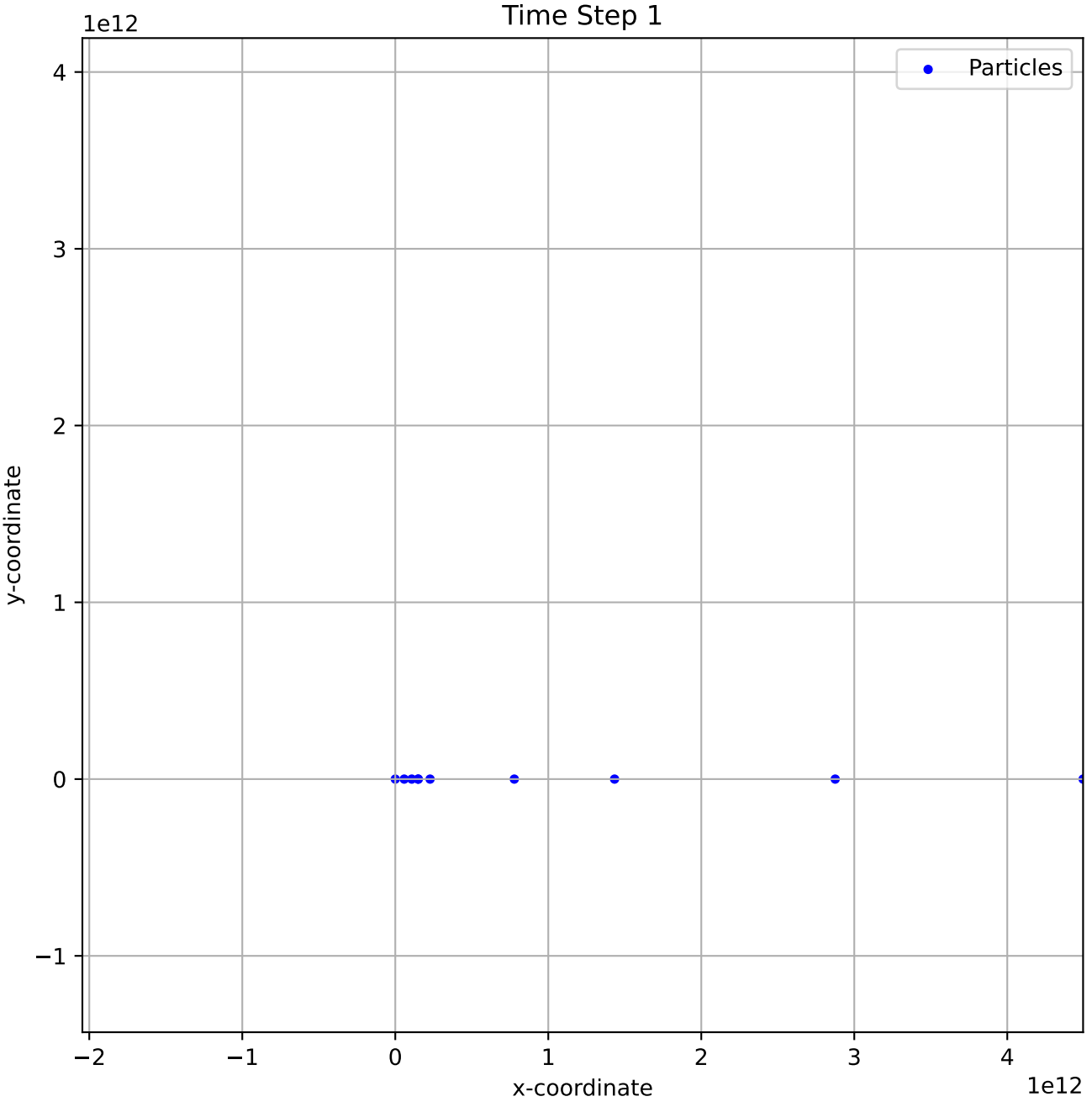
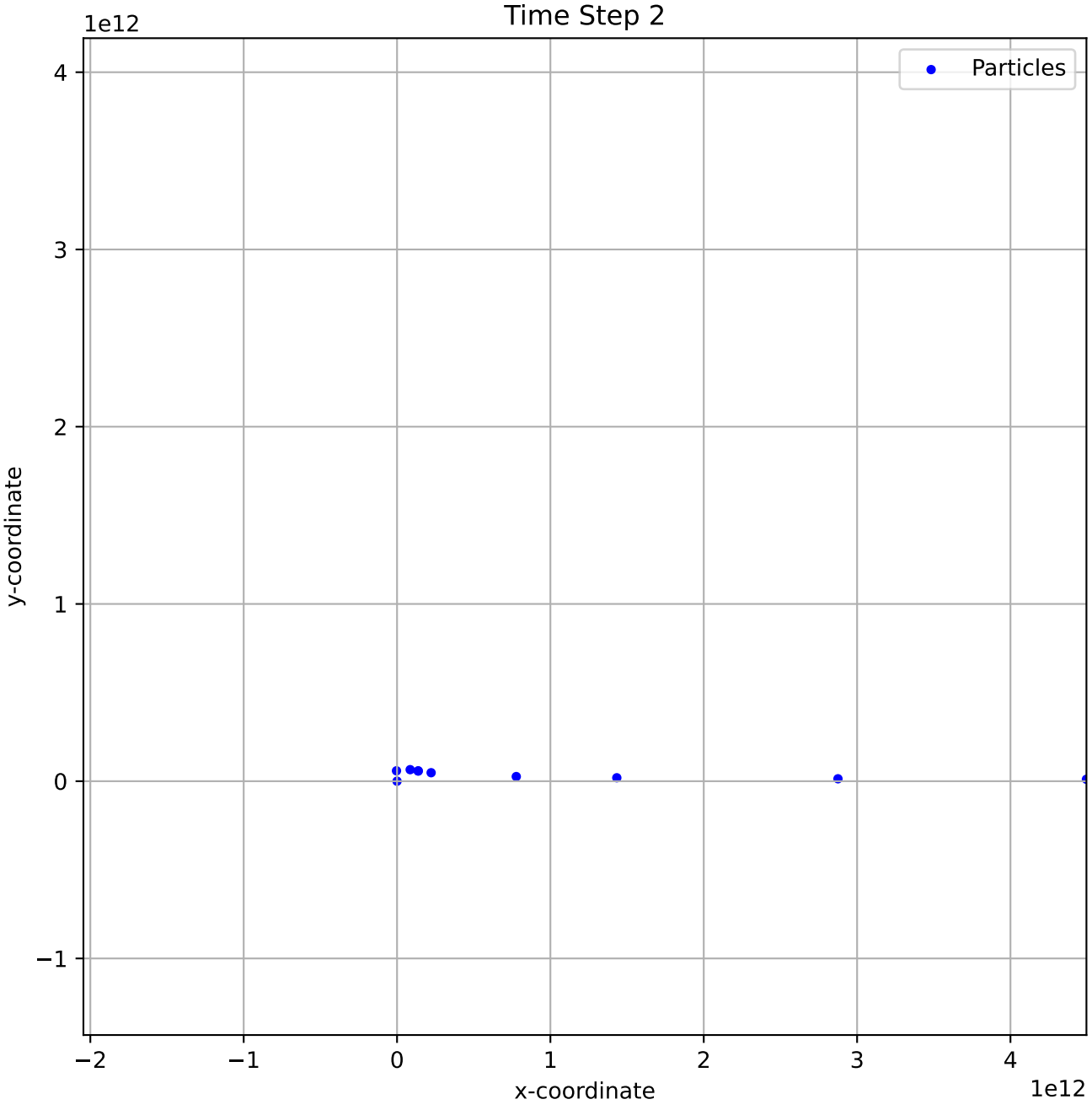
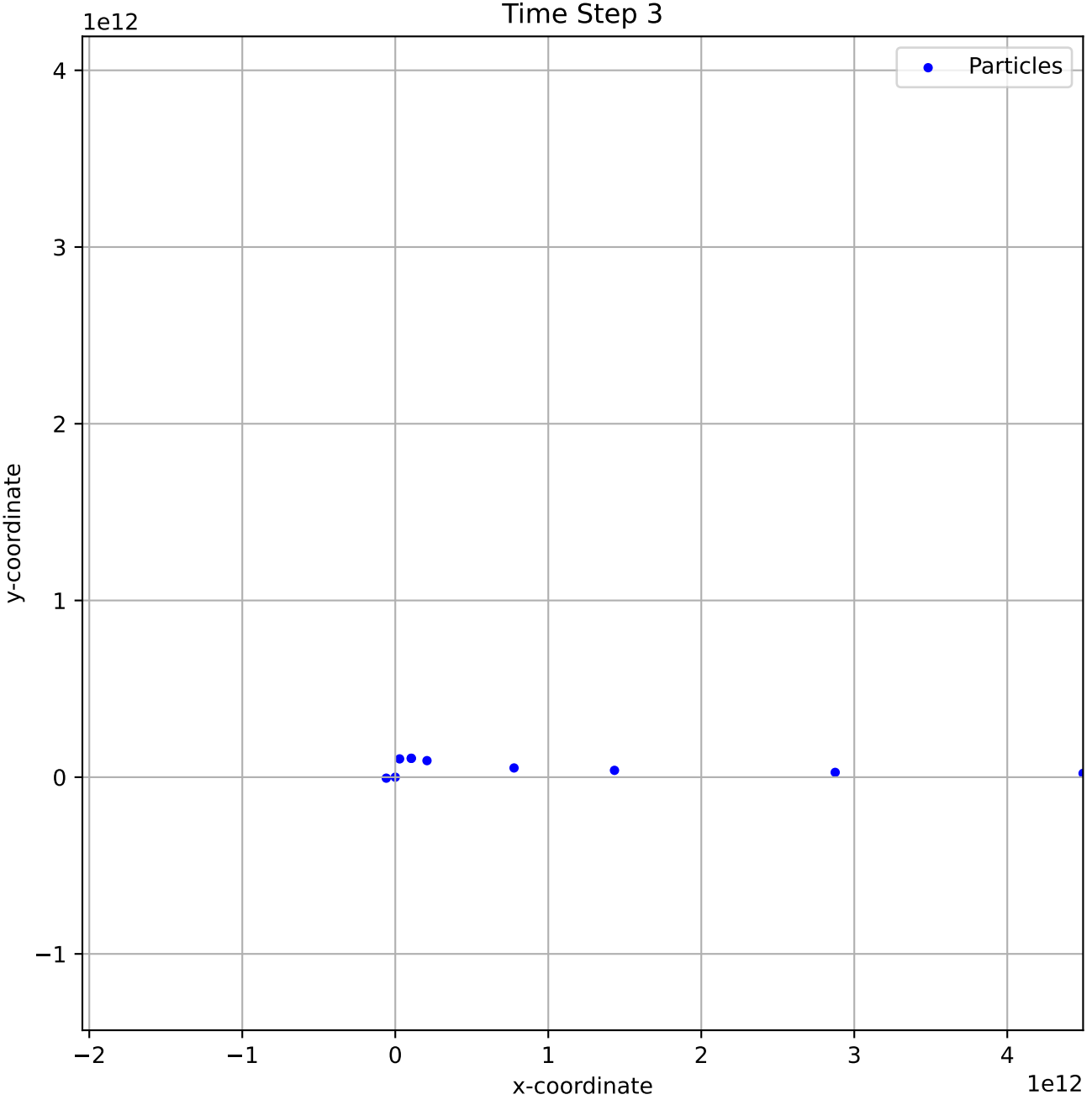
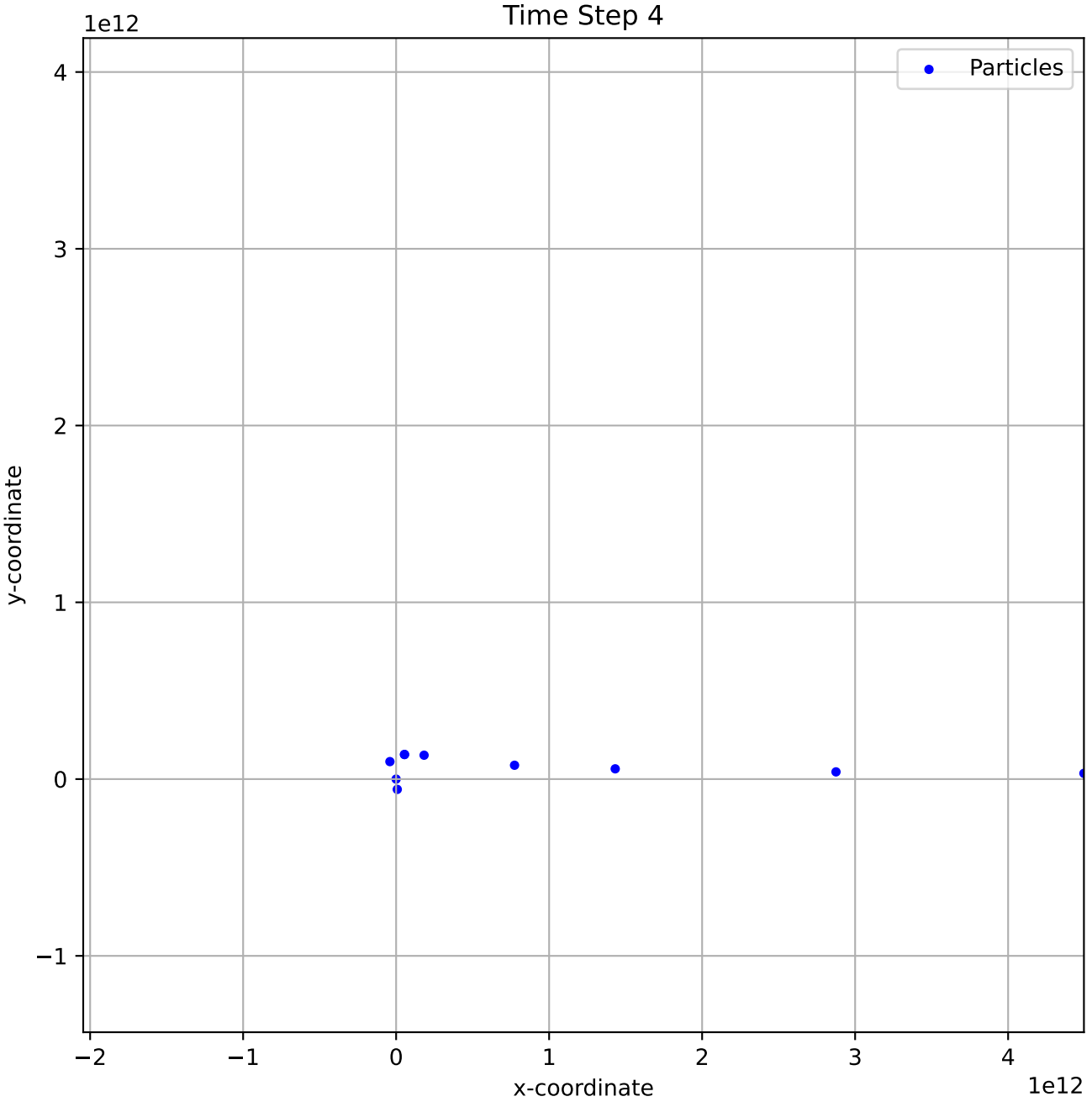
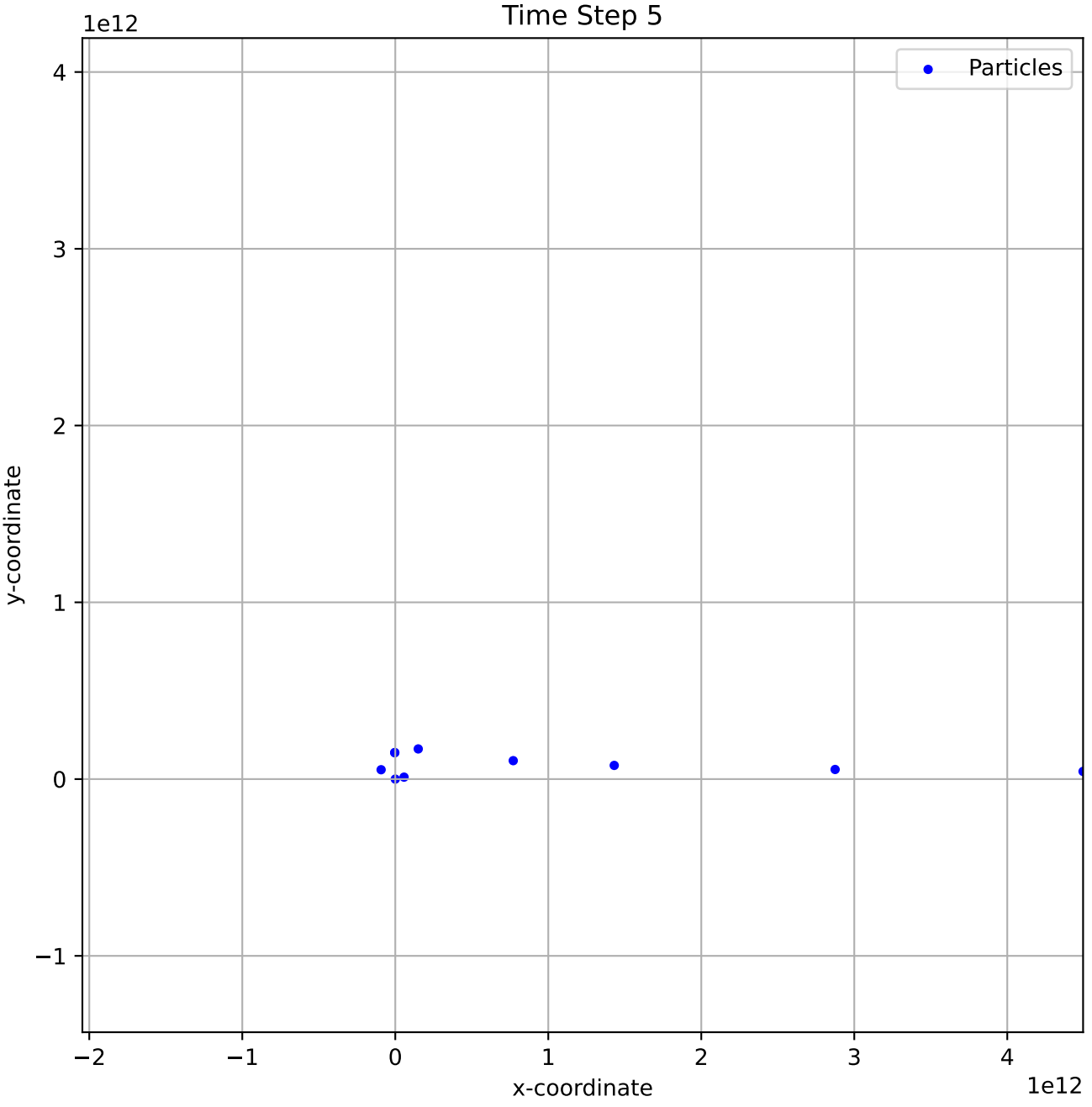
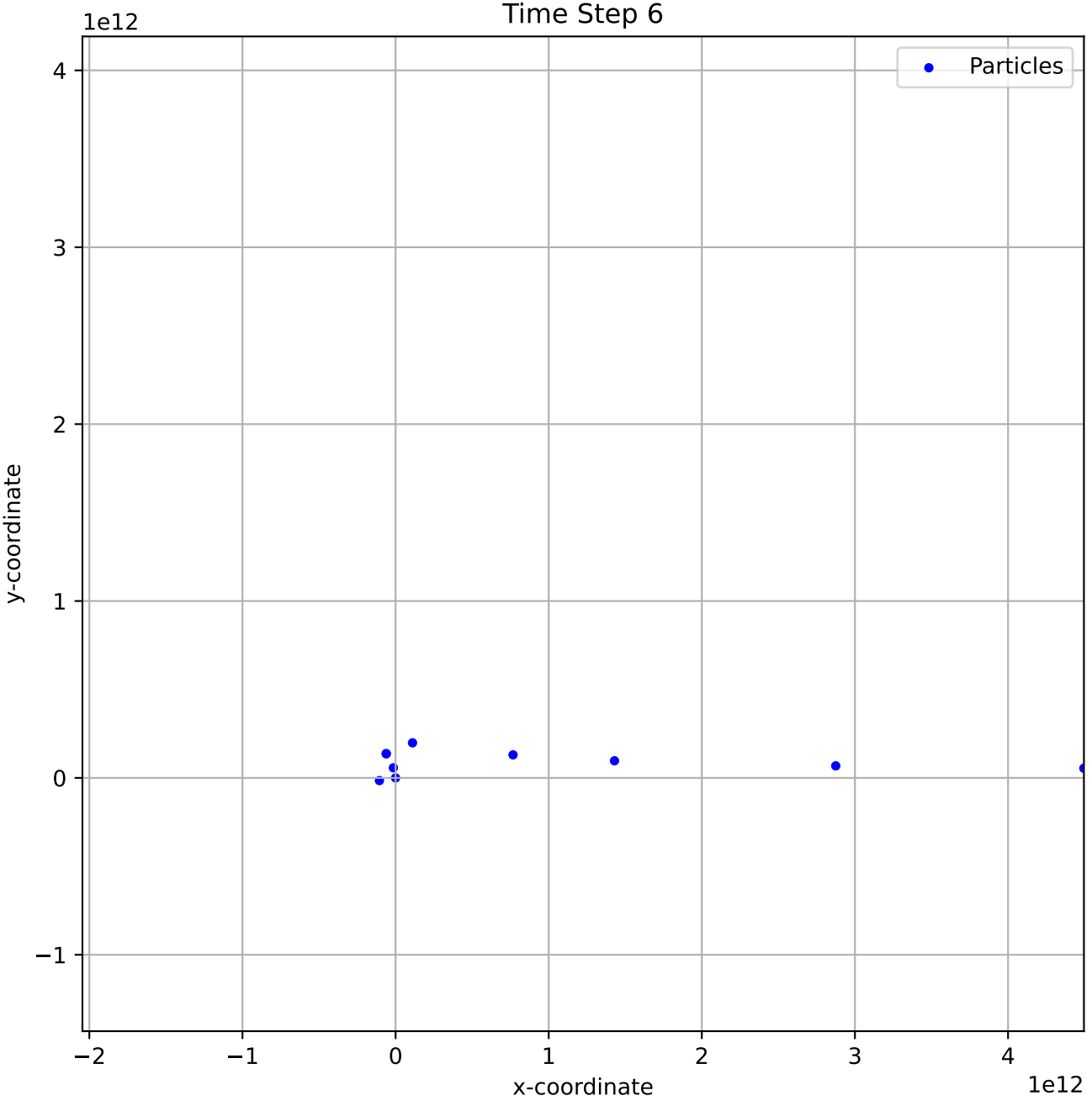

