7786 - val_regularization_error: 17.6091
Epoch 513/1000
120/120 [=====] - 18s 149ms/step - loss: 38.5780 - reconstruction_error: 19.1109 - regularization_error: 19.4671 - val_loss: 70.9258 - val_reconstruction_error: 53.2894 - val_regularization_error: 17.6364
Epoch 514/1000
120/120 [=====] - 14s 115ms/step - loss: 38.5440 - reconstruction_error: 19.1279 - regularization_error: 19.4161 - val_loss: 70.7777 - val_reconstruction_error: 53.3246 - val_regularization_error: 17.4532
Epoch 515/1000
120/120 [=====] - 15s 123ms/step - loss: 38.3521 - reconstruction_error: 19.0814 - regularization_error: 19.2706 - val_loss: 70.4982 - val_reconstruction_error: 53.9451 - val_regularization_error: 16.5531
Epoch 516/1000
120/120 [=====] - 15s 123ms/step - loss: 38.5709 - reconstruction_error: 19.0787 - regularization_error: 19.4922 - val_loss: 70.9545 - val_reconstruction_error: 54.1038 - val_regularization_error: 16.8507
Epoch 517/1000
120/120 [=====] - 16s 130ms/step - loss: 38.4339 - reconstruction_error: 19.0689 - regularization_error: 19.3650 - val_loss: 70.8091 - val_reconstruction_error: 53.4314 - val_regularization_error: 17.3777
Epoch 518/1000
120/120 [=====] - 17s 139ms/step - loss: 38.4476 - reconstruction_error: 19.1001 - regularization_error: 19.3475 - val_loss: 71.1850 - val_reconstruction_error: 53.1774 - val_regularization_error: 18.0076
Epoch 519/1000
120/120 [=====] - 18s 153ms/step - loss: 38.2041 - reconstruction_error: 19.0317 - regularization_error: 19.1724 - val_loss: 70.9295 - val_reconstruction_error: 53.3114 - val_regularization_error: 17.6181
Epoch 520/1000
120/120 [=====] - 14s 118ms/step - loss: 38.6027 - reconstruction_error: 19.1791 - regularization_error: 19.4236 - val_loss: 70.8990 - val_reconstruction_error: 53.2942 - val_regularization_error: 17.6047
Epoch 521/1000
120/120 [=====] - ETA: 0s - loss: 38.3688 - reconstruction_error: 18.9929 - regularization_error: 19.3760
[2023-12-02 13:18:59.869579]: Reconstructing images for epoch 521 ...
```



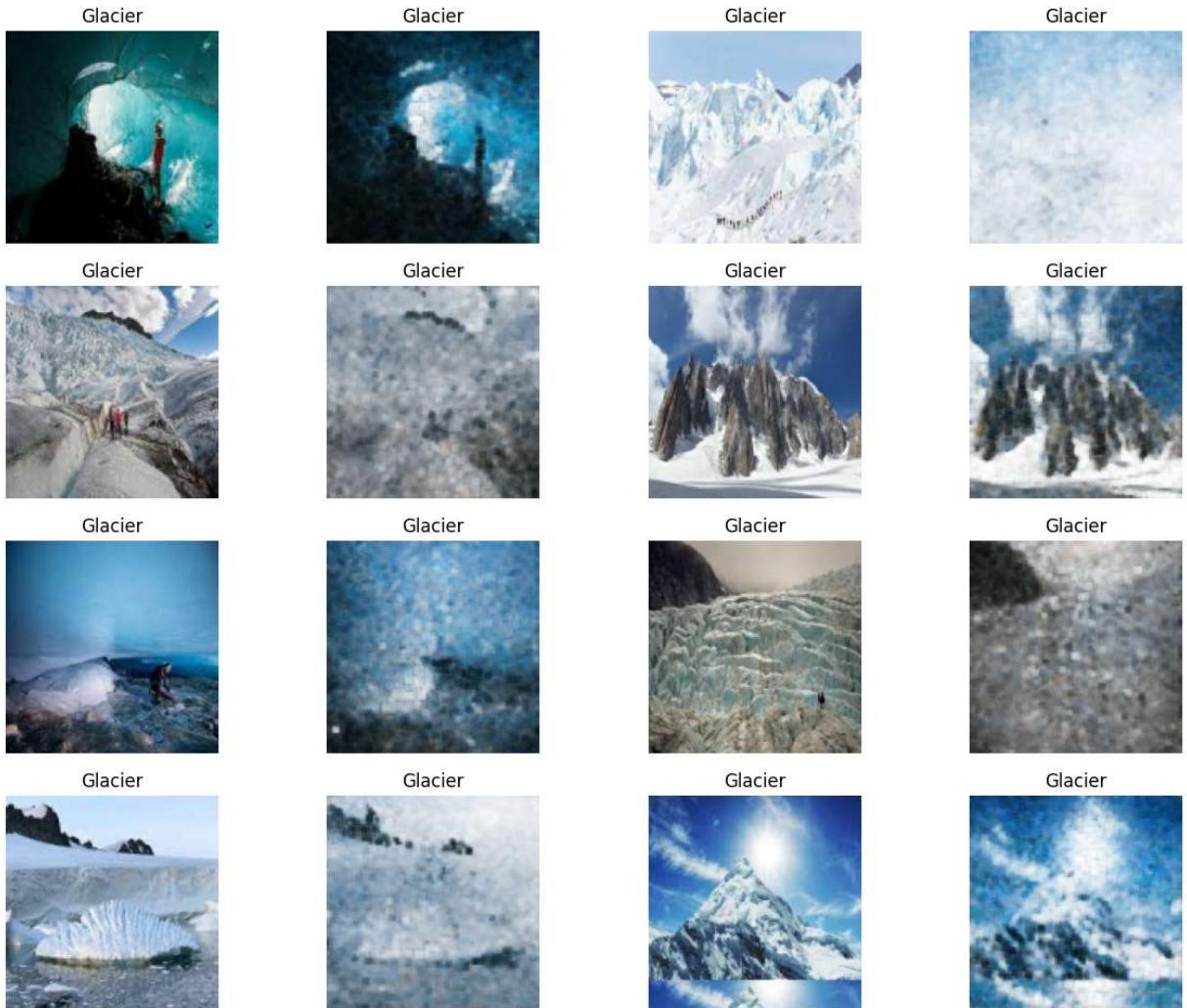
```
120/120 [=====] - 18s 151ms/step - loss: 38.3688 - reconstruction_error: 18.9929 - regularization_error: 19.3760 - val_loss: 71.5490 - val_reconstruction_error: 54.4700 - val_regularization_error: 17.0791
Epoch 522/1000
120/120 [=====] - 16s 137ms/step - loss: 38.2953 - reconstruction_error: 19.0371 - regularization_error: 19.2582 - val_loss: 70.9259 - val_reconstruction_error: 54.3420 - val_regularization_error: 16.5840
Epoch 523/1000
120/120 [=====] - 16s 129ms/step - loss: 38.2245 - reconstruction_error: 18.9930 - regularization_error: 19.2314 - val_loss: 70.7884 - val_reconstruction_error: 53.2988 - val_regularization_error: 17.4896
Epoch 524/1000
120/120 [=====] - 16s 133ms/step - loss: 38.4466 - reconstruction_error: 19.0397 - regularization_error: 19.4069 - val_loss: 71.9885 - val_reconstruction_error: 53.6127 - val_regularization_error: 18.3759
Epoch 525/1000
120/120 [=====] - 19s 158ms/step - loss: 38.2544 - reconstruction_error: 18.9330 - regularization_error: 19.3214 - val_loss: 71.3313 - val_reconstruction_error: 52.9862 - val_regularization_error: 18.3450
Epoch 526/1000
120/120 [=====] - 16s 134ms/step - loss: 38.3028 - reconstruction_error: 18.9610 - regularization_error: 19.3418 - val_loss: 71.8935 - val_reconstruction_error: 53.9252 - val_regularization_error: 17.9684
Epoch 527/1000
120/120 [=====] - 15s 124ms/step - loss: 38.6423 - reconstruction_error: 19.1691 - regularization_error: 19.4733 - val_loss: 71.9217 - val_reconstruction_error: 54.3073 - val_regularization_error: 17.6144
Epoch 528/1000
120/120 [=====] - 17s 133ms/step - loss: 38.3370 - reconstruction_error: 18.9084 - regularization_error: 19.4287 - val_loss: 71.2008 - val_reconstruction_error: 53.3984 - val_regularization_error: 17.8024
Epoch 529/1000
120/120 [=====] - 16s 134ms/step - loss: 38.2628 - reconstruction_error: 18.8444 - regularization_error: 19.4184 - val_loss: 71.8988 - val_reconstruction_error: 53.9005 - val_regularization_error: 17.9983
Epoch 530/1000
120/120 [=====] - 16s 134ms/step - loss: 38.3227 - reconstruction_error: 18.8863 - regularization_error: 19.4364 - val_loss: 70.7764 - val_reconstruction_error: 52.9718 - val_regularization_error: 17.8046
Epoch 531/1000
120/120 [=====] - ETA: 0s - loss: 38.4167 - reconstruction_error: 18.9397 - regularization_error: 19.4770
[2023-12-02 13:21:49.095219]: Reconstructing images for epoch 531 ...
```



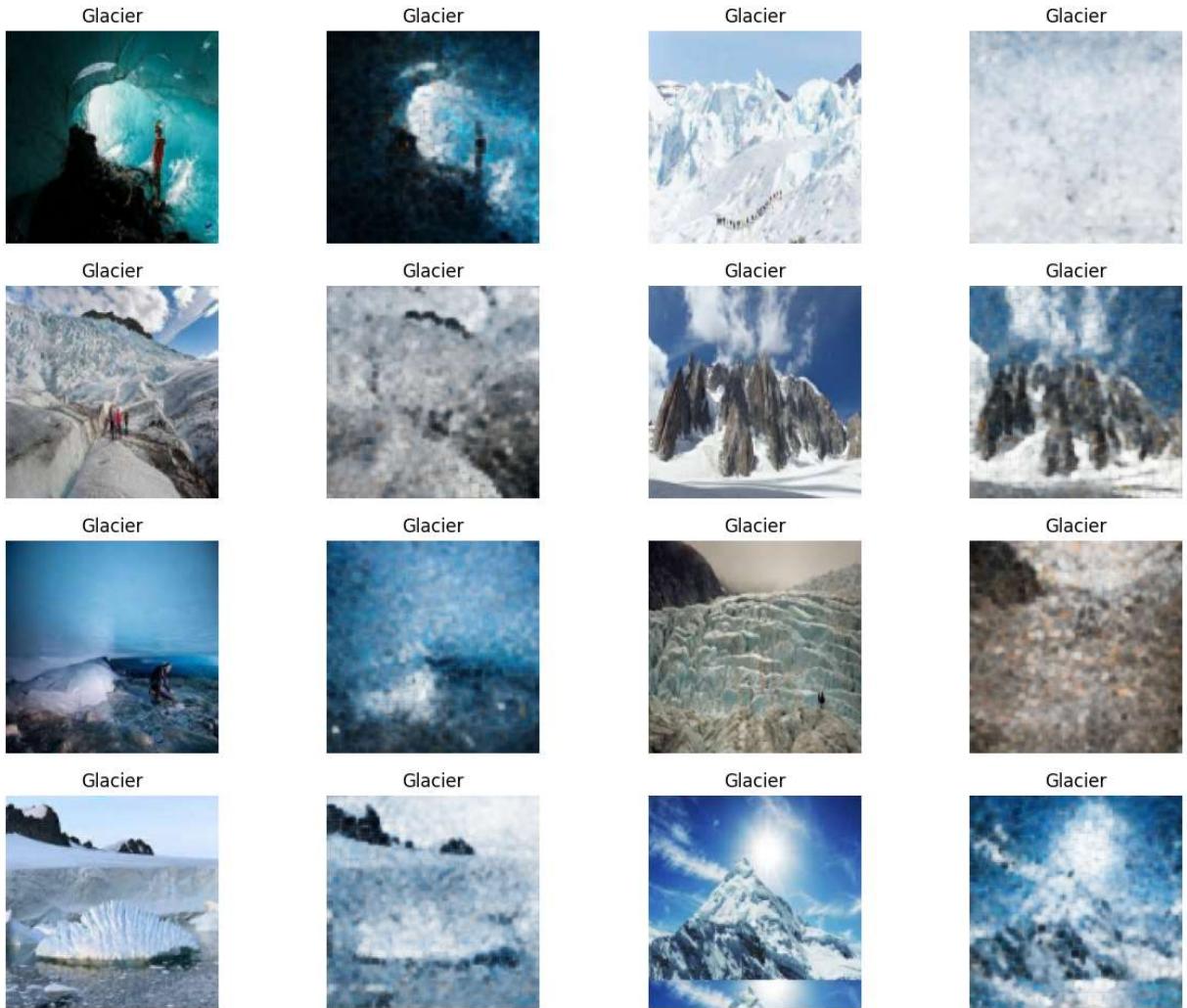
```
120/120 [=====] - 22s 178ms/step - loss: 38.4167 - reconstruction_error: 18.9397 - regularization_error: 19.4770 - val_loss: 74.2919 - val_reconstruction_error: 54.7604 - val_regularization_error: 19.5314
Epoch 532/1000
120/120 [=====] - 16s 128ms/step - loss: 38.4909 - reconstruction_error: 19.2571 - regularization_error: 19.2337 - val_loss: 71.8691 - val_reconstruction_error: 54.1237 - val_regularization_error: 17.7454
Epoch 533/1000
120/120 [=====] - 15s 125ms/step - loss: 38.2440 - reconstruction_error: 18.9004 - regularization_error: 19.3436 - val_loss: 72.7789 - val_reconstruction_error: 54.0410 - val_regularization_error: 18.7378
Epoch 534/1000
120/120 [=====] - 17s 132ms/step - loss: 38.1619 - reconstruction_error: 18.7632 - regularization_error: 19.3988 - val_loss: 72.0974 - val_reconstruction_error: 54.1211 - val_regularization_error: 17.9763
Epoch 535/1000
120/120 [=====] - 14s 111ms/step - loss: 38.0979 - reconstruction_error: 18.7355 - regularization_error: 19.3625 - val_loss: 70.6426 - val_reconstruction_error: 53.6043 - val_regularization_error: 17.0384
Epoch 536/1000
120/120 [=====] - 17s 140ms/step - loss: 38.2824 - reconstruction_error: 18.8683 - regularization_error: 19.4141 - val_loss: 69.9001 - val_reconstruction_error: 53.3769 - val_regularization_error: 16.5232
Epoch 537/1000
120/120 [=====] - 16s 131ms/step - loss: 38.1891 - reconstruction_error: 18.8438 - regularization_error: 19.3453 - val_loss: 71.2460 - val_reconstruction_error: 53.0509 - val_regularization_error: 18.1952
Epoch 538/1000
120/120 [=====] - 18s 147ms/step - loss: 38.3100 - reconstruction_error: 18.9042 - regularization_error: 19.4058 - val_loss: 71.0802 - val_reconstruction_error: 53.3548 - val_regularization_error: 17.7253
Epoch 539/1000
120/120 [=====] - 17s 141ms/step - loss: 38.0725 - reconstruction_error: 18.7518 - regularization_error: 19.3207 - val_loss: 71.2177 - val_reconstruction_error: 52.9898 - val_regularization_error: 18.2279
Epoch 540/1000
120/120 [=====] - 15s 129ms/step - loss: 38.3691 - reconstruction_error: 18.9367 - regularization_error: 19.4324 - val_loss: 70.6193 - val_reconstruction_error: 52.3083 - val_regularization_error: 18.3110
Epoch 541/1000
120/120 [=====] - ETA: 0s - loss: 38.0573 - reconstruction_error: 18.7542 - regularization_error: 19.3031
[2023-12-02 13:24:33.445936]: Reconstructing images for epoch 541 ...
```



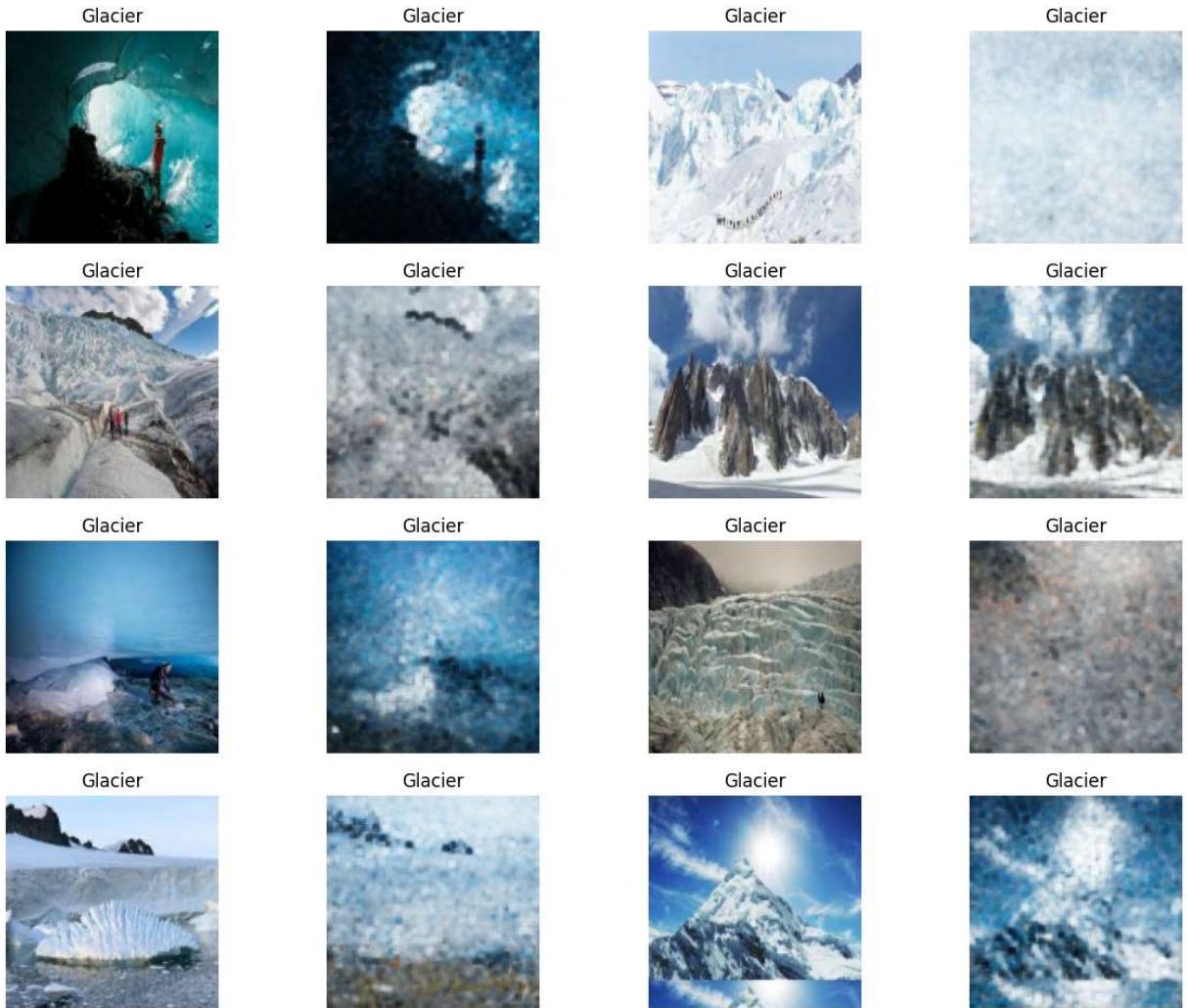
```
120/120 [=====] - 18s 146ms/step - loss: 38.0573 - reconstruction_error: 18.7542 - regularization_error: 19.3031 - val_loss: 70.9859 - val_reconstruction_error: 53.5480 - val_regularization_error: 17.4379
Epoch 542/1000
120/120 [=====] - 16s 132ms/step - loss: 37.9666 - reconstruction_error: 18.7266 - regularization_error: 19.2400 - val_loss: 70.9208 - val_reconstruction_error: 53.6284 - val_regularization_error: 17.2924
Epoch 543/1000
120/120 [=====] - 18s 148ms/step - loss: 38.0836 - reconstruction_error: 18.8550 - regularization_error: 19.2286 - val_loss: 71.7772 - val_reconstruction_error: 53.6774 - val_regularization_error: 18.0998
Epoch 544/1000
120/120 [=====] - 15s 128ms/step - loss: 38.1622 - reconstruction_error: 18.8586 - regularization_error: 19.3036 - val_loss: 72.5206 - val_reconstruction_error: 54.1400 - val_regularization_error: 18.3806
Epoch 545/1000
120/120 [=====] - 17s 141ms/step - loss: 38.0120 - reconstruction_error: 18.7832 - regularization_error: 19.2287 - val_loss: 69.6778 - val_reconstruction_error: 52.5479 - val_regularization_error: 17.1299
Epoch 546/1000
120/120 [=====] - 17s 141ms/step - loss: 38.1498 - reconstruction_error: 18.8430 - regularization_error: 19.3067 - val_loss: 71.2378 - val_reconstruction_error: 53.4377 - val_regularization_error: 17.8001
Epoch 547/1000
120/120 [=====] - 17s 138ms/step - loss: 38.1032 - reconstruction_error: 18.7237 - regularization_error: 19.3795 - val_loss: 72.2870 - val_reconstruction_error: 54.3979 - val_regularization_error: 17.8892
Epoch 548/1000
120/120 [=====] - 17s 143ms/step - loss: 38.0675 - reconstruction_error: 18.8202 - regularization_error: 19.2473 - val_loss: 72.4486 - val_reconstruction_error: 54.5406 - val_regularization_error: 17.9080
Epoch 549/1000
120/120 [=====] - 15s 117ms/step - loss: 38.1572 - reconstruction_error: 18.8987 - regularization_error: 19.2586 - val_loss: 72.0370 - val_reconstruction_error: 54.0405 - val_regularization_error: 17.9965
Epoch 550/1000
120/120 [=====] - 16s 130ms/step - loss: 38.1224 - reconstruction_error: 18.7410 - regularization_error: 19.3814 - val_loss: 72.8306 - val_reconstruction_error: 54.2092 - val_regularization_error: 18.6215
Epoch 551/1000
120/120 [=====] - ETA: 0s - loss: 37.8913 - reconstruction_error: 18.6539 - regularization_error: 19.2375
[2023-12-02 13:27:25.361784]: Reconstructing images for epoch 551 ...
```



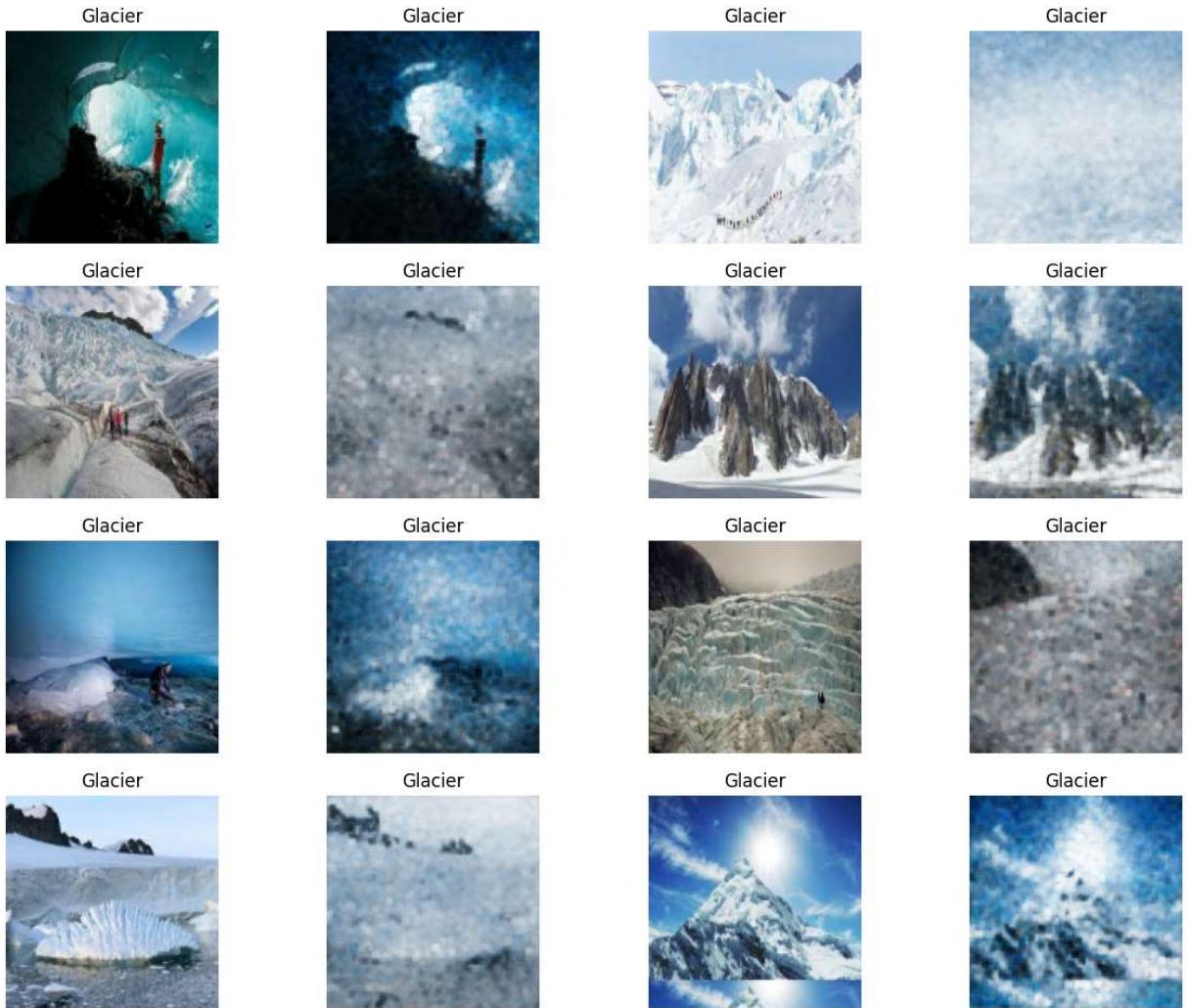
```
120/120 [=====] - 19s 155ms/step - loss: 37.8913 - reconstruction_error: 18.6539 - regularization_error: 19.2375 - val_loss: 71.7729 - val_reconstruction_error: 54.2021 - val_regularization_error: 17.5708
Epoch 552/1000
120/120 [=====] - 15s 126ms/step - loss: 38.2295 - reconstruction_error: 18.7560 - regularization_error: 19.4734 - val_loss: 70.6105 - val_reconstruction_error: 52.8191 - val_regularization_error: 17.7913
Epoch 553/1000
120/120 [=====] - 13s 106ms/step - loss: 37.8043 - reconstruction_error: 18.6565 - regularization_error: 19.1478 - val_loss: 72.2265 - val_reconstruction_error: 54.0088 - val_regularization_error: 18.2177
Epoch 554/1000
120/120 [=====] - 17s 137ms/step - loss: 38.2281 - reconstruction_error: 18.8069 - regularization_error: 19.4211 - val_loss: 71.2532 - val_reconstruction_error: 53.8243 - val_regularization_error: 17.4289
Epoch 555/1000
120/120 [=====] - 13s 110ms/step - loss: 37.9357 - reconstruction_error: 18.6960 - regularization_error: 19.2398 - val_loss: 71.7506 - val_reconstruction_error: 53.7706 - val_regularization_error: 17.9800
Epoch 556/1000
120/120 [=====] - 16s 133ms/step - loss: 38.0090 - reconstruction_error: 18.6425 - regularization_error: 19.3665 - val_loss: 71.9362 - val_reconstruction_error: 53.6031 - val_regularization_error: 18.3331
Epoch 557/1000
120/120 [=====] - 18s 152ms/step - loss: 37.9425 - reconstruction_error: 18.5755 - regularization_error: 19.3670 - val_loss: 71.3341 - val_reconstruction_error: 53.3067 - val_regularization_error: 18.0274
Epoch 558/1000
120/120 [=====] - 16s 136ms/step - loss: 38.0172 - reconstruction_error: 18.6600 - regularization_error: 19.3572 - val_loss: 70.0061 - val_reconstruction_error: 52.9352 - val_regularization_error: 17.0709
Epoch 559/1000
120/120 [=====] - 18s 143ms/step - loss: 37.9431 - reconstruction_error: 18.5828 - regularization_error: 19.3603 - val_loss: 71.8223 - val_reconstruction_error: 53.6285 - val_regularization_error: 18.1938
Epoch 560/1000
120/120 [=====] - 13s 105ms/step - loss: 37.9865 - reconstruction_error: 18.5195 - regularization_error: 19.4670 - val_loss: 71.9078 - val_reconstruction_error: 54.0920 - val_regularization_error: 17.8158
Epoch 561/1000
119/120 [=====.>.] - ETA: 0s - loss: 37.8761 - reconstruction_error: 18.6954 - regularization_error: 19.1806
[2023-12-02 13:30:08.149201]: Reconstructing images for epoch 561 ...
```



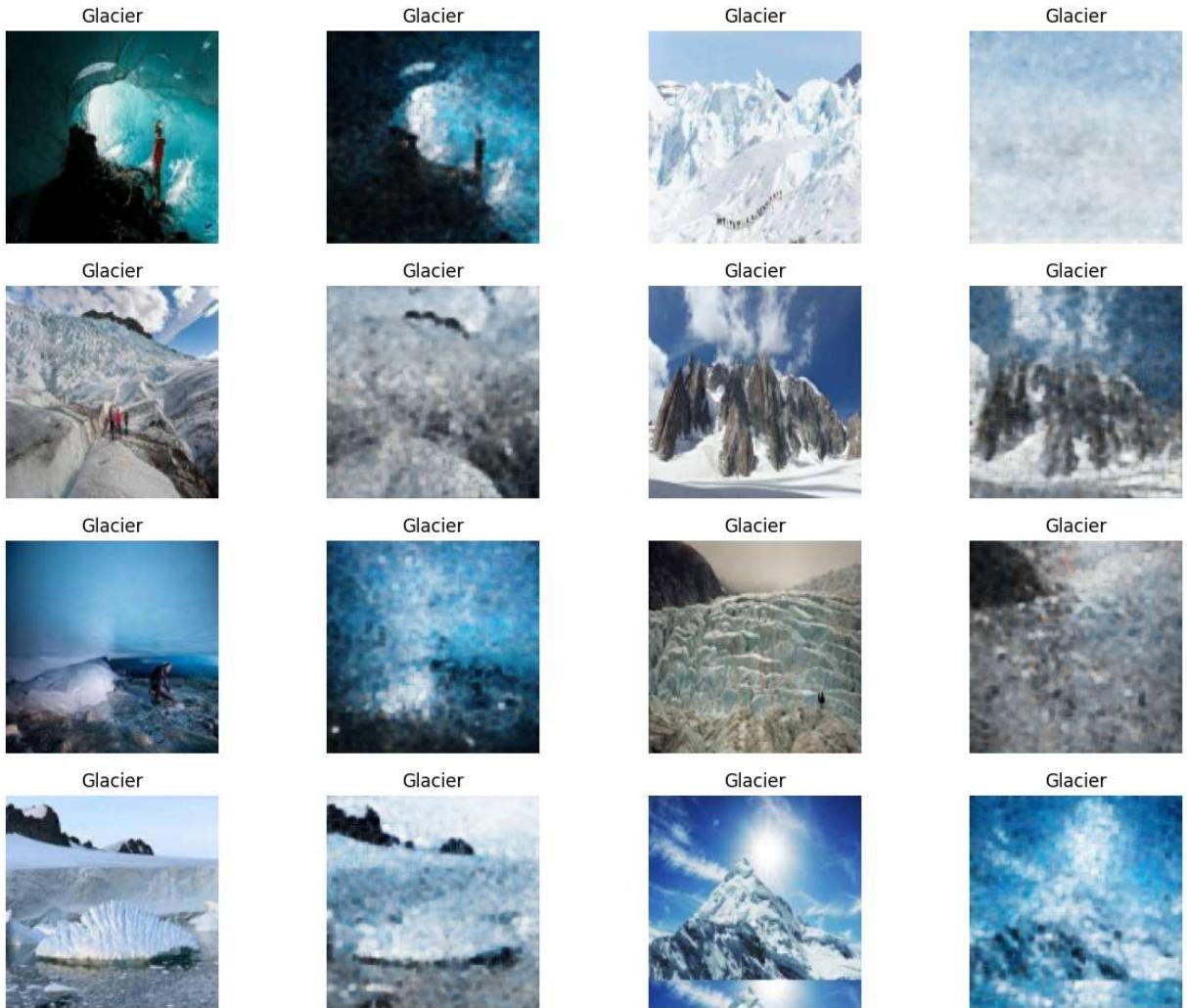
```
120/120 [=====] - 21s 174ms/step - loss: 37.9005 - reconstruction_error: 18.7054 - regularization_error: 19.1951 - val_loss: 72.3678 - val_reconstruction_error: 53.2640 - val_regularization_error: 19.1038
Epoch 562/1000
120/120 [=====] - 15s 121ms/step - loss: 38.0326 - reconstruction_error: 18.5887 - regularization_error: 19.4439 - val_loss: 70.9760 - val_reconstruction_error: 53.7650 - val_regularization_error: 17.2111
Epoch 563/1000
120/120 [=====] - 18s 148ms/step - loss: 38.0295 - reconstruction_error: 18.7340 - regularization_error: 19.2954 - val_loss: 70.0912 - val_reconstruction_error: 53.4954 - val_regularization_error: 16.5958
Epoch 564/1000
120/120 [=====] - 15s 119ms/step - loss: 38.2321 - reconstruction_error: 18.8043 - regularization_error: 19.4278 - val_loss: 73.9958 - val_reconstruction_error: 54.8663 - val_regularization_error: 19.1295
Epoch 565/1000
120/120 [=====] - 17s 139ms/step - loss: 37.9907 - reconstruction_error: 18.6695 - regularization_error: 19.3212 - val_loss: 71.6529 - val_reconstruction_error: 54.3354 - val_regularization_error: 17.3175
Epoch 566/1000
120/120 [=====] - 15s 125ms/step - loss: 37.9292 - reconstruction_error: 18.6143 - regularization_error: 19.3149 - val_loss: 71.4576 - val_reconstruction_error: 54.0032 - val_regularization_error: 17.4543
Epoch 567/1000
120/120 [=====] - 15s 122ms/step - loss: 37.8987 - reconstruction_error: 18.6415 - regularization_error: 19.2572 - val_loss: 71.7124 - val_reconstruction_error: 53.2909 - val_regularization_error: 18.4216
Epoch 568/1000
120/120 [=====] - 18s 149ms/step - loss: 37.7699 - reconstruction_error: 18.5364 - regularization_error: 19.2335 - val_loss: 72.2930 - val_reconstruction_error: 54.3585 - val_regularization_error: 17.9344
Epoch 569/1000
120/120 [=====] - 14s 117ms/step - loss: 38.0407 - reconstruction_error: 18.6216 - regularization_error: 19.4191 - val_loss: 70.7085 - val_reconstruction_error: 53.7163 - val_regularization_error: 16.9923
Epoch 570/1000
120/120 [=====] - 16s 134ms/step - loss: 37.9353 - reconstruction_error: 18.5979 - regularization_error: 19.3373 - val_loss: 71.3187 - val_reconstruction_error: 54.5409 - val_regularization_error: 16.7778
Epoch 571/1000
119/120 [=====.>.] - ETA: 0s - loss: 38.0363 - reconstruction_error: 18.6329 - regularization_error: 19.4034
[2023-12-02 13:33:09.044179]: Reconstructing images for epoch 571 ...
```



