```
1  "C:\Program Files\Anaconda3\python.exe" "D:/Program Files/
   JetBrains/localanacondapy3/npy2imges/test.py"
2  input directory is  data/round1_train_A_part1
3  testset_file_list is  ['A_Hour_145_Band_08.npy', '
   A_Hour_145_Band_09.npy', 'A_Hour_145_Band_10.npy', '
   A_Hour_146_Band_08.npy', 'A_Hour_146_Band_09.npy', '
   A_Hour_146_Band_10.npy', 'A_Hour_147_Band_08.npy', '
   A_Hour_147_Band_09.npy', 'A_Hour_147_Band_10.npy', '
   A_Hour_148_Band_08.npy']
4  num of testset_file_list = 10
5  seqence_num is A
6  hour_num is 145
7  band_num is 8
8  data/round1_train_A_part1/A_Hour_145_Band_08.npy has been found!
9  matrix
10  [[3707 3715 3715 ... 3502 3506 3506]
11  [3707 3707 3715 ... 3506 3506 3506]
12  [3683 3705 3705 ... 3577 3577 3596]
13  ...
14  [3493 3493 3489 ... 3445 3449 3455]
15  [3486 3483 3489 ... 3425 3449 3448]
16  [3468 3472 3488 ... 3432 3445 3440]]
17  matrix.shape (1999, 1999)
18  band_num 8 max_val 4007
19  band_num 8 min_val 2718
20  matrix_scale
21  [[0.20928571 0.20357143 0.20357143 ... 0.35571429 0.35285714 0.
   35285714]
22  [0.20928571 0.20928571 0.20357143 ... 0.35285714 0.35285714 0.
   35285714]
23  [0.22642857 0.21071429 0.21071429 ... 0.30214286 0.30214286 0.
   28857143]
24  ...
25  [0.36214286 0.36214286 0.365      ... 0.39642857 0.39357143 0.
   38928571]
26  [0.36714286 0.36928571 0.365      ... 0.41071429 0.39357143 0.
   39428571]
```

```
27  [0.38        0.37714286 0.36571429 ... 0.40571429 0.39642857 0.4
        ]]
28 after scale max_val 0.9157142857142857
29 after scale min_val 0.0
30 image has been saved!
31 seqence_num is A
32 hour_num is 145
33 band_num is 9
34 data/round1_train_A_part1/A_Hour_145_Band_09.npy has been found!
35 matrix
36  [[3600 3609 3609 ... 3244 3237 3250]
37  [3600 3600 3609 ... 3237 3237 3250]
38  [3536 3586 3586 ... 3415 3415 3441]
39  ...
40  [2993 2993 3013 ... 3183 3212 3258]
41  [2968 2995 3007 ... 3098 3220 3249]
42  [2876 2950 2943 ... 3129 3216 3173]]
43 matrix.shape (1999, 1999)
44 band_num 9 max_val 3988
45 band_num 9 min_val 1693
46 matrix_scale
47  [[0.12903226 0.12612903 0.12612903 ... 0.24387097 0.24612903 0.
    24193548]
48  [0.12903226 0.12903226 0.12612903 ... 0.24612903 0.24612903 0.
    24193548]
49  [0.14967742 0.13354839 0.13354839 ... 0.18870968 0.18870968 0.
    18032258]
50  ...
51  [0.32483871 0.32483871 0.3183871  ... 0.26354839 0.25419355 0.
    23935484]
52  [0.33290323 0.32419355 0.32032258 ... 0.29096774 0.2516129  0.
    24225806]
53  [0.36258065 0.33870968 0.34096774 ... 0.28096774 0.25290323 0.
    26677419]]
54 after scale max_val 0.7441935483870967
55 after scale min_val 0.003870967741935484
56 image has been saved!
```

```
57  seqence_num is A
58  hour_num is 145
59  band_num is 10
60  data/round1_train_A_part1/A_Hour_145_Band_10.npy has been found!