Time Step 1
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

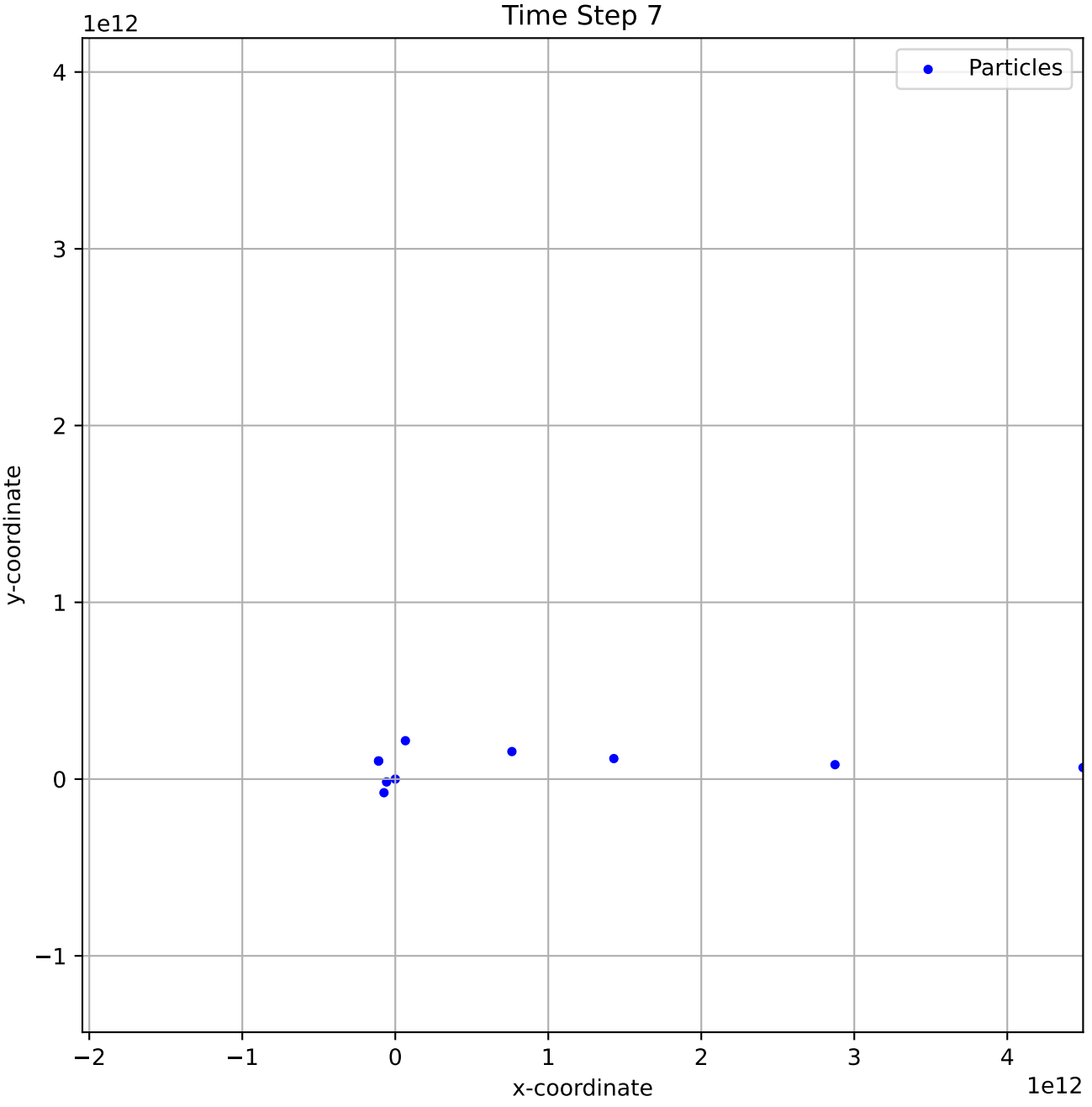

Time Step 2
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

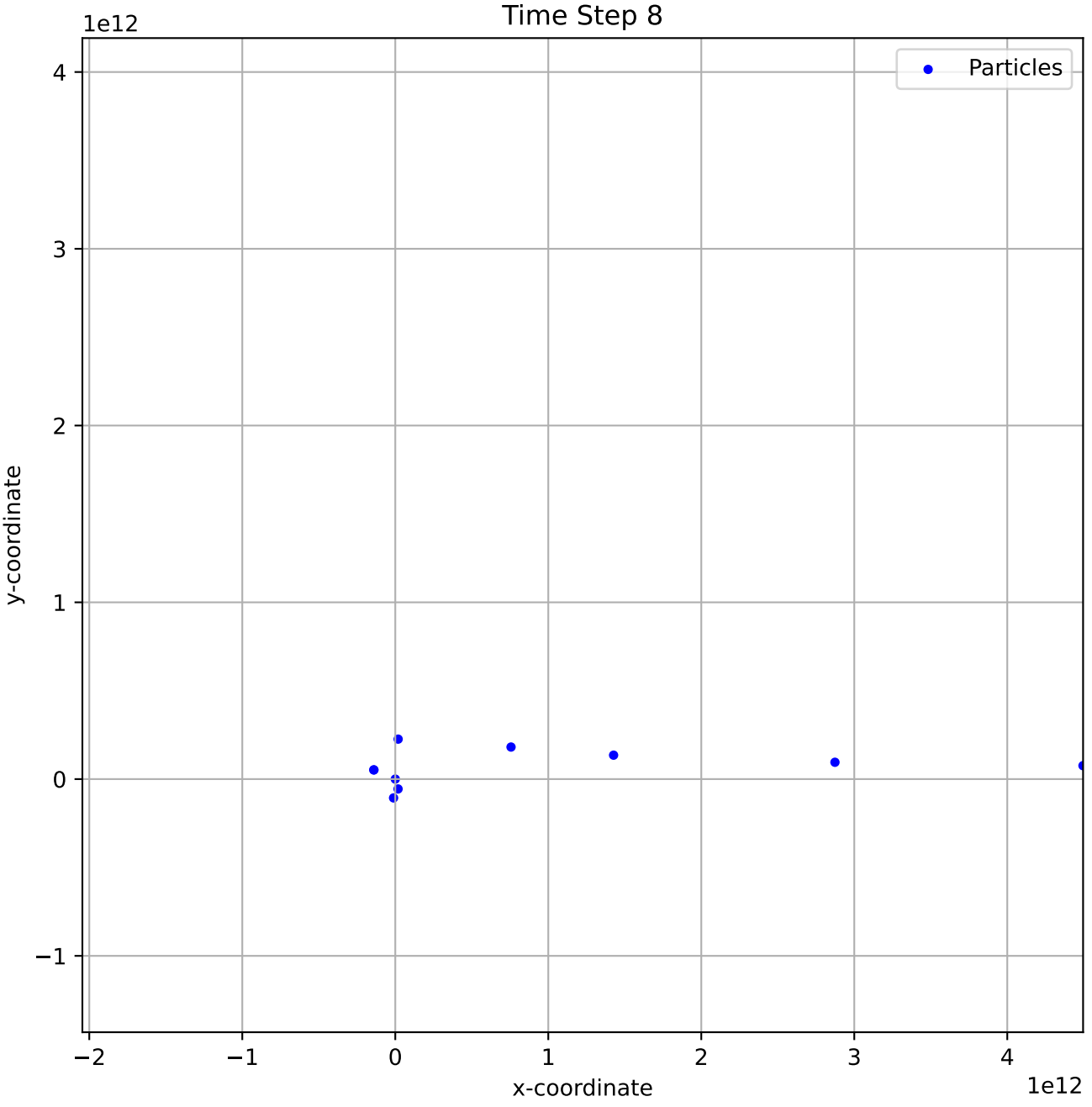

Time Step 3
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

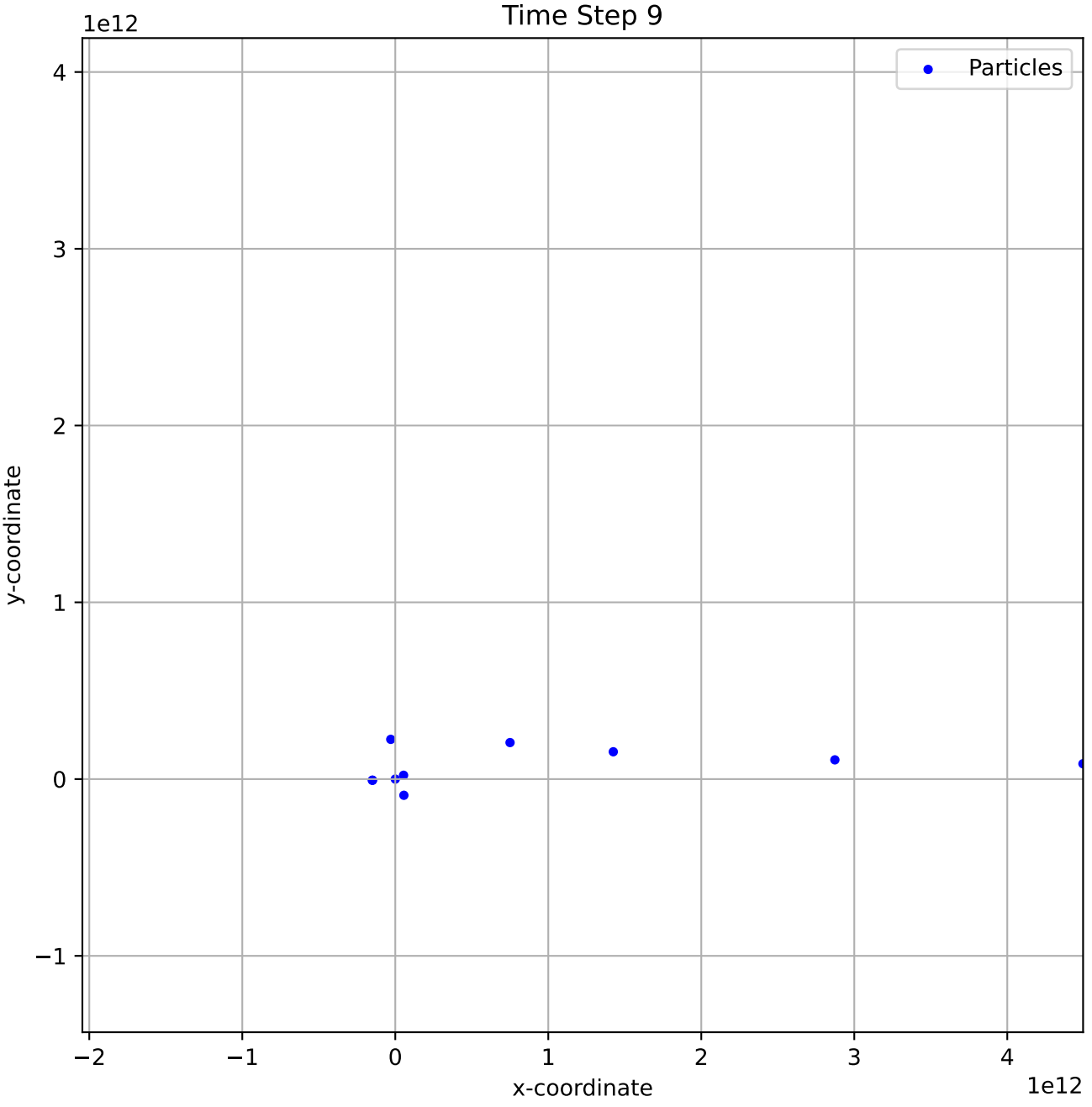

Time Step 4
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

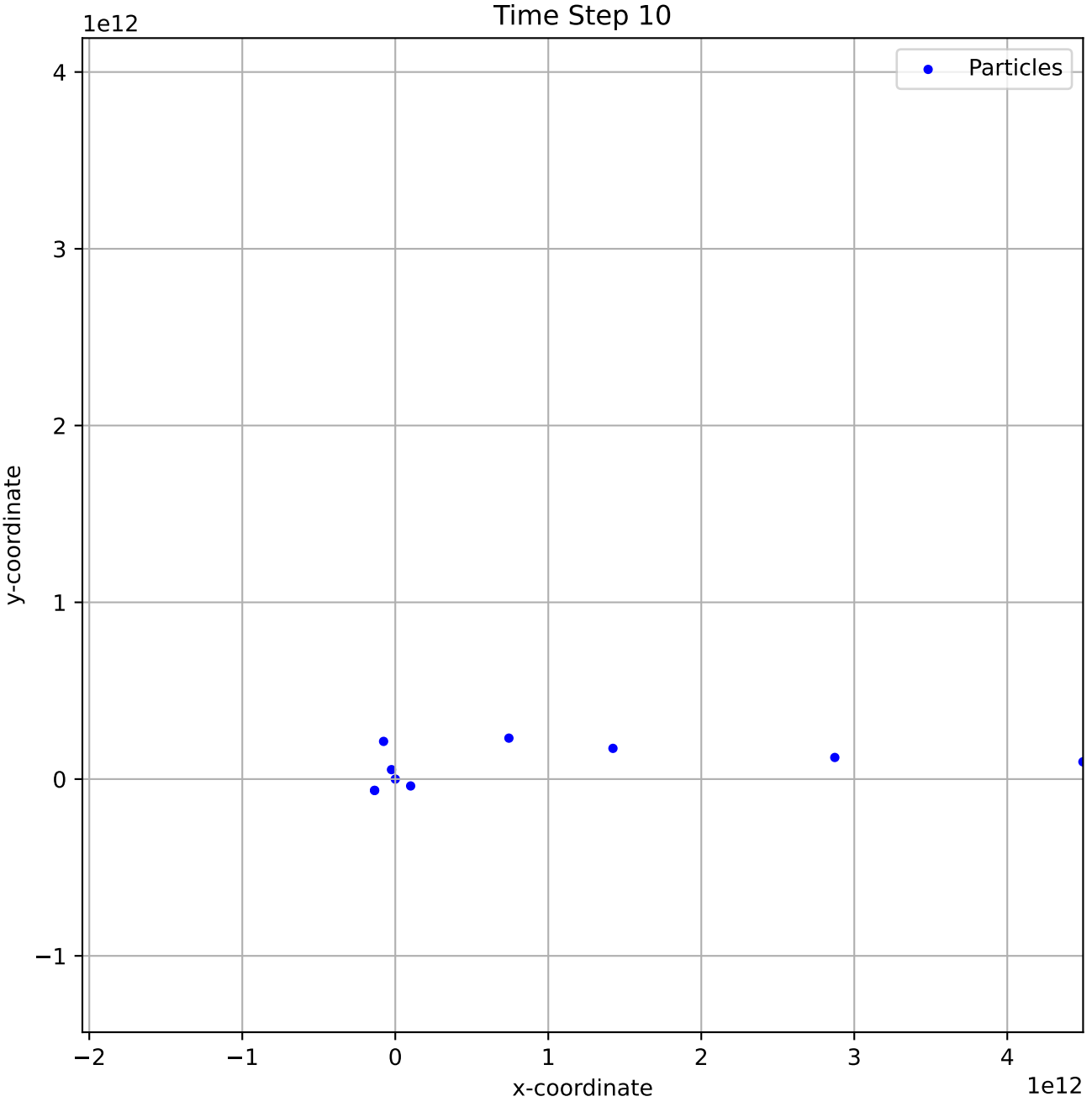

Time Step 5
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

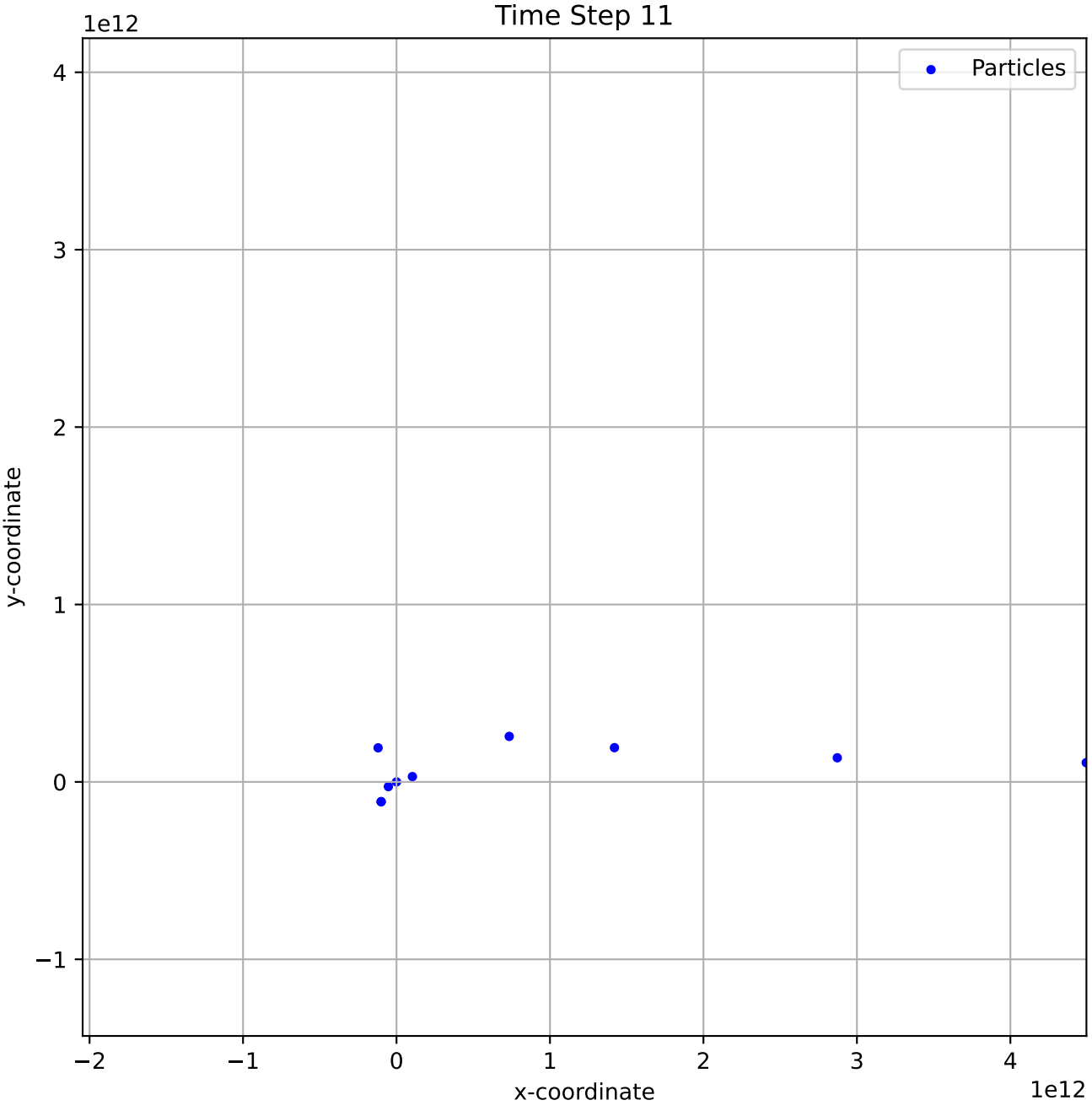