```
120/120 [=====] - 18s 152ms/step - loss: 38.0355 - reconstruction_error: 18.6387 - regularization_error: 19.3968 - val_loss: 71.3472 - val_reconstruction_error: 54.1248 - val_regularization_error: 17.2224
Epoch 572/1000
120/120 [=====] - 17s 138ms/step - loss: 37.9321 - reconstruction_error: 18.6907 - regularization_error: 19.2413 - val_loss: 71.7557 - val_reconstruction_error: 54.1476 - val_regularization_error: 17.6081
Epoch 573/1000
120/120 [=====] - 17s 138ms/step - loss: 37.9354 - reconstruction_error: 18.5929 - regularization_error: 19.3425 - val_loss: 71.1511 - val_reconstruction_error: 53.2751 - val_regularization_error: 17.8760
Epoch 574/1000
120/120 [=====] - 17s 138ms/step - loss: 37.7098 - reconstruction_error: 18.4340 - regularization_error: 19.2758 - val_loss: 72.1956 - val_reconstruction_error: 53.6023 - val_regularization_error: 18.5933
Epoch 575/1000
120/120 [=====] - 16s 133ms/step - loss: 37.7868 - reconstruction_error: 18.4145 - regularization_error: 19.3723 - val_loss: 71.3432 - val_reconstruction_error: 53.7033 - val_regularization_error: 17.6399
Epoch 576/1000
120/120 [=====] - 15s 126ms/step - loss: 38.0770 - reconstruction_error: 18.7105 - regularization_error: 19.3665 - val_loss: 71.0573 - val_reconstruction_error: 53.7536 - val_regularization_error: 17.3037
Epoch 577/1000
120/120 [=====] - 16s 130ms/step - loss: 37.7414 - reconstruction_error: 18.4531 - regularization_error: 19.2882 - val_loss: 72.4860 - val_reconstruction_error: 54.1076 - val_regularization_error: 18.3785
Epoch 578/1000
120/120 [=====] - 16s 129ms/step - loss: 37.7361 - reconstruction_error: 18.5947 - regularization_error: 19.1414 - val_loss: 71.2166 - val_reconstruction_error: 53.7506 - val_regularization_error: 17.4660
Epoch 579/1000
120/120 [=====] - 15s 125ms/step - loss: 37.7662 - reconstruction_error: 18.5308 - regularization_error: 19.2354 - val_loss: 72.1757 - val_reconstruction_error: 54.3244 - val_regularization_error: 17.8513
Epoch 580/1000
120/120 [=====] - 16s 137ms/step - loss: 37.8909 - reconstruction_error: 18.5230 - regularization_error: 19.3680 - val_loss: 71.0375 - val_reconstruction_error: 54.2044 - val_regularization_error: 16.8332
Epoch 581/1000
120/120 [=====] - ETA: 0s - loss: 37.9547 - reconstruction_error: 18.5089 - regularization_error: 19.4458
[2023-12-02 13:35:53.950356]: Reconstructing images for epoch 581 ...
```



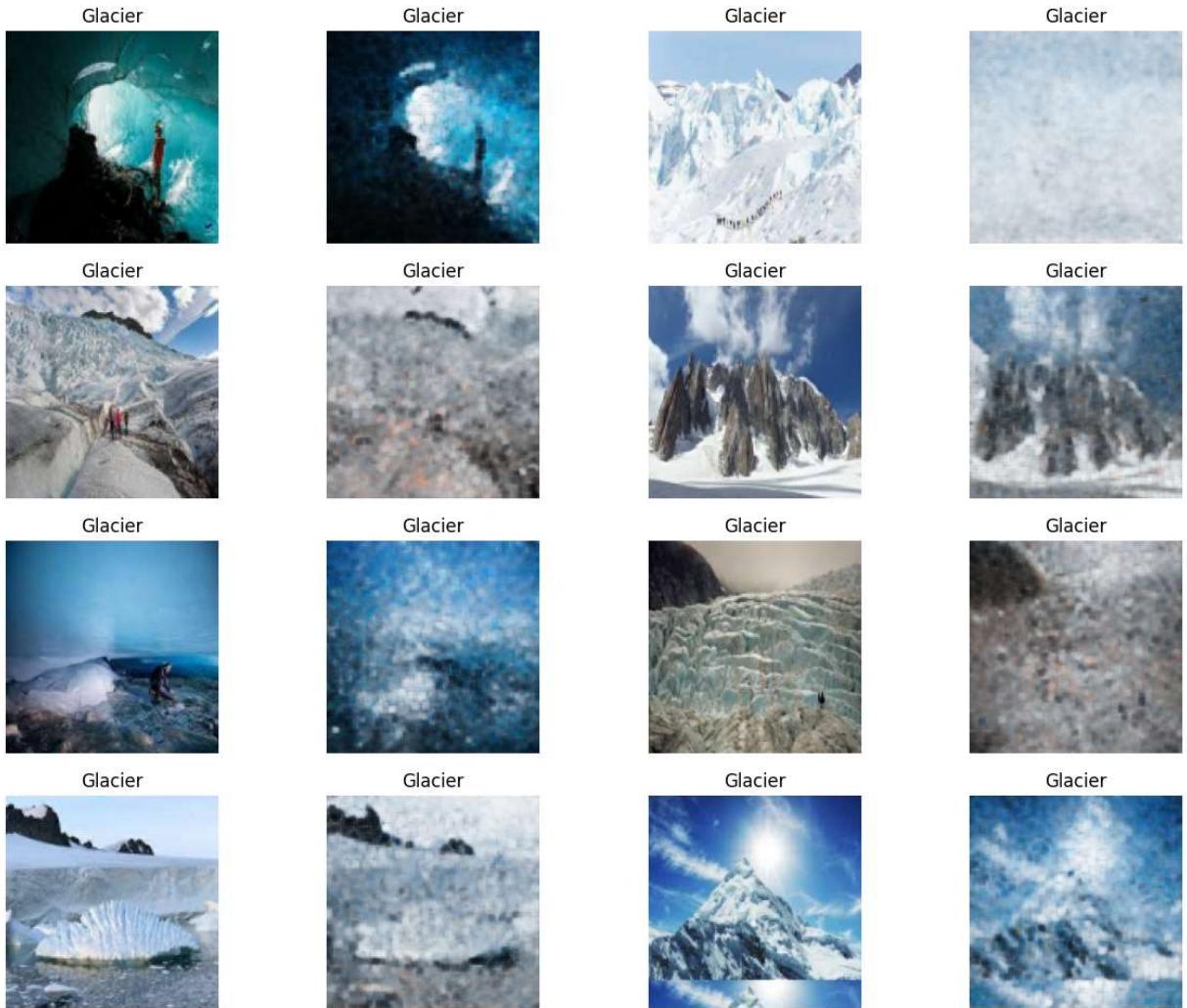
```
120/120 [=====] - 18s 154ms/step - loss: 37.9547 - reconstruction_error: 18.5089 - regularization_error: 19.4458 - val_loss: 71.3350 - val_reconstruction_error: 53.8491 - val_regularization_error: 17.4860
Epoch 582/1000
120/120 [=====] - 17s 145ms/step - loss: 37.9585 - reconstruction_error: 18.5187 - regularization_error: 19.4398 - val_loss: 71.8847 - val_reconstruction_error: 54.3266 - val_regularization_error: 17.5581
Epoch 583/1000
120/120 [=====] - 15s 123ms/step - loss: 37.8106 - reconstruction_error: 18.4505 - regularization_error: 19.3602 - val_loss: 71.4853 - val_reconstruction_error: 54.0231 - val_regularization_error: 17.4622
Epoch 584/1000
120/120 [=====] - 18s 145ms/step - loss: 37.9721 - reconstruction_error: 18.6307 - regularization_error: 19.3414 - val_loss: 72.4984 - val_reconstruction_error: 53.4170 - val_regularization_error: 19.0814
Epoch 585/1000
120/120 [=====] - 18s 148ms/step - loss: 37.6503 - reconstruction_error: 18.3870 - regularization_error: 19.2632 - val_loss: 71.5522 - val_reconstruction_error: 54.0844 - val_regularization_error: 17.4677
Epoch 586/1000
120/120 [=====] - 16s 135ms/step - loss: 37.8112 - reconstruction_error: 18.4261 - regularization_error: 19.3851 - val_loss: 71.6766 - val_reconstruction_error: 55.3423 - val_regularization_error: 16.3344
Epoch 587/1000
120/120 [=====] - 17s 136ms/step - loss: 37.9868 - reconstruction_error: 18.6140 - regularization_error: 19.3728 - val_loss: 70.8514 - val_reconstruction_error: 53.6224 - val_regularization_error: 17.2290
Epoch 588/1000
120/120 [=====] - 16s 133ms/step - loss: 37.8699 - reconstruction_error: 18.5676 - regularization_error: 19.3023 - val_loss: 71.5234 - val_reconstruction_error: 54.1655 - val_regularization_error: 17.3580
Epoch 589/1000
120/120 [=====] - 18s 146ms/step - loss: 37.7276 - reconstruction_error: 18.4546 - regularization_error: 19.2729 - val_loss: 71.8000 - val_reconstruction_error: 53.5036 - val_regularization_error: 18.2965
Epoch 590/1000
120/120 [=====] - 13s 106ms/step - loss: 37.7704 - reconstruction_error: 18.4588 - regularization_error: 19.3116 - val_loss: 70.8866 - val_reconstruction_error: 53.1932 - val_regularization_error: 17.6934
Epoch 591/1000
120/120 [=====] - ETA: 0s - loss: 37.9095 - reconstruction_error: 18.5712 - regularization_error: 19.3382
[2023-12-02 13:38:42.489447]: Reconstructing images for epoch 591 ...
```



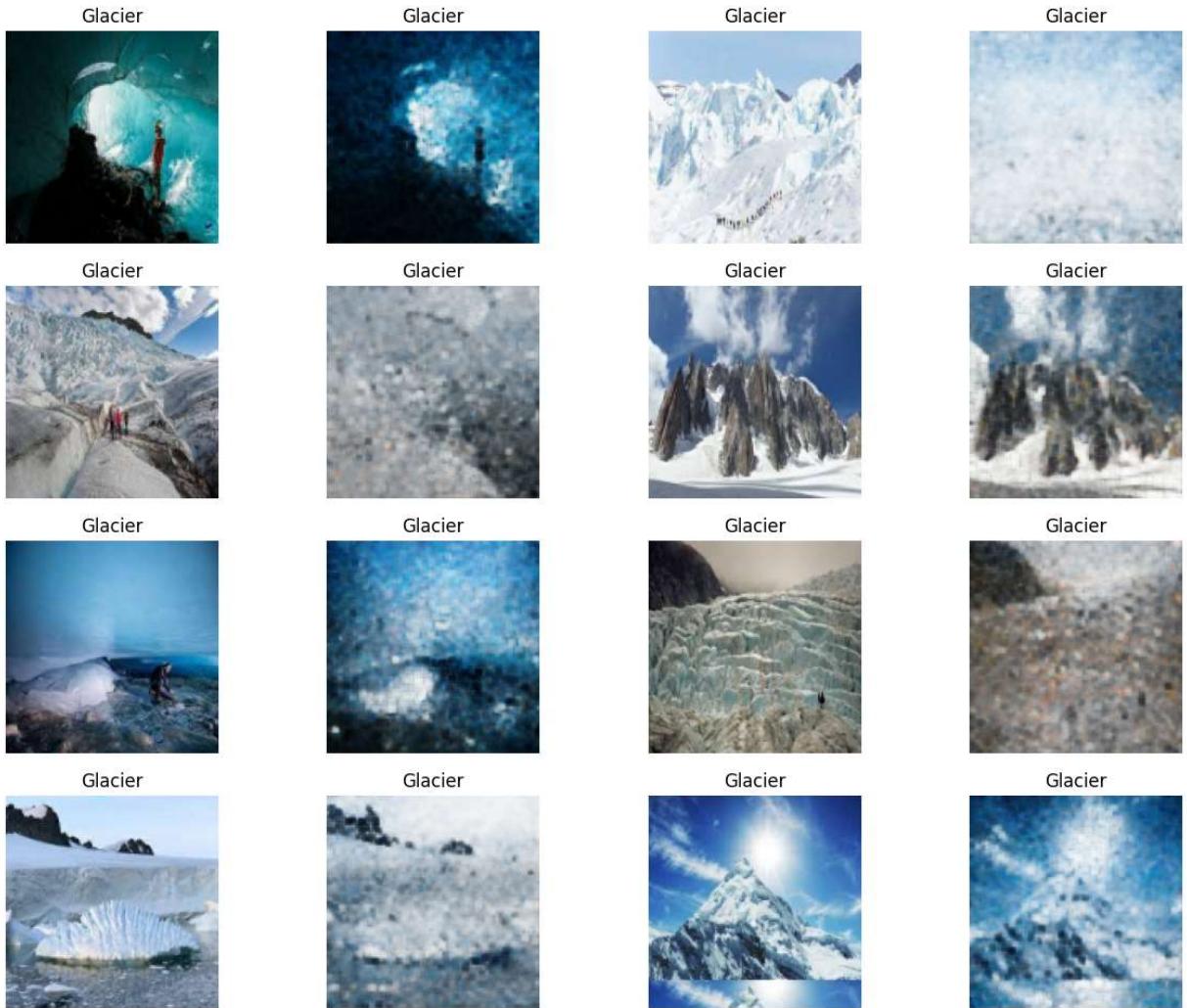
```
120/120 [=====] - 19s 156ms/step - loss: 37.9095 - reconstruction_error: 18.5712 - regularization_error: 19.3382 - val_loss: 71.5847 - val_reconstruction_error: 53.3745 - val_regularization_error: 18.2102
Epoch 592/1000
120/120 [=====] - 17s 145ms/step - loss: 37.6542 - reconstruction_error: 18.3375 - regularization_error: 19.3167 - val_loss: 72.3650 - val_reconstruction_error: 54.1887 - val_regularization_error: 18.1763
Epoch 593/1000
120/120 [=====] - 18s 146ms/step - loss: 37.5072 - reconstruction_error: 18.2477 - regularization_error: 19.2595 - val_loss: 69.9440 - val_reconstruction_error: 53.5821 - val_regularization_error: 16.3619
Epoch 594/1000
120/120 [=====] - 16s 133ms/step - loss: 37.7914 - reconstruction_error: 18.4195 - regularization_error: 19.3719 - val_loss: 72.9354 - val_reconstruction_error: 55.0022 - val_regularization_error: 17.9332
Epoch 595/1000
120/120 [=====] - 18s 150ms/step - loss: 37.6539 - reconstruction_error: 18.4187 - regularization_error: 19.2352 - val_loss: 72.8523 - val_reconstruction_error: 55.9920 - val_regularization_error: 16.8604
Epoch 596/1000
120/120 [=====] - 17s 144ms/step - loss: 37.5796 - reconstruction_error: 18.4289 - regularization_error: 19.1507 - val_loss: 72.5528 - val_reconstruction_error: 54.2267 - val_regularization_error: 18.3261
Epoch 597/1000
120/120 [=====] - 14s 116ms/step - loss: 37.5359 - reconstruction_error: 18.2219 - regularization_error: 19.3141 - val_loss: 72.9974 - val_reconstruction_error: 55.2035 - val_regularization_error: 17.7939
Epoch 598/1000
120/120 [=====] - 16s 129ms/step - loss: 37.5523 - reconstruction_error: 18.2863 - regularization_error: 19.2660 - val_loss: 70.0470 - val_reconstruction_error: 53.2517 - val_regularization_error: 16.7953
Epoch 599/1000
120/120 [=====] - 15s 124ms/step - loss: 37.5272 - reconstruction_error: 18.2932 - regularization_error: 19.2341 - val_loss: 73.1458 - val_reconstruction_error: 55.3970 - val_regularization_error: 17.7488
Epoch 600/1000
120/120 [=====] - 15s 122ms/step - loss: 37.5887 - reconstruction_error: 18.3860 - regularization_error: 19.2027 - val_loss: 71.4735 - val_reconstruction_error: 54.4937 - val_regularization_error: 16.9799
Epoch 601/1000
120/120 [=====] - ETA: 0s - loss: 37.6862 - reconstruction_error: 18.3345 - regularization_error: 19.3517
[2023-12-02 13:41:29.245158]: Reconstructing images for epoch 601 ...
```



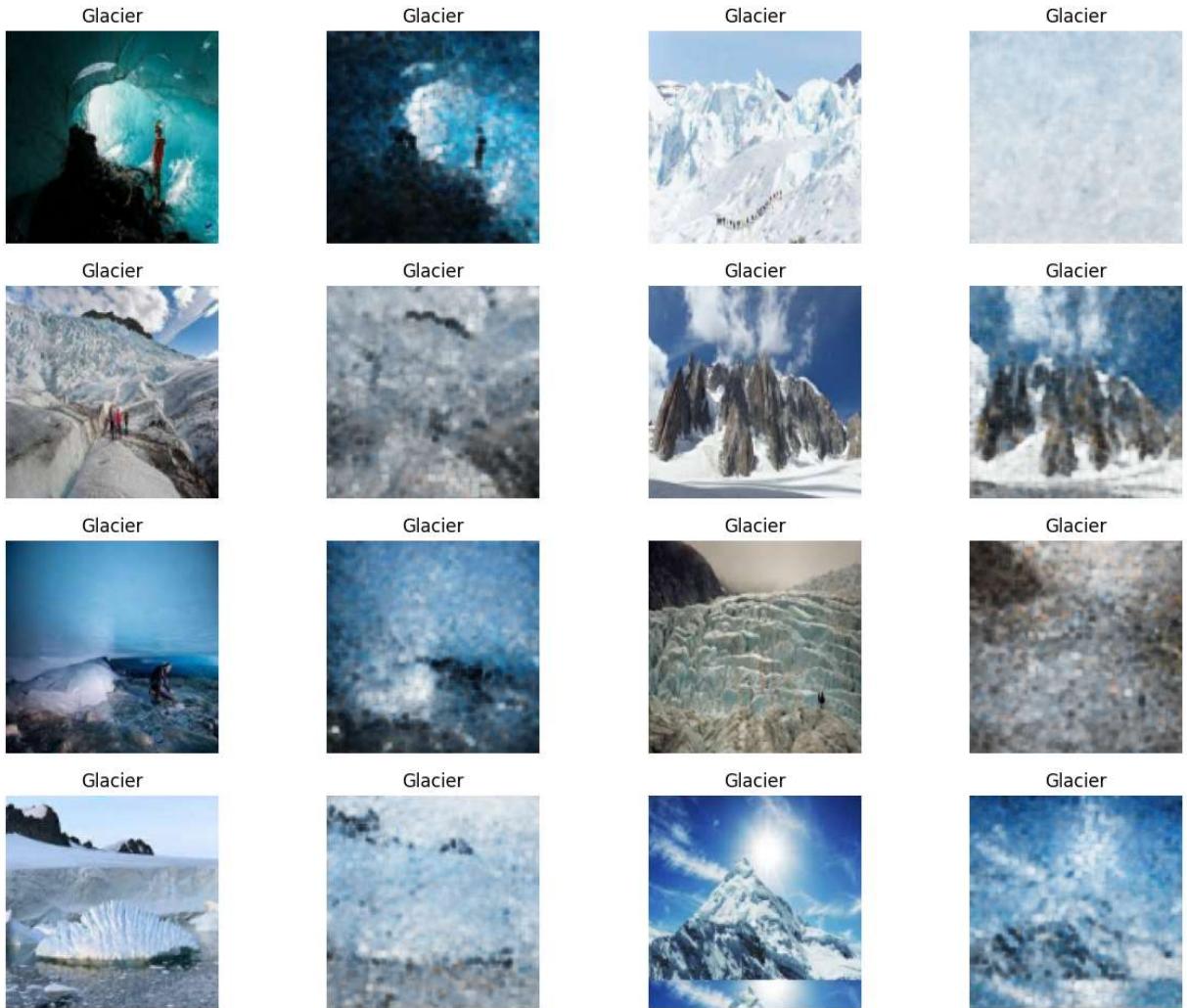
```
120/120 [=====] - 20s 164ms/step - loss: 37.6862 - reconstruction_error: 18.3345 - regularization_error: 19.3517 - val_loss: 70.7080 - val_reconstruction_error: 53.5905 - val_regularization_error: 17.1175
Epoch 602/1000
120/120 [=====] - 17s 143ms/step - loss: 37.6048 - reconstruction_error: 18.3141 - regularization_error: 19.2908 - val_loss: 70.7689 - val_reconstruction_error: 54.0163 - val_regularization_error: 16.7526
Epoch 603/1000
120/120 [=====] - 14s 120ms/step - loss: 37.7177 - reconstruction_error: 18.3441 - regularization_error: 19.3735 - val_loss: 72.7279 - val_reconstruction_error: 54.8097 - val_regularization_error: 17.9182
Epoch 604/1000
120/120 [=====] - 19s 158ms/step - loss: 37.7007 - reconstruction_error: 18.3732 - regularization_error: 19.3275 - val_loss: 70.9561 - val_reconstruction_error: 53.3651 - val_regularization_error: 17.5910
Epoch 605/1000
120/120 [=====] - 15s 120ms/step - loss: 37.6117 - reconstruction_error: 18.2889 - regularization_error: 19.3228 - val_loss: 71.3218 - val_reconstruction_error: 53.6184 - val_regularization_error: 17.7034
Epoch 606/1000
120/120 [=====] - 14s 113ms/step - loss: 37.5982 - reconstruction_error: 18.3287 - regularization_error: 19.2695 - val_loss: 71.2841 - val_reconstruction_error: 53.3278 - val_regularization_error: 17.9563
Epoch 607/1000
120/120 [=====] - 16s 134ms/step - loss: 37.4313 - reconstruction_error: 18.2357 - regularization_error: 19.1956 - val_loss: 71.8336 - val_reconstruction_error: 54.3976 - val_regularization_error: 17.4360
Epoch 608/1000
120/120 [=====] - 16s 130ms/step - loss: 37.4655 - reconstruction_error: 18.1832 - regularization_error: 19.2823 - val_loss: 71.8071 - val_reconstruction_error: 54.1650 - val_regularization_error: 17.6421
Epoch 609/1000
120/120 [=====] - 18s 146ms/step - loss: 37.5481 - reconstruction_error: 18.2672 - regularization_error: 19.2809 - val_loss: 71.4166 - val_reconstruction_error: 54.0474 - val_regularization_error: 17.3692
Epoch 610/1000
120/120 [=====] - 21s 173ms/step - loss: 37.5830 - reconstruction_error: 18.2858 - regularization_error: 19.2972 - val_loss: 71.0357 - val_reconstruction_error: 54.2564 - val_regularization_error: 16.7792
Epoch 611/1000
120/120 [=====] - ETA: 0s - loss: 37.5123 - reconstruction_error: 18.3183 - regularization_error: 19.1939
[2023-12-02 13:44:20.083497]: Reconstructing images for epoch 611 ...
```



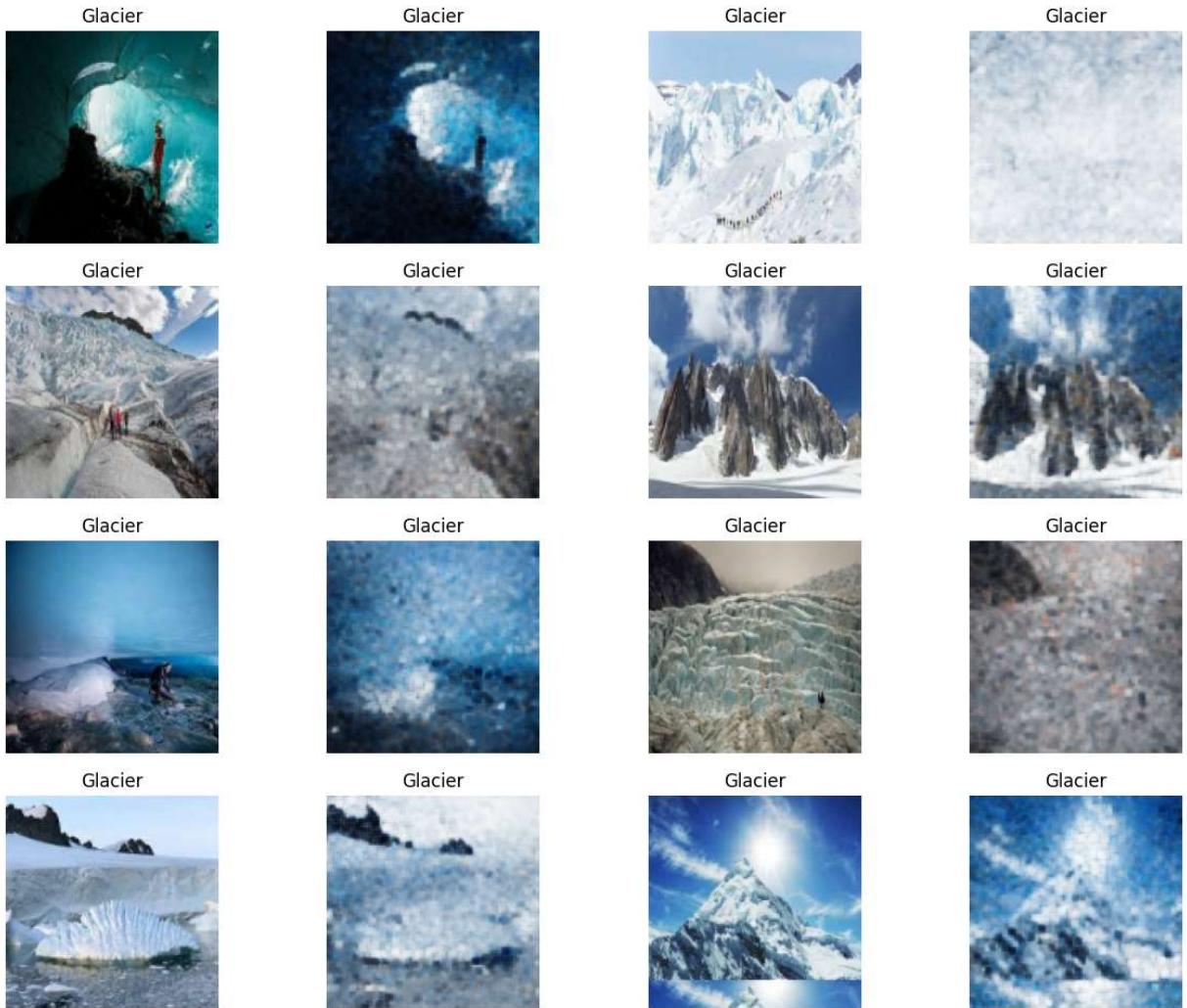
```
120/120 [=====] - 18s 153ms/step - loss: 37.5123 - reconstruction_error: 18.3183 - regularization_error: 19.1939 - val_loss: 71.1584 - val_reconstruction_error: 53.2847 - val_regularization_error: 17.8736
Epoch 612/1000
120/120 [=====] - 15s 121ms/step - loss: 37.5448 - reconstruction_error: 18.1877 - regularization_error: 19.3571 - val_loss: 71.3193 - val_reconstruction_error: 54.6001 - val_regularization_error: 16.7192
Epoch 613/1000
120/120 [=====] - 15s 124ms/step - loss: 37.6357 - reconstruction_error: 18.2676 - regularization_error: 19.3681 - val_loss: 71.2051 - val_reconstruction_error: 53.6966 - val_regularization_error: 17.5084
Epoch 614/1000
120/120 [=====] - 16s 124ms/step - loss: 37.5356 - reconstruction_error: 18.1610 - regularization_error: 19.3746 - val_loss: 72.4302 - val_reconstruction_error: 54.8271 - val_regularization_error: 17.6031
Epoch 615/1000
120/120 [=====] - 17s 139ms/step - loss: 37.5004 - reconstruction_error: 18.2264 - regularization_error: 19.2740 - val_loss: 72.4862 - val_reconstruction_error: 54.2852 - val_regularization_error: 18.2010
Epoch 616/1000
120/120 [=====] - 17s 144ms/step - loss: 37.3611 - reconstruction_error: 18.1247 - regularization_error: 19.2364 - val_loss: 70.9563 - val_reconstruction_error: 54.4270 - val_regularization_error: 16.5293
Epoch 617/1000
120/120 [=====] - 16s 134ms/step - loss: 37.5685 - reconstruction_error: 18.2728 - regularization_error: 19.2958 - val_loss: 71.4350 - val_reconstruction_error: 54.3259 - val_regularization_error: 17.1091
Epoch 618/1000
120/120 [=====] - 14s 115ms/step - loss: 37.5888 - reconstruction_error: 18.1715 - regularization_error: 19.4173 - val_loss: 71.7622 - val_reconstruction_error: 53.9004 - val_regularization_error: 17.8617
Epoch 619/1000
120/120 [=====] - 14s 117ms/step - loss: 37.5632 - reconstruction_error: 18.2937 - regularization_error: 19.2695 - val_loss: 72.1211 - val_reconstruction_error: 53.9158 - val_regularization_error: 18.2053
Epoch 620/1000
120/120 [=====] - 17s 138ms/step - loss: 37.6411 - reconstruction_error: 18.3240 - regularization_error: 19.3172 - val_loss: 73.8973 - val_reconstruction_error: 55.2792 - val_regularization_error: 18.6181
Epoch 621/1000
120/120 [=====] - ETA: 0s - loss: 37.2575 - reconstruction_error: 18.1047 - regularization_error: 19.1528
[2023-12-02 13:47:00.335132]: Reconstructing images for epoch 621 ...
```