61  matrix
62   [[3448 3458 3458 ... 3365 3365 3369]
63   [3448 3448 3458 ... 3365 3365 3369]
64   [3421 3440 3440 ... 3400 3400 3414]
65   ...
66   [3148 3148 3148 ... 3175 3218 3255]
67   [3097 3134 3132 ... 3140 3222 3248]
68   [3071 3105 3091 ... 3117 3166 3158]]
69  matrix.shape (1999, 1999)
70  band_num 10 max_val 3770
71  band_num 10 min_val 2468
72  matrix_scale
73   [[0.20705882 0.20117647 0.20117647 ... 0.25588235 0.25588235 0.
    25352941]
74   [0.20705882 0.20705882 0.20117647 ... 0.25588235 0.25588235 0.
    25352941]
75   [0.22294118 0.21176471 0.21176471 ... 0.23529412 0.23529412 0.
    22705882]
76   ...
77   [0.38352941 0.38352941 0.38352941 ... 0.36764706 0.34235294 0.
    32058824]
78   [0.41352941 0.39176471 0.39294118 ... 0.38823529 0.34        0.
    32470588]
79   [0.42882353 0.40882353 0.41705882 ... 0.40176471 0.37294118 0.
    37764706]]
80  after scale max_val 0.7835294117647059
81  after scale min_val 0.01764705882352941
82  image has been saved!
83  seqence_num is A
84  hour_num is 146
85  band_num is 8
86  data/round1_train_A_part1/A_Hour_146_Band_08.npy has been found!
87  matrix
```

```
88  [[3336 3334 3334 ... 3627 3627 3631]
89   [3336 3336 3334 ... 3627 3627 3631]
90   [3334 3335 3335 ... 3648 3648 3653]
91   ...
92   [3500 3490 3488 ... 3361 3250 3240]
93   [3482 3467 3440 ... 3353 3280 3276]
94   [3433 3420 3397 ... 3334 3350 3363]]
95  matrix.shape (1999, 1999)
96  band_num 8 max_val 4008
97  band_num 8 min_val 2709
98  matrix_scale
99   [[0.47428571 0.47571429 0.47571429 ... 0.26642857 0.26642857 0.
    26357143]
100   [0.47428571 0.47428571 0.47571429 ... 0.26642857 0.26642857 0.
    26357143]
101   [0.47571429 0.475       0.475       ... 0.25142857 0.25142857 0.
    24785714]
102   ...
103   [0.35714286 0.36428571 0.36571429 ... 0.45642857 0.53571429 0.
    54285714]
104   [0.37       0.38071429 0.4        ... 0.46214286 0.51428571 0.
    51714286]
105   [0.405      0.41428571 0.43071429 ... 0.47571429 0.46428571 0.
    455      ]]
106  after scale max_val 0.9221428571428572
107  after scale min_val 0.0
108  image has been saved!
109  seqence_num is A
110  hour_num is 146
111  band_num is 9
112  data/round1_train_A_part1/A_Hour_146_Band_09.npy has been found!
113  matrix
114   [[2718 2711 2711 ... 3495 3495 3508]
115   [2718 2718 2711 ... 3495 3495 3508]
116   [2710 2714 2714 ... 3539 3539 3553]
117   ...
118   [3304 3273 3267 ... 2808 2267 2214]
```

```
119   [3282 3227 3159 ... 2800 2367 2269]
120   [3162 3091 3017 ... 2711 2688 2723]]
121 matrix.shape (1999, 1999)
122 band_num 9 max_val 3987
123 band_num 9 min_val 1457
124 matrix_scale
125   [[0.41354839 0.41580645 0.41580645 ... 0.16290323 0.16290323 0.
      15870968]
126   [0.41354839 0.41354839 0.41580645 ... 0.16290323 0.16290323 0.
      15870968]
127   [0.41612903 0.41483871 0.41483871 ... 0.14870968 0.14870968 0.
      14419355]
128   ...
129   [0.22451613 0.23451613 0.23645161 ... 0.38451613 0.55903226 0.