Time Step 6
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

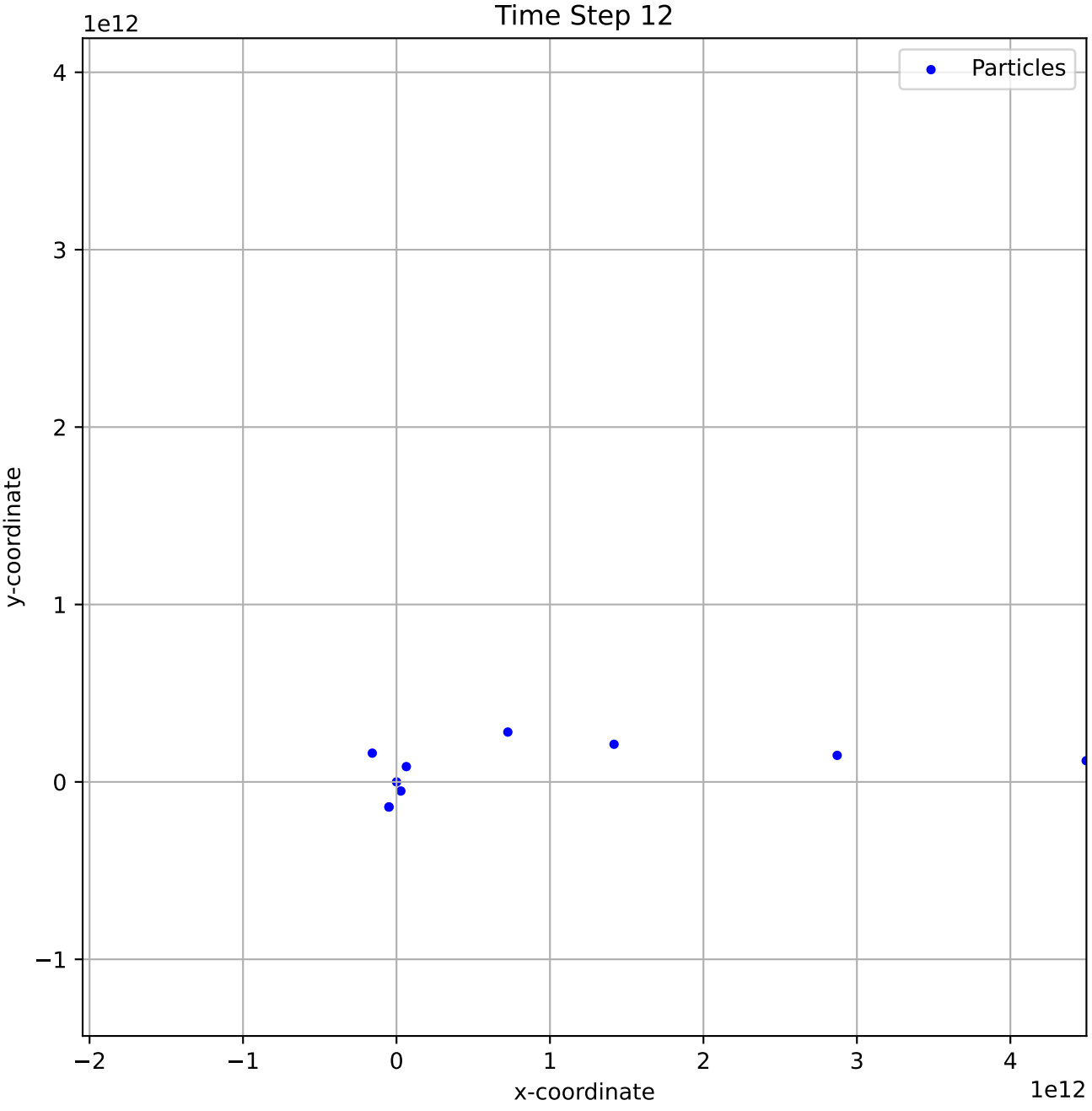

Time Step 7
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

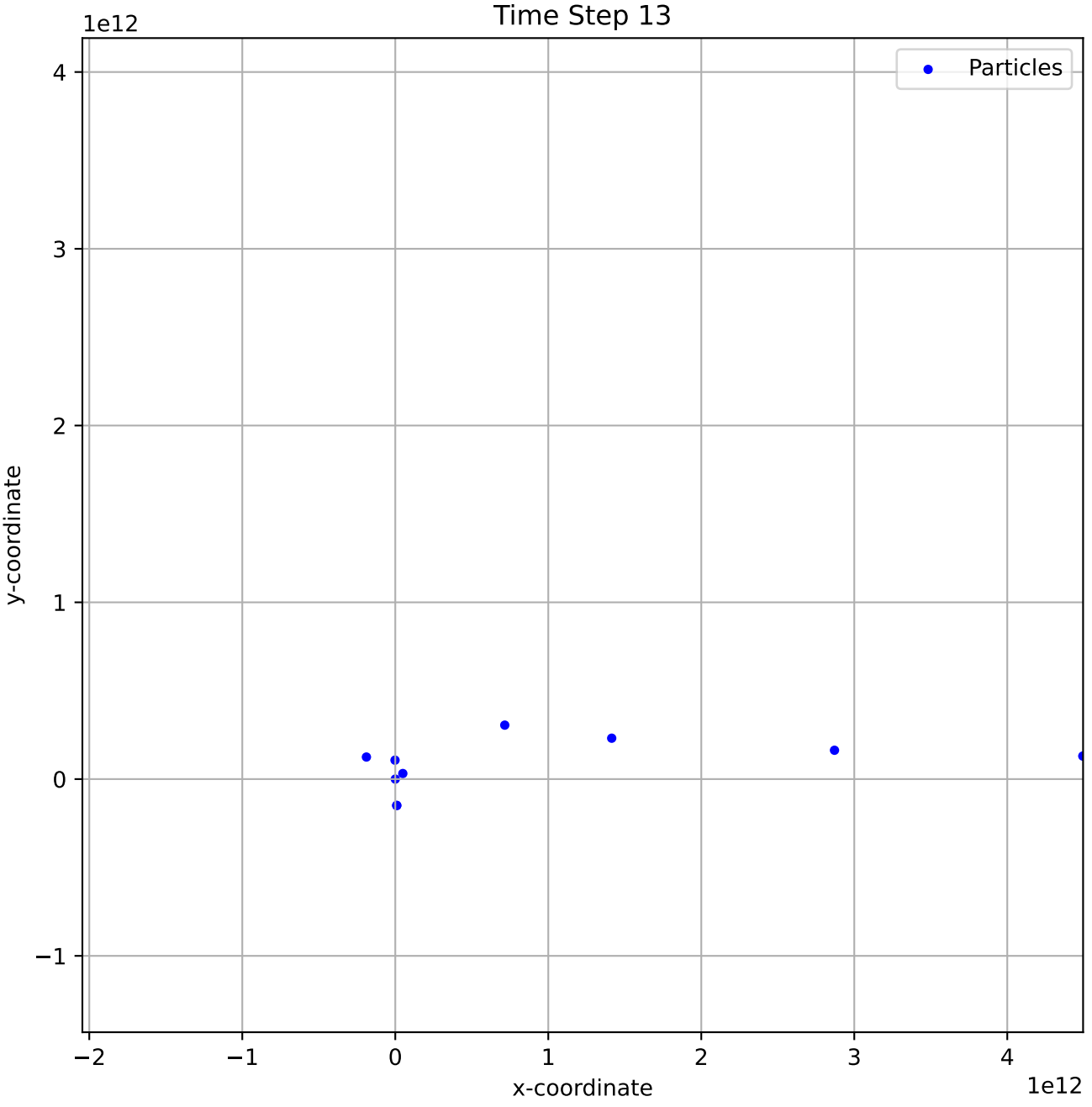

Time Step 8
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

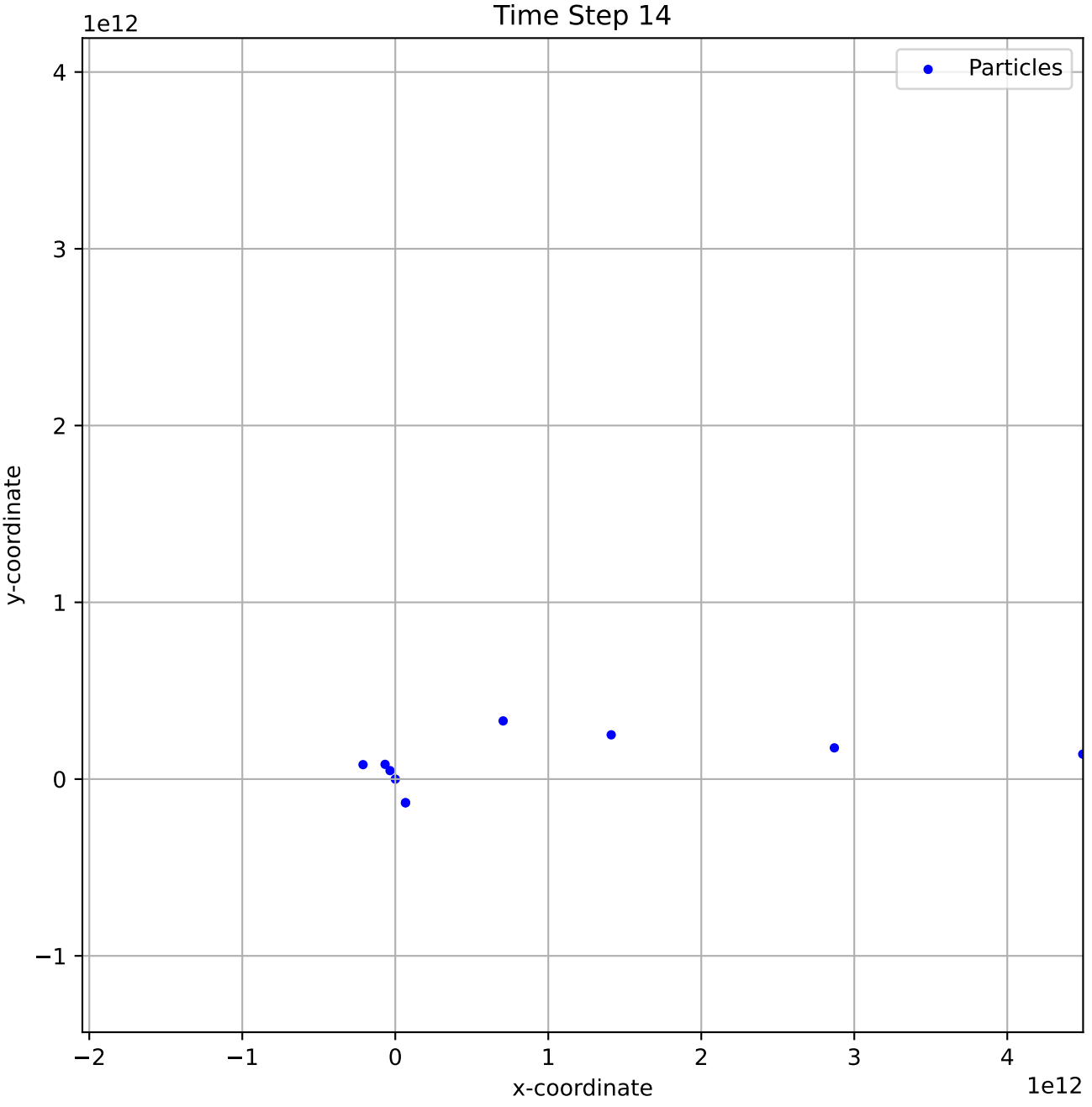

Time Step 9
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

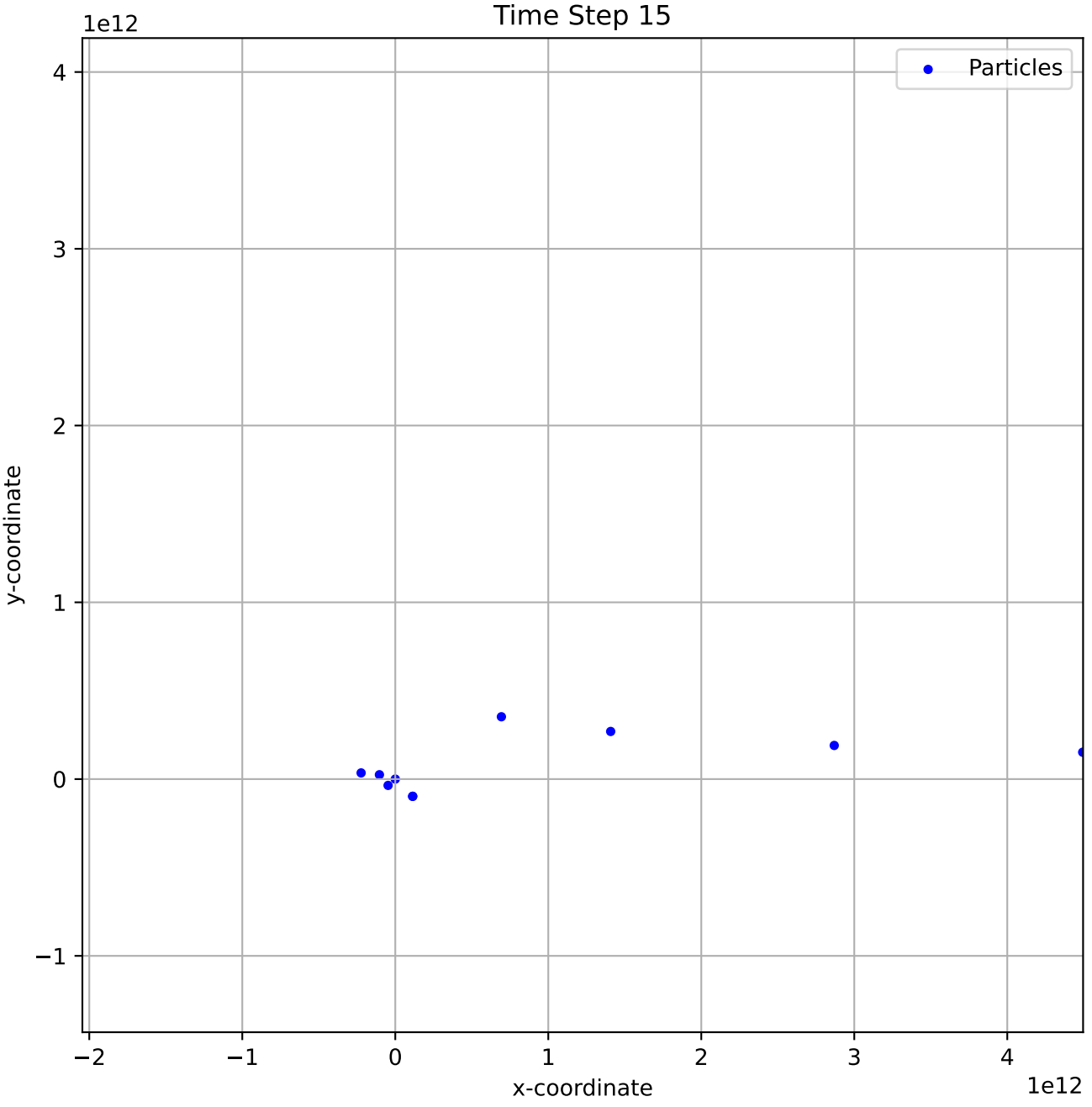

Time Step 10
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