```
120/120 [=====] - 19s 160ms/step - loss: 37.2575 - reconstruction_error: 18.1047 - regularization_error: 19.1528 - val_loss: 71.0551 - val_reconstruction_error: 54.3595 - val_regularization_error: 16.6956
Epoch 622/1000
120/120 [=====] - 15s 123ms/step - loss: 37.7212 - reconstruction_error: 18.4228 - regularization_error: 19.2984 - val_loss: 71.6521 - val_reconstruction_error: 54.8700 - val_regularization_error: 16.7821
Epoch 623/1000
120/120 [=====] - 17s 138ms/step - loss: 37.4393 - reconstruction_error: 18.1143 - regularization_error: 19.3250 - val_loss: 71.8066 - val_reconstruction_error: 53.9939 - val_regularization_error: 17.8128
Epoch 624/1000
120/120 [=====] - 13s 108ms/step - loss: 37.2422 - reconstruction_error: 18.0397 - regularization_error: 19.2026 - val_loss: 71.2057 - val_reconstruction_error: 54.0158 - val_regularization_error: 17.1899
Epoch 625/1000
120/120 [=====] - 15s 125ms/step - loss: 37.4864 - reconstruction_error: 18.1206 - regularization_error: 19.3659 - val_loss: 72.1538 - val_reconstruction_error: 54.0335 - val_regularization_error: 18.1203
Epoch 626/1000
120/120 [=====] - 14s 117ms/step - loss: 37.4467 - reconstruction_error: 18.2463 - regularization_error: 19.2004 - val_loss: 72.0770 - val_reconstruction_error: 54.8743 - val_regularization_error: 17.2027
Epoch 627/1000
120/120 [=====] - 16s 129ms/step - loss: 37.1763 - reconstruction_error: 17.9800 - regularization_error: 19.1963 - val_loss: 72.0963 - val_reconstruction_error: 54.2830 - val_regularization_error: 17.8133
Epoch 628/1000
120/120 [=====] - 16s 132ms/step - loss: 37.2428 - reconstruction_error: 17.9689 - regularization_error: 19.2740 - val_loss: 72.1770 - val_reconstruction_error: 54.4723 - val_regularization_error: 17.7048
Epoch 629/1000
120/120 [=====] - 15s 126ms/step - loss: 37.3828 - reconstruction_error: 18.0115 - regularization_error: 19.3713 - val_loss: 72.4308 - val_reconstruction_error: 55.2151 - val_regularization_error: 17.2157
Epoch 630/1000
120/120 [=====] - 13s 104ms/step - loss: 37.2970 - reconstruction_error: 18.1055 - regularization_error: 19.1916 - val_loss: 73.4283 - val_reconstruction_error: 54.9701 - val_regularization_error: 18.4581
Epoch 631/1000
120/120 [=====] - ETA: 0s - loss: 37.4401 - reconstruction_error: 18.1378 - regularization_error: 19.3023
[2023-12-02 13:49:35.413159]: Reconstructing images for epoch 631 ...
```



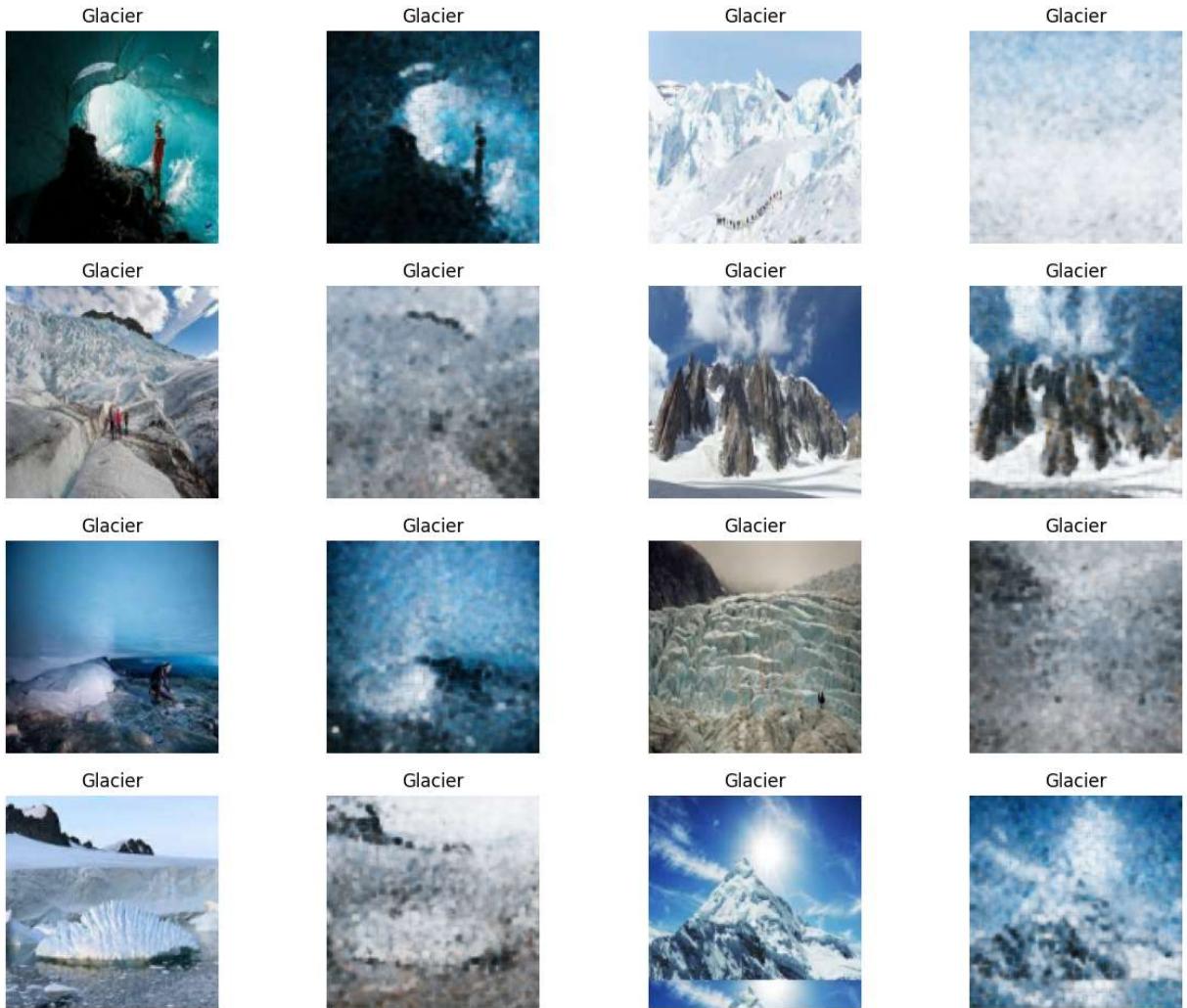
```
120/120 [=====] - 20s 166ms/step - loss: 37.4401 - reconstruction_error: 18.1378 - regularization_error: 19.3023 - val_loss: 71.1441 - val_reconstruction_error: 55.0316 - val_regularization_error: 16.1125
Epoch 632/1000
120/120 [=====] - 15s 123ms/step - loss: 37.5512 - reconstruction_error: 18.2913 - regularization_error: 19.2599 - val_loss: 71.7841 - val_reconstruction_error: 54.1786 - val_regularization_error: 17.6055
Epoch 633/1000
120/120 [=====] - 22s 181ms/step - loss: 37.3023 - reconstruction_error: 18.0434 - regularization_error: 19.2589 - val_loss: 71.8492 - val_reconstruction_error: 54.4419 - val_regularization_error: 17.4072
Epoch 634/1000
120/120 [=====] - 16s 134ms/step - loss: 37.2506 - reconstruction_error: 18.0001 - regularization_error: 19.2505 - val_loss: 71.3310 - val_reconstruction_error: 53.7736 - val_regularization_error: 17.5574
Epoch 635/1000
120/120 [=====] - 18s 149ms/step - loss: 37.1895 - reconstruction_error: 17.9478 - regularization_error: 19.2417 - val_loss: 70.5547 - val_reconstruction_error: 53.6989 - val_regularization_error: 16.8558
Epoch 636/1000
120/120 [=====] - 14s 112ms/step - loss: 37.4154 - reconstruction_error: 18.2057 - regularization_error: 19.2096 - val_loss: 72.7281 - val_reconstruction_error: 54.7660 - val_regularization_error: 17.9621
Epoch 637/1000
120/120 [=====] - 15s 123ms/step - loss: 37.3627 - reconstruction_error: 18.0201 - regularization_error: 19.3426 - val_loss: 71.7879 - val_reconstruction_error: 53.5434 - val_regularization_error: 18.2444
Epoch 638/1000
120/120 [=====] - 17s 135ms/step - loss: 37.3472 - reconstruction_error: 17.9802 - regularization_error: 19.3670 - val_loss: 72.0141 - val_reconstruction_error: 54.3171 - val_regularization_error: 17.6970
Epoch 639/1000
120/120 [=====] - 16s 134ms/step - loss: 37.3694 - reconstruction_error: 18.2326 - regularization_error: 19.1368 - val_loss: 70.7984 - val_reconstruction_error: 53.8071 - val_regularization_error: 16.9913
Epoch 640/1000
120/120 [=====] - 15s 124ms/step - loss: 37.1116 - reconstruction_error: 17.9978 - regularization_error: 19.1137 - val_loss: 72.9718 - val_reconstruction_error: 54.7206 - val_regularization_error: 18.2512
Epoch 641/1000
120/120 [=====] - ETA: 0s - loss: 37.3057 - reconstruction_error: 18.1230 - regularization_error: 19.1828
[2023-12-02 13:52:21.820250]: Reconstructing images for epoch 641 ...
```



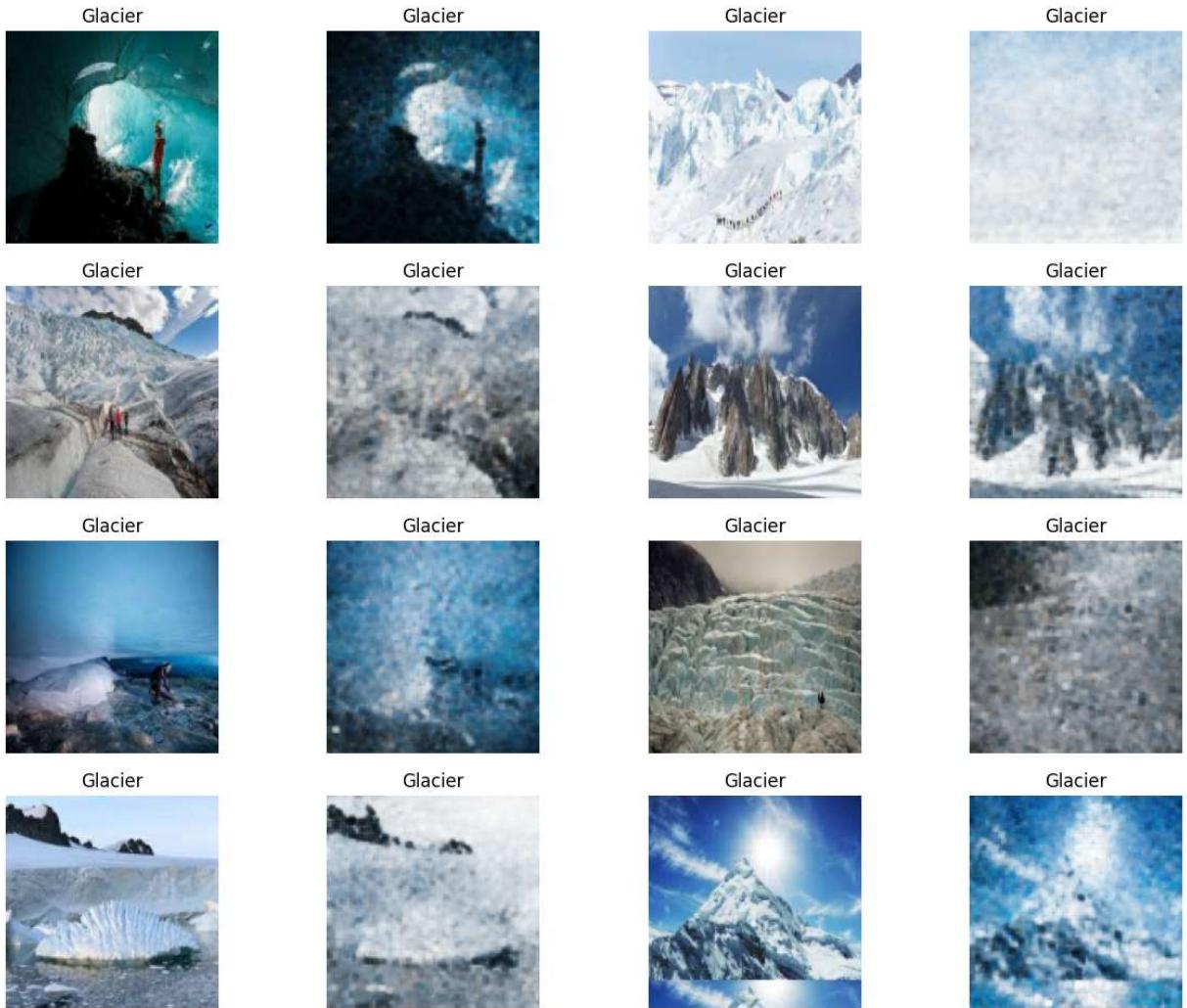
```
120/120 [=====] - 19s 158ms/step - loss: 37.3057 - reconstruction_error: 18.1230 - regularization_error: 19.1828 - val_loss: 71.2975 - val_reconstruction_error: 54.0339 - val_regularization_error: 17.2636
Epoch 642/1000
120/120 [=====] - 13s 107ms/step - loss: 37.1203 - reconstruction_error: 17.9285 - regularization_error: 19.1918 - val_loss: 72.6991 - val_reconstruction_error: 54.7894 - val_regularization_error: 17.9097
Epoch 643/1000
120/120 [=====] - 17s 136ms/step - loss: 37.1877 - reconstruction_error: 17.9683 - regularization_error: 19.2194 - val_loss: 71.9339 - val_reconstruction_error: 53.8886 - val_regularization_error: 18.0454
Epoch 644/1000
120/120 [=====] - 19s 154ms/step - loss: 37.2624 - reconstruction_error: 17.9289 - regularization_error: 19.3336 - val_loss: 70.5481 - val_reconstruction_error: 53.0939 - val_regularization_error: 17.4543
Epoch 645/1000
120/120 [=====] - 15s 126ms/step - loss: 37.3076 - reconstruction_error: 17.9798 - regularization_error: 19.3278 - val_loss: 71.9141 - val_reconstruction_error: 54.7936 - val_regularization_error: 17.1205
Epoch 646/1000
120/120 [=====] - 17s 139ms/step - loss: 37.0502 - reconstruction_error: 17.8499 - regularization_error: 19.2003 - val_loss: 71.3564 - val_reconstruction_error: 53.7875 - val_regularization_error: 17.5690
Epoch 647/1000
120/120 [=====] - 17s 139ms/step - loss: 37.2057 - reconstruction_error: 17.9340 - regularization_error: 19.2717 - val_loss: 71.5546 - val_reconstruction_error: 54.5137 - val_regularization_error: 17.0408
Epoch 648/1000
120/120 [=====] - 16s 133ms/step - loss: 37.1814 - reconstruction_error: 17.8645 - regularization_error: 19.3169 - val_loss: 70.1201 - val_reconstruction_error: 53.5596 - val_regularization_error: 16.5605
Epoch 649/1000
120/120 [=====] - 15s 126ms/step - loss: 37.2532 - reconstruction_error: 18.1583 - regularization_error: 19.0949 - val_loss: 71.4522 - val_reconstruction_error: 54.0438 - val_regularization_error: 17.4084
Epoch 650/1000
120/120 [=====] - 16s 134ms/step - loss: 37.0698 - reconstruction_error: 17.8233 - regularization_error: 19.2466 - val_loss: 70.7610 - val_reconstruction_error: 53.5907 - val_regularization_error: 17.1702
Epoch 651/1000
120/120 [=====] - ETA: 0s - loss: 37.3017 - reconstruction_error: 18.0877 - regularization_error: 19.2141
[2023-12-02 13:55:07.065558]: Reconstructing images for epoch 651 ...
```



```
120/120 [=====] - 20s 167ms/step - loss: 37.3017 - reconstruction_error: 18.0877 - regularization_error: 19.2141 - val_loss: 70.5887 - val_reconstruction_error: 54.3221 - val_regularization_error: 16.2666
Epoch 652/1000
120/120 [=====] - 14s 112ms/step - loss: 37.1985 - reconstruction_error: 18.0633 - regularization_error: 19.1352 - val_loss: 70.8433 - val_reconstruction_error: 53.1138 - val_regularization_error: 17.7296
Epoch 653/1000
120/120 [=====] - 14s 118ms/step - loss: 37.2861 - reconstruction_error: 17.8932 - regularization_error: 19.3928 - val_loss: 72.4193 - val_reconstruction_error: 53.6499 - val_regularization_error: 18.7693
Epoch 654/1000
120/120 [=====] - 18s 147ms/step - loss: 37.2564 - reconstruction_error: 17.9762 - regularization_error: 19.2802 - val_loss: 73.4579 - val_reconstruction_error: 54.6427 - val_regularization_error: 18.8152
Epoch 655/1000
120/120 [=====] - 13s 112ms/step - loss: 37.2102 - reconstruction_error: 17.8980 - regularization_error: 19.3121 - val_loss: 71.7754 - val_reconstruction_error: 54.3567 - val_regularization_error: 17.4187
Epoch 656/1000
120/120 [=====] - 18s 151ms/step - loss: 37.0062 - reconstruction_error: 17.8761 - regularization_error: 19.1301 - val_loss: 72.3578 - val_reconstruction_error: 54.8242 - val_regularization_error: 17.5336
Epoch 657/1000
120/120 [=====] - 14s 116ms/step - loss: 37.1873 - reconstruction_error: 17.8552 - regularization_error: 19.3322 - val_loss: 71.4575 - val_reconstruction_error: 54.2299 - val_regularization_error: 17.2276
Epoch 658/1000
120/120 [=====] - 14s 113ms/step - loss: 37.4730 - reconstruction_error: 18.0788 - regularization_error: 19.3943 - val_loss: 70.9523 - val_reconstruction_error: 53.2912 - val_regularization_error: 17.6610
Epoch 659/1000
120/120 [=====] - 14s 118ms/step - loss: 37.3655 - reconstruction_error: 17.9196 - regularization_error: 19.4459 - val_loss: 71.2850 - val_reconstruction_error: 53.4462 - val_regularization_error: 17.8388
Epoch 660/1000
120/120 [=====] - 17s 140ms/step - loss: 37.2852 - reconstruction_error: 17.9467 - regularization_error: 19.3385 - val_loss: 72.2802 - val_reconstruction_error: 54.5197 - val_regularization_error: 17.7605
Epoch 661/1000
120/120 [=====] - ETA: 0s - loss: 37.1169 - reconstruction_error: 17.8465 - regularization_error: 19.2703
[2023-12-02 13:57:43.676050]: Reconstructing images for epoch 661 ...
```