      57612903]
130   [0.2316129  0.24935484 0.27129032 ... 0.38709677 0.52677419 0.
      5583871 ]
131   [0.27032258 0.29322581 0.31709677 ... 0.41580645 0.42322581 0.
      41193548]]
132 after scale max_val 0.8203225806451613
133 after scale min_val 0.004193548387096774
134 image has been saved!
135 seqence_num is A
136 hour_num is 146
137 band_num is 10
138 data/round1_train_A_part1/A_Hour_146_Band_10.npy has been found!
139 matrix
140   [[3179 3174 3174 ... 3419 3419 3427]
141   [3179 3179 3174 ... 3419 3419 3427]
142   [3173 3174 3174 ... 3426 3426 3428]
143   ...
144   [3311 3289 3277 ... 3017 2707 2648]
145   [3277 3255 3201 ... 2966 2811 2756]
146   [3173 3166 3150 ... 2948 3010 3011]]
147 matrix.shape (1999, 1999)
148 band_num 10 max_val 3767
149 band_num 10 min_val 2425
```

```
150 matrix_scale
151  [[0.36529412 0.36823529 0.36823529 ... 0.22411765 0.22411765 0.
21941176]
152  [0.36529412 0.36529412 0.36823529 ... 0.22411765 0.22411765 0.
21941176]
153  [0.36882353 0.36823529 0.36823529 ... 0.22        0.22        0.
21882353]
154  ...
155  [0.28764706 0.30058824 0.30764706 ... 0.46058824 0.64294118 0.
67764706]
156  [0.30764706 0.32058824 0.35235294 ... 0.49058824 0.58176471 0.
61411765]
157  [0.36882353 0.37294118 0.38235294 ... 0.50117647 0.46470588 0.
46411765]]
158 after scale max_val 0.8088235294117647
159 after scale min_val 0.019411764705882354
160 image has been saved!
161 seqence_num is A
162 hour_num is 147
163 band_num is 8
164 data/round1_train_A_part1/A_Hour_147_Band_08.npy has been found!
165 matrix
166  [[3519 3480 3480 ... 3606 3606 3627]
167  [3519 3519 3480 ... 3606 3606 3627]
168  [3527 3484 3484 ... 3603 3603 3616]
169  ...
170  [3367 3367 3362 ... 3328 3321 3351]
171  [3367 3367 3359 ... 3317 3295 3329]
172  [3384 3379 3384 ... 3350 3322 3349]]
173 matrix.shape (1999, 1999)
174 band_num 8 max_val 4004
175 band_num 8 min_val 2705
176 matrix_scale
177  [[0.34357143 0.37142857 0.37142857 ... 0.28142857 0.28142857 0.
26642857]
178  [0.34357143 0.34357143 0.37142857 ... 0.28142857 0.28142857 0.
26642857]
```

```
179   [0.33785714 0.36857143 0.36857143 ... 0.28357143 0.28357143 0.
      27428571]
180   ...
181   [0.45214286 0.45214286 0.45571429 ... 0.48       0.485      0.
      46357143]
182   [0.45214286 0.45214286 0.45785714 ... 0.48785714 0.50357143 0.
      47928571]
183   [0.44       0.44357143 0.44       ... 0.46428571 0.48428571 0.
      465      ]]
184 after scale max_val 0.925
185 after scale min_val 0.0
186 image has been saved!
187 seqence_num is A
188 hour_num is 147
189 band_num is 9
190 data/round1_train_A_part1/A_Hour_147_Band_09.npy has been found!
191 matrix
192  [[3189 3060 3060 ... 3470 3470 3504]
193  [3189 3189 3060 ... 3470 3470 3504]
194  [3201 3074 3074 ... 3457 3457 3487]
195  ...
196  [2929 2929 2908 ... 2701 2669 2709]
197  [2910 2978 2942 ... 2602 2439 2655]
198  [2998 3008 2972 ... 2825 2669 2806]]
199 matrix.shape (1999, 1999)
200 band_num 9 max_val 3982
201 band_num 9 min_val 1318
202 matrix_scale
203  [[0.2616129  0.30322581 0.30322581 ... 0.17096774 0.17096774 0.