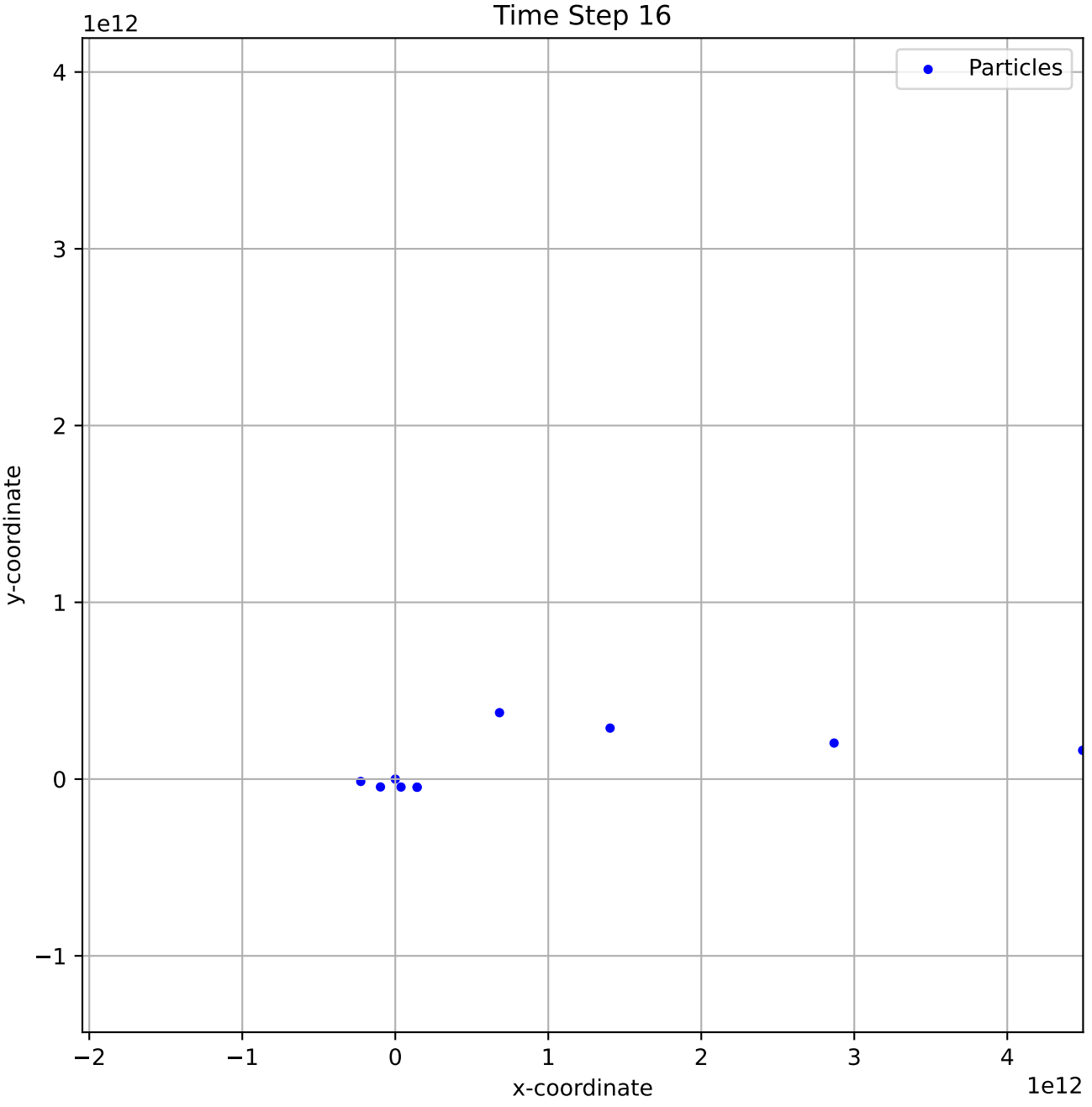

Time Step 11
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

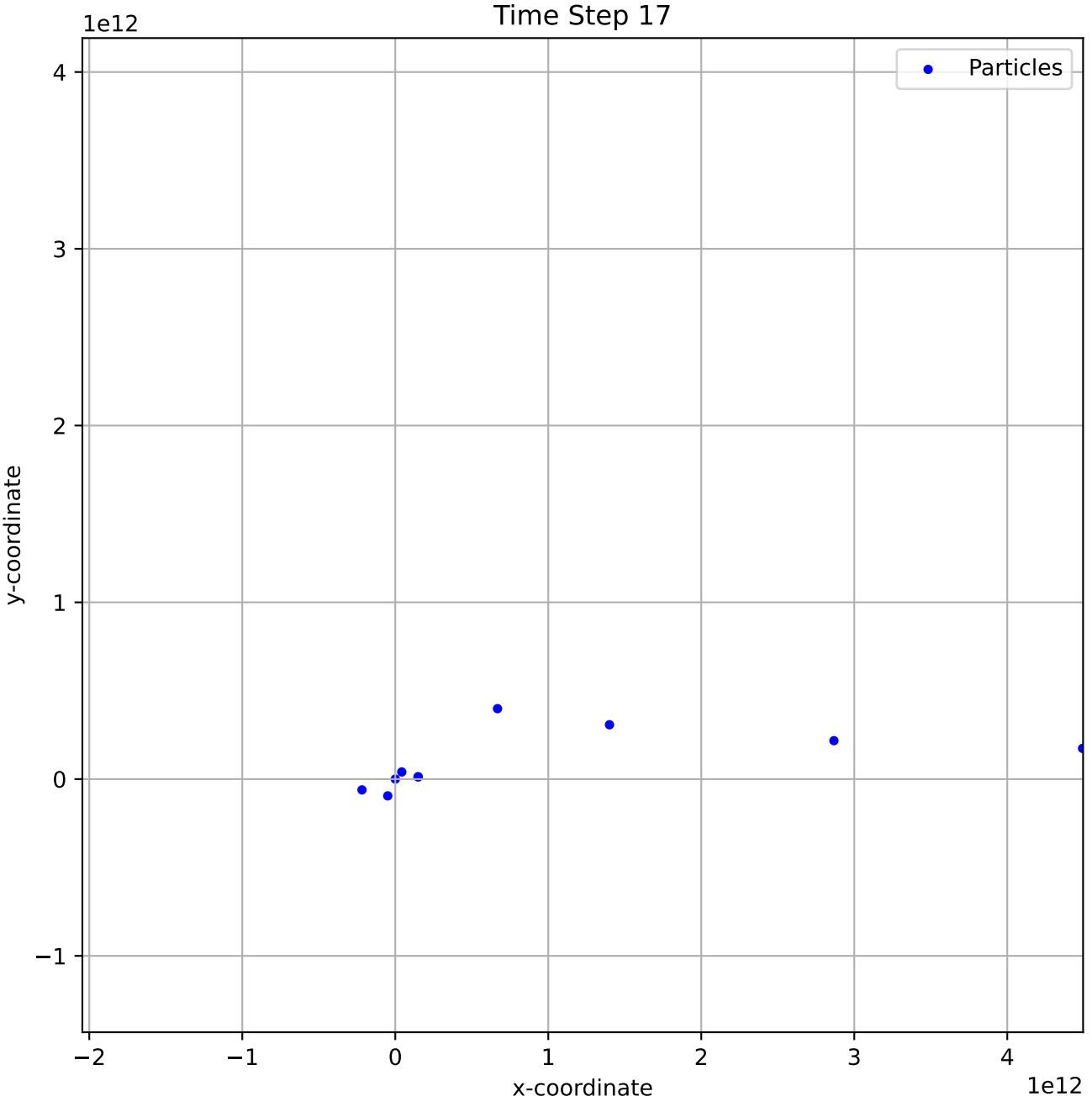

Time Step 12
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

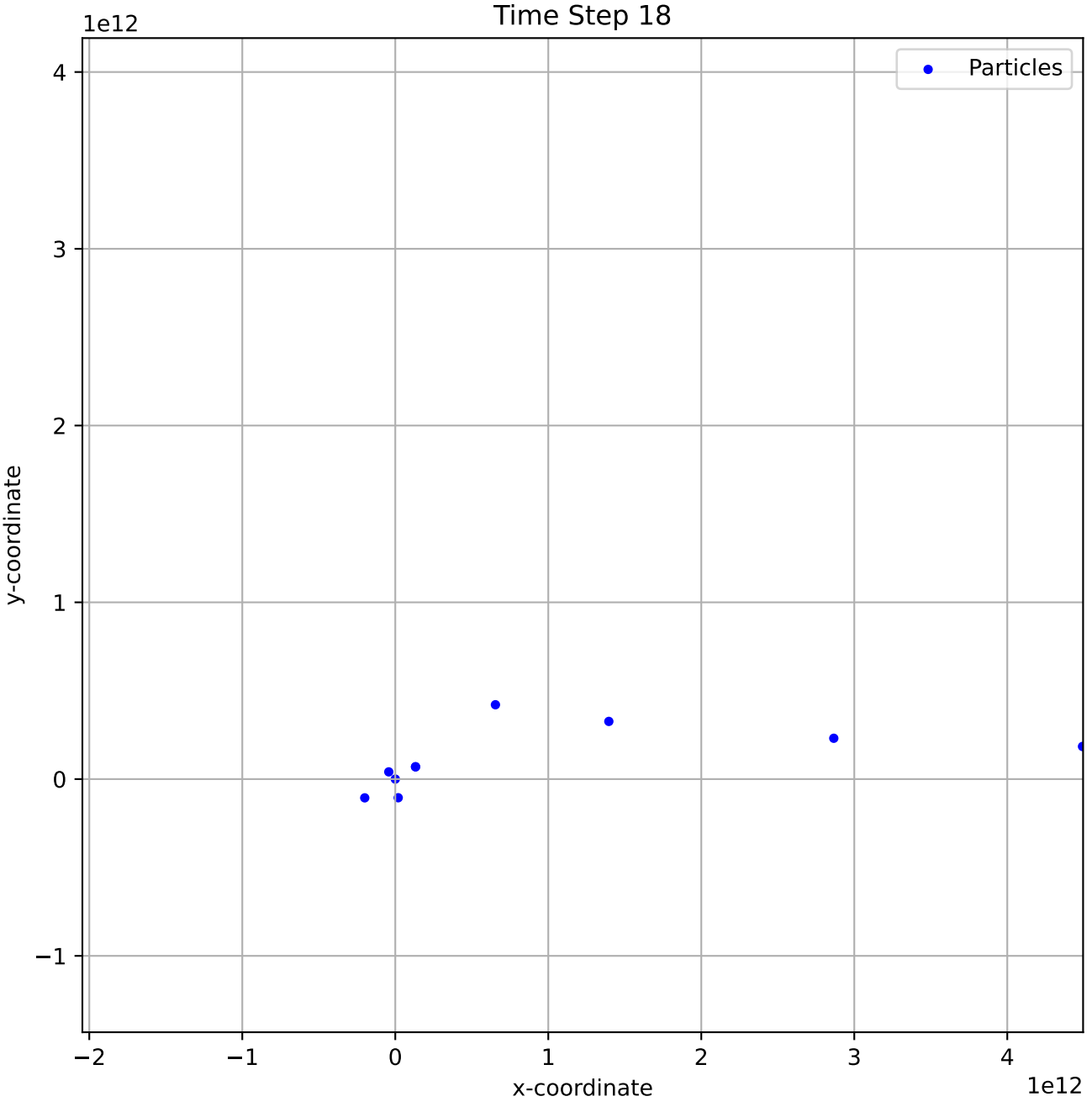

Time Step 13
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

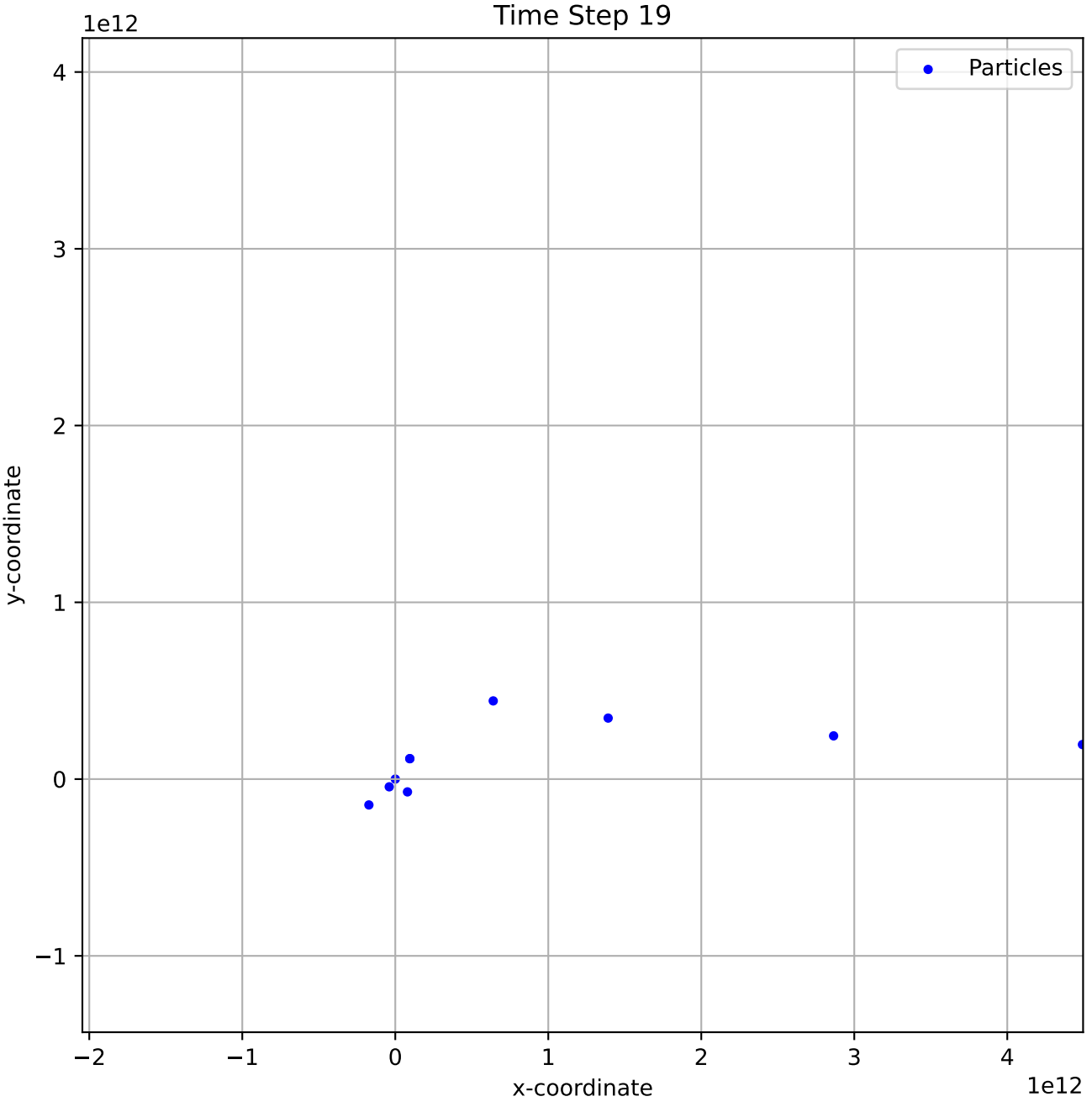

Time Step 14
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

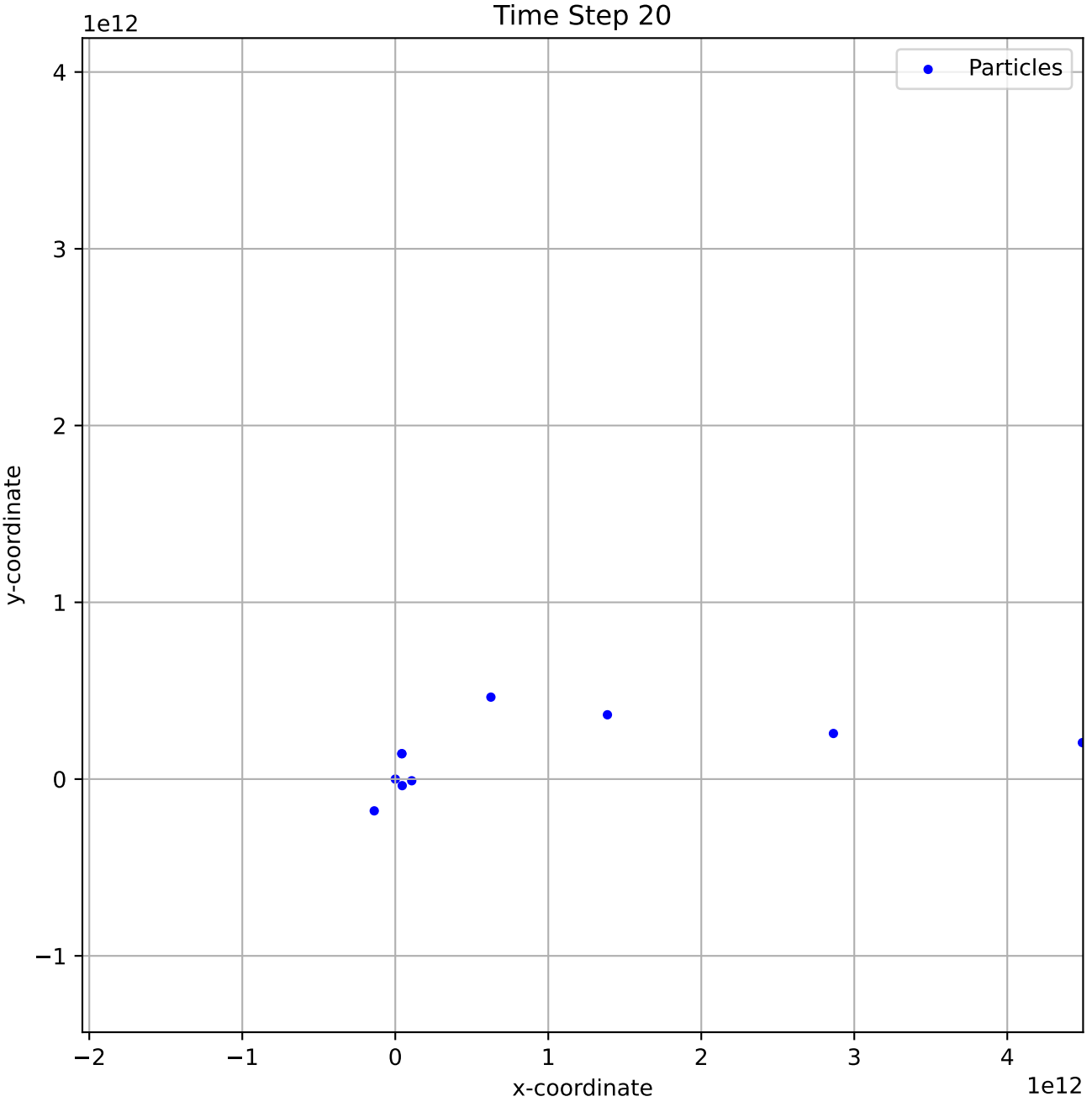

Time Step 15
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