```
120/120 [=====] - 18s 149ms/step - loss: 37.1169 - reconstruction_error: 17.8465 - regularization_error: 19.2703 - val_loss: 71.0858 - val_reconstruction_error: 53.5893 - val_regularization_error: 17.4965
Epoch 662/1000
120/120 [=====] - 14s 116ms/step - loss: 37.0794 - reconstruction_error: 17.8906 - regularization_error: 19.1888 - val_loss: 72.2073 - val_reconstruction_error: 54.3475 - val_regularization_error: 17.8597
Epoch 663/1000
120/120 [=====] - 18s 141ms/step - loss: 37.1503 - reconstruction_error: 17.8438 - regularization_error: 19.3065 - val_loss: 72.5309 - val_reconstruction_error: 53.6287 - val_regularization_error: 18.9022
Epoch 664/1000
120/120 [=====] - 13s 111ms/step - loss: 37.0379 - reconstruction_error: 17.7716 - regularization_error: 19.2663 - val_loss: 72.4036 - val_reconstruction_error: 53.4640 - val_regularization_error: 18.9395
Epoch 665/1000
120/120 [=====] - 15s 125ms/step - loss: 37.2005 - reconstruction_error: 17.8481 - regularization_error: 19.3524 - val_loss: 73.0253 - val_reconstruction_error: 55.8668 - val_regularization_error: 17.1585
Epoch 666/1000
120/120 [=====] - 19s 154ms/step - loss: 37.0129 - reconstruction_error: 17.8026 - regularization_error: 19.2104 - val_loss: 73.1263 - val_reconstruction_error: 54.9755 - val_regularization_error: 18.1508
Epoch 667/1000
120/120 [=====] - 17s 144ms/step - loss: 37.0224 - reconstruction_error: 17.7214 - regularization_error: 19.3011 - val_loss: 72.3627 - val_reconstruction_error: 55.3028 - val_regularization_error: 17.0599
Epoch 668/1000
120/120 [=====] - 15s 127ms/step - loss: 37.1268 - reconstruction_error: 17.8705 - regularization_error: 19.2563 - val_loss: 71.5186 - val_reconstruction_error: 54.2038 - val_regularization_error: 17.3147
Epoch 669/1000
120/120 [=====] - 18s 151ms/step - loss: 37.2588 - reconstruction_error: 17.9084 - regularization_error: 19.3504 - val_loss: 72.5369 - val_reconstruction_error: 54.6763 - val_regularization_error: 17.8607
Epoch 670/1000
120/120 [=====] - 16s 132ms/step - loss: 37.1242 - reconstruction_error: 17.7903 - regularization_error: 19.3339 - val_loss: 70.7294 - val_reconstruction_error: 54.0927 - val_regularization_error: 16.6367
Epoch 671/1000
120/120 [=====] - ETA: 0s - loss: 36.9304 - reconstruction_error: 17.8028 - regularization_error: 19.1276
[2023-12-02 14:00:30.304383]: Reconstructing images for epoch 671 ...
```



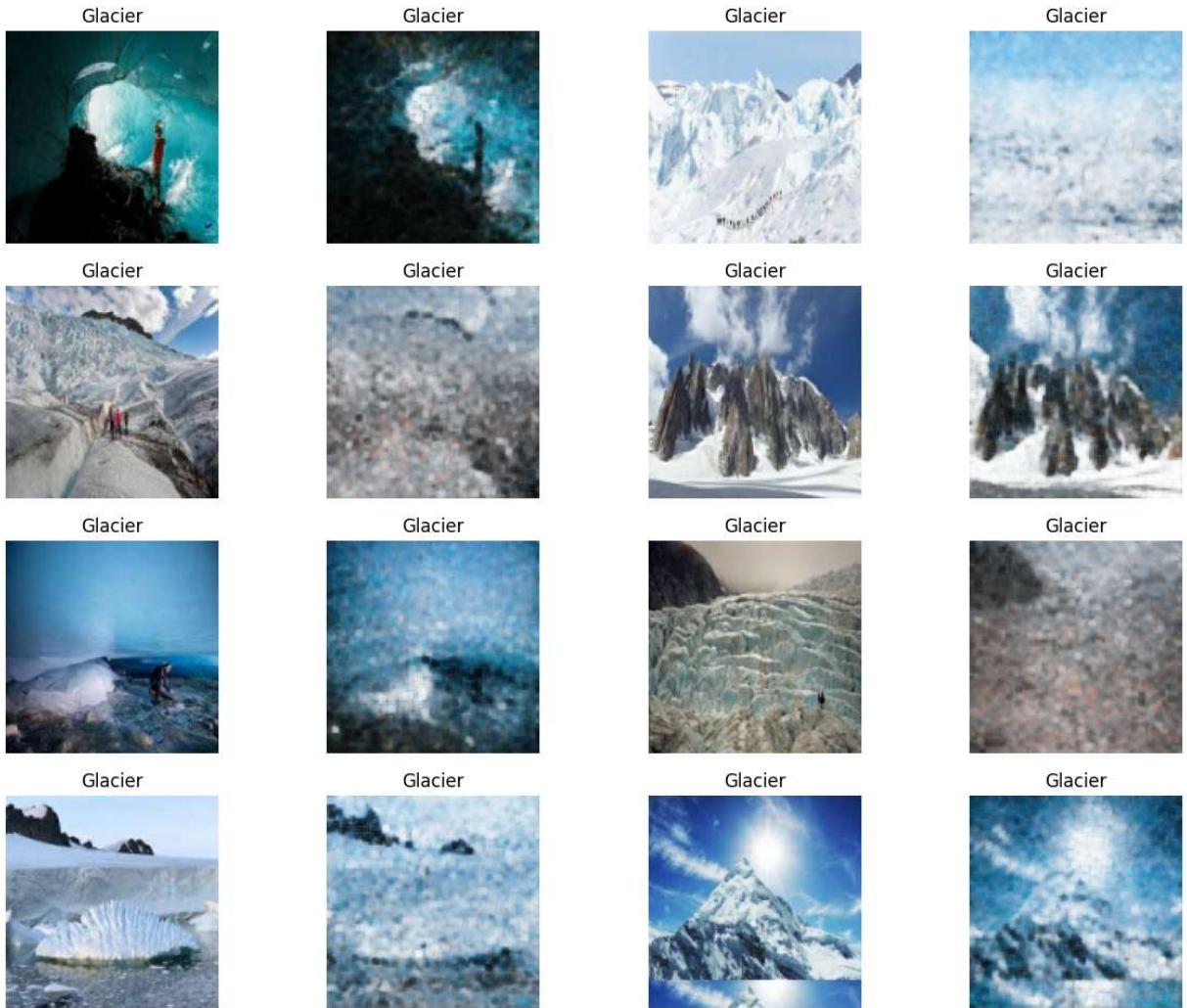
```
120/120 [=====] - 20s 163ms/step - loss: 36.9304 - reconstruction_error: 17.8028 - regularization_error: 19.1276 - val_loss: 71.6631 - val_reconstruction_error: 55.2039 - val_regularization_error: 16.4592
Epoch 672/1000
120/120 [=====] - 17s 145ms/step - loss: 37.0204 - reconstruction_error: 17.9163 - regularization_error: 19.1041 - val_loss: 71.5754 - val_reconstruction_error: 54.1248 - val_regularization_error: 17.4506
Epoch 673/1000
120/120 [=====] - 15s 125ms/step - loss: 37.0950 - reconstruction_error: 17.8141 - regularization_error: 19.2809 - val_loss: 70.8004 - val_reconstruction_error: 54.3782 - val_regularization_error: 16.4221
Epoch 674/1000
120/120 [=====] - 16s 135ms/step - loss: 37.1097 - reconstruction_error: 17.8154 - regularization_error: 19.2944 - val_loss: 72.4346 - val_reconstruction_error: 54.4797 - val_regularization_error: 17.9549
Epoch 675/1000
120/120 [=====] - 14s 113ms/step - loss: 37.0104 - reconstruction_error: 17.7717 - regularization_error: 19.2386 - val_loss: 71.7219 - val_reconstruction_error: 54.1731 - val_regularization_error: 17.5488
Epoch 676/1000
120/120 [=====] - 15s 120ms/step - loss: 37.0983 - reconstruction_error: 17.6848 - regularization_error: 19.4135 - val_loss: 70.9339 - val_reconstruction_error: 54.0516 - val_regularization_error: 16.8823
Epoch 677/1000
120/120 [=====] - 18s 149ms/step - loss: 37.0027 - reconstruction_error: 17.6792 - regularization_error: 19.3234 - val_loss: 72.4714 - val_reconstruction_error: 54.4227 - val_regularization_error: 18.0488
Epoch 678/1000
120/120 [=====] - 15s 128ms/step - loss: 37.0342 - reconstruction_error: 17.8310 - regularization_error: 19.2032 - val_loss: 71.9521 - val_reconstruction_error: 54.6706 - val_regularization_error: 17.2815
Epoch 679/1000
120/120 [=====] - 18s 145ms/step - loss: 36.9890 - reconstruction_error: 17.7858 - regularization_error: 19.2032 - val_loss: 72.2567 - val_reconstruction_error: 54.2231 - val_regularization_error: 18.0336
Epoch 680/1000
120/120 [=====] - 18s 150ms/step - loss: 37.0217 - reconstruction_error: 17.7539 - regularization_error: 19.2678 - val_loss: 72.3565 - val_reconstruction_error: 54.4638 - val_regularization_error: 17.8928
Epoch 681/1000
120/120 [=====] - ETA: 0s - loss: 37.0669 - reconstruction_error: 17.7720 - regularization_error: 19.2949
[2023-12-02 14:03:15.572081]: Reconstructing images for epoch 681 ...
```



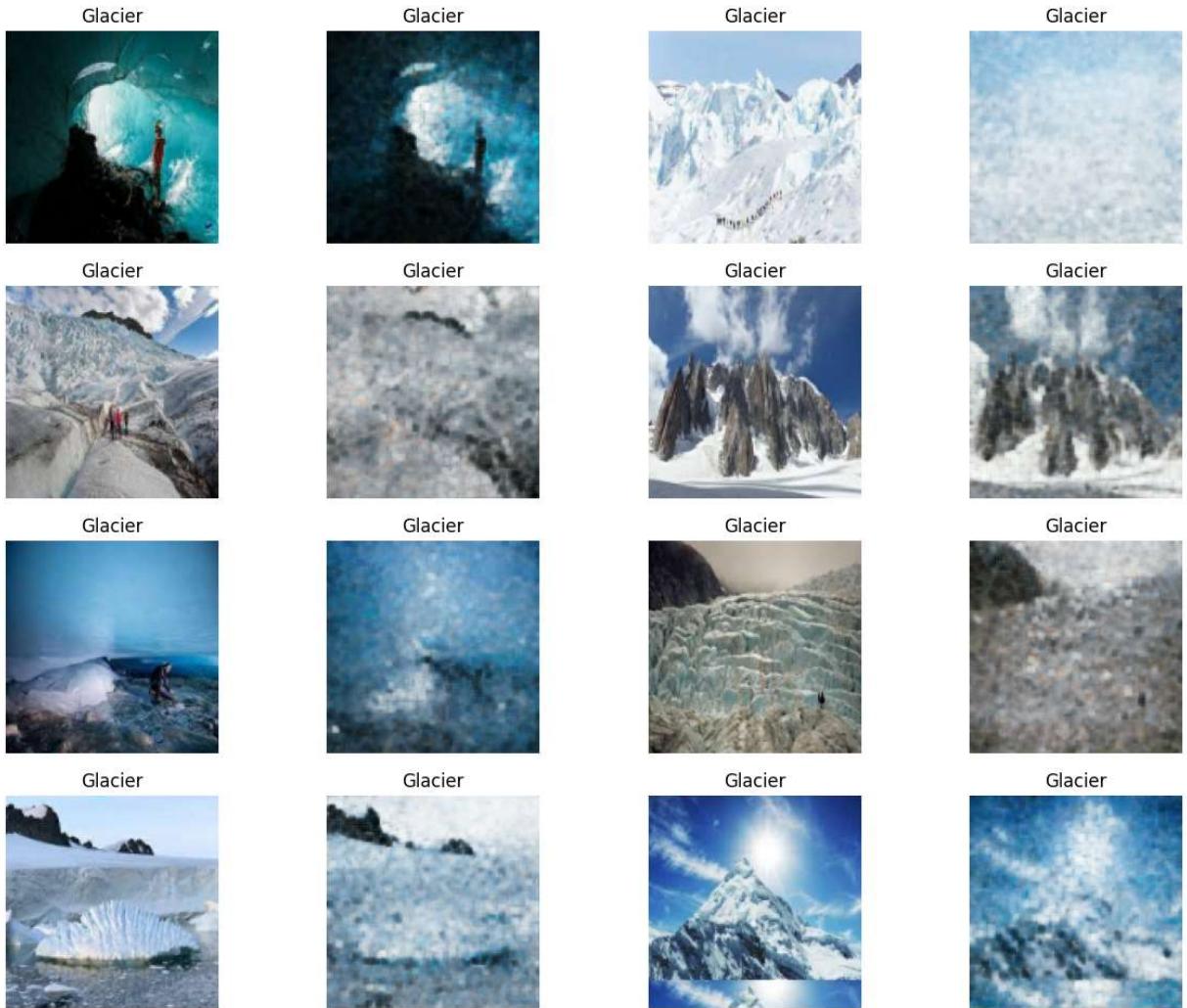
```
120/120 [=====] - 17s 142ms/step - loss: 37.0669 - reconstruction_error: 17.7720 - regularization_error: 19.2949 - val_loss: 72.9989 - val_reconstruction_error: 54.8946 - val_regularization_error: 18.1043
Epoch 682/1000
120/120 [=====] - 17s 138ms/step - loss: 36.8933 - reconstruction_error: 17.6936 - regularization_error: 19.1997 - val_loss: 72.5822 - val_reconstruction_error: 53.6148 - val_regularization_error: 18.9674
Epoch 683/1000
120/120 [=====] - 17s 144ms/step - loss: 37.0338 - reconstruction_error: 17.6876 - regularization_error: 19.3462 - val_loss: 72.6850 - val_reconstruction_error: 55.2937 - val_regularization_error: 17.3913
Epoch 684/1000
120/120 [=====] - 17s 138ms/step - loss: 36.9522 - reconstruction_error: 17.7482 - regularization_error: 19.2041 - val_loss: 71.5313 - val_reconstruction_error: 54.6293 - val_regularization_error: 16.9020
Epoch 685/1000
120/120 [=====] - 14s 119ms/step - loss: 37.1165 - reconstruction_error: 17.8153 - regularization_error: 19.3013 - val_loss: 71.3919 - val_reconstruction_error: 55.0561 - val_regularization_error: 16.3358
Epoch 686/1000
120/120 [=====] - 15s 126ms/step - loss: 36.8269 - reconstruction_error: 17.6956 - regularization_error: 19.1313 - val_loss: 71.9157 - val_reconstruction_error: 54.6078 - val_regularization_error: 17.3078
Epoch 687/1000
120/120 [=====] - 19s 159ms/step - loss: 36.9102 - reconstruction_error: 17.7786 - regularization_error: 19.1316 - val_loss: 73.4790 - val_reconstruction_error: 55.5944 - val_regularization_error: 17.8846
Epoch 688/1000
120/120 [=====] - 13s 105ms/step - loss: 37.1307 - reconstruction_error: 17.8684 - regularization_error: 19.2622 - val_loss: 73.0758 - val_reconstruction_error: 55.4373 - val_regularization_error: 17.6385
Epoch 689/1000
120/120 [=====] - 16s 128ms/step - loss: 37.1507 - reconstruction_error: 17.6610 - regularization_error: 19.4897 - val_loss: 72.1263 - val_reconstruction_error: 55.2318 - val_regularization_error: 16.8944
Epoch 690/1000
120/120 [=====] - 16s 131ms/step - loss: 37.1572 - reconstruction_error: 17.8196 - regularization_error: 19.3376 - val_loss: 72.3523 - val_reconstruction_error: 55.2394 - val_regularization_error: 17.1129
Epoch 691/1000
120/120 [=====] - ETA: 0s - loss: 36.7835 - reconstruction_error: 17.5239 - regularization_error: 19.2596
[2023-12-02 14:05:57.531032]: Reconstructing images for epoch 691 ...
```



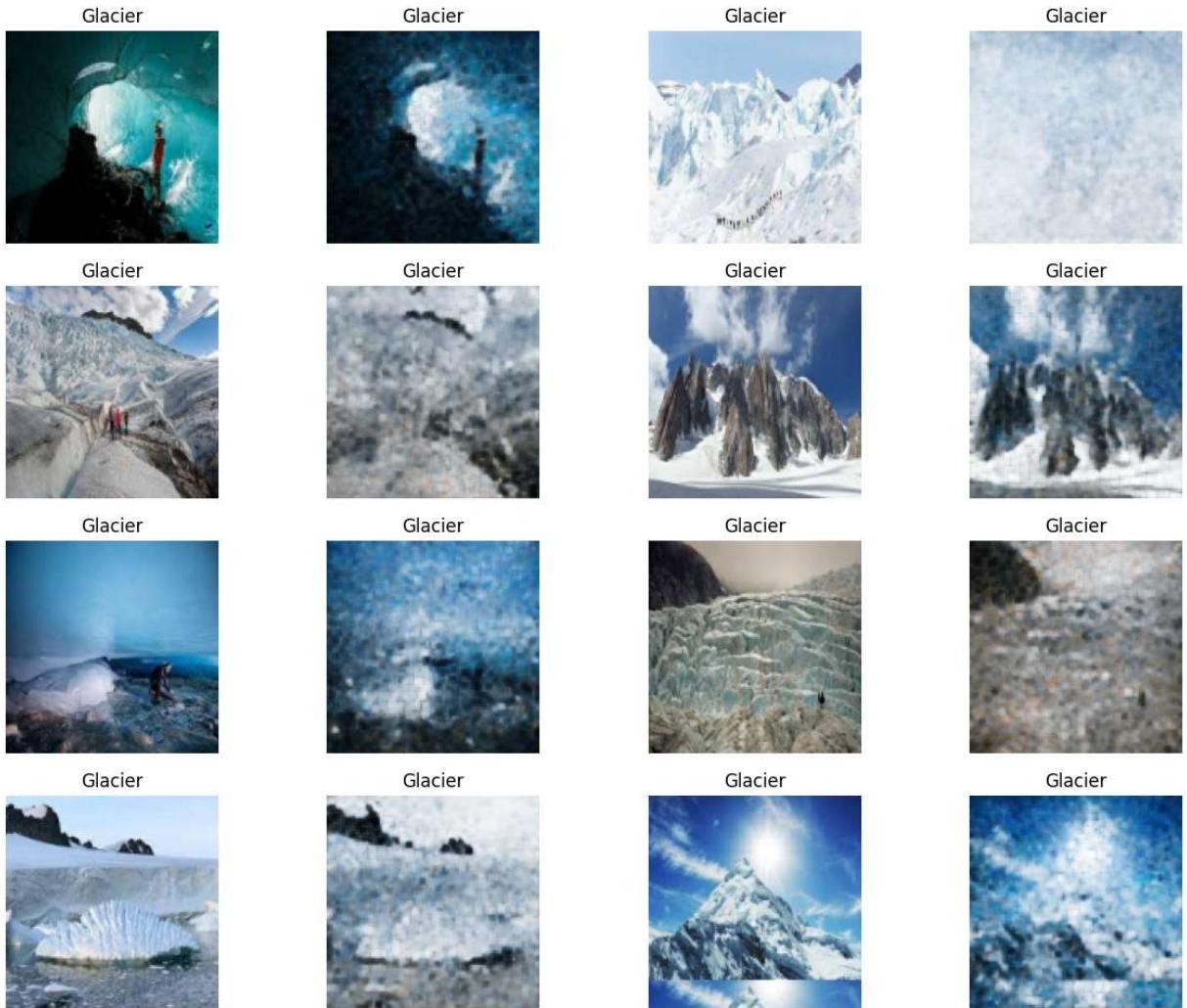
```
120/120 [=====] - 18s 146ms/step - loss: 36.7835 - reconstruction_error: 17.5239 - regularization_error: 19.2596 - val_loss: 71.5435 - val_reconstruction_error: 54.8775 - val_regularization_error: 16.6660
Epoch 692/1000
120/120 [=====] - 15s 120ms/step - loss: 37.2324 - reconstruction_error: 17.8631 - regularization_error: 19.3692 - val_loss: 73.2493 - val_reconstruction_error: 54.8438 - val_regularization_error: 18.4055
Epoch 693/1000
120/120 [=====] - 15s 126ms/step - loss: 37.2336 - reconstruction_error: 17.8420 - regularization_error: 19.3916 - val_loss: 71.9840 - val_reconstruction_error: 54.4102 - val_regularization_error: 17.5737
Epoch 694/1000
120/120 [=====] - 13s 107ms/step - loss: 36.7122 - reconstruction_error: 17.5435 - regularization_error: 19.1687 - val_loss: 71.0890 - val_reconstruction_error: 53.7816 - val_regularization_error: 17.3074
Epoch 695/1000
120/120 [=====] - 16s 133ms/step - loss: 37.0159 - reconstruction_error: 17.7599 - regularization_error: 19.2560 - val_loss: 71.0137 - val_reconstruction_error: 54.1693 - val_regularization_error: 16.8444
Epoch 696/1000
120/120 [=====] - 17s 140ms/step - loss: 37.0583 - reconstruction_error: 17.7571 - regularization_error: 19.3012 - val_loss: 72.7569 - val_reconstruction_error: 54.5920 - val_regularization_error: 18.1649
Epoch 697/1000
120/120 [=====] - 16s 136ms/step - loss: 36.8891 - reconstruction_error: 17.6123 - regularization_error: 19.2768 - val_loss: 71.7194 - val_reconstruction_error: 54.4109 - val_regularization_error: 17.3086
Epoch 698/1000
120/120 [=====] - 17s 136ms/step - loss: 36.7921 - reconstruction_error: 17.5398 - regularization_error: 19.2522 - val_loss: 71.8258 - val_reconstruction_error: 54.7399 - val_regularization_error: 17.0859
Epoch 699/1000
120/120 [=====] - 18s 151ms/step - loss: 36.8895 - reconstruction_error: 17.6716 - regularization_error: 19.2179 - val_loss: 70.9116 - val_reconstruction_error: 54.3679 - val_regularization_error: 16.5437
Epoch 700/1000
120/120 [=====] - 18s 153ms/step - loss: 36.7600 - reconstruction_error: 17.5652 - regularization_error: 19.1948 - val_loss: 72.4187 - val_reconstruction_error: 54.5826 - val_regularization_error: 17.8361
Epoch 701/1000
119/120 [=====.>.] - ETA: 0s - loss: 36.9731 - reconstruction_error: 17.6729 - regularization_error: 19.3002
[2023-12-02 14:08:43.470743]: Reconstructing images for epoch 701 ...
```



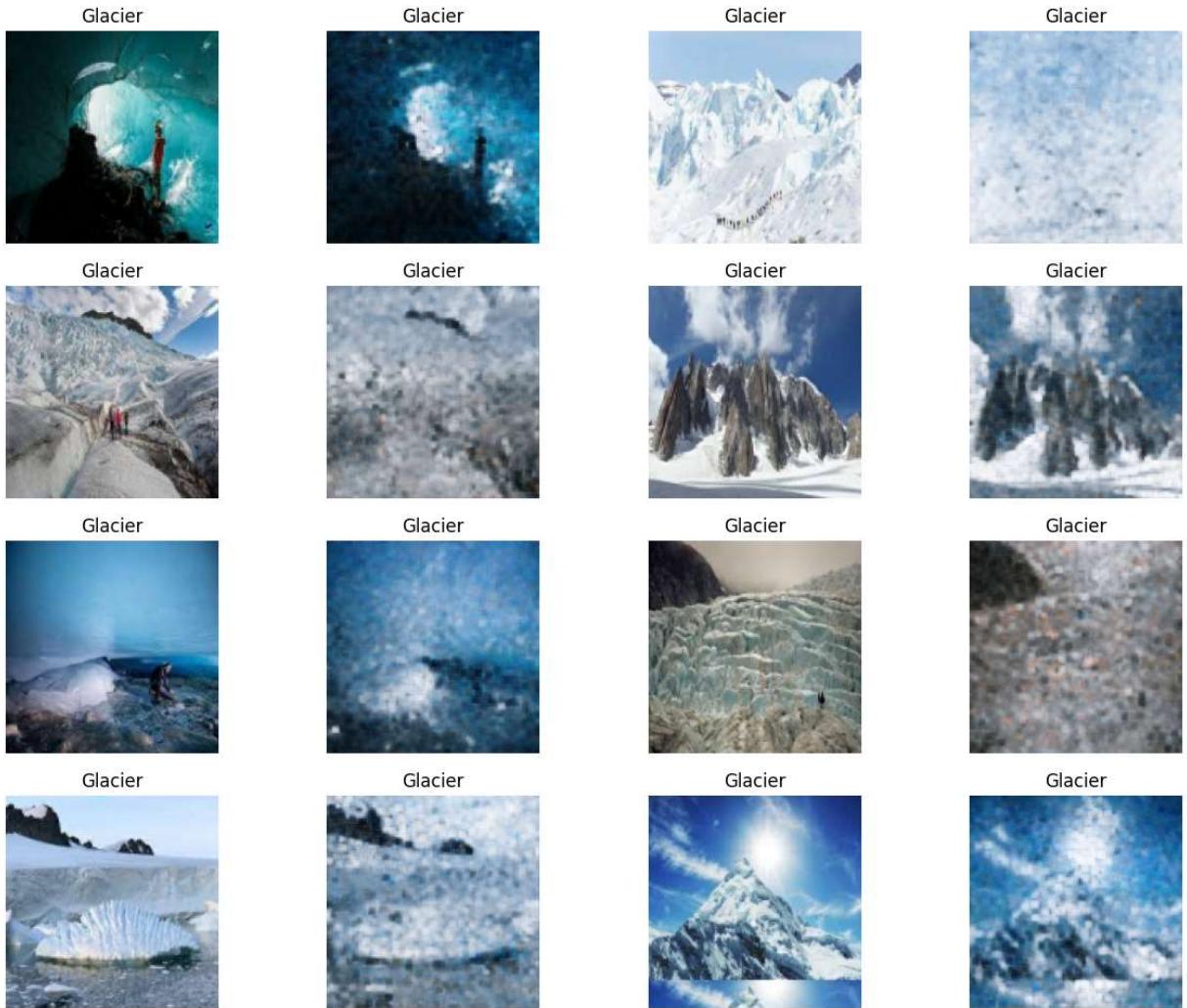
```
120/120 [=====] - 17s 138ms/step - loss: 36.9723 - reconstruction_error: 17.6773 - regularization_error: 19.2949 - val_loss: 72.3973 - val_reconstruction_error: 54.5456 - val_regularization_error: 17.8517
Epoch 702/1000
120/120 [=====] - 16s 130ms/step - loss: 36.8680 - reconstruction_error: 17.5610 - regularization_error: 19.3070 - val_loss: 71.4364 - val_reconstruction_error: 53.6549 - val_regularization_error: 17.7815
Epoch 703/1000
120/120 [=====] - 15s 124ms/step - loss: 36.8426 - reconstruction_error: 17.6157 - regularization_error: 19.2270 - val_loss: 72.0545 - val_reconstruction_error: 54.1698 - val_regularization_error: 17.8848
Epoch 704/1000
120/120 [=====] - 15s 127ms/step - loss: 36.8808 - reconstruction_error: 17.6250 - regularization_error: 19.2558 - val_loss: 71.9791 - val_reconstruction_error: 55.0294 - val_regularization_error: 16.9497
Epoch 705/1000
120/120 [=====] - 18s 150ms/step - loss: 36.9131 - reconstruction_error: 17.6892 - regularization_error: 19.2239 - val_loss: 71.3402 - val_reconstruction_error: 54.1128 - val_regularization_error: 17.2274
Epoch 706/1000
120/120 [=====] - 14s 112ms/step - loss: 36.8573 - reconstruction_error: 17.5519 - regularization_error: 19.3054 - val_loss: 71.0644 - val_reconstruction_error: 53.6100 - val_regularization_error: 17.4545
Epoch 707/1000
120/120 [=====] - 19s 162ms/step - loss: 36.6756 - reconstruction_error: 17.5000 - regularization_error: 19.1756 - val_loss: 71.5267 - val_reconstruction_error: 54.0957 - val_regularization_error: 17.4310
Epoch 708/1000
120/120 [=====] - 15s 123ms/step - loss: 36.7914 - reconstruction_error: 17.5793 - regularization_error: 19.2122 - val_loss: 70.2686 - val_reconstruction_error: 53.3360 - val_regularization_error: 16.9326
Epoch 709/1000
120/120 [=====] - 14s 118ms/step - loss: 36.7108 - reconstruction_error: 17.5165 - regularization_error: 19.1943 - val_loss: 71.3634 - val_reconstruction_error: 54.1735 - val_regularization_error: 17.1898
Epoch 710/1000
120/120 [=====] - 18s 149ms/step - loss: 36.8600 - reconstruction_error: 17.6206 - regularization_error: 19.2394 - val_loss: 71.2588 - val_reconstruction_error: 53.9202 - val_regularization_error: 17.3386
Epoch 711/1000
120/120 [=====] - ETA: 0s - loss: 36.8327 - reconstruction_error: 17.5240 - regularization_error: 19.3087
[2023-12-02 14:11:30.078246]: Reconstructing images for epoch 711 ...
```



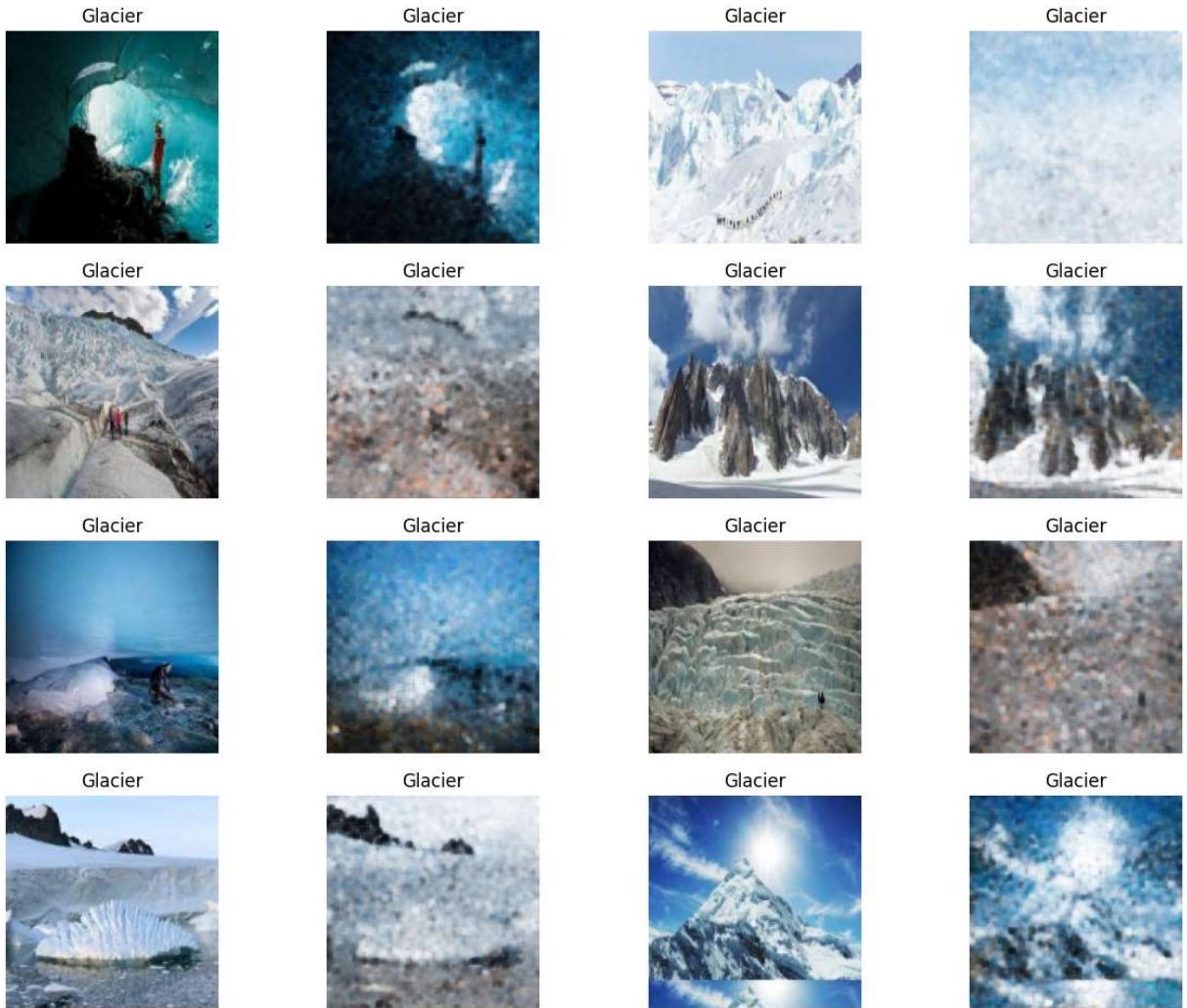
```
120/120 [=====] - 21s 175ms/step - loss: 36.8327 - reconstruction_error: 17.5240 - regularization_error: 19.3087 - val_loss: 71.4723 - val_reconstruction_error: 53.5964 - val_regularization_error: 17.8759
Epoch 712/1000
120/120 [=====] - 17s 142ms/step - loss: 36.9282 - reconstruction_error: 17.6919 - regularization_error: 19.2364 - val_loss: 72.3647 - val_reconstruction_error: 53.9641 - val_regularization_error: 18.4005
Epoch 713/1000
120/120 [=====] - 15s 126ms/step - loss: 36.7244 - reconstruction_error: 17.5149 - regularization_error: 19.2095 - val_loss: 71.0342 - val_reconstruction_error: 53.9985 - val_regularization_error: 17.0357
Epoch 714/1000
120/120 [=====] - 17s 142ms/step - loss: 36.6597 - reconstruction_error: 17.4081 - regularization_error: 19.2516 - val_loss: 70.8595 - val_reconstruction_error: 53.9772 - val_regularization_error: 16.8823
Epoch 715/1000
120/120 [=====] - 17s 140ms/step - loss: 36.8484 - reconstruction_error: 17.5449 - regularization_error: 19.3035 - val_loss: 70.8683 - val_reconstruction_error: 53.8452 - val_regularization_error: 17.0231
Epoch 716/1000
120/120 [=====] - 17s 135ms/step - loss: 36.7762 - reconstruction_error: 17.5200 - regularization_error: 19.2562 - val_loss: 72.1759 - val_reconstruction_error: 54.5552 - val_regularization_error: 17.6207
Epoch 717/1000
120/120 [=====] - 17s 141ms/step - loss: 36.7884 - reconstruction_error: 17.5536 - regularization_error: 19.2348 - val_loss: 71.3626 - val_reconstruction_error: 54.0335 - val_regularization_error: 17.3291
Epoch 718/1000
120/120 [=====] - 18s 145ms/step - loss: 36.6679 - reconstruction_error: 17.4545 - regularization_error: 19.2134 - val_loss: 71.6086 - val_reconstruction_error: 54.8934 - val_regularization_error: 16.7152
Epoch 719/1000
120/120 [=====] - 14s 115ms/step - loss: 36.6843 - reconstruction_error: 17.5467 - regularization_error: 19.1376 - val_loss: 72.2283 - val_reconstruction_error: 54.5069 - val_regularization_error: 17.7214
Epoch 720/1000
120/120 [=====] - 13s 108ms/step - loss: 36.7355 - reconstruction_error: 17.4273 - regularization_error: 19.3082 - val_loss: 71.1549 - val_reconstruction_error: 54.1083 - val_regularization_error: 17.0465
Epoch 721/1000
120/120 [=====] - ETA: 0s - loss: 36.5481 - reconstruction_error: 17.4252 - regularization_error: 19.1228
[2023-12-02 14:14:15.288218]: Reconstructing images for epoch 721 ...
```



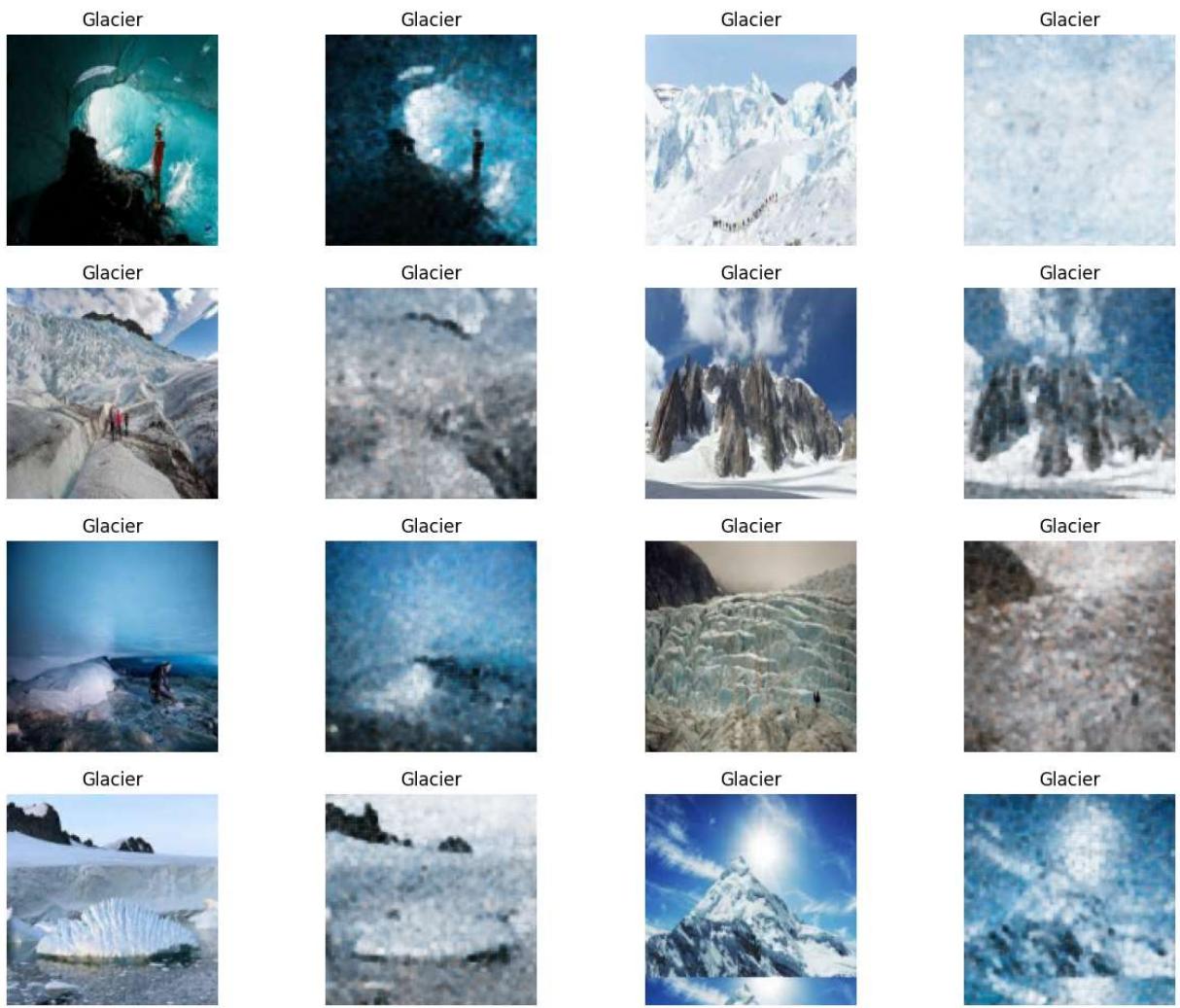
```
120/120 [=====] - 19s 158ms/step - loss: 36.5481 - reconstruction_error: 17.4252 - regularization_error: 19.1228 - val_loss: 72.7809 - val_reconstruction_error: 54.8521 - val_regularization_error: 17.9288
Epoch 722/1000
120/120 [=====] - 16s 131ms/step - loss: 36.6250 - reconstruction_error: 17.4967 - regularization_error: 19.1283 - val_loss: 71.3776 - val_reconstruction_error: 54.3609 - val_regularization_error: 17.0167
Epoch 723/1000
120/120 [=====] - 17s 145ms/step - loss: 36.8677 - reconstruction_error: 17.6671 - regularization_error: 19.2005 - val_loss: 70.9721 - val_reconstruction_error: 53.5828 - val_regularization_error: 17.3893
Epoch 724/1000
120/120 [=====] - 14s 118ms/step - loss: 36.9027 - reconstruction_error: 17.4879 - regularization_error: 19.4148 - val_loss: 72.5063 - val_reconstruction_error: 54.8882 - val_regularization_error: 17.6181
Epoch 725/1000
120/120 [=====] - 15s 121ms/step - loss: 36.8120 - reconstruction_error: 17.5762 - regularization_error: 19.2358 - val_loss: 69.7870 - val_reconstruction_error: 53.6263 - val_regularization_error: 16.1607
Epoch 726/1000
120/120 [=====] - 17s 140ms/step - loss: 36.7940 - reconstruction_error: 17.5367 - regularization_error: 19.2573 - val_loss: 71.5747 - val_reconstruction_error: 53.9523 - val_regularization_error: 17.6224
Epoch 727/1000
120/120 [=====] - 15s 125ms/step - loss: 36.7420 - reconstruction_error: 17.4685 - regularization_error: 19.2734 - val_loss: 72.6302 - val_reconstruction_error: 53.8729 - val_regularization_error: 18.7573
Epoch 728/1000
120/120 [=====] - 15s 120ms/step - loss: 36.5572 - reconstruction_error: 17.4142 - regularization_error: 19.1430 - val_loss: 73.2675 - val_reconstruction_error: 55.5800 - val_regularization_error: 17.6875
Epoch 729/1000
120/120 [=====] - 15s 125ms/step - loss: 36.7293 - reconstruction_error: 17.5015 - regularization_error: 19.2277 - val_loss: 73.1779 - val_reconstruction_error: 54.8074 - val_regularization_error: 18.3705
Epoch 730/1000
120/120 [=====] - 19s 162ms/step - loss: 36.7765 - reconstruction_error: 17.4672 - regularization_error: 19.3093 - val_loss: 71.9693 - val_reconstruction_error: 53.5909 - val_regularization_error: 18.3784
Epoch 731/1000
120/120 [=====] - ETA: 0s - loss: 36.5289 - reconstruction_error: 17.3937 - regularization_error: 19.1351
[2023-12-02 14:16:58.577565]: Reconstructing images for epoch 731 ...
```



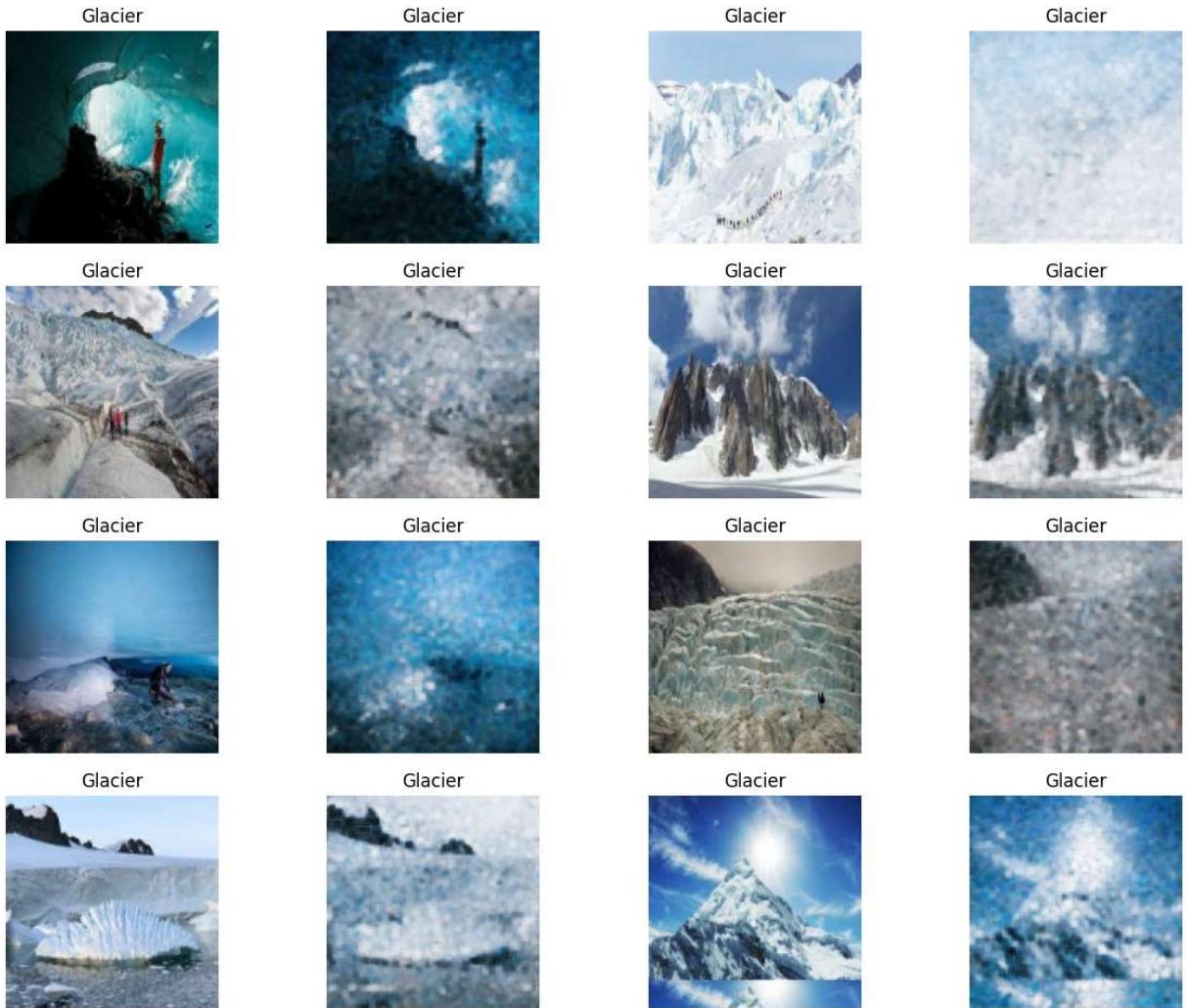
```
120/120 [=====] - 18s 145ms/step - loss: 36.5289 - reconstruction_error: 17.3937 - regularization_error: 19.1351 - val_loss: 72.0307 - val_reconstruction_error: 54.5136 - val_regularization_error: 17.5171
Epoch 732/1000
120/120 [=====] - 18s 149ms/step - loss: 36.4754 - reconstruction_error: 17.3314 - regularization_error: 19.1440 - val_loss: 71.1543 - val_reconstruction_error: 54.1378 - val_regularization_error: 17.0164
Epoch 733/1000
120/120 [=====] - 17s 140ms/step - loss: 36.6891 - reconstruction_error: 17.5272 - regularization_error: 19.1620 - val_loss: 73.0916 - val_reconstruction_error: 55.5268 - val_regularization_error: 17.5648
Epoch 734/1000
120/120 [=====] - 16s 136ms/step - loss: 36.6561 - reconstruction_error: 17.4541 - regularization_error: 19.2020 - val_loss: 71.7737 - val_reconstruction_error: 54.8627 - val_regularization_error: 16.9110
Epoch 735/1000
120/120 [=====] - 17s 140ms/step - loss: 36.5609 - reconstruction_error: 17.4075 - regularization_error: 19.1534 - val_loss: 71.9532 - val_reconstruction_error: 54.1390 - val_regularization_error: 17.8142
Epoch 736/1000
120/120 [=====] - 18s 149ms/step - loss: 36.6568 - reconstruction_error: 17.4239 - regularization_error: 19.2330 - val_loss: 71.5140 - val_reconstruction_error: 53.9976 - val_regularization_error: 17.5163
Epoch 737/1000
120/120 [=====] - 17s 138ms/step - loss: 36.6866 - reconstruction_error: 17.4289 - regularization_error: 19.2578 - val_loss: 71.0667 - val_reconstruction_error: 53.8713 - val_regularization_error: 17.1954
Epoch 738/1000
120/120 [=====] - 17s 144ms/step - loss: 36.6386 - reconstruction_error: 17.3971 - regularization_error: 19.2414 - val_loss: 72.1445 - val_reconstruction_error: 54.7662 - val_regularization_error: 17.3783
Epoch 739/1000
120/120 [=====] - 17s 145ms/step - loss: 36.4940 - reconstruction_error: 17.4020 - regularization_error: 19.0920 - val_loss: 74.3910 - val_reconstruction_error: 55.5327 - val_regularization_error: 18.8583
Epoch 740/1000
120/120 [=====] - 15s 126ms/step - loss: 36.7504 - reconstruction_error: 17.5263 - regularization_error: 19.2241 - val_loss: 71.6291 - val_reconstruction_error: 54.1830 - val_regularization_error: 17.4461
Epoch 741/1000
120/120 [=====] - ETA: 0s - loss: 36.3887 - reconstruction_error: 17.2463 - regularization_error: 19.1424
[2023-12-02 14:19:50.991102]: Reconstructing images for epoch 741 ...
```