      16       ]
204  [0.2616129  0.2616129  0.30322581 ... 0.17096774 0.17096774 0.
      16       ]
205  [0.25774194 0.29870968 0.29870968 ... 0.17516129 0.17516129 0.
      16548387]
206  ...
207  [0.34548387 0.34548387 0.35225806 ... 0.41903226 0.42935484 0.
      41645161]
```

```
208    [0.3516129  0.32967742 0.34129032 ... 0.45096774 0.50354839 0.
43387097]
209    [0.32322581 0.32       0.3316129  ... 0.37903226 0.42935484 0.
38516129]]
210 after scale max_val 0.8651612903225806
211 after scale min_val 0.005806451612903226
212 image has been saved!
213 seqence_num is A
214 hour_num is 147
215 band_num is 10
216 data/round1_train_A_part1/A_Hour_147_Band_10.npy has been found!
217 matrix
218  [[3316 3269 3269 ... 3397 3397 3412]
219  [3316 3316 3269 ... 3397 3397 3412]
220  [3309 3272 3272 ... 3404 3404 3410]
221  ...
222  [3123 3123 3109 ... 2950 2825 2822]
223  [3119 3151 3135 ... 2922 2781 2892]
224  [3156 3154 3137 ... 3061 2889 2905]]
225 matrix.shape (1999, 1999)
226 band_num 10 max_val 3761
227 band_num 10 min_val 2407
228 matrix_scale
229  [[0.28470588 0.31235294 0.31235294 ... 0.23705882 0.23705882 0.
22823529]
230  [0.28470588 0.28470588 0.31235294 ... 0.23705882 0.23705882 0.
22823529]
231  [0.28882353 0.31058824 0.31058824 ... 0.23294118 0.23294118 0.
22941176]
232  ...
233  [0.39823529 0.39823529 0.40647059 ... 0.5        0.57352941 0.
57529412]
234  [0.40058824 0.38176471 0.39117647 ... 0.51647059 0.59941176 0.
53411765]
235  [0.37882353 0.38       0.39       ... 0.43470588 0.53588235 0.
52647059]]
236 after scale max_val 0.8194117647058824
```

```
237  after scale min_val 0.022941176470588236
238  image has been saved!
239  seqence_num is A
240  hour_num is 148
241  band_num is 8
242  data/round1_train_A_part1/A_Hour_148_Band_08.npy has been found!
243  matrix
244   [[3614 3614 3562 ... 3542 3558 3576]
245   [3620 3614 3614 ... 3542 3558 3576]
246   [3618 3618 3588 ... 3554 3554 3550]
247   ...
248   [3317 3332 3360 ... 3283 3280 3327]
249   [3370 3338 3364 ... 3290 3282 3302]
250   [3408 3357 3376 ... 3293 3292 3282]]
251  matrix.shape (1999, 1999)
252  band_num 8 max_val 4001
253  band_num 8 min_val 2684
254  matrix_scale
255   [[0.27571429 0.27571429 0.31285714 ... 0.32714286 0.31571429 0.
      30285714]
256   [0.27142857 0.27571429 0.27571429 ... 0.32714286 0.31571429 0.
      30285714]
257   [0.27285714 0.27285714 0.29428571 ... 0.31857143 0.31857143 0.
      32142857]
258   ...
259   [0.48785714 0.47714286 0.45714286 ... 0.51214286 0.51428571 0.
      48071429]
260   [0.45       0.47285714 0.45428571 ... 0.50714286 0.51285714 0.
      49857143]
261   [0.42285714 0.45928571 0.44571429 ... 0.505      0.50571429 0.
      51285714]]
262  after scale max_val 0.94
263  after scale min_val 0.0
264  image has been saved!
265  time use: 7.156999826431274 s
266
267  Process finished with exit code 0
```