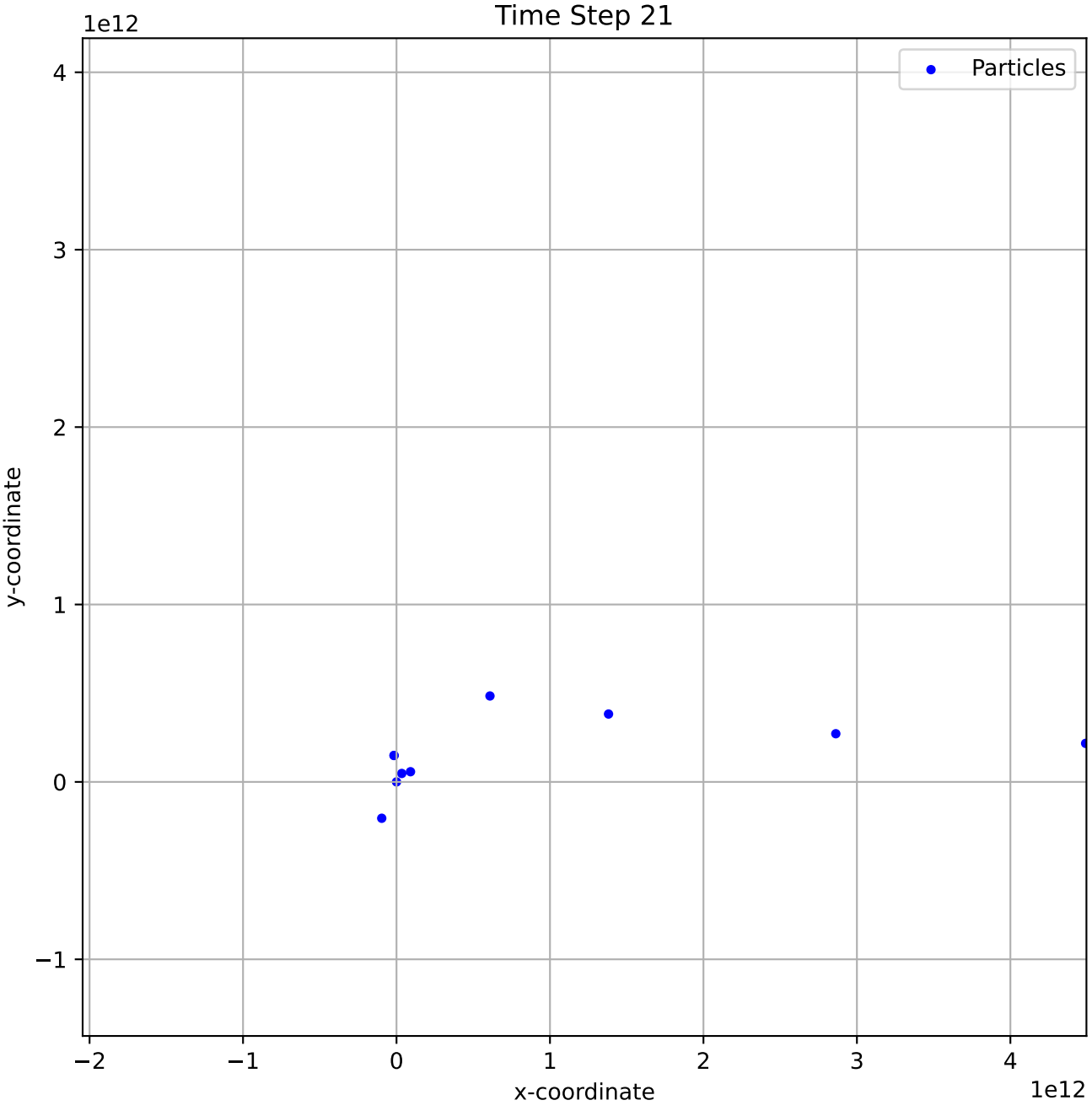

Time Step 16
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

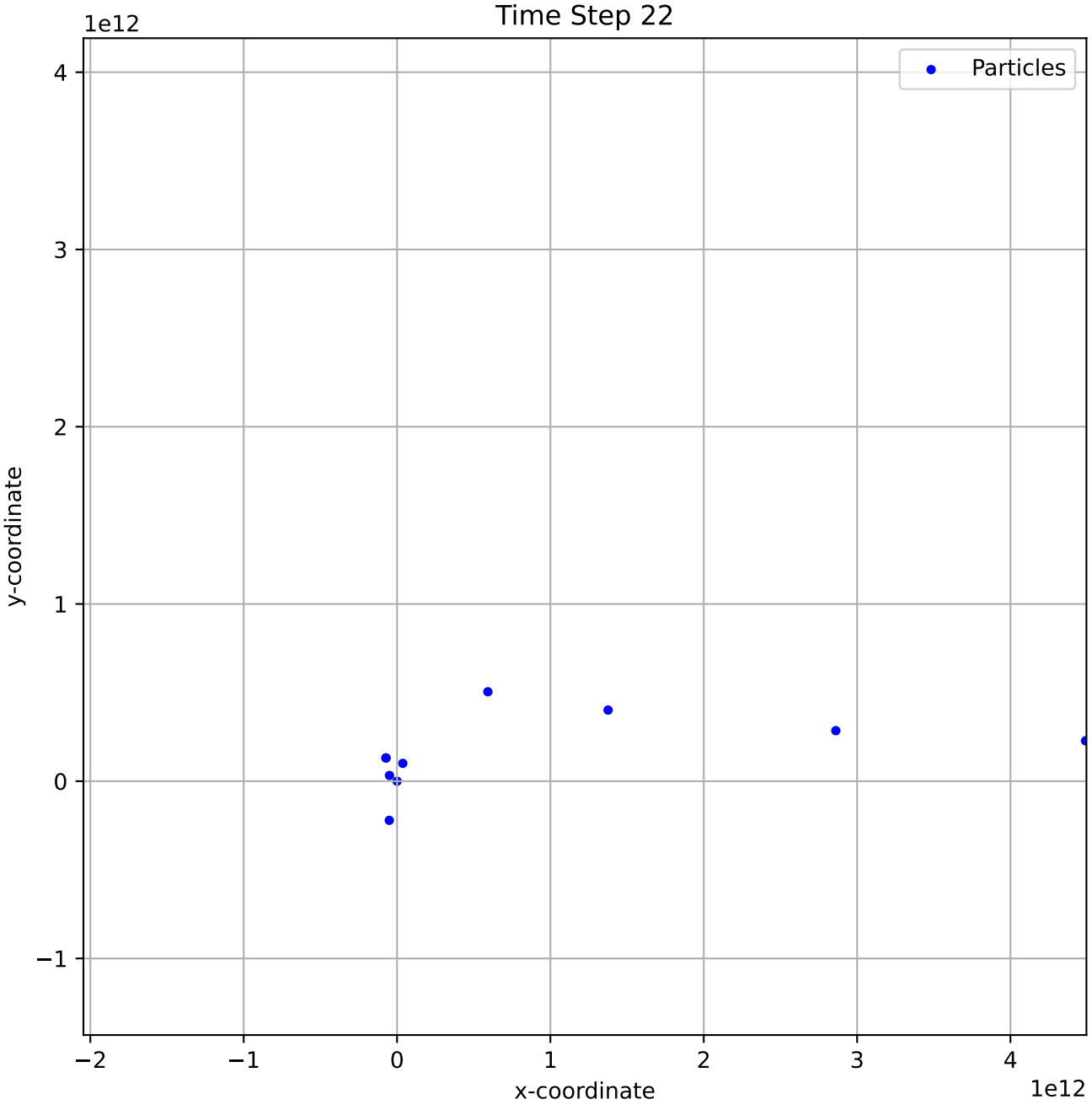

Time Step 17
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

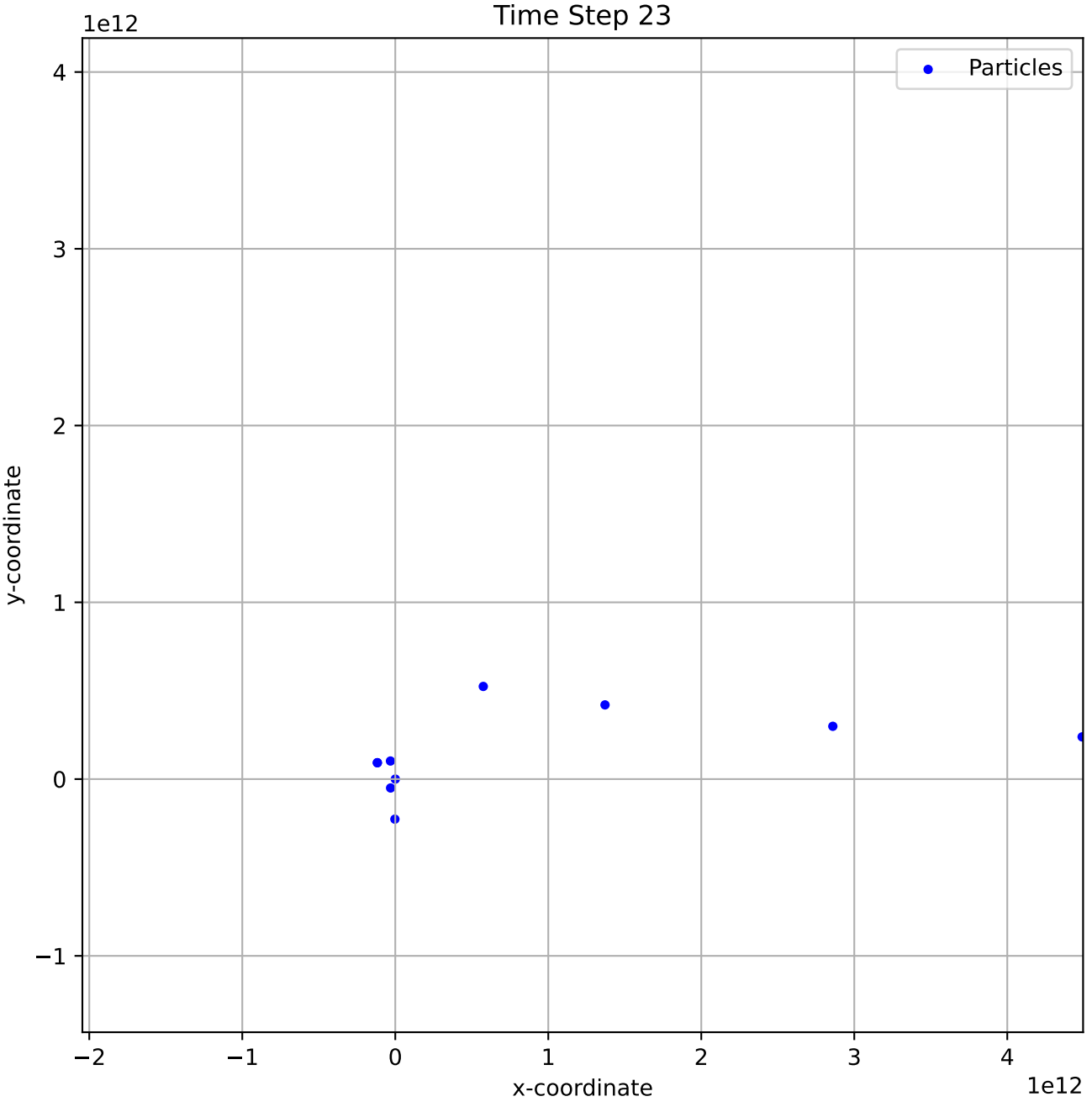

Time Step 18
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

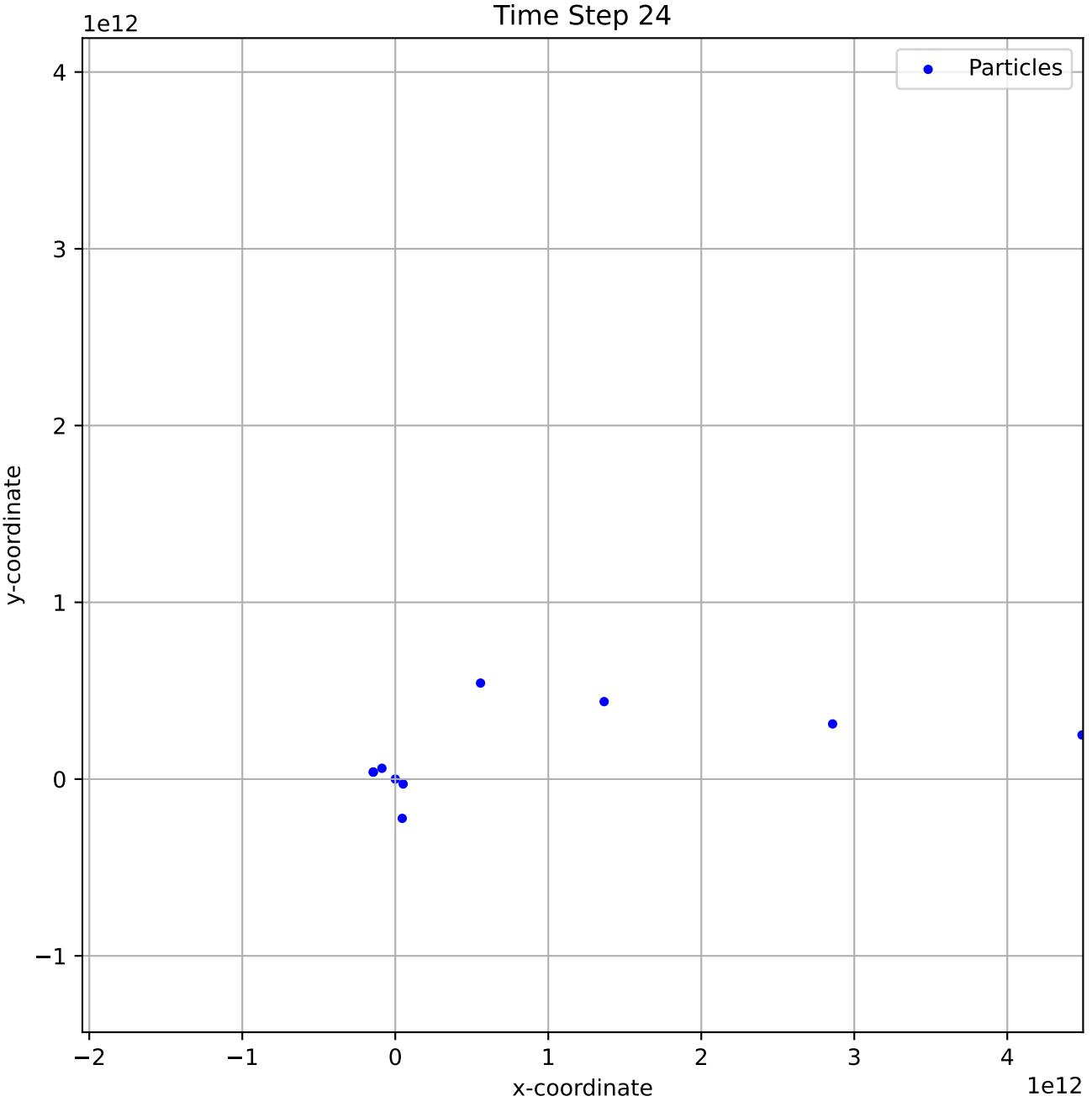

Time Step 19
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

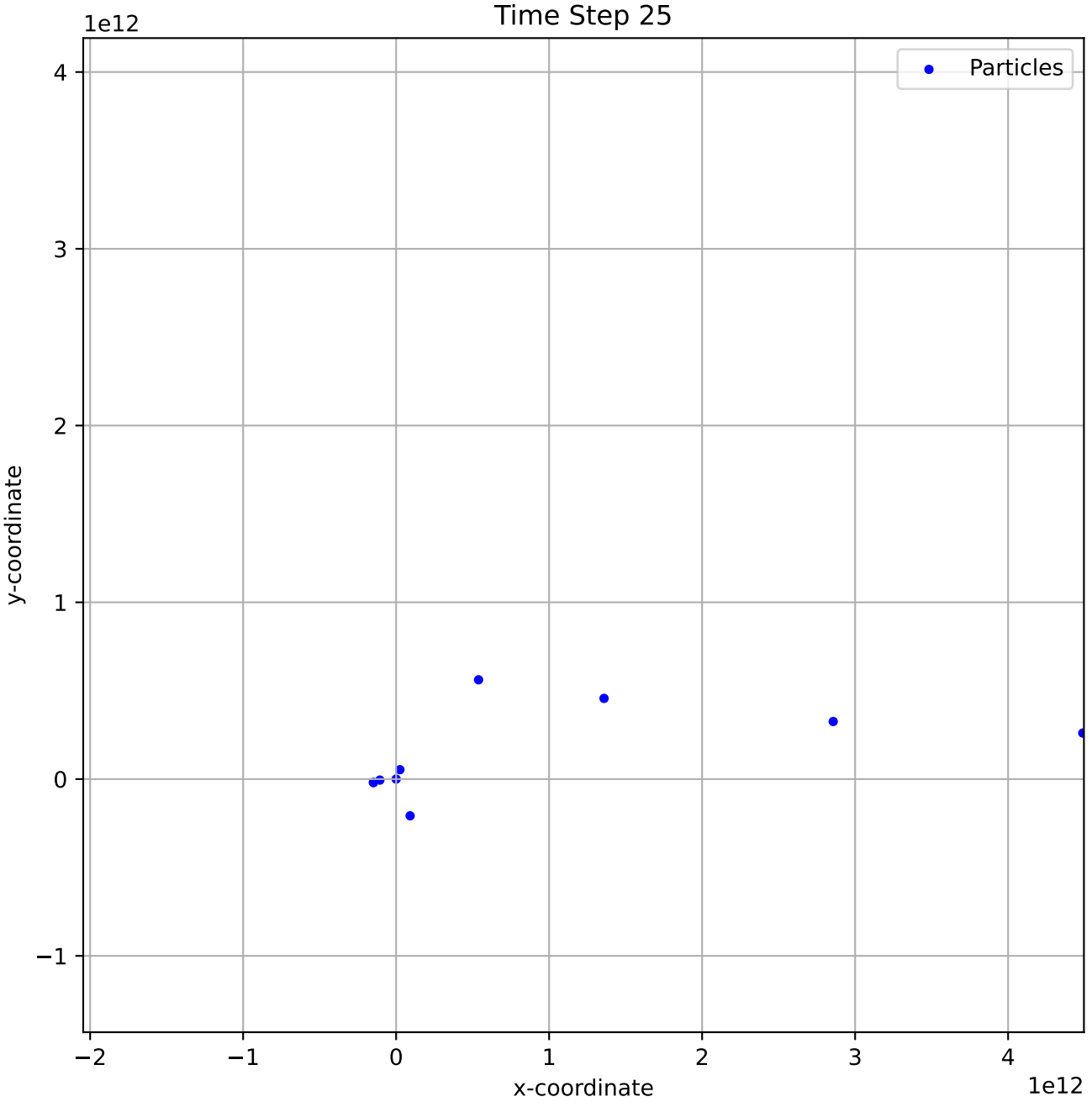

Time Step 20