```
120/120 [=====] - 18s 152ms/step - loss: 36.3887 - reconstruction_error: 17.2463 - regularization_error: 19.1424 - val_loss: 71.7805 - val_reconstruction_error: 54.2854 - val_regularization_error: 17.4951
Epoch 742/1000
120/120 [=====] - 15s 126ms/step - loss: 36.4317 - reconstruction_error: 17.3046 - regularization_error: 19.1271 - val_loss: 71.7904 - val_reconstruction_error: 54.4723 - val_regularization_error: 17.3181
Epoch 743/1000
120/120 [=====] - 16s 131ms/step - loss: 36.6838 - reconstruction_error: 17.3851 - regularization_error: 19.2988 - val_loss: 72.0033 - val_reconstruction_error: 55.0372 - val_regularization_error: 16.9661
Epoch 744/1000
120/120 [=====] - 17s 138ms/step - loss: 36.5966 - reconstruction_error: 17.3898 - regularization_error: 19.2068 - val_loss: 72.0174 - val_reconstruction_error: 54.6404 - val_regularization_error: 17.3770
Epoch 745/1000
120/120 [=====] - 18s 153ms/step - loss: 36.7648 - reconstruction_error: 17.4906 - regularization_error: 19.2742 - val_loss: 71.9696 - val_reconstruction_error: 54.4569 - val_regularization_error: 17.5126
Epoch 746/1000
120/120 [=====] - 18s 147ms/step - loss: 36.6208 - reconstruction_error: 17.3640 - regularization_error: 19.2568 - val_loss: 71.8769 - val_reconstruction_error: 54.7565 - val_regularization_error: 17.1204
Epoch 747/1000
120/120 [=====] - 14s 119ms/step - loss: 36.6671 - reconstruction_error: 17.3687 - regularization_error: 19.2984 - val_loss: 72.1064 - val_reconstruction_error: 54.6620 - val_regularization_error: 17.4444
Epoch 748/1000
120/120 [=====] - 17s 136ms/step - loss: 36.5827 - reconstruction_error: 17.3997 - regularization_error: 19.1830 - val_loss: 72.6392 - val_reconstruction_error: 55.2429 - val_regularization_error: 17.3964
Epoch 749/1000
120/120 [=====] - 16s 129ms/step - loss: 36.6461 - reconstruction_error: 17.3262 - regularization_error: 19.3198 - val_loss: 71.8841 - val_reconstruction_error: 55.0419 - val_regularization_error: 16.8422
Epoch 750/1000
120/120 [=====] - 12s 98ms/step - loss: 36.6565 - reconstruction_error: 17.3953 - regularization_error: 19.2612 - val_loss: 71.3659 - val_reconstruction_error: 54.0055 - val_regularization_error: 17.3604
Epoch 751/1000
120/120 [=====] - ETA: 0s - loss: 36.5347 - reconstruction_error: 17.3969 - regularization_error: 19.1378
[2023-12-02 14:22:37.275307]: Reconstructing images for epoch 751 ...
```



```
120/120 [=====] - 21s 171ms/step - loss: 36.5347 - reconstruction_error: 17.3969 - regularization_error: 19.1378 - val_loss: 72.7592 - val_reconstruction_error: 55.0043 - val_regularization_error: 17.7549
Epoch 752/1000
120/120 [=====] - 17s 144ms/step - loss: 36.4161 - reconstruction_error: 17.2526 - regularization_error: 19.1635 - val_loss: 72.2017 - val_reconstruction_error: 54.6030 - val_regularization_error: 17.5987
Epoch 753/1000
120/120 [=====] - 15s 121ms/step - loss: 36.5663 - reconstruction_error: 17.3086 - regularization_error: 19.2577 - val_loss: 71.6850 - val_reconstruction_error: 54.2661 - val_regularization_error: 17.4189
Epoch 754/1000
120/120 [=====] - 18s 145ms/step - loss: 36.5305 - reconstruction_error: 17.3634 - regularization_error: 19.1671 - val_loss: 73.6480 - val_reconstruction_error: 54.5945 - val_regularization_error: 19.0536
Epoch 755/1000
120/120 [=====] - 21s 173ms/step - loss: 36.3143 - reconstruction_error: 17.1591 - regularization_error: 19.1552 - val_loss: 72.3584 - val_reconstruction_error: 54.8127 - val_regularization_error: 17.5457
Epoch 756/1000
120/120 [=====] - 17s 143ms/step - loss: 36.5620 - reconstruction_error: 17.3878 - regularization_error: 19.1741 - val_loss: 71.5320 - val_reconstruction_error: 54.2763 - val_regularization_error: 17.2557
Epoch 757/1000
120/120 [=====] - 17s 141ms/step - loss: 36.5927 - reconstruction_error: 17.3884 - regularization_error: 19.2043 - val_loss: 72.0143 - val_reconstruction_error: 54.4495 - val_regularization_error: 17.5648
Epoch 758/1000
120/120 [=====] - 15s 126ms/step - loss: 36.6807 - reconstruction_error: 17.5549 - regularization_error: 19.1258 - val_loss: 71.3665 - val_reconstruction_error: 54.8931 - val_regularization_error: 16.4734
Epoch 759/1000
120/120 [=====] - 16s 132ms/step - loss: 36.3536 - reconstruction_error: 17.1484 - regularization_error: 19.2052 - val_loss: 73.2348 - val_reconstruction_error: 55.2575 - val_regularization_error: 17.9772
Epoch 760/1000
120/120 [=====] - 14s 115ms/step - loss: 36.3614 - reconstruction_error: 17.1687 - regularization_error: 19.1927 - val_loss: 72.7508 - val_reconstruction_error: 54.5345 - val_regularization_error: 18.2163
Epoch 761/1000
120/120 [=====] - ETA: 0s - loss: 36.5442 - reconstruction_error: 17.3284 - regularization_error: 19.2158
[2023-12-02 14:25:25.369521]: Reconstructing images for epoch 761 ...
```



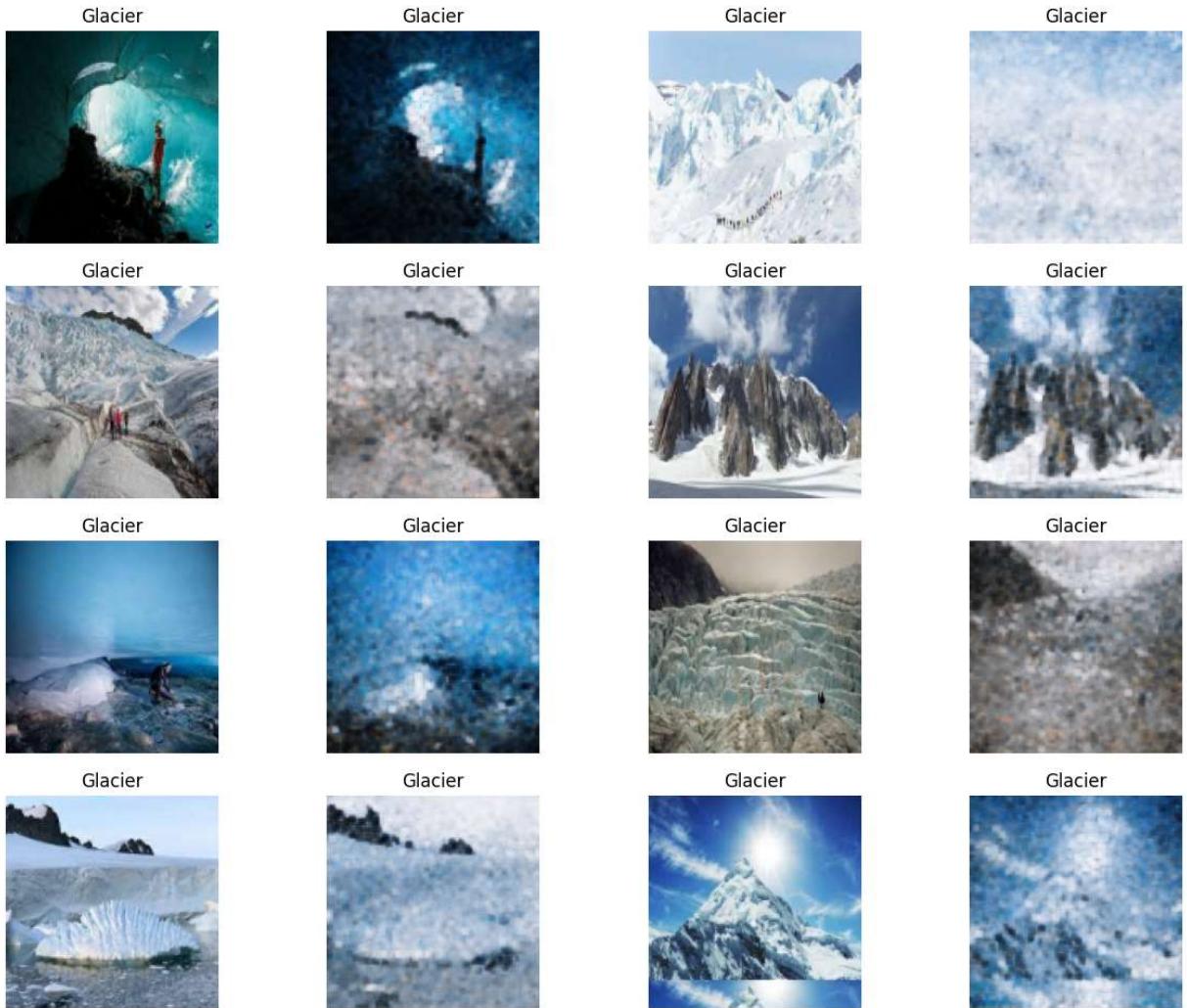
```
120/120 [=====] - 18s 145ms/step - loss: 36.5442 - reconstruction_error: 17.3284 - regularization_error: 19.2158 - val_loss: 71.3355 - val_reconstruction_error: 54.2098 - val_regularization_error: 17.1257
Epoch 762/1000
120/120 [=====] - 16s 134ms/step - loss: 36.3602 - reconstruction_error: 17.3011 - regularization_error: 19.0590 - val_loss: 73.0386 - val_reconstruction_error: 55.0439 - val_regularization_error: 17.9947
Epoch 763/1000
120/120 [=====] - 17s 144ms/step - loss: 36.1647 - reconstruction_error: 17.0898 - regularization_error: 19.0750 - val_loss: 71.4794 - val_reconstruction_error: 54.8031 - val_regularization_error: 16.6763
Epoch 764/1000
120/120 [=====] - 15s 122ms/step - loss: 36.5716 - reconstruction_error: 17.3269 - regularization_error: 19.2447 - val_loss: 71.6183 - val_reconstruction_error: 53.8232 - val_regularization_error: 17.7951
Epoch 765/1000
120/120 [=====] - 15s 126ms/step - loss: 36.5119 - reconstruction_error: 17.3061 - regularization_error: 19.2058 - val_loss: 72.3409 - val_reconstruction_error: 55.2383 - val_regularization_error: 17.1027
Epoch 766/1000
120/120 [=====] - 14s 114ms/step - loss: 36.4833 - reconstruction_error: 17.3234 - regularization_error: 19.1598 - val_loss: 71.8893 - val_reconstruction_error: 54.2528 - val_regularization_error: 17.6365
Epoch 767/1000
120/120 [=====] - 16s 132ms/step - loss: 36.4901 - reconstruction_error: 17.1375 - regularization_error: 19.3527 - val_loss: 72.4169 - val_reconstruction_error: 54.8105 - val_regularization_error: 17.6064
Epoch 768/1000
120/120 [=====] - 13s 103ms/step - loss: 36.4339 - reconstruction_error: 17.2144 - regularization_error: 19.2195 - val_loss: 71.3481 - val_reconstruction_error: 53.8176 - val_regularization_error: 17.5305
Epoch 769/1000
120/120 [=====] - 16s 129ms/step - loss: 36.3542 - reconstruction_error: 17.2646 - regularization_error: 19.0895 - val_loss: 71.9426 - val_reconstruction_error: 54.3981 - val_regularization_error: 17.5445
Epoch 770/1000
120/120 [=====] - 17s 144ms/step - loss: 36.4408 - reconstruction_error: 17.2638 - regularization_error: 19.1770 - val_loss: 70.4099 - val_reconstruction_error: 54.0575 - val_regularization_error: 16.3524
Epoch 771/1000
120/120 [=====] - ETA: 0s - loss: 36.5939 - reconstruction_error: 17.3548 - regularization_error: 19.2392
[2023-12-02 14:28:02.347572]: Reconstructing images for epoch 771 ...
```



```
120/120 [=====] - 17s 138ms/step - loss: 36.5939 - reconstruction_error: 17.3548 - regularization_error: 19.2392 - val_loss: 72.4375 - val_reconstruction_error: 54.6685 - val_regularization_error: 17.7690
Epoch 772/1000
120/120 [=====] - 13s 109ms/step - loss: 36.4317 - reconstruction_error: 17.1848 - regularization_error: 19.2469 - val_loss: 72.9108 - val_reconstruction_error: 55.3519 - val_regularization_error: 17.5589
Epoch 773/1000
120/120 [=====] - 18s 146ms/step - loss: 36.5932 - reconstruction_error: 17.2920 - regularization_error: 19.3012 - val_loss: 72.0702 - val_reconstruction_error: 54.5599 - val_regularization_error: 17.5102
Epoch 774/1000
120/120 [=====] - 16s 133ms/step - loss: 36.3199 - reconstruction_error: 17.2232 - regularization_error: 19.0967 - val_loss: 71.5941 - val_reconstruction_error: 54.7052 - val_regularization_error: 16.8889
Epoch 775/1000
120/120 [=====] - 15s 121ms/step - loss: 36.3400 - reconstruction_error: 17.1460 - regularization_error: 19.1940 - val_loss: 72.1904 - val_reconstruction_error: 53.9282 - val_regularization_error: 18.2622
Epoch 776/1000
120/120 [=====] - 19s 153ms/step - loss: 36.2638 - reconstruction_error: 17.1941 - regularization_error: 19.0696 - val_loss: 71.4666 - val_reconstruction_error: 54.2577 - val_regularization_error: 17.2089
Epoch 777/1000
120/120 [=====] - 16s 131ms/step - loss: 36.5643 - reconstruction_error: 17.3439 - regularization_error: 19.2203 - val_loss: 71.2270 - val_reconstruction_error: 53.9824 - val_regularization_error: 17.2445
Epoch 778/1000
120/120 [=====] - 15s 125ms/step - loss: 36.4215 - reconstruction_error: 17.2314 - regularization_error: 19.1901 - val_loss: 72.6737 - val_reconstruction_error: 54.8990 - val_regularization_error: 17.7747
Epoch 779/1000
120/120 [=====] - 13s 110ms/step - loss: 36.4224 - reconstruction_error: 17.3009 - regularization_error: 19.1215 - val_loss: 73.0162 - val_reconstruction_error: 55.4711 - val_regularization_error: 17.5451
Epoch 780/1000
120/120 [=====] - 16s 134ms/step - loss: 36.2847 - reconstruction_error: 17.0616 - regularization_error: 19.2231 - val_loss: 72.0913 - val_reconstruction_error: 55.5178 - val_regularization_error: 16.5735
Epoch 781/1000
120/120 [=====] - ETA: 0s - loss: 36.4316 - reconstruction_error: 17.1044 - regularization_error: 19.3272
[2023-12-02 14:30:40.442748]: Reconstructing images for epoch 781 ...
```



```
120/120 [=====] - 16s 133ms/step - loss: 36.4316 - reconstruction_error: 17.1044 - regularization_error: 19.3272 - val_loss: 72.2723 - val_reconstruction_error: 54.5979 - val_regularization_error: 17.6743
Epoch 782/1000
120/120 [=====] - 16s 132ms/step - loss: 36.3566 - reconstruction_error: 17.0592 - regularization_error: 19.2974 - val_loss: 72.0220 - val_reconstruction_error: 54.5943 - val_regularization_error: 17.4278
Epoch 783/1000
120/120 [=====] - 16s 134ms/step - loss: 36.3054 - reconstruction_error: 17.1365 - regularization_error: 19.1689 - val_loss: 72.9233 - val_reconstruction_error: 54.7769 - val_regularization_error: 18.1464
Epoch 784/1000
120/120 [=====] - 17s 138ms/step - loss: 36.4455 - reconstruction_error: 17.1817 - regularization_error: 19.2638 - val_loss: 74.0962 - val_reconstruction_error: 55.6295 - val_regularization_error: 18.4667
Epoch 785/1000
120/120 [=====] - 15s 121ms/step - loss: 36.5864 - reconstruction_error: 17.2604 - regularization_error: 19.3260 - val_loss: 71.4687 - val_reconstruction_error: 54.5808 - val_regularization_error: 16.8879
Epoch 786/1000
120/120 [=====] - 16s 132ms/step - loss: 36.2668 - reconstruction_error: 17.1503 - regularization_error: 19.1165 - val_loss: 71.0818 - val_reconstruction_error: 55.0721 - val_regularization_error: 16.0097
Epoch 787/1000
120/120 [=====] - 18s 150ms/step - loss: 36.2613 - reconstruction_error: 17.1576 - regularization_error: 19.1038 - val_loss: 72.7260 - val_reconstruction_error: 54.4380 - val_regularization_error: 18.2879
Epoch 788/1000
120/120 [=====] - 16s 135ms/step - loss: 36.2371 - reconstruction_error: 17.0460 - regularization_error: 19.1910 - val_loss: 73.6015 - val_reconstruction_error: 55.6185 - val_regularization_error: 17.9830
Epoch 789/1000
120/120 [=====] - 17s 138ms/step - loss: 36.1539 - reconstruction_error: 17.0068 - regularization_error: 19.1471 - val_loss: 72.1004 - val_reconstruction_error: 54.5922 - val_regularization_error: 17.5083
Epoch 790/1000
120/120 [=====] - 15s 124ms/step - loss: 36.2686 - reconstruction_error: 17.1481 - regularization_error: 19.1204 - val_loss: 70.8152 - val_reconstruction_error: 54.8047 - val_regularization_error: 16.0106
Epoch 791/1000
120/120 [=====] - ETA: 0s - loss: 36.2515 - reconstruction_error: 17.1663 - regularization_error: 19.0851
[2023-12-02 14:33:29.917331]: Reconstructing images for epoch 791 ...
```



```
120/120 [=====] - 23s 196ms/step - loss: 36.2515 - reconstruction_error: 17.1663 - regularization_error: 19.0851 - val_loss: 72.9472 - val_reconstruction_error: 55.6771 - val_regularization_error: 17.2702
Epoch 792/1000
120/120 [=====] - 18s 149ms/step - loss: 36.2745 - reconstruction_error: 17.0870 - regularization_error: 19.1875 - val_loss: 72.3937 - val_reconstruction_error: 55.0588 - val_regularization_error: 17.3348
Epoch 793/1000
120/120 [=====] - 15s 122ms/step - loss: 36.4035 - reconstruction_error: 17.2096 - regularization_error: 19.1939 - val_loss: 72.0788 - val_reconstruction_error: 54.4295 - val_regularization_error: 17.6493
Epoch 794/1000
120/120 [=====] - 16s 129ms/step - loss: 36.2184 - reconstruction_error: 17.0766 - regularization_error: 19.1418 - val_loss: 72.1186 - val_reconstruction_error: 54.3787 - val_regularization_error: 17.7399
Epoch 795/1000
120/120 [=====] - 14s 119ms/step - loss: 36.3612 - reconstruction_error: 17.1541 - regularization_error: 19.2071 - val_loss: 72.9295 - val_reconstruction_error: 55.3370 - val_regularization_error: 17.5925
Epoch 796/1000
120/120 [=====] - 15s 125ms/step - loss: 36.2192 - reconstruction_error: 17.0501 - regularization_error: 19.1691 - val_loss: 72.0760 - val_reconstruction_error: 54.9330 - val_regularization_error: 17.1430
Epoch 797/1000
120/120 [=====] - 15s 125ms/step - loss: 36.2587 - reconstruction_error: 17.1404 - regularization_error: 19.1184 - val_loss: 72.8526 - val_reconstruction_error: 55.0602 - val_regularization_error: 17.7924
Epoch 798/1000
120/120 [=====] - 18s 150ms/step - loss: 36.4381 - reconstruction_error: 17.1755 - regularization_error: 19.2626 - val_loss: 72.8592 - val_reconstruction_error: 55.1475 - val_regularization_error: 17.7117
Epoch 799/1000
120/120 [=====] - 16s 136ms/step - loss: 36.1453 - reconstruction_error: 17.0446 - regularization_error: 19.1007 - val_loss: 72.2969 - val_reconstruction_error: 54.7855 - val_regularization_error: 17.5114
Epoch 800/1000
120/120 [=====] - 14s 113ms/step - loss: 36.3655 - reconstruction_error: 17.1401 - regularization_error: 19.2254 - val_loss: 71.3266 - val_reconstruction_error: 54.5909 - val_regularization_error: 16.7357
Epoch 801/1000
120/120 [=====] - ETA: 0s - loss: 36.2081 - reconstruction_error: 17.0613 - regularization_error: 19.1467
[2023-12-02 14:36:13.557412]: Reconstructing images for epoch 801 ...
```



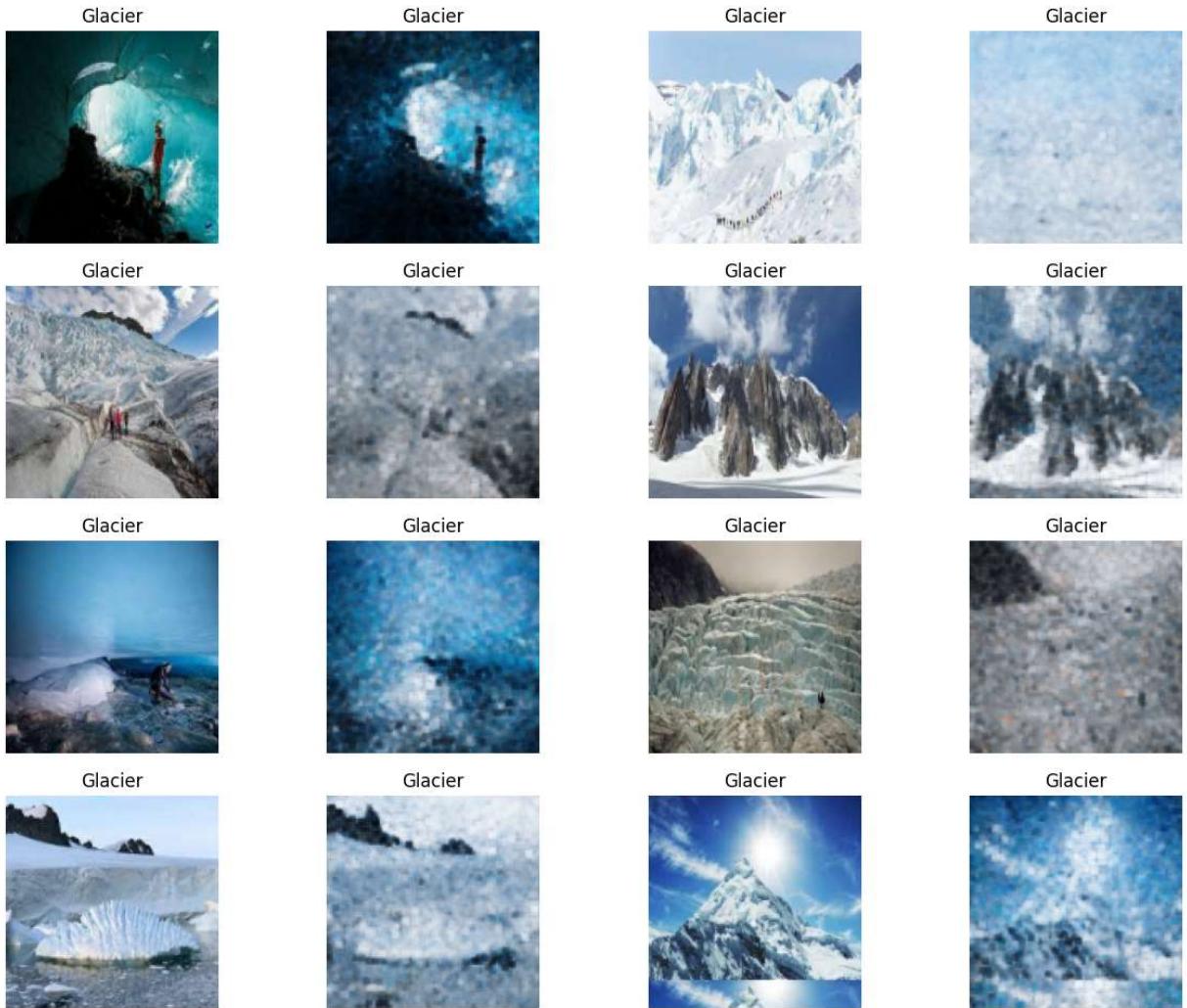
```
120/120 [=====] - 21s 172ms/step - loss: 36.2081 - reconstruction_error: 17.0613 - regularization_error: 19.1467 - val_loss: 72.3929 - val_reconstruction_error: 54.8637 - val_regularization_error: 17.5292
Epoch 802/1000
120/120 [=====] - 15s 124ms/step - loss: 36.2447 - reconstruction_error: 17.0465 - regularization_error: 19.1982 - val_loss: 72.6393 - val_reconstruction_error: 54.9139 - val_regularization_error: 17.7254
Epoch 803/1000
120/120 [=====] - 14s 116ms/step - loss: 36.2611 - reconstruction_error: 17.1096 - regularization_error: 19.1515 - val_loss: 72.6760 - val_reconstruction_error: 55.0169 - val_regularization_error: 17.6591
Epoch 804/1000
120/120 [=====] - 15s 126ms/step - loss: 36.2926 - reconstruction_error: 17.0205 - regularization_error: 19.2720 - val_loss: 71.4637 - val_reconstruction_error: 54.6349 - val_regularization_error: 16.8288
Epoch 805/1000
120/120 [=====] - 16s 131ms/step - loss: 36.1855 - reconstruction_error: 16.9755 - regularization_error: 19.2100 - val_loss: 72.8216 - val_reconstruction_error: 55.1896 - val_regularization_error: 17.6320
Epoch 806/1000
120/120 [=====] - 18s 150ms/step - loss: 36.2627 - reconstruction_error: 17.0173 - regularization_error: 19.2453 - val_loss: 71.4174 - val_reconstruction_error: 54.9197 - val_regularization_error: 16.4977
Epoch 807/1000
120/120 [=====] - 18s 151ms/step - loss: 36.2450 - reconstruction_error: 16.9856 - regularization_error: 19.2594 - val_loss: 71.9965 - val_reconstruction_error: 55.0554 - val_regularization_error: 16.9411
Epoch 808/1000
120/120 [=====] - 13s 110ms/step - loss: 36.4492 - reconstruction_error: 17.0859 - regularization_error: 19.3634 - val_loss: 71.5886 - val_reconstruction_error: 54.5332 - val_regularization_error: 17.0554
Epoch 809/1000
120/120 [=====] - 18s 152ms/step - loss: 36.2924 - reconstruction_error: 17.0210 - regularization_error: 19.2714 - val_loss: 74.3584 - val_reconstruction_error: 57.0899 - val_regularization_error: 17.2686
Epoch 810/1000
120/120 [=====] - 16s 135ms/step - loss: 36.1822 - reconstruction_error: 17.0045 - regularization_error: 19.1777 - val_loss: 71.6039 - val_reconstruction_error: 53.9428 - val_regularization_error: 17.6611
Epoch 811/1000
120/120 [=====] - ETA: 0s - loss: 36.1969 - reconstruction_error: 16.9907 - regularization_error: 19.2062
[2023-12-02 14:38:55.651232]: Reconstructing images for epoch 811 ...
```



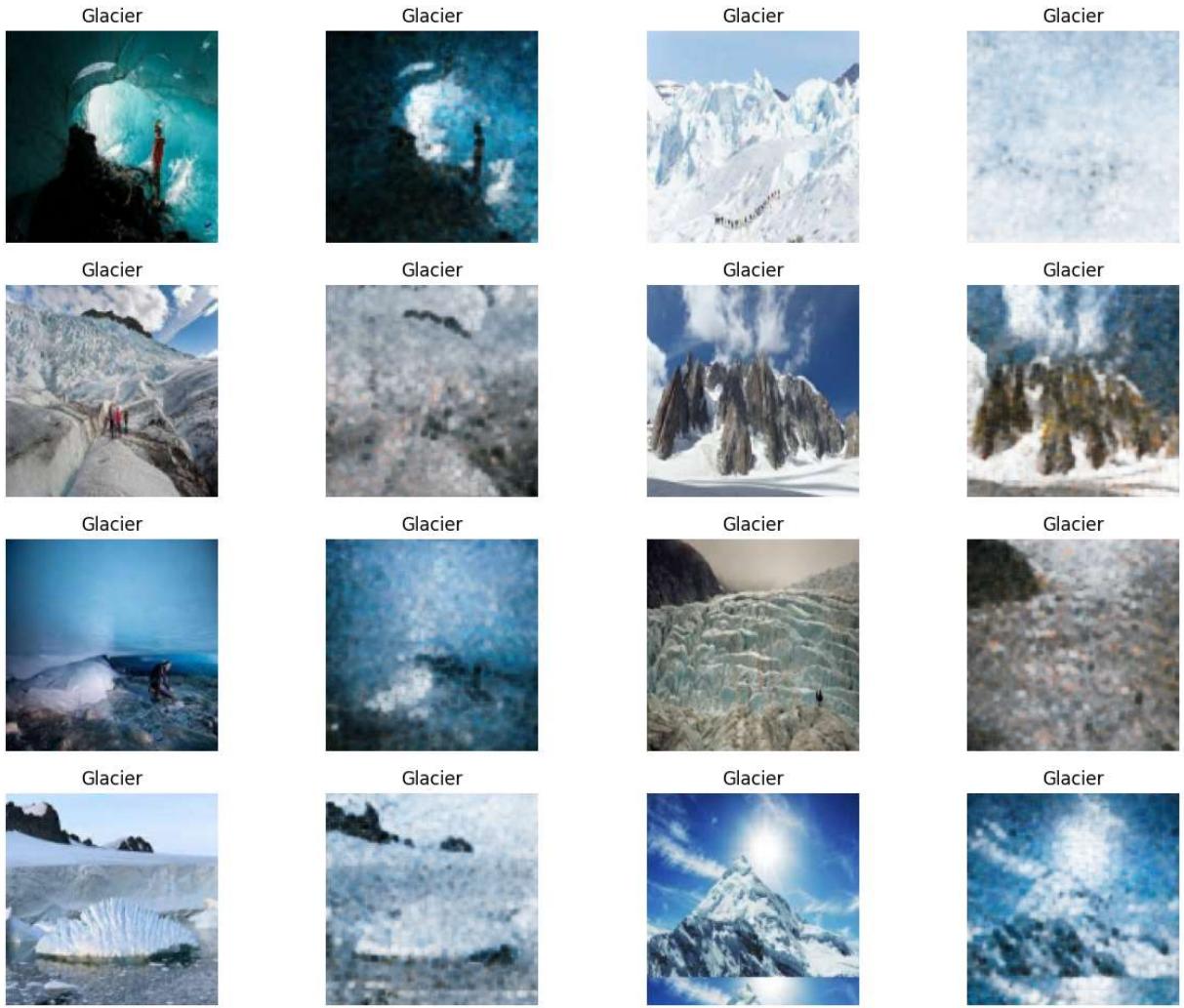
```
120/120 [=====] - 16s 137ms/step - loss: 36.1969 - reconstruction_error: 16.9907 - regularization_error: 19.2062 - val_loss: 72.9211 - val_reconstruction_error: 55.0105 - val_regularization_error: 17.9106
Epoch 812/1000
120/120 [=====] - 19s 157ms/step - loss: 36.0072 - reconstruction_error: 16.9289 - regularization_error: 19.0783 - val_loss: 71.9781 - val_reconstruction_error: 55.0035 - val_regularization_error: 16.9746
Epoch 813/1000
120/120 [=====] - 16s 132ms/step - loss: 36.1373 - reconstruction_error: 16.9929 - regularization_error: 19.1443 - val_loss: 71.5895 - val_reconstruction_error: 55.1363 - val_regularization_error: 16.4532
Epoch 814/1000
120/120 [=====] - 16s 129ms/step - loss: 36.0704 - reconstruction_error: 16.9499 - regularization_error: 19.1205 - val_loss: 71.2727 - val_reconstruction_error: 54.5517 - val_regularization_error: 16.7210
Epoch 815/1000
120/120 [=====] - 18s 149ms/step - loss: 36.1141 - reconstruction_error: 16.9924 - regularization_error: 19.1216 - val_loss: 71.7229 - val_reconstruction_error: 54.1025 - val_regularization_error: 17.6204
Epoch 816/1000
120/120 [=====] - 18s 144ms/step - loss: 36.1656 - reconstruction_error: 16.9944 - regularization_error: 19.1712 - val_loss: 72.1868 - val_reconstruction_error: 54.7421 - val_regularization_error: 17.4447
Epoch 817/1000
120/120 [=====] - 13s 107ms/step - loss: 36.1113 - reconstruction_error: 17.0073 - regularization_error: 19.1040 - val_loss: 72.2003 - val_reconstruction_error: 54.9452 - val_regularization_error: 17.2551
Epoch 818/1000
120/120 [=====] - 17s 139ms/step - loss: 36.0483 - reconstruction_error: 16.9245 - regularization_error: 19.1238 - val_loss: 71.5162 - val_reconstruction_error: 54.2133 - val_regularization_error: 17.3030
Epoch 819/1000
120/120 [=====] - 16s 136ms/step - loss: 36.1320 - reconstruction_error: 16.9540 - regularization_error: 19.1780 - val_loss: 73.3888 - val_reconstruction_error: 55.2829 - val_regularization_error: 18.1060
Epoch 820/1000
120/120 [=====] - 18s 149ms/step - loss: 36.1931 - reconstruction_error: 17.0478 - regularization_error: 19.1454 - val_loss: 72.6558 - val_reconstruction_error: 54.7923 - val_regularization_error: 17.8635
Epoch 821/1000
120/120 [=====] - ETA: 0s - loss: 36.2538 - reconstruction_error: 17.0025 - regularization_error: 19.2513
[2023-12-02 14:41:47.320299]: Reconstructing images for epoch 821 ...
```



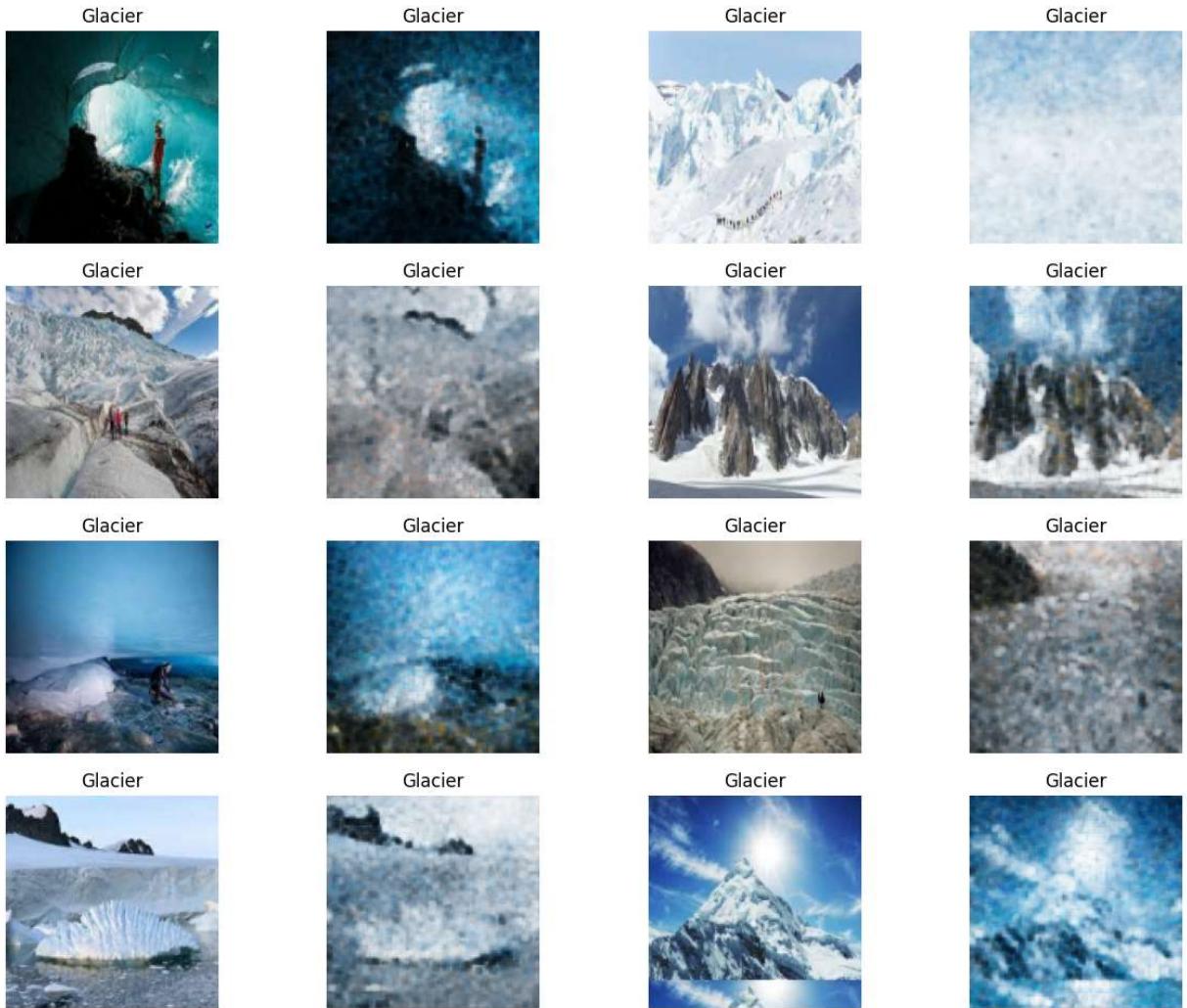
```
120/120 [=====] - 19s 153ms/step - loss: 36.2538 - reconstruction_error: 17.0025 - regularization_error: 19.2513 - val_loss: 73.6768 - val_reconstruction_error: 55.7493 - val_regularization_error: 17.9274
Epoch 822/1000
120/120 [=====] - 15s 129ms/step - loss: 36.3307 - reconstruction_error: 17.1114 - regularization_error: 19.2193 - val_loss: 72.1495 - val_reconstruction_error: 54.4498 - val_regularization_error: 17.6997
Epoch 823/1000
120/120 [=====] - 15s 125ms/step - loss: 36.1680 - reconstruction_error: 16.9147 - regularization_error: 19.2533 - val_loss: 73.3465 - val_reconstruction_error: 54.8632 - val_regularization_error: 18.4832
Epoch 824/1000
120/120 [=====] - 16s 129ms/step - loss: 36.2909 - reconstruction_error: 17.0819 - regularization_error: 19.2090 - val_loss: 74.3364 - val_reconstruction_error: 55.7287 - val_regularization_error: 18.6077
Epoch 825/1000
120/120 [=====] - 16s 130ms/step - loss: 36.1399 - reconstruction_error: 16.9537 - regularization_error: 19.1862 - val_loss: 72.5536 - val_reconstruction_error: 55.2049 - val_regularization_error: 17.3487
Epoch 826/1000
120/120 [=====] - 14s 118ms/step - loss: 36.0600 - reconstruction_error: 16.8851 - regularization_error: 19.1749 - val_loss: 72.6503 - val_reconstruction_error: 55.5792 - val_regularization_error: 17.0710
Epoch 827/1000
120/120 [=====] - 18s 147ms/step - loss: 36.0718 - reconstruction_error: 17.0455 - regularization_error: 19.0263 - val_loss: 73.9775 - val_reconstruction_error: 55.0230 - val_regularization_error: 18.9545
Epoch 828/1000
120/120 [=====] - 18s 148ms/step - loss: 36.1421 - reconstruction_error: 17.0164 - regularization_error: 19.1258 - val_loss: 72.5020 - val_reconstruction_error: 55.6590 - val_regularization_error: 16.8429
Epoch 829/1000
120/120 [=====] - 15s 122ms/step - loss: 36.3457 - reconstruction_error: 17.0611 - regularization_error: 19.2846 - val_loss: 72.7489 - val_reconstruction_error: 55.4095 - val_regularization_error: 17.3395
Epoch 830/1000
120/120 [=====] - 17s 142ms/step - loss: 36.1780 - reconstruction_error: 16.9764 - regularization_error: 19.2015 - val_loss: 72.0158 - val_reconstruction_error: 54.8084 - val_regularization_error: 17.2074
Epoch 831/1000
120/120 [=====] - ETA: 0s - loss: 35.7963 - reconstruction_error: 16.7834 - regularization_error: 19.0128
[2023-12-02 14:44:34.558782]: Reconstructing images for epoch 831 ...
```



