pattern = 4, 5

Final sd_R trend for [0, 10, 20, 30] the same

Basic setting:[T, rep_times, sd_O, sd_D, sd_R, sd_u_O, w_O, w_A, [M_in_R, mean_reversion, poisO, u_O_u_D], sd_R_range,
t_func] = [None, 16, None, None, None, 20, 0.5, 1, [True, False, True, 10], [0, 10, 20, 30], None]

[pattern_seed, day, sd_R] = [4, 7, 0]

max(u_O) = 144.5
O_threshold = 80
number of reward locations: 21
O_threshold = 85
number of reward locations: 19
O_threshold = 90
number of reward locations: 17
O_threshold = 95
number of reward locations: 16
O_threshold = 100
number of reward locations: 15
O_threshold = 105
number of reward locations: 11
O_threshold = 110
number of reward locations: 6
O_threshold = 115
number of reward locations: 2

==============
[39/1033]
[[1.73 1.57 0.82 4.88 72.44 8.19]
 [2.09 1.94 0.92 4.47 70.78 6.53]
 [2.05 1.85 0.35 3.44 71.99 7.74]
 [2.   1.84 0.37 3.18 71.04 6.78]
 [1.78 1.61 0.33 2.43 71.36 7.11]
 [1.48 1.4   0.97 1.42 66.49 2.25]
 [5.59 5.59 5.96 8.05 70.17 5.92]
 [13.08 13.05 13.   18.17 74.86 10.61]]

[[2.01 1.85 0.77 4.91 72.46 8.22]
 [2.21 2.07 0.93 4.52 70.8   6.56]
 [2.18 2.   0.48 3.48 72.   7.77]
 [2.14 2.   0.49 3.23 71.05 6.81]
 [1.97 1.85 0.49 2.49 71.38 7.14]
 [1.75 1.68 1.05 1.48 66.51 2.28]
 [5.68 5.67 6.1   8.04 70.18 5.95]
 [13.22 13.18 13.15 18.18 74.88 10.64]]

[[2.5   2.35 0.9   4.95 72.47 8.25]
 [2.42 2.3   1.04 4.59 70.82 6.59]

```
 [ 2.5   2.31  0.84  3.53 72.02  7.8 ]
 [ 2.44  2.3   0.83  3.29 71.07  6.84]
 [ 2.29  2.2   0.74  2.56 71.39  7.17]
 [ 2.13  2.04  1.19  1.56 66.52  2.31]
 [ 5.82  5.83  6.22  8.02 70.2   5.98]
 [13.41 13.36 13.43 18.2  74.89 10.67]]


[[ 3.06  2.94  1.1   4.97 72.49  8.29]
 [ 2.74  2.62  1.25  4.65 70.83  6.63]
 [ 2.85  2.73  1.23  3.6  72.04  7.84]
 [ 2.81  2.69  1.21  3.38 71.08  6.88]
 [ 2.67  2.58  1.06  2.67 71.41  7.21]
 [ 2.56  2.46  1.35  1.66 66.54  2.35]
 [ 6.02  6.02  6.37  8.02 70.21  6.02]
 [13.66 13.57 13.66 18.22 74.91 10.71]]


[[ 1.09  0.9   0.59  3.95 72.72 10.01]
 [ 1.14  0.97  0.34  3.1  70.65  7.94]
 [ 0.52  0.66  1.91  1.1  71.52  8.81]
 [ 2.76  2.85  3.04  2.75 69.8   7.09]
 [ 4.67  4.78  4.62  4.91 71.61  8.9 ]
 [ 5.74  5.82  5.68  7.03 72.03  9.32]
 [ 5.49  5.56  5.36  6.83 70.65  7.94]
 [ 9.63  9.64  8.93 11.87 72.88 10.17]]


[[ 1.17  1.    0.57  3.97 72.74 10.04]
 [ 1.3   1.14  0.44  3.07 70.67  7.97]
 [ 0.46  0.57  1.84  1.07 71.54  8.84]
 [ 2.89  2.98  3.19  2.77 69.82  7.12]
 [ 4.83  4.93  4.75  4.96 71.62  8.93]
 [ 5.79  5.86  5.79  7.08 72.04  9.35]
 [ 5.61  5.66  5.48  6.89 70.66  7.97]
 [ 9.69  9.69  9.02 11.94 72.89 10.2 ]]


[[ 1.39  1.28  0.64  3.99 72.75 10.07]
 [ 1.66  1.51  0.62  3.05 70.68  8.  ]
```

```
[ 0.74  0.77  1.8   1.06 71.55  8.87]
[ 3.07  3.14  3.38  2.82 69.83  7.15]
[ 5.05  5.13  4.89  5.   71.64  8.96]
[ 5.98  6.    5.98  7.14 72.06  9.38]
[ 5.88  5.87  5.68  6.96 70.68  8.  ]
[ 9.8   9.83  9.07 12.01 72.91 10.23]]
```