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

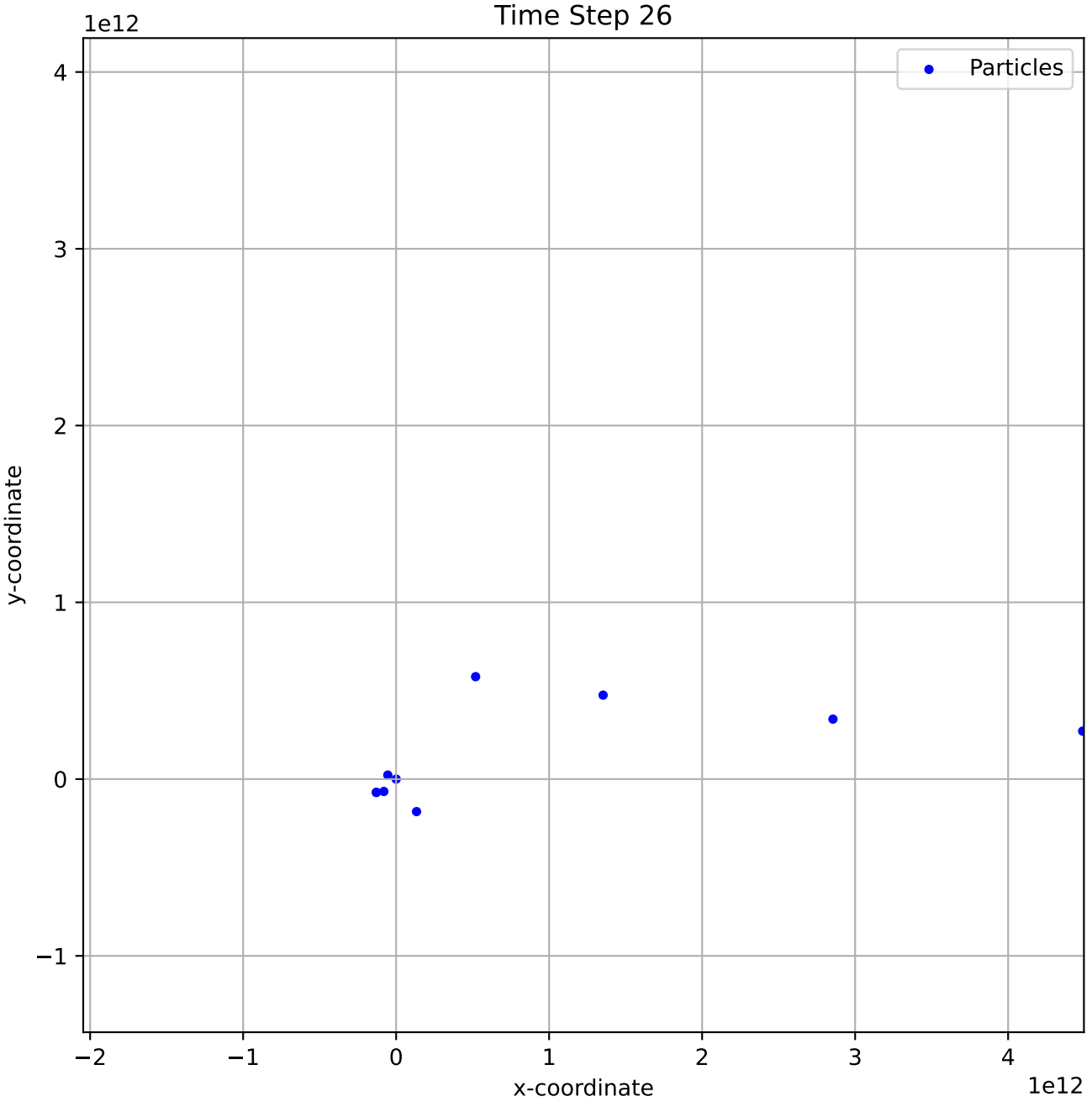

Time Step 21
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

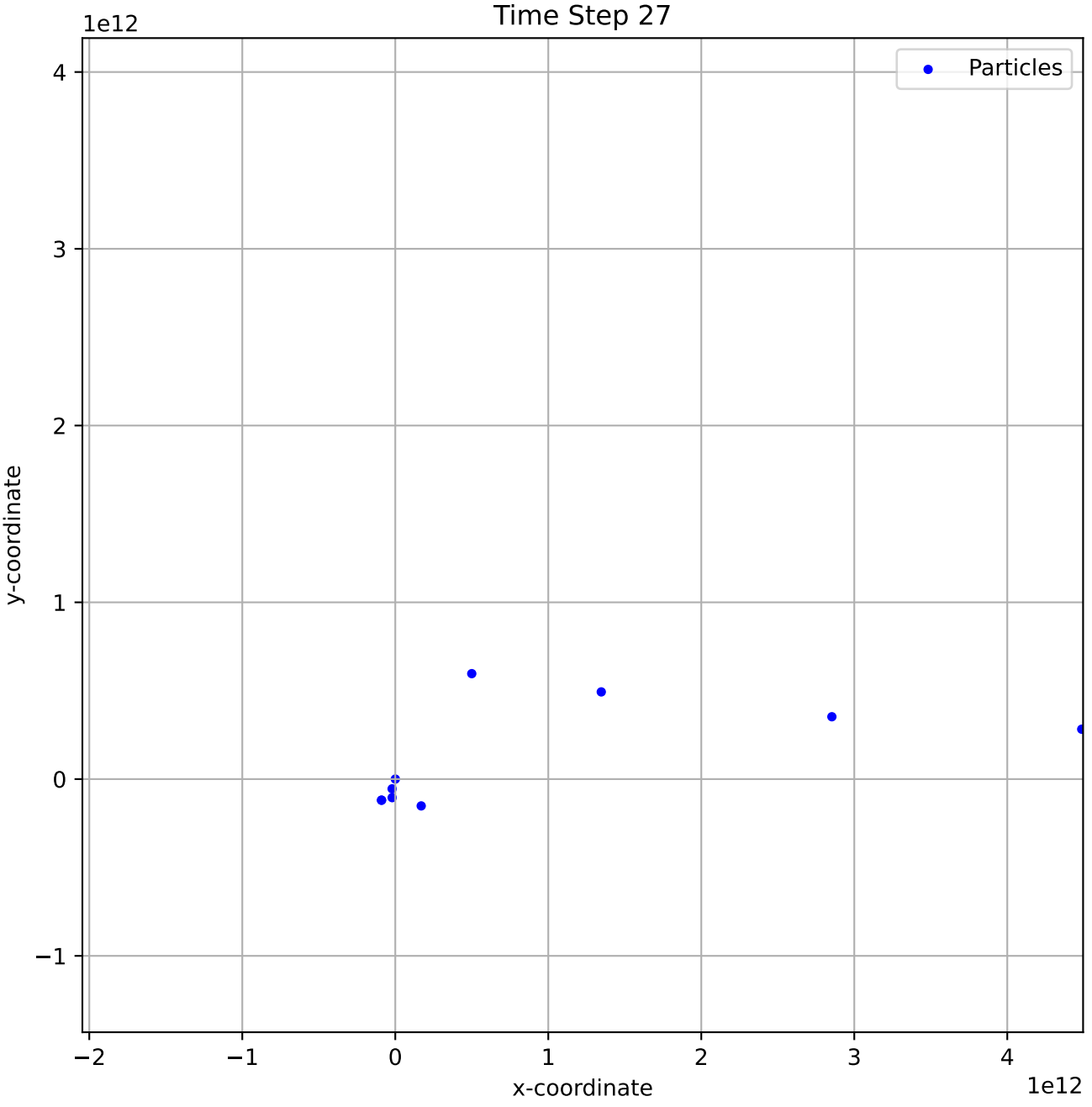

Time Step 22
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

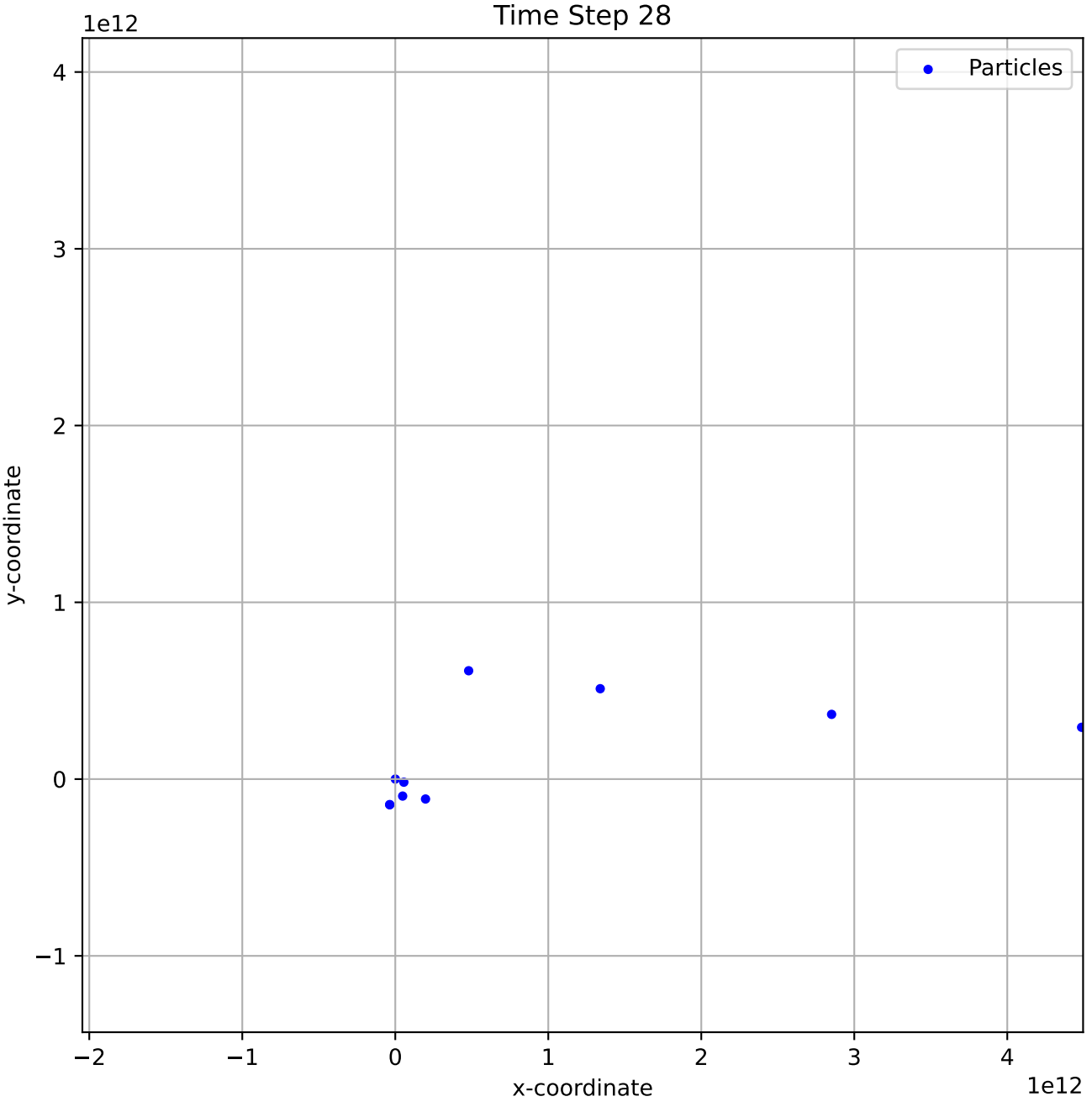

Time Step 23
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

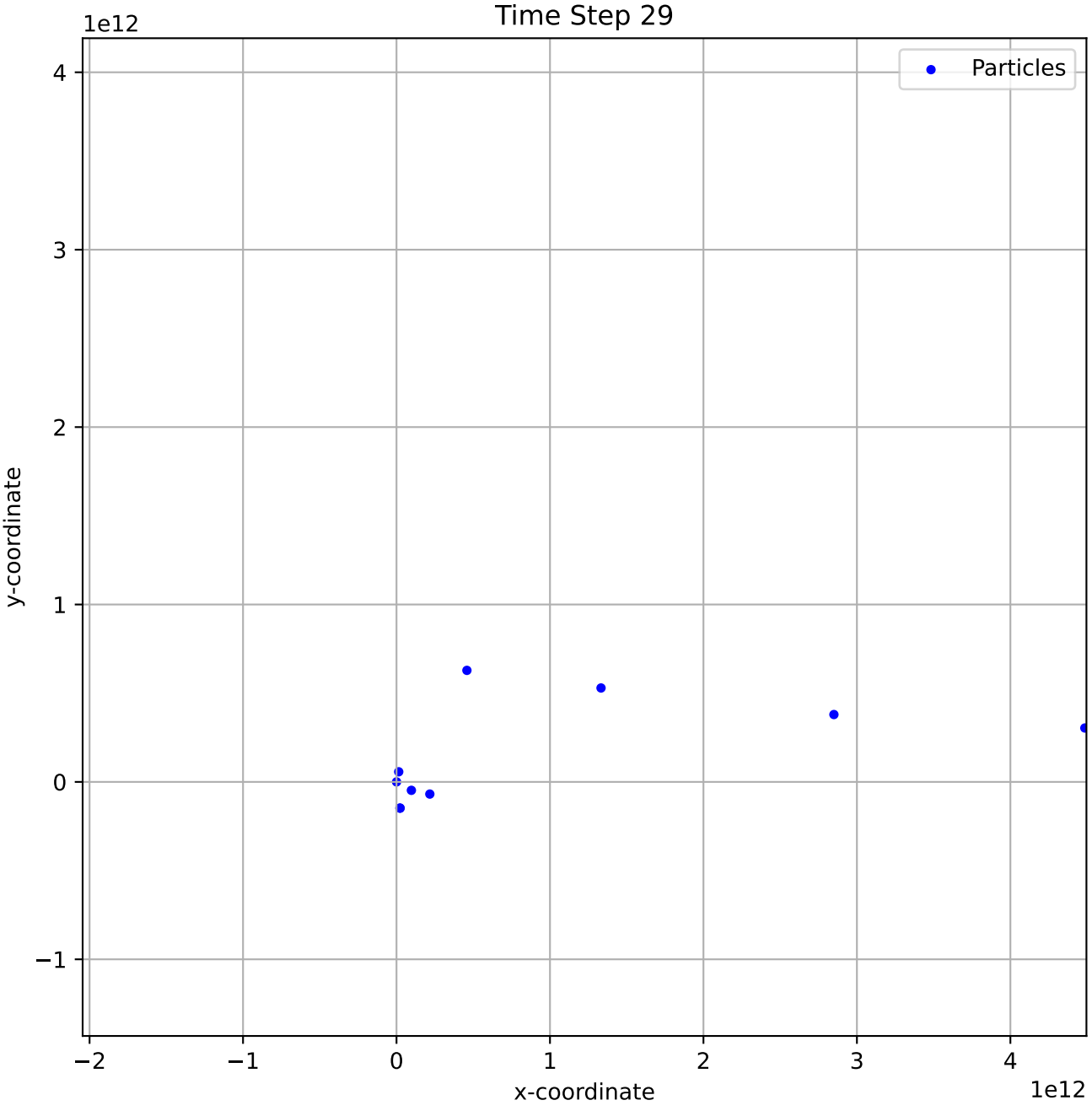

Time Step 24
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

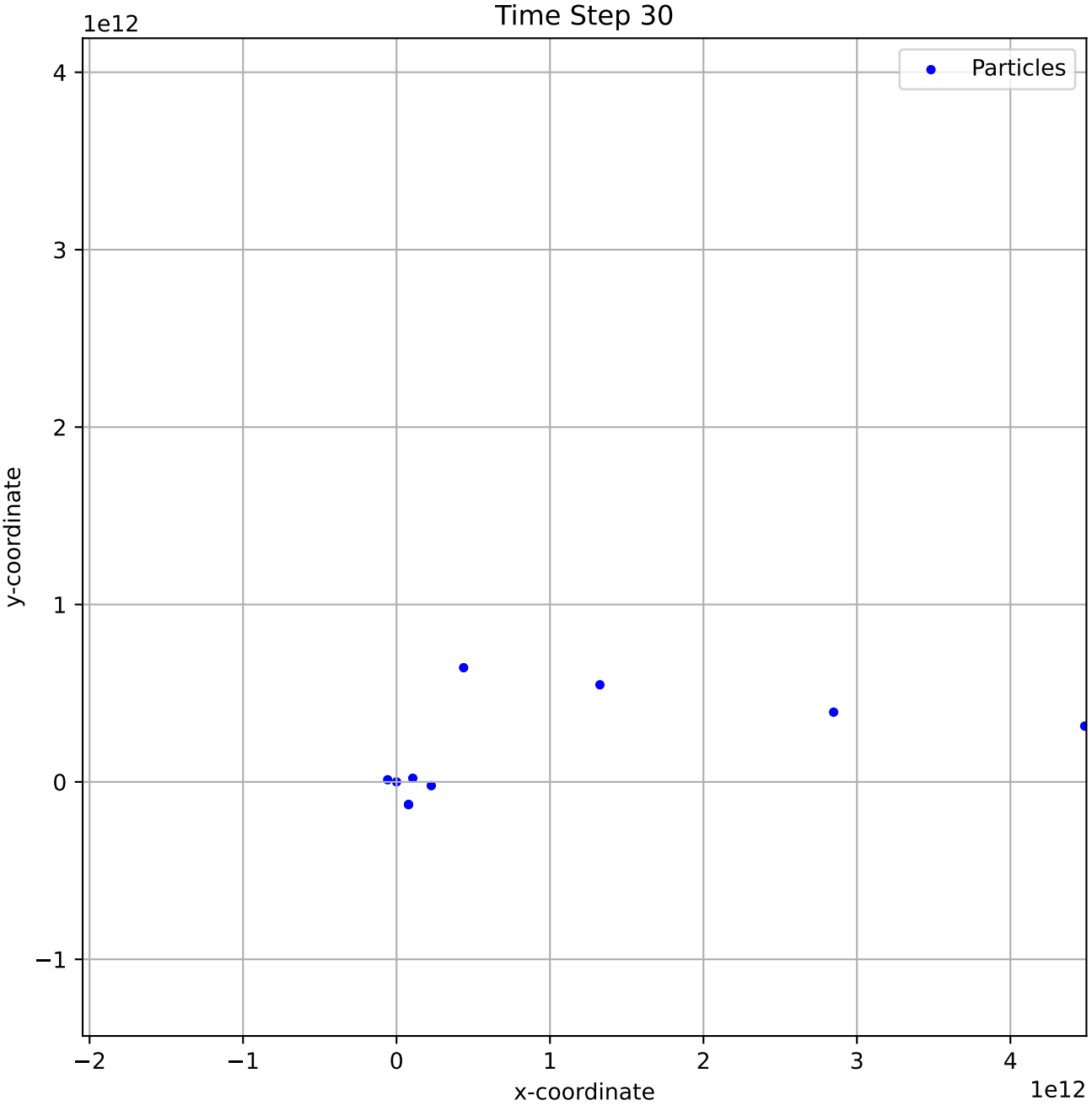