```
120/120 [=====] - 20s 167ms/step - loss: 35.7963 - reconstruction_error: 16.7834 - regularization_error: 19.0128 - val_loss: 71.6490 - val_reconstruction_error: 55.3431 - val_regularization_error: 16.3059
Epoch 832/1000
120/120 [=====] - 14s 114ms/step - loss: 35.9930 - reconstruction_error: 16.9707 - regularization_error: 19.0223 - val_loss: 73.1531 - val_reconstruction_error: 54.8210 - val_regularization_error: 18.3321
Epoch 833/1000
120/120 [=====] - 17s 138ms/step - loss: 36.0302 - reconstruction_error: 16.8872 - regularization_error: 19.1431 - val_loss: 71.4880 - val_reconstruction_error: 54.6915 - val_regularization_error: 16.7965
Epoch 834/1000
120/120 [=====] - 16s 135ms/step - loss: 36.0197 - reconstruction_error: 16.9401 - regularization_error: 19.0796 - val_loss: 72.7332 - val_reconstruction_error: 55.5298 - val_regularization_error: 17.2033
Epoch 835/1000
120/120 [=====] - 15s 122ms/step - loss: 36.1503 - reconstruction_error: 16.9693 - regularization_error: 19.1809 - val_loss: 71.1834 - val_reconstruction_error: 53.9851 - val_regularization_error: 17.1983
Epoch 836/1000
120/120 [=====] - 20s 168ms/step - loss: 36.1305 - reconstruction_error: 16.8384 - regularization_error: 19.2921 - val_loss: 72.4762 - val_reconstruction_error: 54.5627 - val_regularization_error: 17.9135
Epoch 837/1000
120/120 [=====] - 15s 125ms/step - loss: 36.0589 - reconstruction_error: 16.9184 - regularization_error: 19.1405 - val_loss: 74.3202 - val_reconstruction_error: 55.7449 - val_regularization_error: 18.5753
Epoch 838/1000
120/120 [=====] - 14s 116ms/step - loss: 36.2352 - reconstruction_error: 16.9529 - regularization_error: 19.2823 - val_loss: 71.8514 - val_reconstruction_error: 54.7365 - val_regularization_error: 17.1150
Epoch 839/1000
120/120 [=====] - 15s 124ms/step - loss: 36.1060 - reconstruction_error: 16.9741 - regularization_error: 19.1319 - val_loss: 71.7704 - val_reconstruction_error: 54.6245 - val_regularization_error: 17.1459
Epoch 840/1000
120/120 [=====] - 15s 129ms/step - loss: 35.8252 - reconstruction_error: 16.8619 - regularization_error: 18.9633 - val_loss: 72.2084 - val_reconstruction_error: 54.3405 - val_regularization_error: 17.8680
Epoch 841/1000
120/120 [=====] - ETA: 0s - loss: 35.8985 - reconstruction_error: 16.7680 - regularization_error: 19.1305
[2023-12-02 14:47:16.715358]: Reconstructing images for epoch 841 ...
```



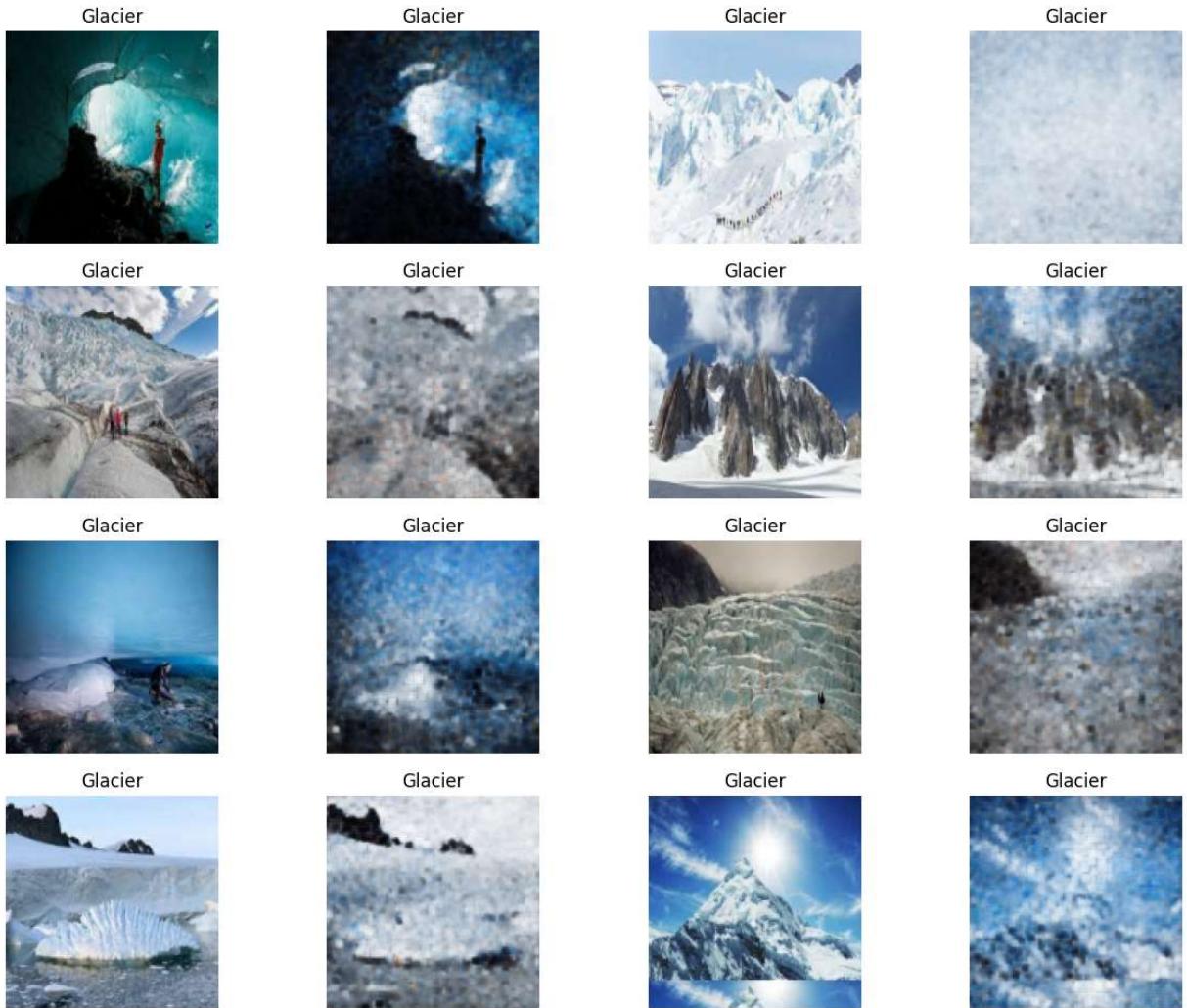
```
120/120 [=====] - 18s 150ms/step - loss: 35.8985 - reconstruction_error: 16.7680 - regularization_error: 19.1305 - val_loss: 72.3208 - val_reconstruction_error: 53.9332 - val_regularization_error: 18.3877
Epoch 842/1000
120/120 [=====] - 14s 113ms/step - loss: 35.9585 - reconstruction_error: 16.8622 - regularization_error: 19.0963 - val_loss: 72.0566 - val_reconstruction_error: 54.5751 - val_regularization_error: 17.4815
Epoch 843/1000
120/120 [=====] - 14s 113ms/step - loss: 36.0862 - reconstruction_error: 16.8640 - regularization_error: 19.2222 - val_loss: 72.3474 - val_reconstruction_error: 54.7327 - val_regularization_error: 17.6146
Epoch 844/1000
120/120 [=====] - 18s 147ms/step - loss: 36.3203 - reconstruction_error: 17.0328 - regularization_error: 19.2875 - val_loss: 71.2522 - val_reconstruction_error: 55.5640 - val_regularization_error: 15.6882
Epoch 845/1000
120/120 [=====] - 16s 133ms/step - loss: 35.9937 - reconstruction_error: 16.9092 - regularization_error: 19.0846 - val_loss: 72.4960 - val_reconstruction_error: 55.3309 - val_regularization_error: 17.1651
Epoch 846/1000
120/120 [=====] - 17s 137ms/step - loss: 35.8163 - reconstruction_error: 16.8027 - regularization_error: 19.0136 - val_loss: 72.8126 - val_reconstruction_error: 54.6126 - val_regularization_error: 18.2000
Epoch 847/1000
120/120 [=====] - 18s 147ms/step - loss: 35.9805 - reconstruction_error: 16.8419 - regularization_error: 19.1386 - val_loss: 71.3324 - val_reconstruction_error: 55.1789 - val_regularization_error: 16.1535
Epoch 848/1000
120/120 [=====] - 14s 115ms/step - loss: 36.1173 - reconstruction_error: 16.9101 - regularization_error: 19.2072 - val_loss: 71.4079 - val_reconstruction_error: 54.1465 - val_regularization_error: 17.2615
Epoch 849/1000
120/120 [=====] - 16s 131ms/step - loss: 35.9584 - reconstruction_error: 16.8398 - regularization_error: 19.1185 - val_loss: 70.9579 - val_reconstruction_error: 54.1479 - val_regularization_error: 16.8101
Epoch 850/1000
120/120 [=====] - 16s 130ms/step - loss: 35.8859 - reconstruction_error: 16.8648 - regularization_error: 19.0212 - val_loss: 73.1636 - val_reconstruction_error: 55.1167 - val_regularization_error: 18.0469
Epoch 851/1000
120/120 [=====] - ETA: 0s - loss: 36.0049 - reconstruction_error: 16.8803 - regularization_error: 19.1246
[2023-12-02 14:49:58.678147]: Reconstructing images for epoch 851 ...
```