Time Step 25
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

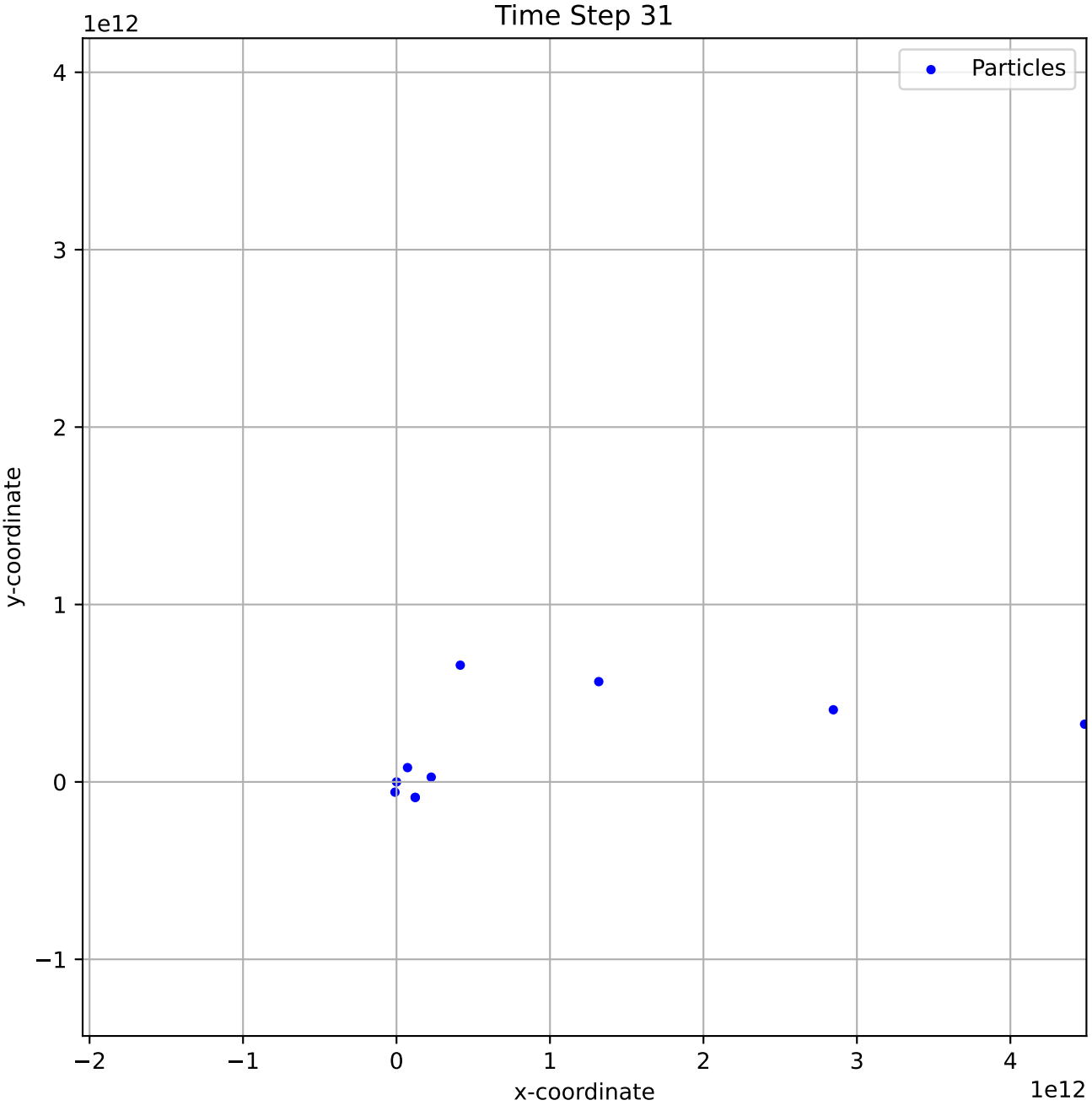

Time Step 26
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

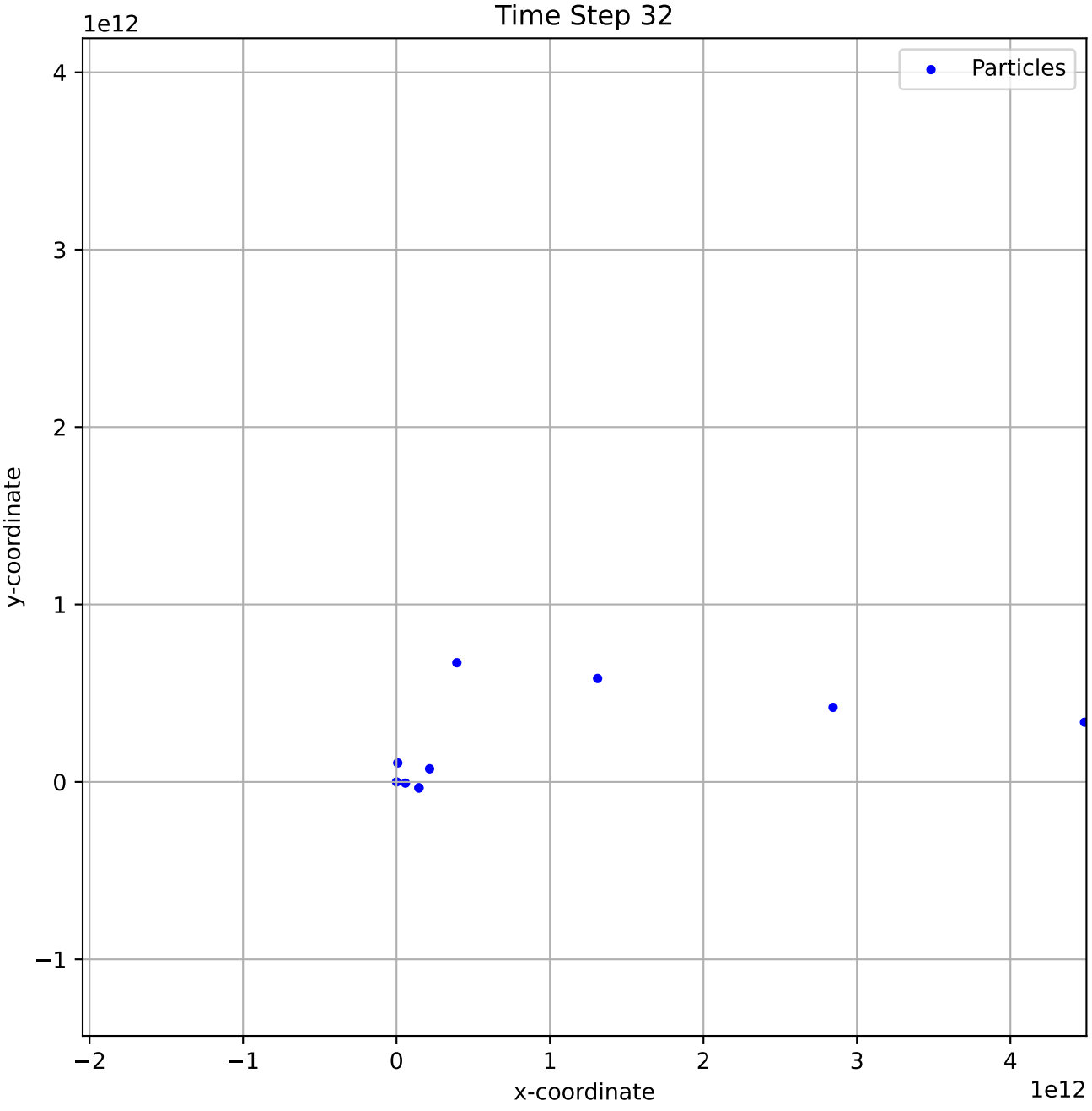

Time Step 27
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

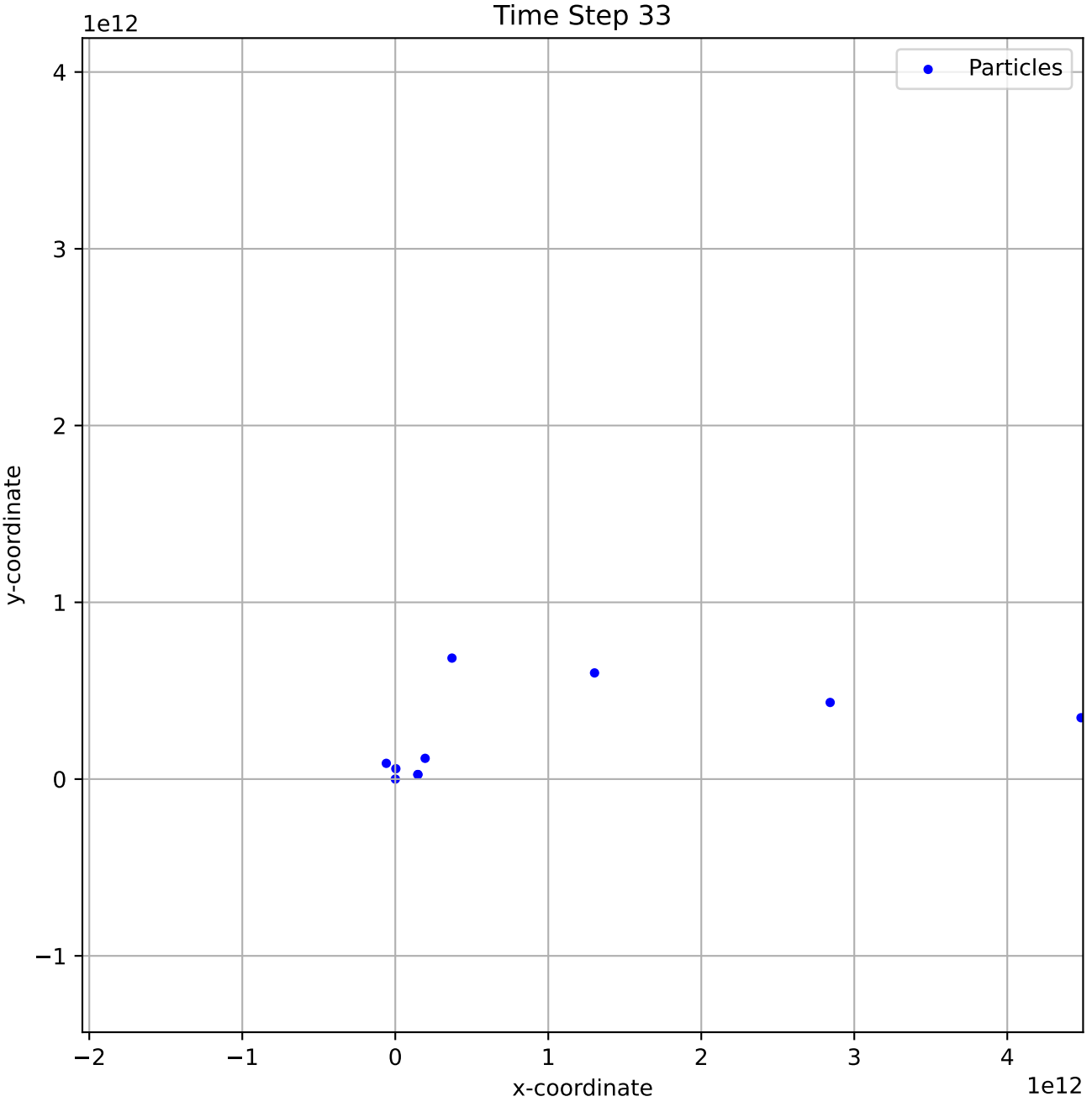

Time Step 28
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

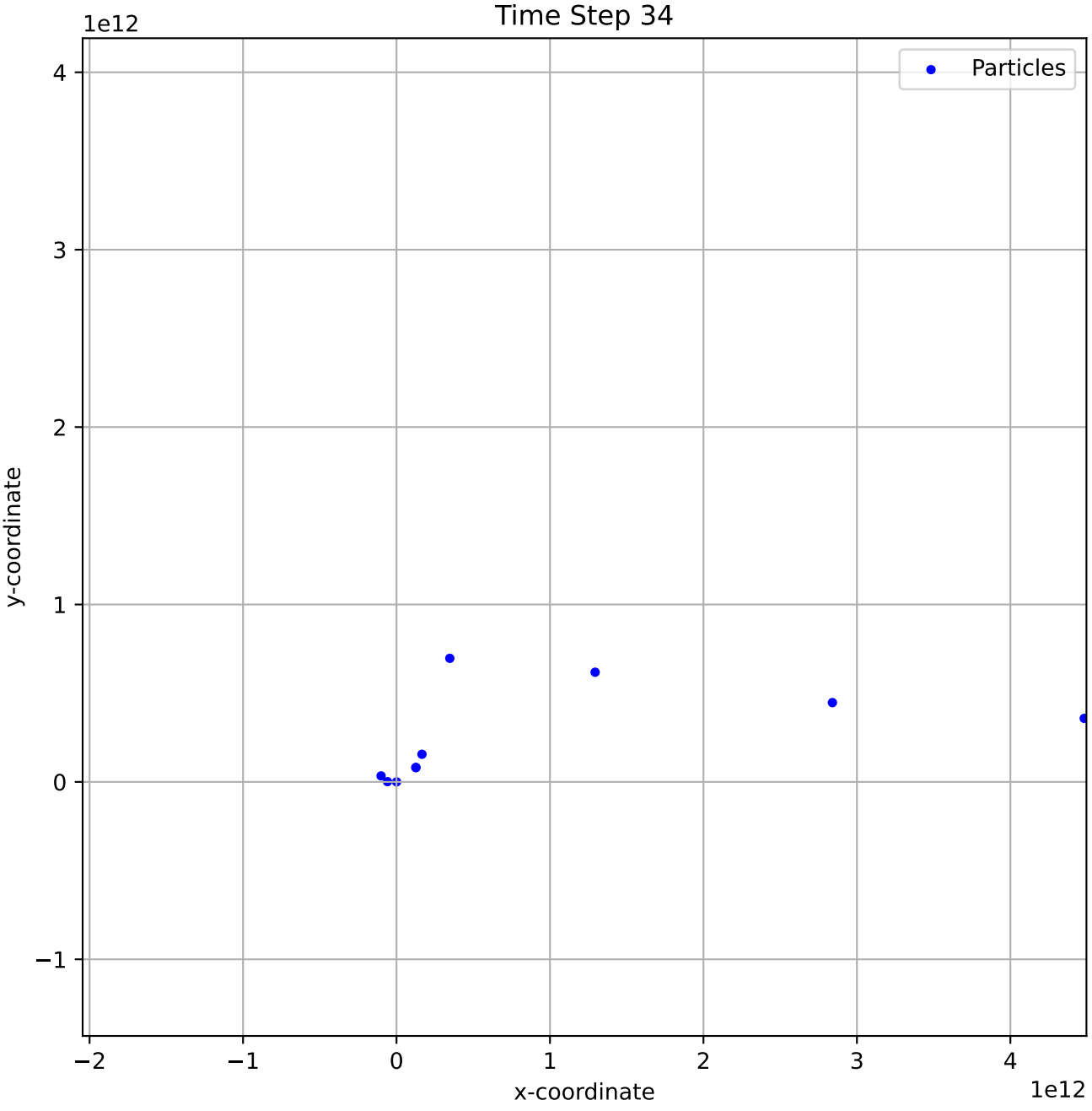

Time Step 29
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

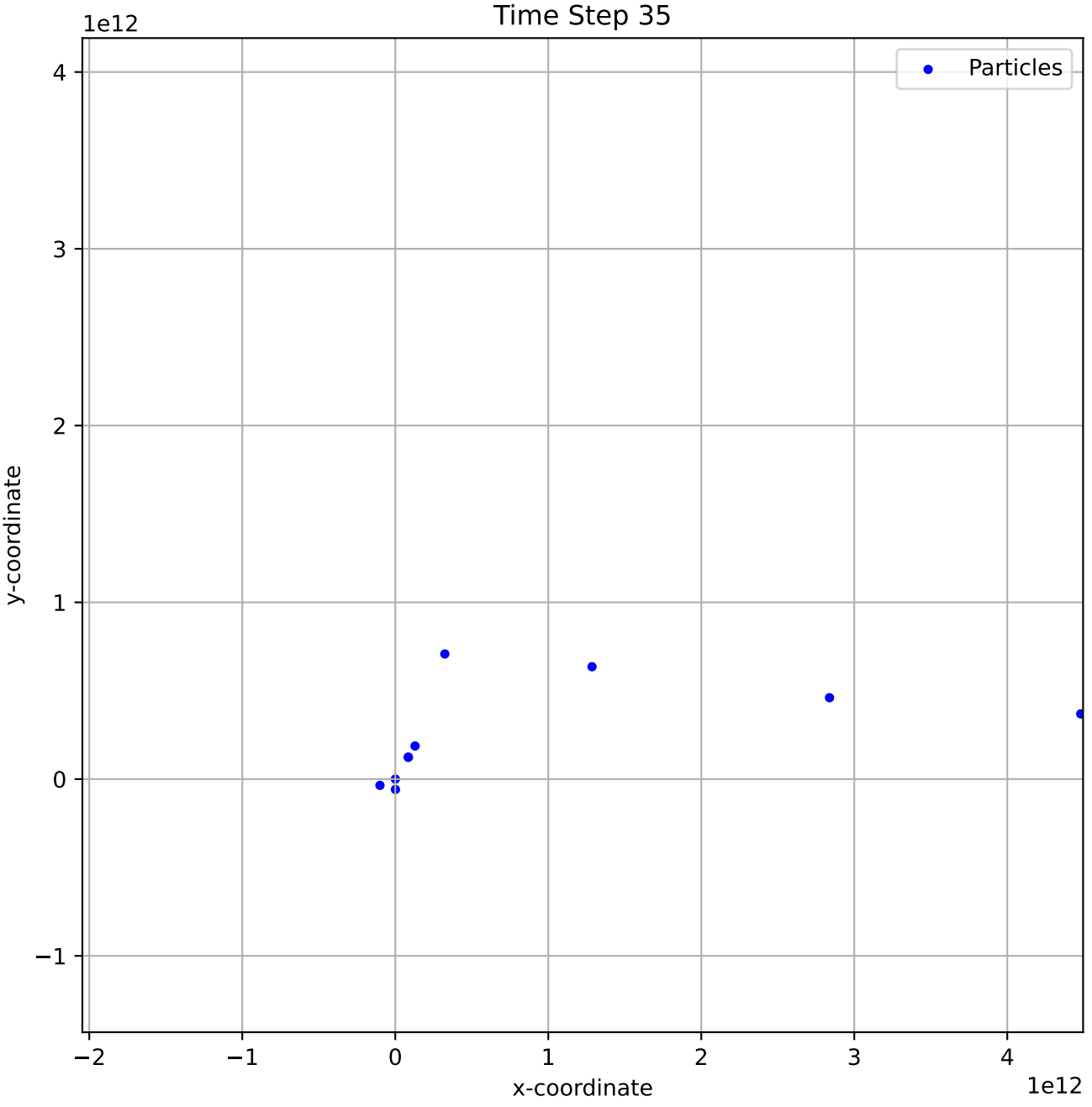