```
120/120 [=====] - 19s 159ms/step - loss: 36.0049 - reconstruction_error: 16.8803 - regularization_error: 19.1246 - val_loss: 71.9190 - val_reconstruction_error: 54.3756 - val_regularization_error: 17.5434
Epoch 852/1000
120/120 [=====] - 15s 128ms/step - loss: 36.1962 - reconstruction_error: 16.9218 - regularization_error: 19.2744 - val_loss: 72.1256 - val_reconstruction_error: 54.5071 - val_regularization_error: 17.6184
Epoch 853/1000
120/120 [=====] - 16s 132ms/step - loss: 35.9202 - reconstruction_error: 16.8756 - regularization_error: 19.0446 - val_loss: 72.2582 - val_reconstruction_error: 54.9183 - val_regularization_error: 17.3399
Epoch 854/1000
120/120 [=====] - 16s 129ms/step - loss: 35.9967 - reconstruction_error: 16.8937 - regularization_error: 19.1030 - val_loss: 73.3341 - val_reconstruction_error: 55.2595 - val_regularization_error: 18.0746
Epoch 855/1000
120/120 [=====] - 15s 125ms/step - loss: 36.0224 - reconstruction_error: 16.8854 - regularization_error: 19.1371 - val_loss: 72.5737 - val_reconstruction_error: 55.1079 - val_regularization_error: 17.4658
Epoch 856/1000
120/120 [=====] - 15s 126ms/step - loss: 35.9283 - reconstruction_error: 16.7364 - regularization_error: 19.1919 - val_loss: 71.9087 - val_reconstruction_error: 54.5300 - val_regularization_error: 17.3787
Epoch 857/1000
120/120 [=====] - 16s 134ms/step - loss: 35.8815 - reconstruction_error: 16.7927 - regularization_error: 19.0887 - val_loss: 73.6741 - val_reconstruction_error: 55.1537 - val_regularization_error: 18.5204
Epoch 858/1000
120/120 [=====] - 18s 148ms/step - loss: 35.9616 - reconstruction_error: 16.7712 - regularization_error: 19.1904 - val_loss: 72.2703 - val_reconstruction_error: 55.1543 - val_regularization_error: 17.1160
Epoch 859/1000
120/120 [=====] - 18s 142ms/step - loss: 36.0395 - reconstruction_error: 16.8334 - regularization_error: 19.2061 - val_loss: 72.1786 - val_reconstruction_error: 54.4937 - val_regularization_error: 17.6849
Epoch 860/1000
120/120 [=====] - 17s 138ms/step - loss: 36.0664 - reconstruction_error: 16.8319 - regularization_error: 19.2345 - val_loss: 72.6048 - val_reconstruction_error: 55.3697 - val_regularization_error: 17.2350
Epoch 861/1000
120/120 [=====] - ETA: 0s - loss: 35.8498 - reconstruction_error: 16.7998 - regularization_error: 19.0499
[2023-12-02 14:52:47.392533]: Reconstructing images for epoch 861 ...
```



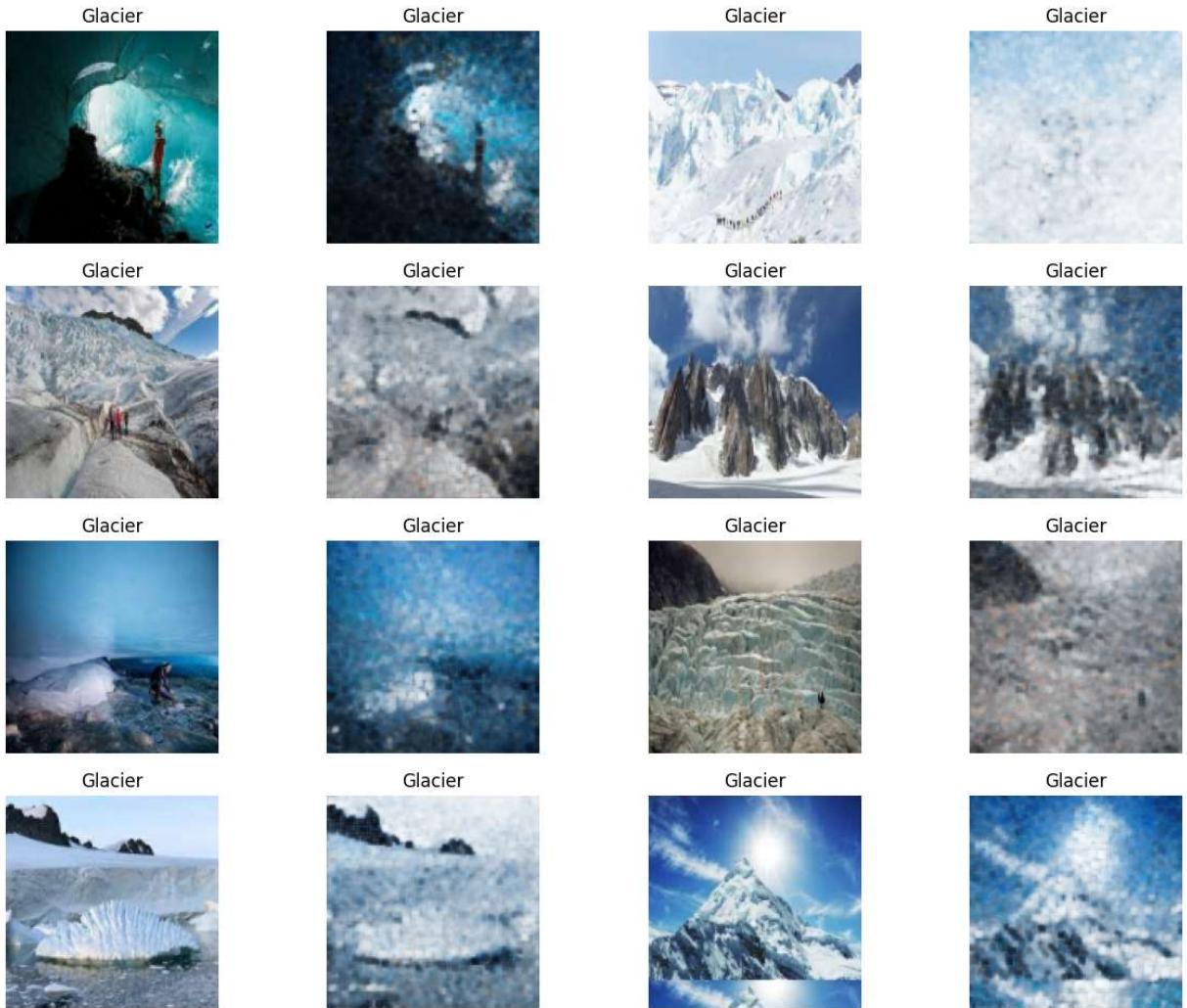
```
120/120 [=====] - 19s 155ms/step - loss: 35.8498 - reconstruction_error: 16.7998 - regularization_error: 19.0499 - val_loss: 72.7016 - val_reconstruction_error: 55.1583 - val_regularization_error: 17.5433
Epoch 862/1000
120/120 [=====] - 17s 139ms/step - loss: 36.1041 - reconstruction_error: 16.9252 - regularization_error: 19.1789 - val_loss: 73.5086 - val_reconstruction_error: 56.5639 - val_regularization_error: 16.9448
Epoch 863/1000
120/120 [=====] - 13s 106ms/step - loss: 36.0684 - reconstruction_error: 16.8228 - regularization_error: 19.2455 - val_loss: 73.4343 - val_reconstruction_error: 54.7860 - val_regularization_error: 18.6483
Epoch 864/1000
120/120 [=====] - 18s 150ms/step - loss: 36.0452 - reconstruction_error: 16.8691 - regularization_error: 19.1761 - val_loss: 72.2159 - val_reconstruction_error: 54.6828 - val_regularization_error: 17.5331
Epoch 865/1000
120/120 [=====] - 16s 135ms/step - loss: 35.7787 - reconstruction_error: 16.6890 - regularization_error: 19.0898 - val_loss: 72.7377 - val_reconstruction_error: 55.8069 - val_regularization_error: 16.9308
Epoch 866/1000
120/120 [=====] - 16s 136ms/step - loss: 35.8844 - reconstruction_error: 16.7812 - regularization_error: 19.1032 - val_loss: 71.6477 - val_reconstruction_error: 54.6588 - val_regularization_error: 16.9889
Epoch 867/1000
120/120 [=====] - 19s 157ms/step - loss: 36.0391 - reconstruction_error: 16.9073 - regularization_error: 19.1318 - val_loss: 71.9556 - val_reconstruction_error: 54.8094 - val_regularization_error: 17.1462
Epoch 868/1000
120/120 [=====] - 17s 140ms/step - loss: 35.9963 - reconstruction_error: 16.9039 - regularization_error: 19.0924 - val_loss: 71.7556 - val_reconstruction_error: 54.6671 - val_regularization_error: 17.0886
Epoch 869/1000
120/120 [=====] - 17s 140ms/step - loss: 35.8620 - reconstruction_error: 16.7732 - regularization_error: 19.0888 - val_loss: 72.2529 - val_reconstruction_error: 54.8688 - val_regularization_error: 17.3841
Epoch 870/1000
120/120 [=====] - 15s 124ms/step - loss: 35.9847 - reconstruction_error: 16.7299 - regularization_error: 19.2549 - val_loss: 74.0883 - val_reconstruction_error: 55.5799 - val_regularization_error: 18.5084
Epoch 871/1000
120/120 [=====] - ETA: 0s - loss: 35.9267 - reconstruction_error: 16.8000 - regularization_error: 19.1267
[2023-12-02 14:55:39.955480]: Reconstructing images for epoch 871 ...
```



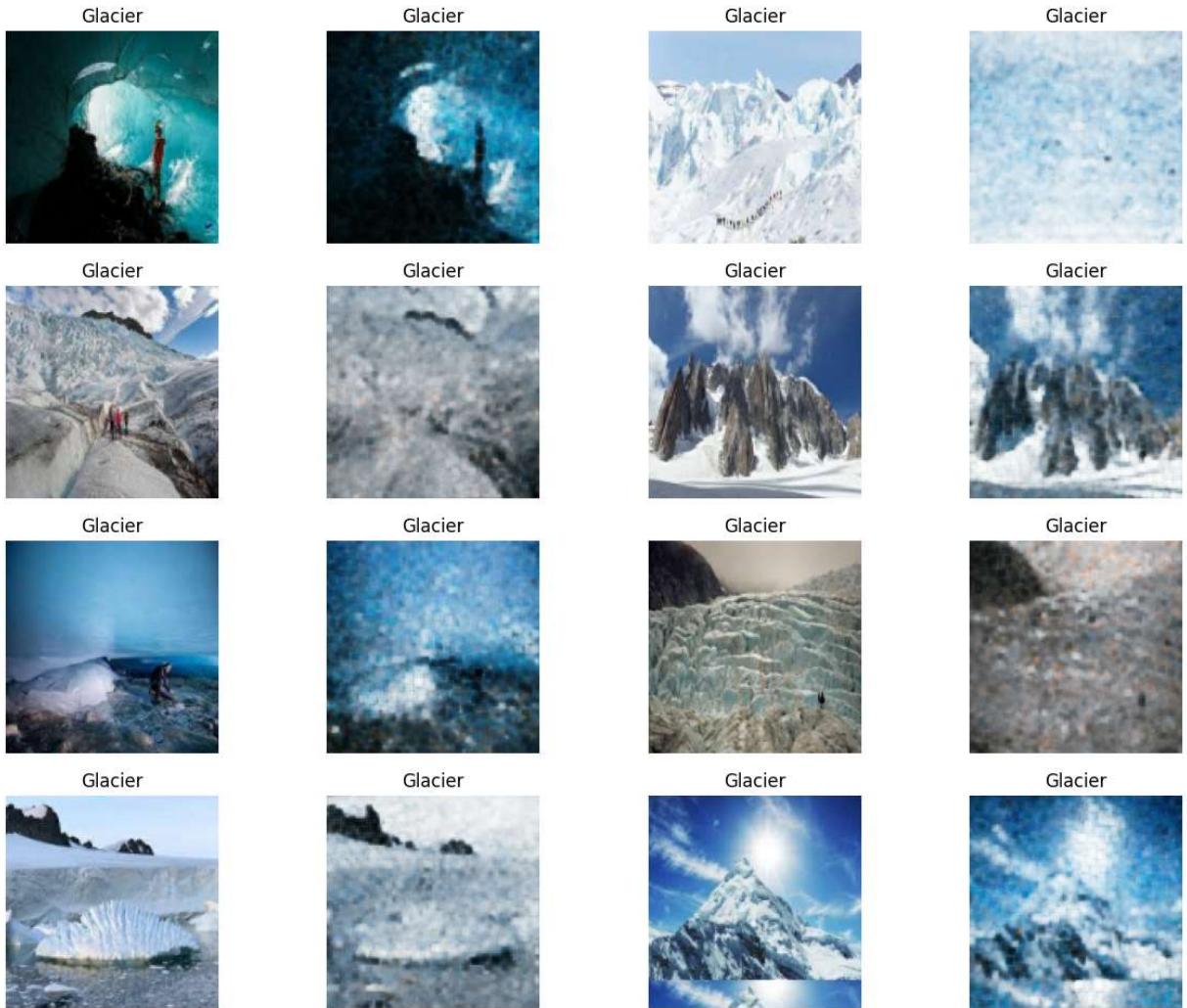
```
120/120 [=====] - 22s 180ms/step - loss: 35.9267 - reconstruction_error: 16.8000 - regularization_error: 19.1267 - val_loss: 72.5471 - val_reconstruction_error: 55.0920 - val_regularization_error: 17.4551
Epoch 872/1000
120/120 [=====] - 17s 141ms/step - loss: 35.7477 - reconstruction_error: 16.6154 - regularization_error: 19.1323 - val_loss: 72.0405 - val_reconstruction_error: 55.5213 - val_regularization_error: 16.5192
Epoch 873/1000
120/120 [=====] - 14s 116ms/step - loss: 35.9854 - reconstruction_error: 16.8353 - regularization_error: 19.1500 - val_loss: 72.1311 - val_reconstruction_error: 55.2081 - val_regularization_error: 16.9230
Epoch 874/1000
120/120 [=====] - 16s 131ms/step - loss: 35.9792 - reconstruction_error: 16.7628 - regularization_error: 19.2165 - val_loss: 72.2450 - val_reconstruction_error: 55.2439 - val_regularization_error: 17.0011
Epoch 875/1000
120/120 [=====] - 16s 134ms/step - loss: 36.0118 - reconstruction_error: 16.7905 - regularization_error: 19.2213 - val_loss: 73.0092 - val_reconstruction_error: 55.1599 - val_regularization_error: 17.8493
Epoch 876/1000
120/120 [=====] - 16s 135ms/step - loss: 35.8601 - reconstruction_error: 16.7374 - regularization_error: 19.1228 - val_loss: 72.6210 - val_reconstruction_error: 55.0313 - val_regularization_error: 17.5898
Epoch 877/1000
120/120 [=====] - 13s 107ms/step - loss: 35.7534 - reconstruction_error: 16.6394 - regularization_error: 19.1140 - val_loss: 71.7590 - val_reconstruction_error: 54.7182 - val_regularization_error: 17.0409
Epoch 878/1000
120/120 [=====] - 14s 116ms/step - loss: 35.7323 - reconstruction_error: 16.6549 - regularization_error: 19.0773 - val_loss: 71.9999 - val_reconstruction_error: 55.2497 - val_regularization_error: 16.7502
Epoch 879/1000
120/120 [=====] - 13s 110ms/step - loss: 35.8732 - reconstruction_error: 16.7589 - regularization_error: 19.1144 - val_loss: 74.4744 - val_reconstruction_error: 55.9876 - val_regularization_error: 18.4868
Epoch 880/1000
120/120 [=====] - 16s 132ms/step - loss: 35.8435 - reconstruction_error: 16.7283 - regularization_error: 19.1153 - val_loss: 72.9230 - val_reconstruction_error: 54.6962 - val_regularization_error: 18.2268
Epoch 881/1000
120/120 [=====] - ETA: 0s - loss: 35.9485 - reconstruction_error: 16.7483 - regularization_error: 19.2002
[2023-12-02 14:58:20.380437]: Reconstructing images for epoch 881 ...
```



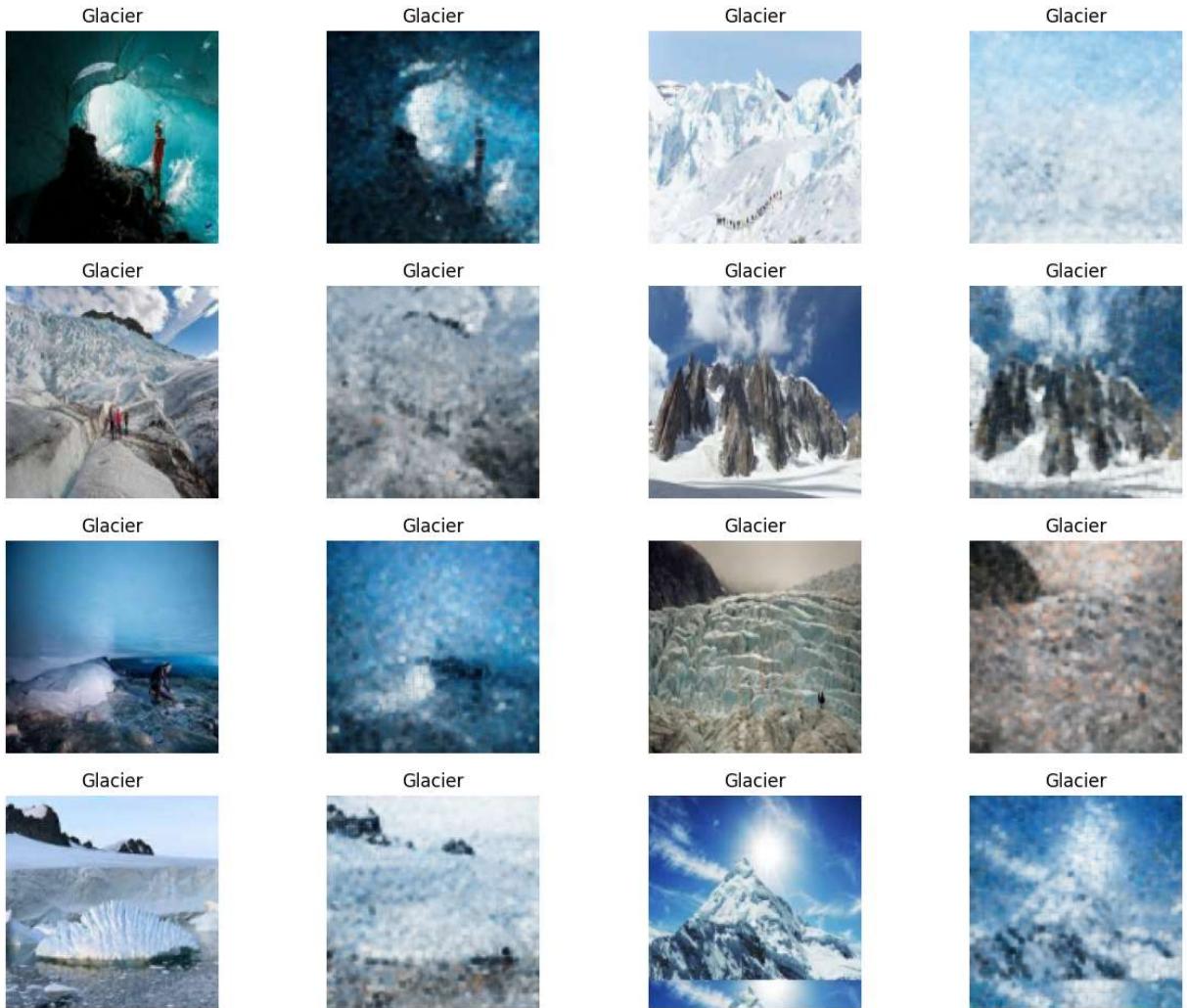
```
120/120 [=====] - 22s 186ms/step - loss: 35.9485 - reconstruction_error: 16.7483 - regularization_error: 19.2002 - val_loss: 72.2598 - val_reconstruction_error: 55.7145 - val_regularization_error: 16.5453
Epoch 882/1000
120/120 [=====] - 17s 142ms/step - loss: 36.0303 - reconstruction_error: 16.8388 - regularization_error: 19.1915 - val_loss: 71.9107 - val_reconstruction_error: 54.5834 - val_regularization_error: 17.3272
Epoch 883/1000
120/120 [=====] - 17s 144ms/step - loss: 36.0091 - reconstruction_error: 16.7773 - regularization_error: 19.2318 - val_loss: 70.8329 - val_reconstruction_error: 54.5117 - val_regularization_error: 16.3211
Epoch 884/1000
120/120 [=====] - 17s 140ms/step - loss: 35.9510 - reconstruction_error: 16.7612 - regularization_error: 19.1898 - val_loss: 70.9870 - val_reconstruction_error: 53.5836 - val_regularization_error: 17.4034
Epoch 885/1000
120/120 [=====] - 21s 170ms/step - loss: 35.9423 - reconstruction_error: 16.7933 - regularization_error: 19.1491 - val_loss: 71.8609 - val_reconstruction_error: 54.4132 - val_regularization_error: 17.4477
Epoch 886/1000
120/120 [=====] - 19s 155ms/step - loss: 35.9445 - reconstruction_error: 16.6792 - regularization_error: 19.2653 - val_loss: 72.4296 - val_reconstruction_error: 54.5245 - val_regularization_error: 17.9051
Epoch 887/1000
120/120 [=====] - 20s 168ms/step - loss: 35.7366 - reconstruction_error: 16.6524 - regularization_error: 19.0841 - val_loss: 72.3962 - val_reconstruction_error: 55.2628 - val_regularization_error: 17.1334
Epoch 888/1000
120/120 [=====] - 18s 150ms/step - loss: 35.9480 - reconstruction_error: 16.7403 - regularization_error: 19.2077 - val_loss: 71.7678 - val_reconstruction_error: 53.7866 - val_regularization_error: 17.9812
Epoch 889/1000
120/120 [=====] - 13s 112ms/step - loss: 35.8752 - reconstruction_error: 16.7009 - regularization_error: 19.1742 - val_loss: 72.0452 - val_reconstruction_error: 55.3732 - val_regularization_error: 16.6720
Epoch 890/1000
120/120 [=====] - 14s 118ms/step - loss: 35.6964 - reconstruction_error: 16.6048 - regularization_error: 19.0915 - val_loss: 71.7999 - val_reconstruction_error: 55.1221 - val_regularization_error: 16.6778
Epoch 891/1000
120/120 [=====] - ETA: 0s - loss: 35.6704 - reconstruction_error: 16.6388 - regularization_error: 19.0316
[2023-12-02 15:01:15.656323]: Reconstructing images for epoch 891 ...
```



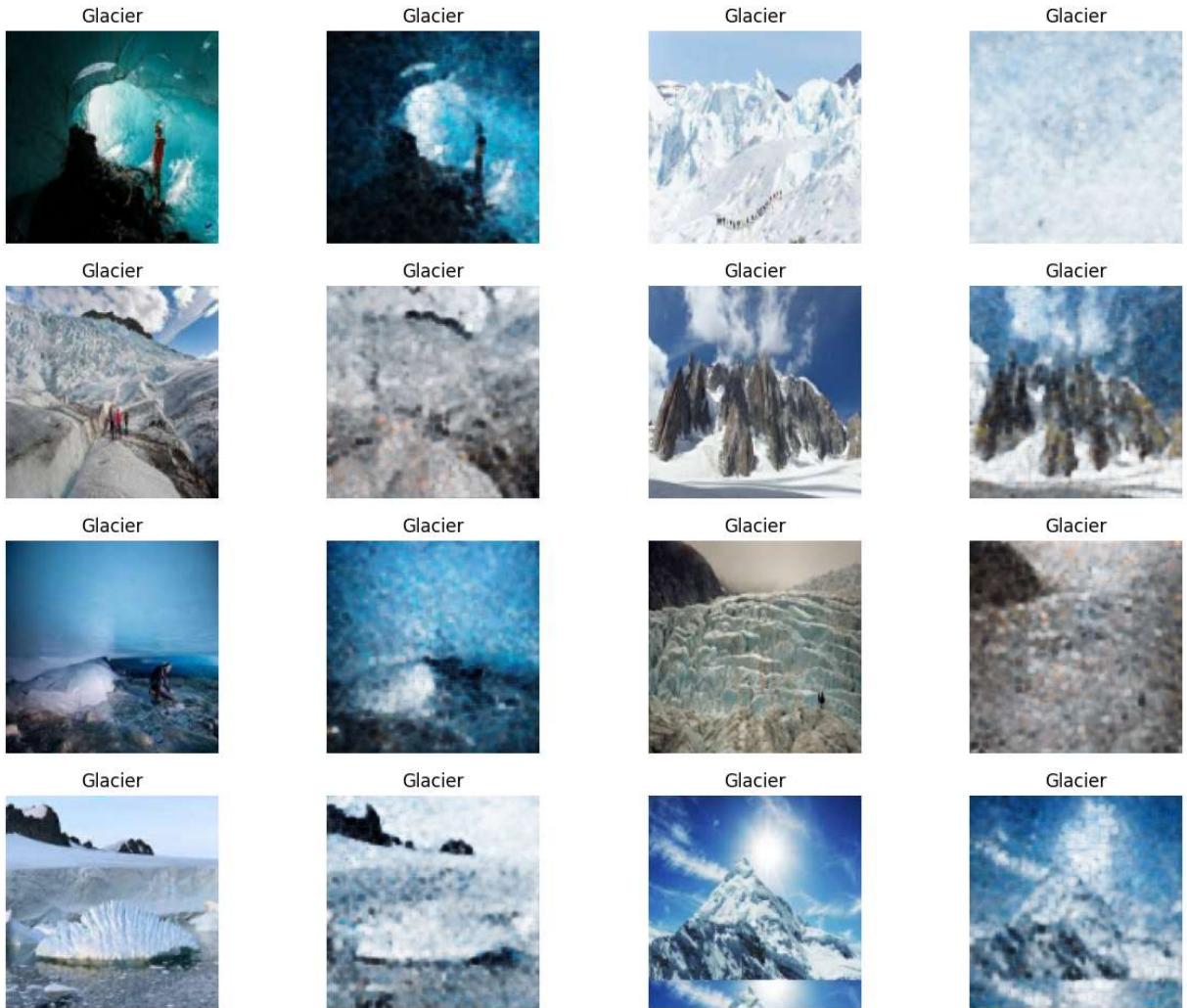
```
120/120 [=====] - 18s 149ms/step - loss: 35.6704 - reconstruction_error: 16.6388 - regularization_error: 19.0316 - val_loss: 72.7264 - val_reconstruction_error: 55.3486 - val_regularization_error: 17.3778
Epoch 892/1000
120/120 [=====] - 17s 143ms/step - loss: 35.7231 - reconstruction_error: 16.6359 - regularization_error: 19.0872 - val_loss: 72.5748 - val_reconstruction_error: 54.7341 - val_regularization_error: 17.8407
Epoch 893/1000
120/120 [=====] - 16s 132ms/step - loss: 35.7858 - reconstruction_error: 16.5870 - regularization_error: 19.1988 - val_loss: 73.4227 - val_reconstruction_error: 55.5715 - val_regularization_error: 17.8512
Epoch 894/1000
120/120 [=====] - 18s 147ms/step - loss: 35.7703 - reconstruction_error: 16.5591 - regularization_error: 19.2112 - val_loss: 73.0528 - val_reconstruction_error: 55.3806 - val_regularization_error: 17.6722
Epoch 895/1000
120/120 [=====] - 16s 130ms/step - loss: 35.8161 - reconstruction_error: 16.6565 - regularization_error: 19.1596 - val_loss: 71.4382 - val_reconstruction_error: 54.4951 - val_regularization_error: 16.9431
Epoch 896/1000
120/120 [=====] - 16s 129ms/step - loss: 36.0512 - reconstruction_error: 16.7083 - regularization_error: 19.3429 - val_loss: 72.1388 - val_reconstruction_error: 54.7318 - val_regularization_error: 17.4069
Epoch 897/1000
120/120 [=====] - 18s 149ms/step - loss: 35.8476 - reconstruction_error: 16.7464 - regularization_error: 19.1012 - val_loss: 72.5887 - val_reconstruction_error: 55.1846 - val_regularization_error: 17.4040
Epoch 898/1000
120/120 [=====] - 18s 150ms/step - loss: 35.6196 - reconstruction_error: 16.5617 - regularization_error: 19.0579 - val_loss: 72.8452 - val_reconstruction_error: 55.5159 - val_regularization_error: 17.3293
Epoch 899/1000
120/120 [=====] - 16s 130ms/step - loss: 35.9402 - reconstruction_error: 16.8302 - regularization_error: 19.1100 - val_loss: 72.7918 - val_reconstruction_error: 54.5552 - val_regularization_error: 18.2365
Epoch 900/1000
120/120 [=====] - 18s 146ms/step - loss: 35.8618 - reconstruction_error: 16.6920 - regularization_error: 19.1698 - val_loss: 73.0144 - val_reconstruction_error: 55.1233 - val_regularization_error: 17.8911
Epoch 901/1000
120/120 [=====] - ETA: 0s - loss: 35.8319 - reconstruction_error: 16.5908 - regularization_error: 19.2410
[2023-12-02 15:04:08.751439]: Reconstructing images for epoch 901 ...
```



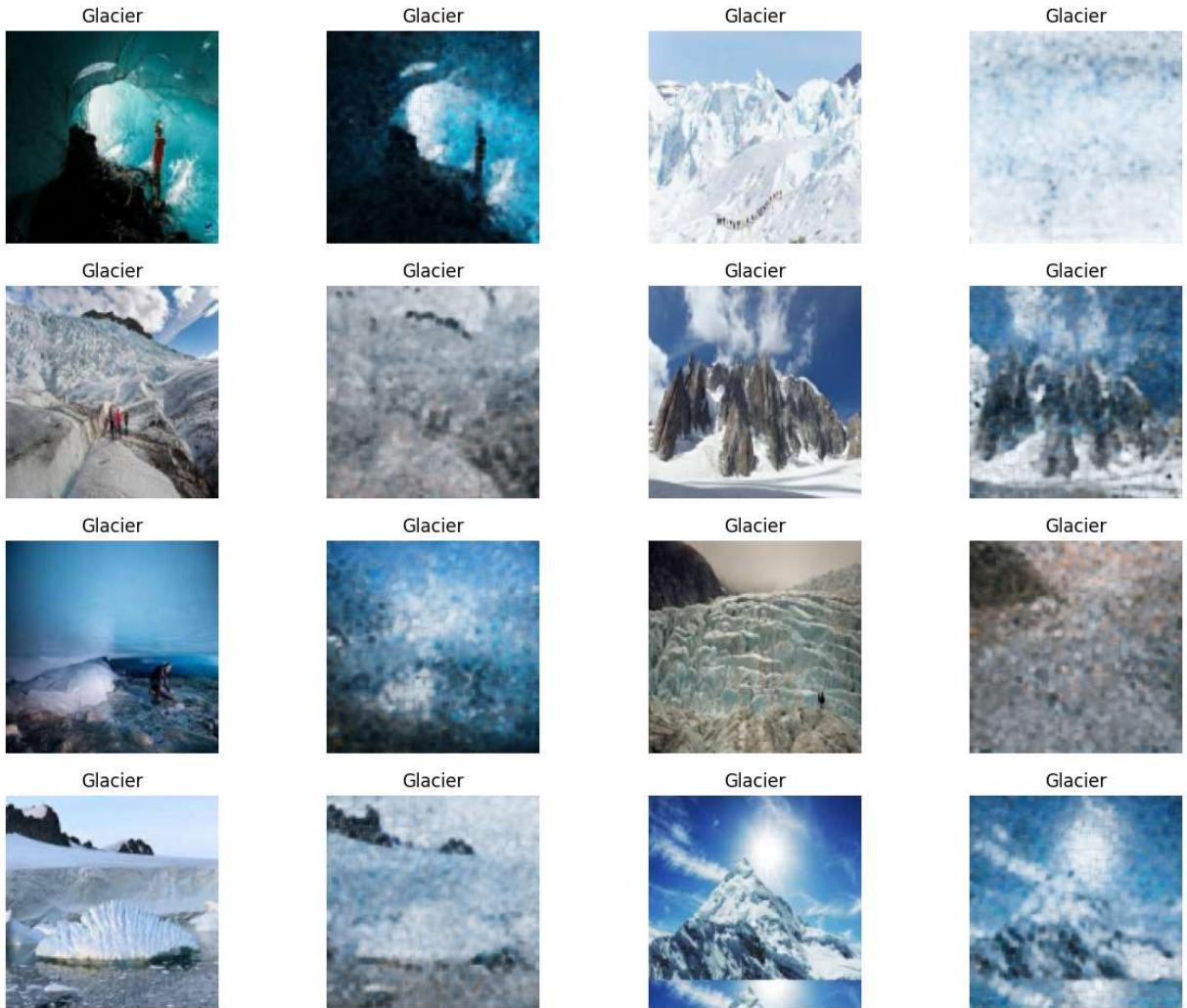
```
120/120 [=====] - 20s 161ms/step - loss: 35.8319 - reconstruction_error: 16.5908 - regularization_error: 19.2410 - val_loss: 72.6491 - val_reconstruction_error: 54.6414 - val_regularization_error: 18.0077
Epoch 902/1000
120/120 [=====] - 20s 166ms/step - loss: 35.7500 - reconstruction_error: 16.6343 - regularization_error: 19.1157 - val_loss: 72.3091 - val_reconstruction_error: 54.7896 - val_regularization_error: 17.5194
Epoch 903/1000
120/120 [=====] - 17s 140ms/step - loss: 35.8431 - reconstruction_error: 16.6272 - regularization_error: 19.2159 - val_loss: 72.1502 - val_reconstruction_error: 55.1919 - val_regularization_error: 16.9583
Epoch 904/1000
120/120 [=====] - 17s 137ms/step - loss: 35.8717 - reconstruction_error: 16.6383 - regularization_error: 19.2334 - val_loss: 71.7567 - val_reconstruction_error: 54.5221 - val_regularization_error: 17.2346
Epoch 905/1000
120/120 [=====] - 13s 105ms/step - loss: 35.8077 - reconstruction_error: 16.6580 - regularization_error: 19.1497 - val_loss: 73.9216 - val_reconstruction_error: 56.5230 - val_regularization_error: 17.3986
Epoch 906/1000
120/120 [=====] - 15s 122ms/step - loss: 35.8900 - reconstruction_error: 16.6389 - regularization_error: 19.2511 - val_loss: 73.4129 - val_reconstruction_error: 55.2868 - val_regularization_error: 18.1261
Epoch 907/1000
120/120 [=====] - 18s 150ms/step - loss: 35.5246 - reconstruction_error: 16.4719 - regularization_error: 19.0527 - val_loss: 72.0777 - val_reconstruction_error: 54.5404 - val_regularization_error: 17.5373
Epoch 908/1000
120/120 [=====] - 18s 149ms/step - loss: 35.7799 - reconstruction_error: 16.6987 - regularization_error: 19.0812 - val_loss: 71.8820 - val_reconstruction_error: 54.9650 - val_regularization_error: 16.9169
Epoch 909/1000
120/120 [=====] - 16s 135ms/step - loss: 35.8681 - reconstruction_error: 16.7210 - regularization_error: 19.1470 - val_loss: 73.8773 - val_reconstruction_error: 55.7991 - val_regularization_error: 18.0782
Epoch 910/1000
120/120 [=====] - 15s 127ms/step - loss: 35.7989 - reconstruction_error: 16.6682 - regularization_error: 19.1307 - val_loss: 71.9492 - val_reconstruction_error: 54.9944 - val_regularization_error: 16.9547
Epoch 911/1000
120/120 [=====] - ETA: 0s - loss: 35.6536 - reconstruction_error: 16.5807 - regularization_error: 19.0729
[2023-12-02 15:07:00.014844]: Reconstructing images for epoch 911 ...
```



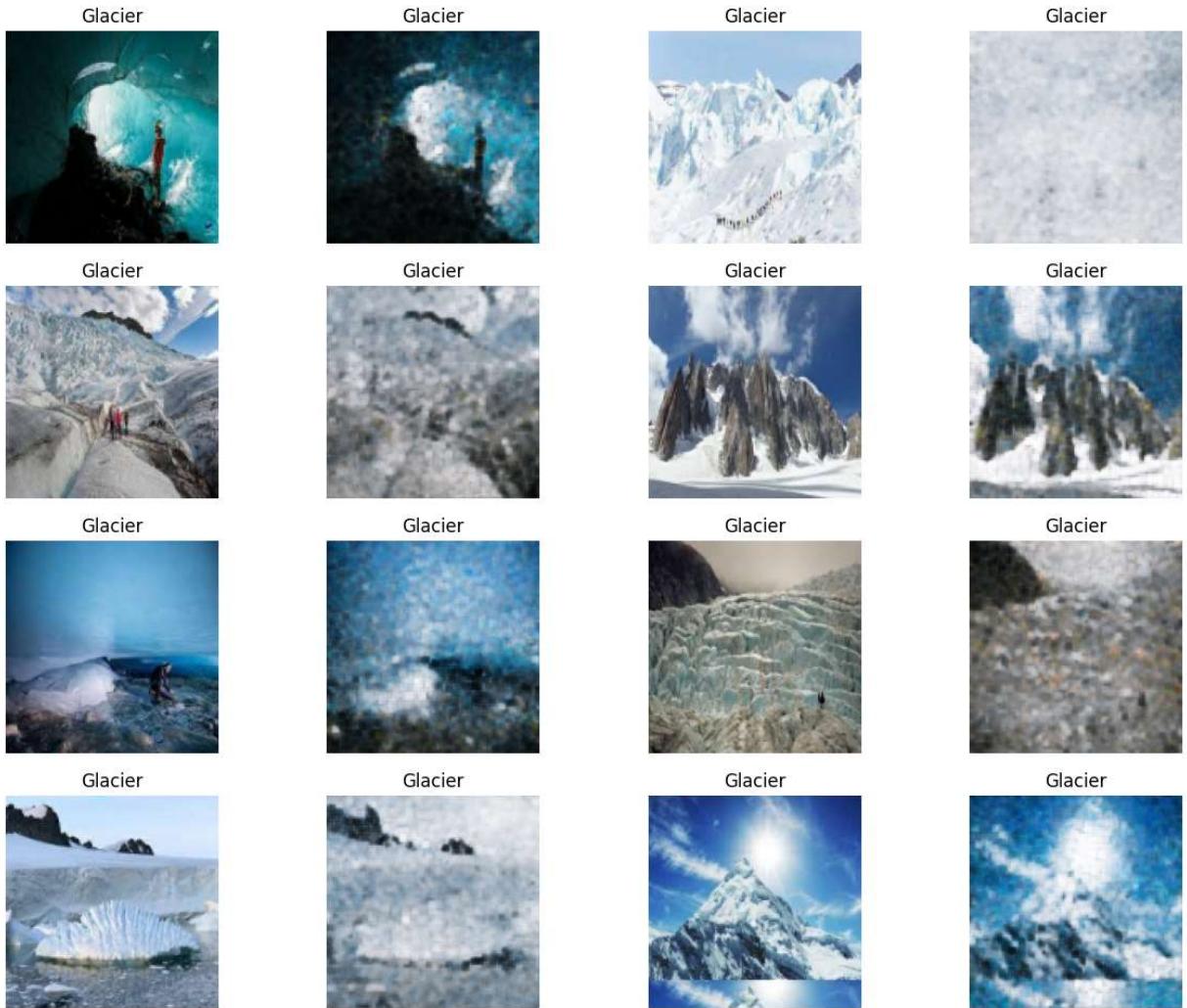
```
120/120 [=====] - 20s 165ms/step - loss: 35.6536 - reconstruction_error: 16.5807 - regularization_error: 19.0729 - val_loss: 72.2751 - val_reconstruction_error: 55.8179 - val_regularization_error: 16.4572
Epoch 912/1000
120/120 [=====] - 15s 125ms/step - loss: 35.5382 - reconstruction_error: 16.5148 - regularization_error: 19.0234 - val_loss: 73.8277 - val_reconstruction_error: 55.8871 - val_regularization_error: 17.9406
Epoch 913/1000
120/120 [=====] - 14s 116ms/step - loss: 35.7517 - reconstruction_error: 16.6264 - regularization_error: 19.1253 - val_loss: 71.7861 - val_reconstruction_error: 54.6681 - val_regularization_error: 17.1180
Epoch 914/1000
120/120 [=====] - 16s 134ms/step - loss: 35.7734 - reconstruction_error: 16.6422 - regularization_error: 19.1312 - val_loss: 71.9345 - val_reconstruction_error: 55.5271 - val_regularization_error: 16.4074
Epoch 915/1000
120/120 [=====] - 15s 127ms/step - loss: 35.6052 - reconstruction_error: 16.5981 - regularization_error: 19.0072 - val_loss: 71.7301 - val_reconstruction_error: 54.4480 - val_regularization_error: 17.2821
Epoch 916/1000
120/120 [=====] - 20s 161ms/step - loss: 35.6423 - reconstruction_error: 16.5176 - regularization_error: 19.1247 - val_loss: 72.0289 - val_reconstruction_error: 55.1170 - val_regularization_error: 16.9119
Epoch 917/1000
120/120 [=====] - 19s 160ms/step - loss: 35.5750 - reconstruction_error: 16.5154 - regularization_error: 19.0596 - val_loss: 73.0322 - val_reconstruction_error: 55.4017 - val_regularization_error: 17.6306
Epoch 918/1000
120/120 [=====] - 19s 156ms/step - loss: 35.6707 - reconstruction_error: 16.5867 - regularization_error: 19.0840 - val_loss: 72.7343 - val_reconstruction_error: 55.3978 - val_regularization_error: 17.3365
Epoch 919/1000
120/120 [=====] - 14s 117ms/step - loss: 35.5830 - reconstruction_error: 16.5505 - regularization_error: 19.0325 - val_loss: 72.0441 - val_reconstruction_error: 55.0692 - val_regularization_error: 16.9750
Epoch 920/1000
120/120 [=====] - 16s 133ms/step - loss: 35.9657 - reconstruction_error: 16.7783 - regularization_error: 19.1874 - val_loss: 72.8559 - val_reconstruction_error: 55.5459 - val_regularization_error: 17.3099
Epoch 921/1000
120/120 [=====] - ETA: 0s - loss: 35.5345 - reconstruction_error: 16.4551 - regularization_error: 19.0794
[2023-12-02 15:09:49.190829]: Reconstructing images for epoch 921 ...
```



```
120/120 [=====] - 20s 163ms/step - loss: 35.5345 - reconstruction_error: 16.4551 - regularization_error: 19.0794 - val_loss: 73.1078 - val_reconstruction_error: 55.9052 - val_regularization_error: 17.2026
Epoch 922/1000
120/120 [=====] - 15s 128ms/step - loss: 35.6514 - reconstruction_error: 16.5265 - regularization_error: 19.1248 - val_loss: 72.2415 - val_reconstruction_error: 54.5197 - val_regularization_error: 17.7218
Epoch 923/1000
120/120 [=====] - 17s 139ms/step - loss: 35.6734 - reconstruction_error: 16.5179 - regularization_error: 19.1555 - val_loss: 72.2949 - val_reconstruction_error: 54.8619 - val_regularization_error: 17.4330
Epoch 924/1000
120/120 [=====] - 18s 144ms/step - loss: 35.6883 - reconstruction_error: 16.5394 - regularization_error: 19.1489 - val_loss: 71.9544 - val_reconstruction_error: 55.2922 - val_regularization_error: 16.6622
Epoch 925/1000
120/120 [=====] - 14s 118ms/step - loss: 35.7622 - reconstruction_error: 16.6035 - regularization_error: 19.1588 - val_loss: 71.5534 - val_reconstruction_error: 53.7493 - val_regularization_error: 17.8041
Epoch 926/1000
120/120 [=====] - 15s 125ms/step - loss: 35.6405 - reconstruction_error: 16.5207 - regularization_error: 19.1198 - val_loss: 72.3359 - val_reconstruction_error: 54.8061 - val_regularization_error: 17.5299
Epoch 927/1000
120/120 [=====] - 14s 113ms/step - loss: 35.7990 - reconstruction_error: 16.6161 - regularization_error: 19.1829 - val_loss: 71.9930 - val_reconstruction_error: 55.1951 - val_regularization_error: 16.7979
Epoch 928/1000
120/120 [=====] - 18s 147ms/step - loss: 35.5903 - reconstruction_error: 16.5590 - regularization_error: 19.0313 - val_loss: 72.6527 - val_reconstruction_error: 55.4056 - val_regularization_error: 17.2472
Epoch 929/1000
120/120 [=====] - 16s 129ms/step - loss: 35.5935 - reconstruction_error: 16.5293 - regularization_error: 19.0642 - val_loss: 73.6046 - val_reconstruction_error: 55.9426 - val_regularization_error: 17.6620
Epoch 930/1000
120/120 [=====] - 16s 134ms/step - loss: 35.5307 - reconstruction_error: 16.4221 - regularization_error: 19.1086 - val_loss: 72.2451 - val_reconstruction_error: 54.9688 - val_regularization_error: 17.2763
Epoch 931/1000
120/120 [=====] - ETA: 0s - loss: 35.6363 - reconstruction_error: 16.4465 - regularization_error: 19.1898
[2023-12-02 15:12:32.351890]: Reconstructing images for epoch 931 ...
```



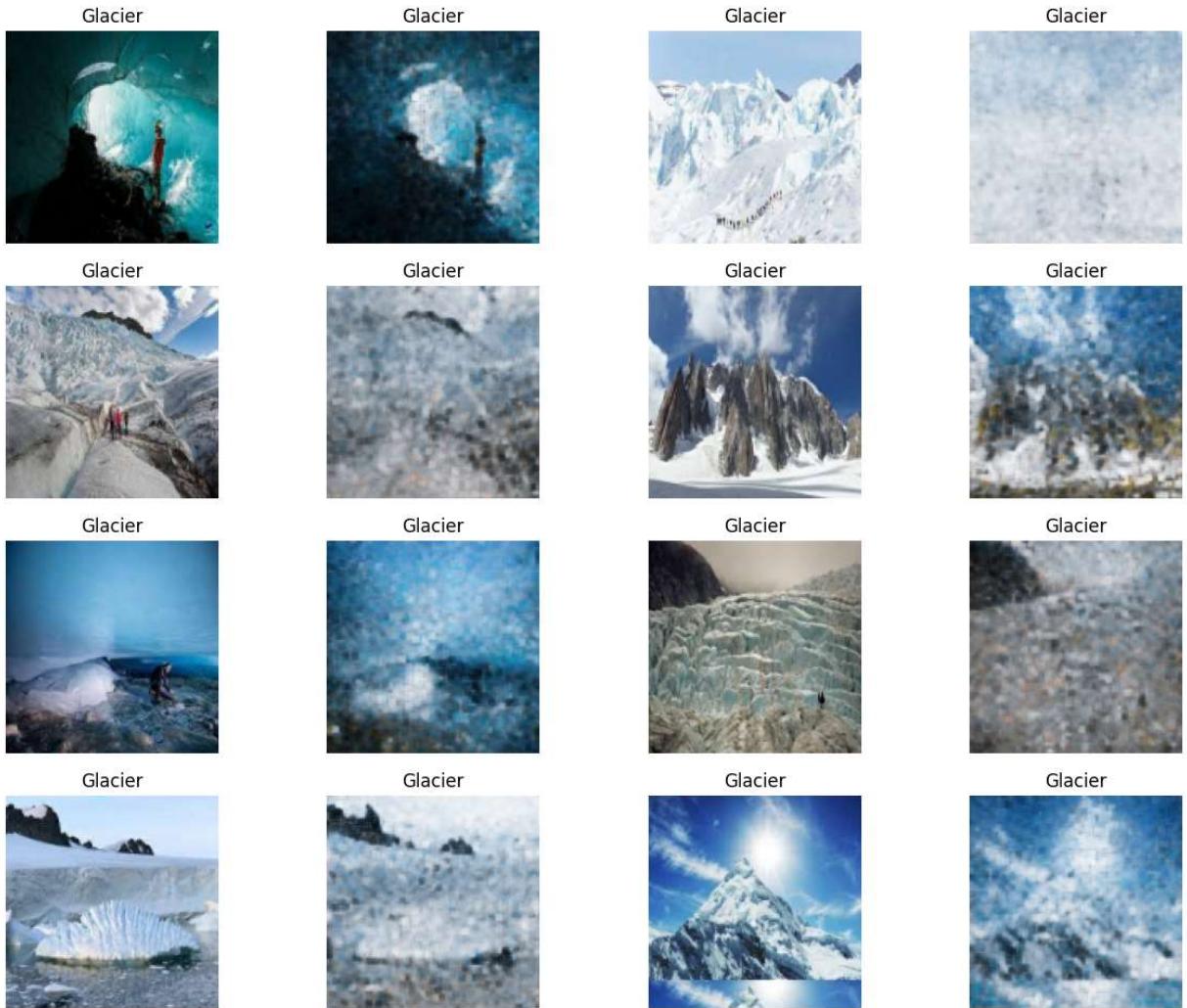
```
120/120 [=====] - 19s 155ms/step - loss: 35.6363 - reconstruction_error: 16.4465 - regularization_error: 19.1898 - val_loss: 71.5769 - val_reconstruction_error: 54.6348 - val_regularization_error: 16.9420
Epoch 932/1000
120/120 [=====] - 17s 139ms/step - loss: 35.5597 - reconstruction_error: 16.4960 - regularization_error: 19.0637 - val_loss: 73.5033 - val_reconstruction_error: 56.0560 - val_regularization_error: 17.4473
Epoch 933/1000
120/120 [=====] - 16s 132ms/step - loss: 35.6950 - reconstruction_error: 16.5551 - regularization_error: 19.1399 - val_loss: 72.1628 - val_reconstruction_error: 55.8249 - val_regularization_error: 16.3379
Epoch 934/1000
120/120 [=====] - 16s 136ms/step - loss: 35.7221 - reconstruction_error: 16.6553 - regularization_error: 19.0668 - val_loss: 73.5298 - val_reconstruction_error: 55.4463 - val_regularization_error: 18.0835
Epoch 935/1000
120/120 [=====] - 15s 123ms/step - loss: 35.7239 - reconstruction_error: 16.5610 - regularization_error: 19.1629 - val_loss: 72.9162 - val_reconstruction_error: 55.2778 - val_regularization_error: 17.6384
Epoch 936/1000
120/120 [=====] - 17s 142ms/step - loss: 35.3833 - reconstruction_error: 16.4095 - regularization_error: 18.9739 - val_loss: 73.3479 - val_reconstruction_error: 56.3161 - val_regularization_error: 17.0317
Epoch 937/1000
120/120 [=====] - 17s 142ms/step - loss: 35.4927 - reconstruction_error: 16.4445 - regularization_error: 19.0482 - val_loss: 73.0726 - val_reconstruction_error: 55.3330 - val_regularization_error: 17.7396
Epoch 938/1000
120/120 [=====] - 17s 143ms/step - loss: 35.8092 - reconstruction_error: 16.6268 - regularization_error: 19.1823 - val_loss: 73.3293 - val_reconstruction_error: 55.6180 - val_regularization_error: 17.7113
Epoch 939/1000
120/120 [=====] - 18s 149ms/step - loss: 35.6086 - reconstruction_error: 16.6127 - regularization_error: 18.9959 - val_loss: 72.4400 - val_reconstruction_error: 55.1373 - val_regularization_error: 17.3027
Epoch 940/1000
120/120 [=====] - 15s 122ms/step - loss: 35.5108 - reconstruction_error: 16.4898 - regularization_error: 19.0210 - val_loss: 71.8102 - val_reconstruction_error: 55.5568 - val_regularization_error: 16.2534
Epoch 941/1000
120/120 [=====] - ETA: 0s - loss: 35.5458 - reconstruction_error: 16.5530 - regularization_error: 18.9928
[2023-12-02 15:15:21.555475]: Reconstructing images for epoch 941 ...
```



```
120/120 [=====] - 19s 158ms/step - loss: 35.5458 - reconstruction_error: 16.5530 - regularization_error: 18.9928 - val_loss: 71.7593 - val_reconstruction_error: 54.1711 - val_regularization_error: 17.5882
Epoch 942/1000
120/120 [=====] - 15s 125ms/step - loss: 35.5937 - reconstruction_error: 16.4638 - regularization_error: 19.1299 - val_loss: 73.5225 - val_reconstruction_error: 55.7105 - val_regularization_error: 17.8120
Epoch 943/1000
120/120 [=====] - 16s 133ms/step - loss: 35.7064 - reconstruction_error: 16.4615 - regularization_error: 19.2449 - val_loss: 71.7249 - val_reconstruction_error: 54.9995 - val_regularization_error: 16.7254
Epoch 944/1000
120/120 [=====] - 17s 144ms/step - loss: 35.6796 - reconstruction_error: 16.5429 - regularization_error: 19.1367 - val_loss: 71.6372 - val_reconstruction_error: 54.8046 - val_regularization_error: 16.8327
Epoch 945/1000
120/120 [=====] - 17s 139ms/step - loss: 35.4467 - reconstruction_error: 16.3562 - regularization_error: 19.0906 - val_loss: 70.7581 - val_reconstruction_error: 54.2713 - val_regularization_error: 16.4868
Epoch 946/1000
120/120 [=====] - 16s 128ms/step - loss: 35.5372 - reconstruction_error: 16.4199 - regularization_error: 19.1173 - val_loss: 72.8597 - val_reconstruction_error: 55.6472 - val_regularization_error: 17.2125
Epoch 947/1000
120/120 [=====] - 15s 128ms/step - loss: 35.8095 - reconstruction_error: 16.5334 - regularization_error: 19.2761 - val_loss: 73.1309 - val_reconstruction_error: 55.5306 - val_regularization_error: 17.6004
Epoch 948/1000
120/120 [=====] - 19s 155ms/step - loss: 35.8390 - reconstruction_error: 16.6371 - regularization_error: 19.2020 - val_loss: 74.0223 - val_reconstruction_error: 56.5611 - val_regularization_error: 17.4611
Epoch 949/1000
120/120 [=====] - 16s 136ms/step - loss: 35.6073 - reconstruction_error: 16.4198 - regularization_error: 19.1875 - val_loss: 72.2433 - val_reconstruction_error: 55.6605 - val_regularization_error: 16.5828
Epoch 950/1000
120/120 [=====] - 15s 121ms/step - loss: 35.6247 - reconstruction_error: 16.4417 - regularization_error: 19.1830 - val_loss: 73.0059 - val_reconstruction_error: 55.9502 - val_regularization_error: 17.0557
Epoch 951/1000
120/120 [=====] - ETA: 0s - loss: 35.5105 - reconstruction_error: 16.5216 - regularization_error: 18.9889
[2023-12-02 15:18:07.986869]: Reconstructing images for epoch 951 ...
```



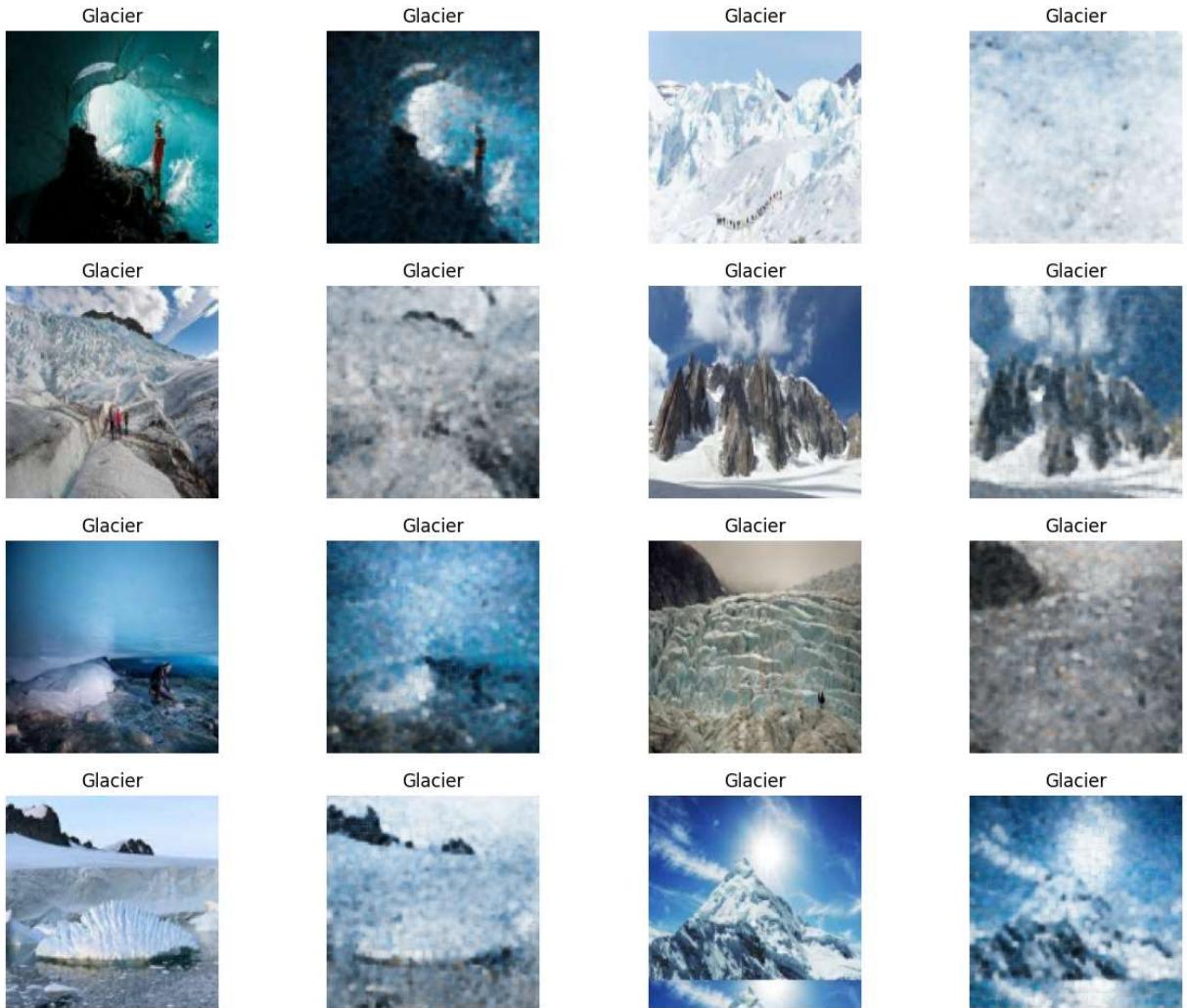
```
120/120 [=====] - 18s 153ms/step - loss: 35.5105 - reconstruction_error: 16.5216 - regularization_error: 18.9889 - val_loss: 74.0734 - val_reconstruction_error: 55.9359 - val_regularization_error: 18.1374
Epoch 952/1000
120/120 [=====] - 15s 125ms/step - loss: 35.4899 - reconstruction_error: 16.3925 - regularization_error: 19.0975 - val_loss: 71.4173 - val_reconstruction_error: 54.7285 - val_regularization_error: 16.6888
Epoch 953/1000
120/120 [=====] - 19s 156ms/step - loss: 35.6246 - reconstruction_error: 16.4664 - regularization_error: 19.1583 - val_loss: 72.5543 - val_reconstruction_error: 54.9052 - val_regularization_error: 17.6491
Epoch 954/1000
120/120 [=====] - 15s 121ms/step - loss: 35.4425 - reconstruction_error: 16.4436 - regularization_error: 18.9989 - val_loss: 71.7798 - val_reconstruction_error: 54.4973 - val_regularization_error: 17.2825
Epoch 955/1000
120/120 [=====] - 16s 133ms/step - loss: 35.5965 - reconstruction_error: 16.4296 - regularization_error: 19.1668 - val_loss: 71.8007 - val_reconstruction_error: 54.5853 - val_regularization_error: 17.2155
Epoch 956/1000
120/120 [=====] - 14s 116ms/step - loss: 35.4099 - reconstruction_error: 16.4258 - regularization_error: 18.9840 - val_loss: 73.0730 - val_reconstruction_error: 55.2850 - val_regularization_error: 17.7880
Epoch 957/1000
120/120 [=====] - 17s 145ms/step - loss: 35.4116 - reconstruction_error: 16.3044 - regularization_error: 19.1072 - val_loss: 72.4082 - val_reconstruction_error: 55.4392 - val_regularization_error: 16.9690
Epoch 958/1000
120/120 [=====] - 14s 113ms/step - loss: 35.5613 - reconstruction_error: 16.4490 - regularization_error: 19.1123 - val_loss: 72.6946 - val_reconstruction_error: 55.7787 - val_regularization_error: 16.9159
Epoch 959/1000
120/120 [=====] - 14s 112ms/step - loss: 35.4322 - reconstruction_error: 16.3011 - regularization_error: 19.1311 - val_loss: 73.2512 - val_reconstruction_error: 55.9452 - val_regularization_error: 17.3060
Epoch 960/1000
120/120 [=====] - 13s 110ms/step - loss: 35.5782 - reconstruction_error: 16.4345 - regularization_error: 19.1437 - val_loss: 71.5737 - val_reconstruction_error: 55.5177 - val_regularization_error: 16.0560
Epoch 961/1000
120/120 [=====] - ETA: 0s - loss: 35.5959 - reconstruction_error: 16.4879 - regularization_error: 19.1080
[2023-12-02 15:20:52.172969]: Reconstructing images for epoch 961 ...
```



```
120/120 [=====] - 22s 183ms/step - loss: 35.5959 - reconstruction_error: 16.4879 - regularization_error: 19.1080 - val_loss: 72.2938 - val_reconstruction_error: 55.6614 - val_regularization_error: 16.6325
Epoch 962/1000
120/120 [=====] - 15s 122ms/step - loss: 35.5310 - reconstruction_error: 16.3732 - regularization_error: 19.1578 - val_loss: 72.5780 - val_reconstruction_error: 55.5738 - val_regularization_error: 17.0042
Epoch 963/1000
120/120 [=====] - 15s 127ms/step - loss: 35.5675 - reconstruction_error: 16.4290 - regularization_error: 19.1385 - val_loss: 72.1596 - val_reconstruction_error: 54.8883 - val_regularization_error: 17.2713
Epoch 964/1000
120/120 [=====] - 16s 130ms/step - loss: 35.6043 - reconstruction_error: 16.3839 - regularization_error: 19.2204 - val_loss: 71.9234 - val_reconstruction_error: 54.4378 - val_regularization_error: 17.4856
Epoch 965/1000
120/120 [=====] - 16s 131ms/step - loss: 35.5160 - reconstruction_error: 16.5012 - regularization_error: 19.0148 - val_loss: 72.3475 - val_reconstruction_error: 53.9783 - val_regularization_error: 18.3692
Epoch 966/1000
120/120 [=====] - 14s 115ms/step - loss: 35.5082 - reconstruction_error: 16.4171 - regularization_error: 19.0911 - val_loss: 72.3591 - val_reconstruction_error: 54.4892 - val_regularization_error: 17.8700
Epoch 967/1000
120/120 [=====] - 18s 152ms/step - loss: 35.6029 - reconstruction_error: 16.4317 - regularization_error: 19.1712 - val_loss: 73.2451 - val_reconstruction_error: 54.8094 - val_regularization_error: 18.4357
Epoch 968/1000
120/120 [=====] - 15s 120ms/step - loss: 35.2306 - reconstruction_error: 16.2421 - regularization_error: 18.9885 - val_loss: 72.4994 - val_reconstruction_error: 55.3803 - val_regularization_error: 17.1191
Epoch 969/1000
120/120 [=====] - 16s 135ms/step - loss: 35.4180 - reconstruction_error: 16.3615 - regularization_error: 19.0565 - val_loss: 72.9218 - val_reconstruction_error: 55.5925 - val_regularization_error: 17.3293
Epoch 970/1000
120/120 [=====] - 16s 137ms/step - loss: 35.3590 - reconstruction_error: 16.3906 - regularization_error: 18.9684 - val_loss: 71.8599 - val_reconstruction_error: 54.9676 - val_regularization_error: 16.8924
Epoch 971/1000
120/120 [=====] - ETA: 0s - loss: 35.4438 - reconstruction_error: 16.3851 - regularization_error: 19.0587
[2023-12-02 15:23:33.062403]: Reconstructing images for epoch 971 ...
```



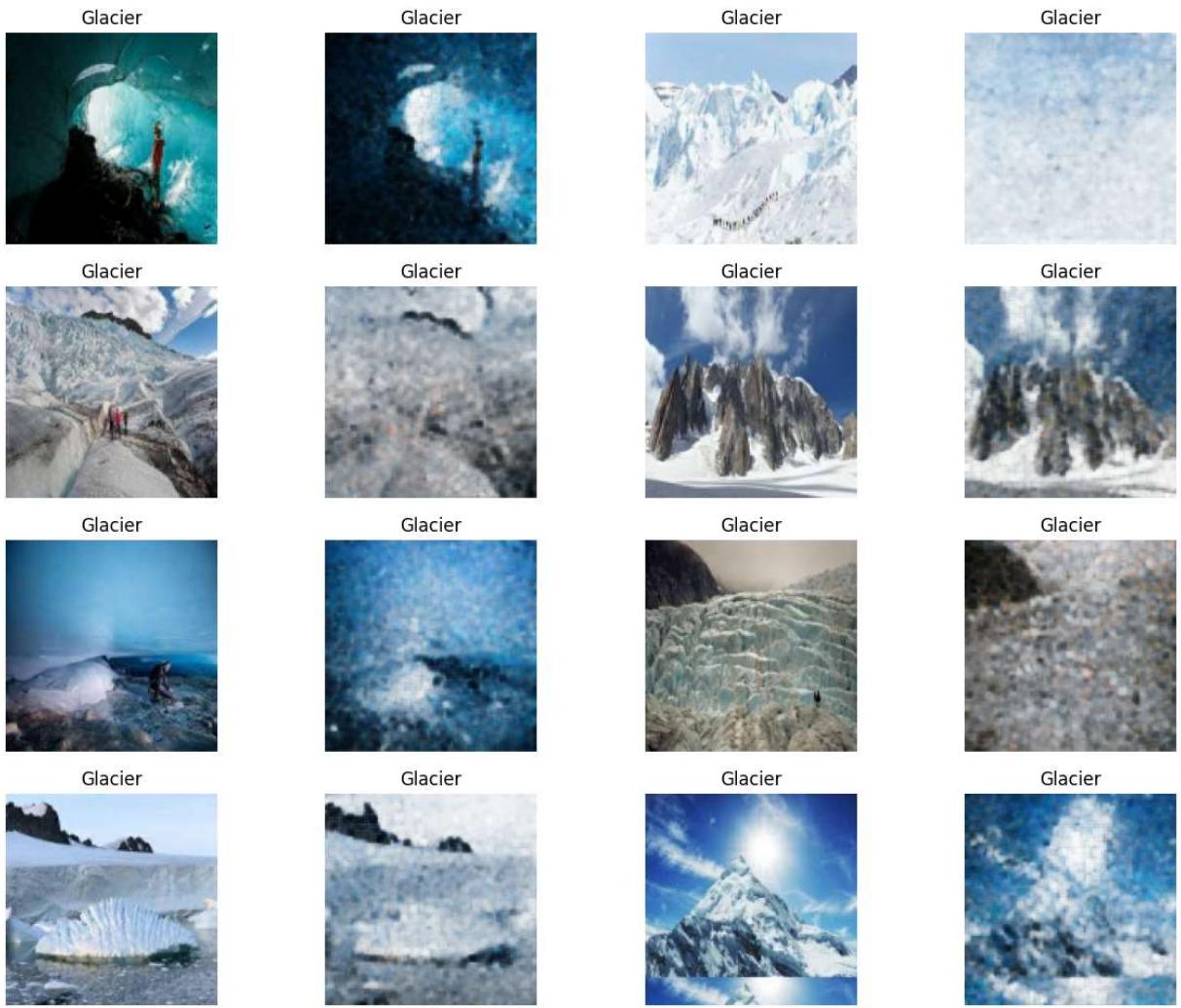
```
120/120 [=====] - 17s 143ms/step - loss: 35.4438 - reconstruction_error: 16.3851 - regularization_error: 19.0587 - val_loss: 71.9677 - val_reconstruction_error: 54.3278 - val_regularization_error: 17.6399
Epoch 972/1000
120/120 [=====] - 15s 121ms/step - loss: 35.4831 - reconstruction_error: 16.3658 - regularization_error: 19.1173 - val_loss: 73.8960 - val_reconstruction_error: 55.6636 - val_regularization_error: 18.2324
Epoch 973/1000
120/120 [=====] - 15s 125ms/step - loss: 35.6672 - reconstruction_error: 16.4538 - regularization_error: 19.2134 - val_loss: 74.2361 - val_reconstruction_error: 56.0550 - val_regularization_error: 18.1811
Epoch 974/1000
120/120 [=====] - 18s 150ms/step - loss: 35.4502 - reconstruction_error: 16.4734 - regularization_error: 18.9768 - val_loss: 72.6032 - val_reconstruction_error: 55.6292 - val_regularization_error: 16.9741
Epoch 975/1000
120/120 [=====] - 17s 139ms/step - loss: 35.4747 - reconstruction_error: 16.2871 - regularization_error: 19.1876 - val_loss: 71.9891 - val_reconstruction_error: 54.8254 - val_regularization_error: 17.1638
Epoch 976/1000
120/120 [=====] - 19s 158ms/step - loss: 35.2575 - reconstruction_error: 16.3107 - regularization_error: 18.9467 - val_loss: 73.8228 - val_reconstruction_error: 56.1972 - val_regularization_error: 17.6255
Epoch 977/1000
120/120 [=====] - 16s 129ms/step - loss: 35.5865 - reconstruction_error: 16.5429 - regularization_error: 19.0436 - val_loss: 72.8327 - val_reconstruction_error: 55.5374 - val_regularization_error: 17.2953
Epoch 978/1000
120/120 [=====] - 17s 138ms/step - loss: 35.3831 - reconstruction_error: 16.3015 - regularization_error: 19.0816 - val_loss: 72.4232 - val_reconstruction_error: 55.5839 - val_regularization_error: 16.8393
Epoch 979/1000
120/120 [=====] - 18s 145ms/step - loss: 35.2759 - reconstruction_error: 16.2659 - regularization_error: 19.0100 - val_loss: 73.2598 - val_reconstruction_error: 55.7388 - val_regularization_error: 17.5209
Epoch 980/1000
120/120 [=====] - 17s 142ms/step - loss: 35.4382 - reconstruction_error: 16.3888 - regularization_error: 19.0494 - val_loss: 72.8100 - val_reconstruction_error: 55.3004 - val_regularization_error: 17.5096
Epoch 981/1000
120/120 [=====] - ETA: 0s - loss: 35.4223 - reconstruction_error: 16.2902 - regularization_error: 19.1322
[2023-12-02 15:26:27.628572]: Reconstructing images for epoch 981 ...
```



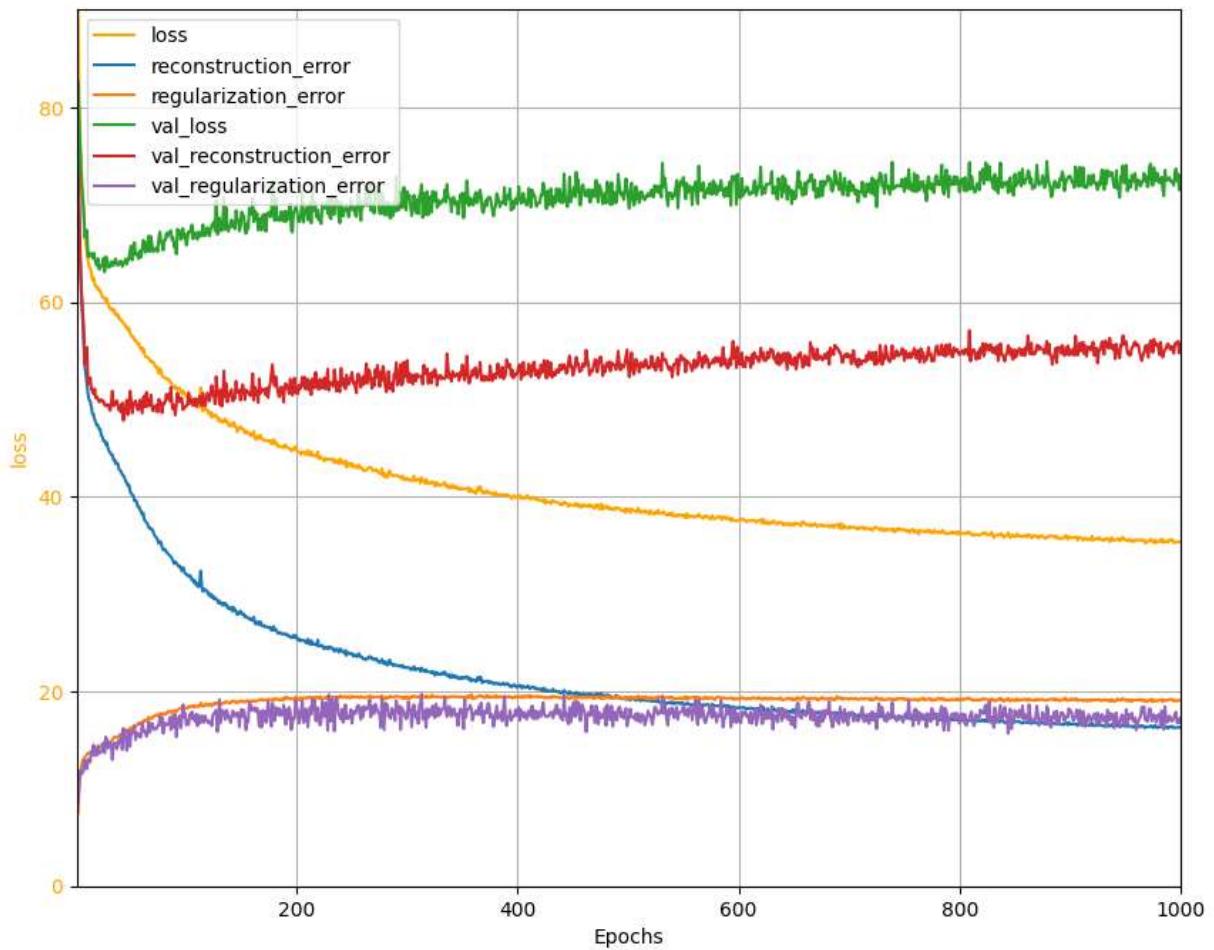
```
120/120 [=====] - 20s 164ms/step - loss: 35.4223 - reconstruction_error: 16.2902 - regularization_error: 19.1322 - val_loss: 72.2644 - val_reconstruction_error: 54.5912 - val_regularization_error: 17.6732
Epoch 982/1000
120/120 [=====] - 18s 153ms/step - loss: 35.5375 - reconstruction_error: 16.4262 - regularization_error: 19.1114 - val_loss: 72.3007 - val_reconstruction_error: 55.8817 - val_regularization_error: 16.4189
Epoch 983/1000
120/120 [=====] - 18s 152ms/step - loss: 35.6848 - reconstruction_error: 16.5083 - regularization_error: 19.1764 - val_loss: 72.8442 - val_reconstruction_error: 54.8201 - val_regularization_error: 18.0241
Epoch 984/1000
120/120 [=====] - 19s 157ms/step - loss: 35.2758 - reconstruction_error: 16.3465 - regularization_error: 18.9293 - val_loss: 71.5753 - val_reconstruction_error: 54.3297 - val_regularization_error: 17.2457
Epoch 985/1000
120/120 [=====] - 14s 112ms/step - loss: 35.4602 - reconstruction_error: 16.2804 - regularization_error: 19.1798 - val_loss: 70.9267 - val_reconstruction_error: 54.8141 - val_regularization_error: 16.1126
Epoch 986/1000
120/120 [=====] - 14s 114ms/step - loss: 35.5271 - reconstruction_error: 16.4320 - regularization_error: 19.0951 - val_loss: 73.5762 - val_reconstruction_error: 55.1479 - val_regularization_error: 18.4284
Epoch 987/1000
120/120 [=====] - 17s 139ms/step - loss: 35.3523 - reconstruction_error: 16.2916 - regularization_error: 19.0607 - val_loss: 72.5713 - val_reconstruction_error: 55.2532 - val_regularization_error: 17.3181
Epoch 988/1000
120/120 [=====] - 14s 115ms/step - loss: 35.4082 - reconstruction_error: 16.3215 - regularization_error: 19.0867 - val_loss: 72.5013 - val_reconstruction_error: 55.6724 - val_regularization_error: 16.8289
Epoch 989/1000
120/120 [=====] - 16s 133ms/step - loss: 35.3387 - reconstruction_error: 16.2110 - regularization_error: 19.1277 - val_loss: 72.6985 - val_reconstruction_error: 55.6982 - val_regularization_error: 17.0002
Epoch 990/1000
120/120 [=====] - 16s 134ms/step - loss: 35.5993 - reconstruction_error: 16.3821 - regularization_error: 19.2171 - val_loss: 72.8065 - val_reconstruction_error: 55.3130 - val_regularization_error: 17.4935
Epoch 991/1000
120/120 [=====] - ETA: 0s - loss: 35.5991 - reconstruction_error: 16.4059 - regularization_error: 19.1932
[2023-12-02 15:29:16.244863]: Reconstructing images for epoch 991 ...
```



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120/120 [=====] - 20s 166ms/step - loss: 35.5991 - reconstruction_error: 16.4059 - regularization_error: 19.1932 - val_loss: 72.4091 - val_reconstruction_error: 55.1336 - val_regularization_error: 17.2755
Epoch 992/1000
120/120 [=====] - 16s 137ms/step - loss: 35.5065 - reconstruction_error: 16.3298 - regularization_error: 19.1767 - val_loss: 72.4361 - val_reconstruction_error: 55.4856 - val_regularization_error: 16.9505
Epoch 993/1000
120/120 [=====] - 15s 125ms/step - loss: 35.6079 - reconstruction_error: 16.4329 - regularization_error: 19.1749 - val_loss: 72.2513 - val_reconstruction_error: 55.2451 - val_regularization_error: 17.0062
Epoch 994/1000
120/120 [=====] - 17s 139ms/step - loss: 35.2450 - reconstruction_error: 16.2476 - regularization_error: 18.9974 - val_loss: 72.0120 - val_reconstruction_error: 54.7325 - val_regularization_error: 17.2795
Epoch 995/1000
120/120 [=====] - 16s 133ms/step - loss: 35.3144 - reconstruction_error: 16.2567 - regularization_error: 19.0577 - val_loss: 73.3132 - val_reconstruction_error: 55.6673 - val_regularization_error: 17.6459
Epoch 996/1000
120/120 [=====] - 17s 145ms/step - loss: 35.3409 - reconstruction_error: 16.2713 - regularization_error: 19.0696 - val_loss: 73.7220 - val_reconstruction_error: 55.8402 - val_regularization_error: 17.8818
Epoch 997/1000
120/120 [=====] - 15s 123ms/step - loss: 35.3321 - reconstruction_error: 16.3219 - regularization_error: 19.0102 - val_loss: 72.4625 - val_reconstruction_error: 55.6846 - val_regularization_error: 16.7779
Epoch 998/1000
120/120 [=====] - 15s 126ms/step - loss: 35.4179 - reconstruction_error: 16.3244 - regularization_error: 19.0935 - val_loss: 73.1646 - val_reconstruction_error: 55.9952 - val_regularization_error: 17.1695
Epoch 999/1000
120/120 [=====] - 14s 112ms/step - loss: 35.3661 - reconstruction_error: 16.2658 - regularization_error: 19.1003 - val_loss: 71.5267 - val_reconstruction_error: 54.7676 - val_regularization_error: 16.7591
Epoch 1000/1000
120/120 [=====] - ETA: 0s - loss: 35.3632 - reconstruction_error: 16.3032 - regularization_error: 19.0600
[2023-12-02 15:31:42.145180]: Reconstructing images for epoch 1000 ...
```



120/120 [=====] - 18s 152ms/step - loss: 35.3632 - reconstruction_error: 16.3032 - regularization_error: 19.0600 - val_loss: 72.9295 - val_reconstruction_error: 55.6841 - val_regularization_error: 17.2454



Generation