Time Step 30
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

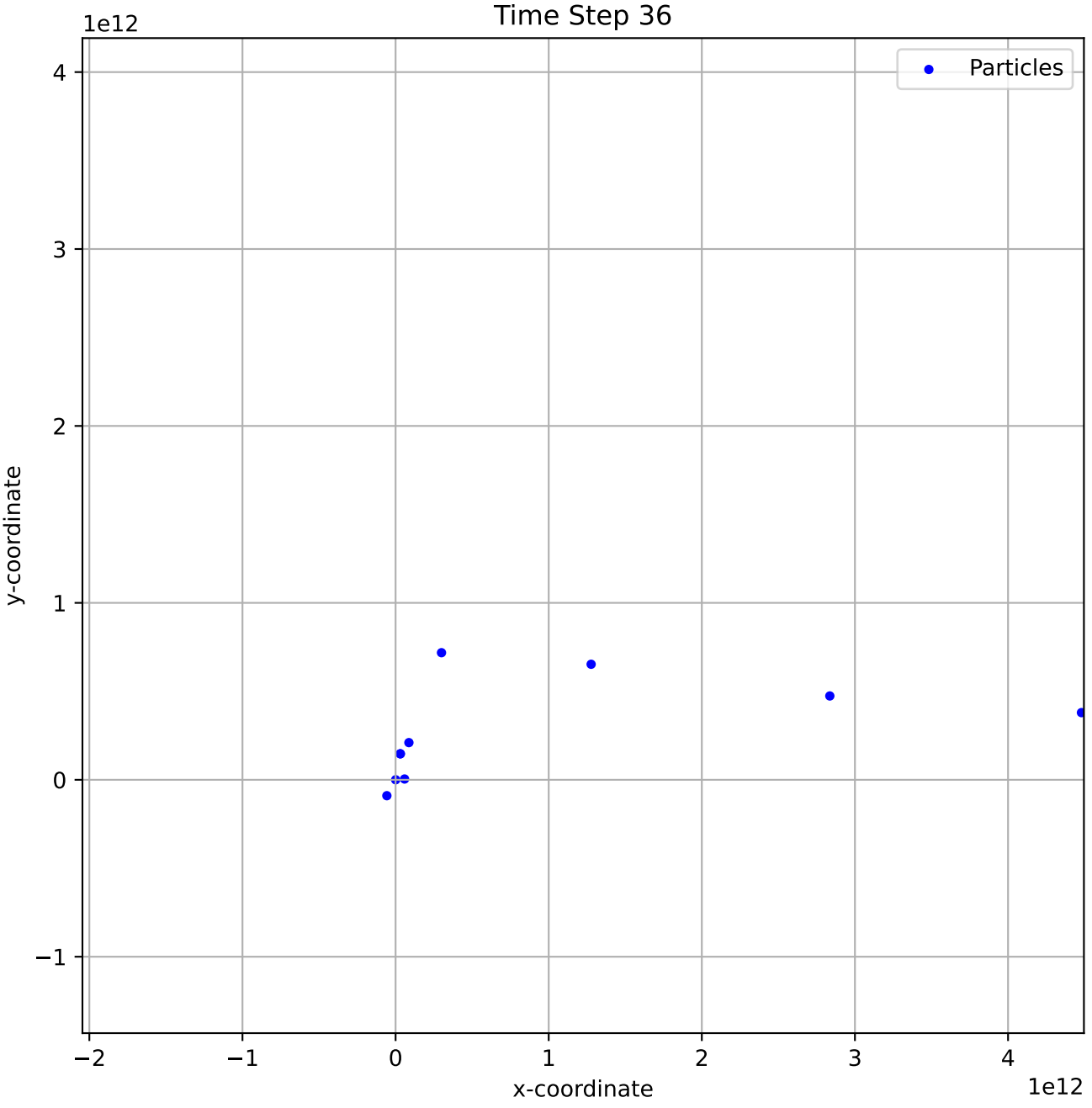

Time Step 31
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

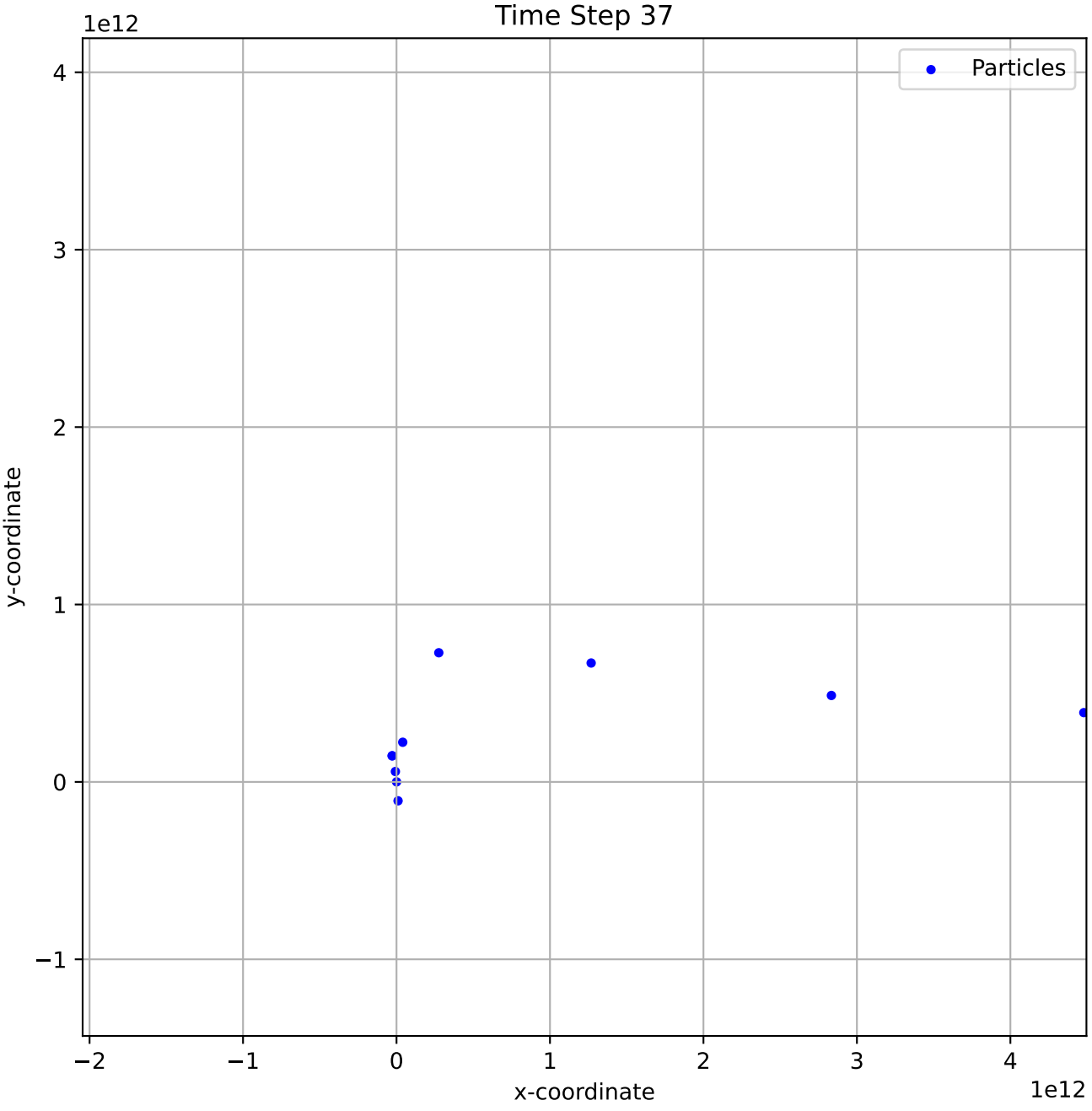

Time Step 32
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

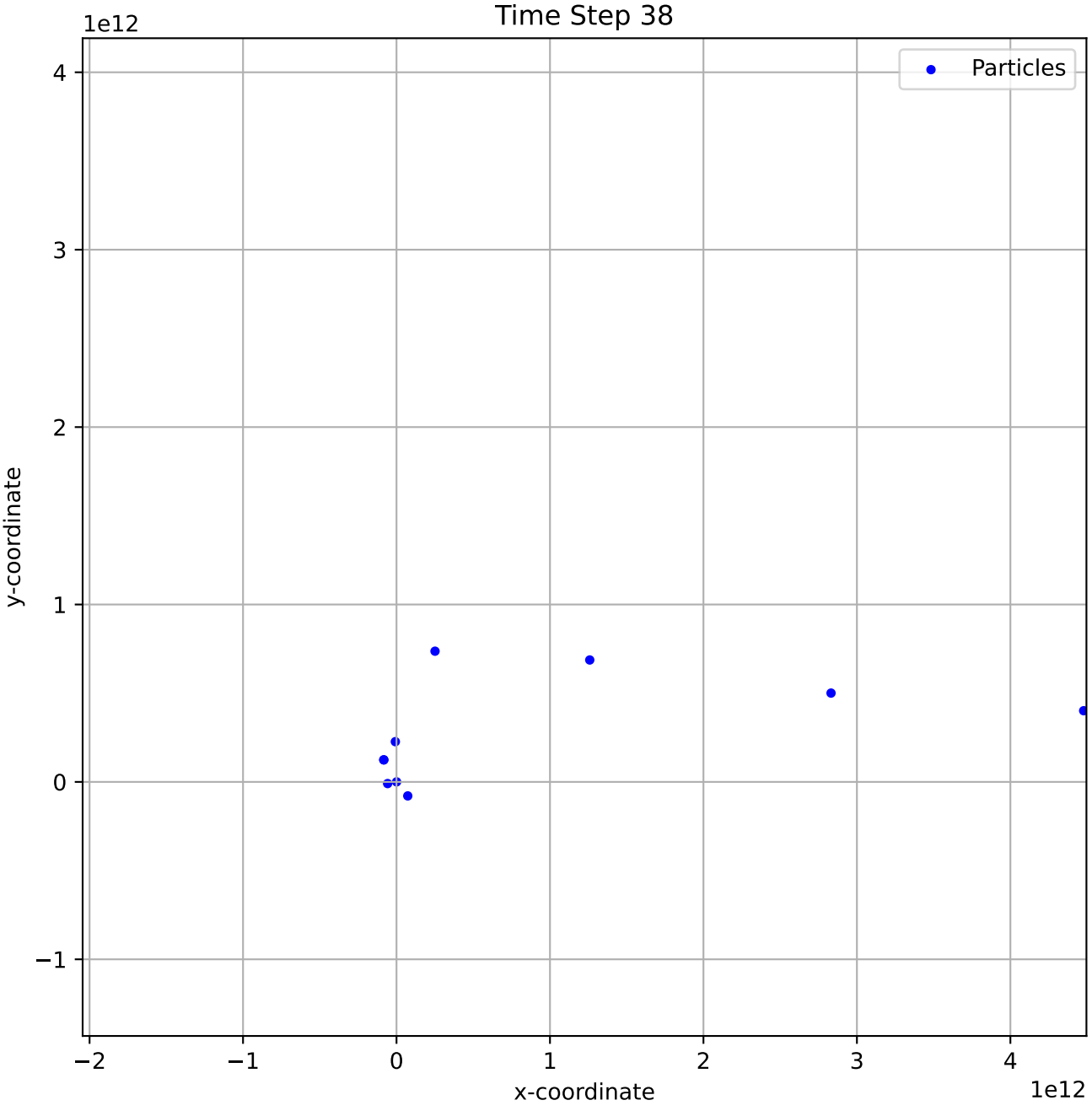

Time Step 33
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

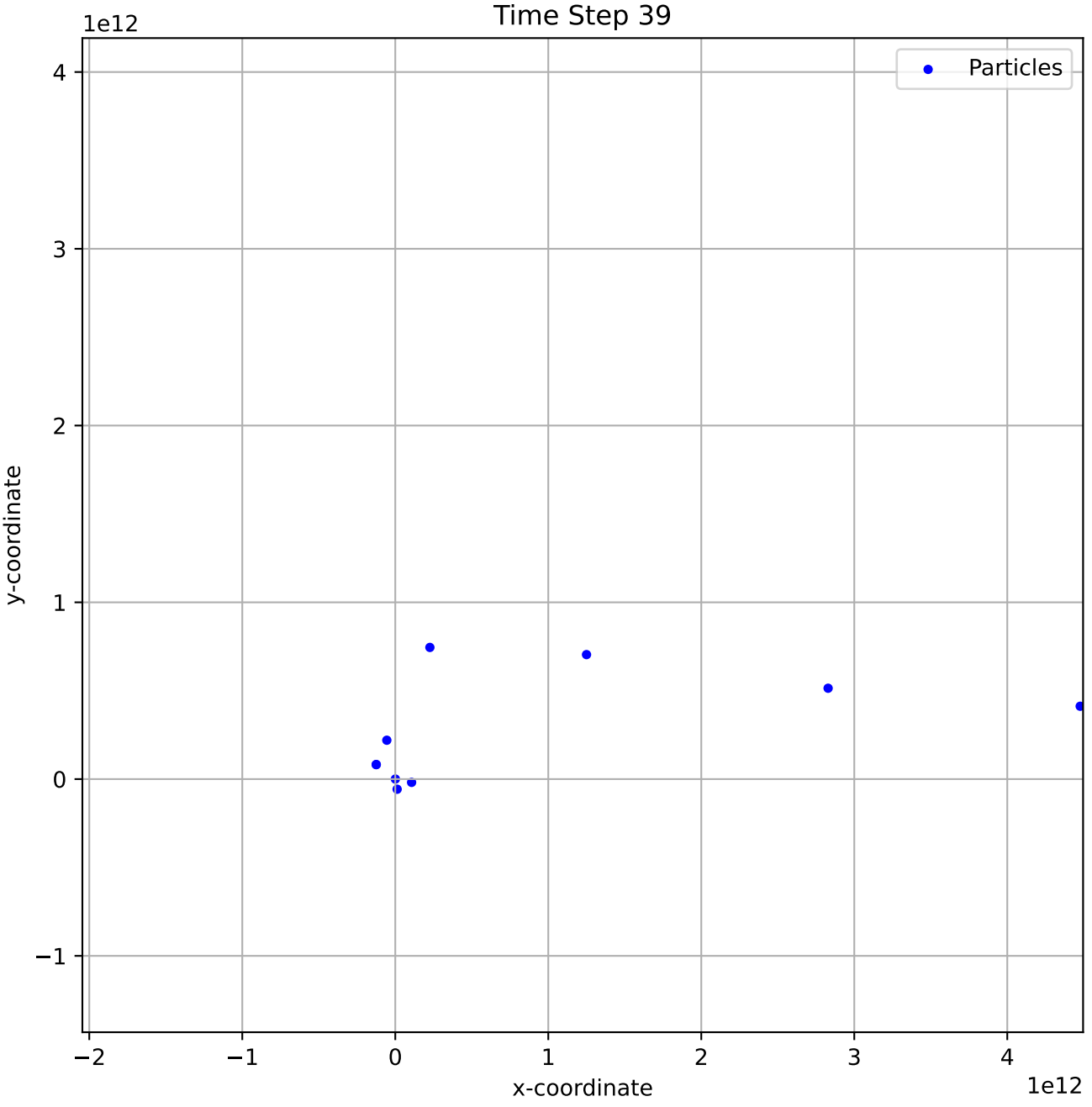

Time Step 34
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

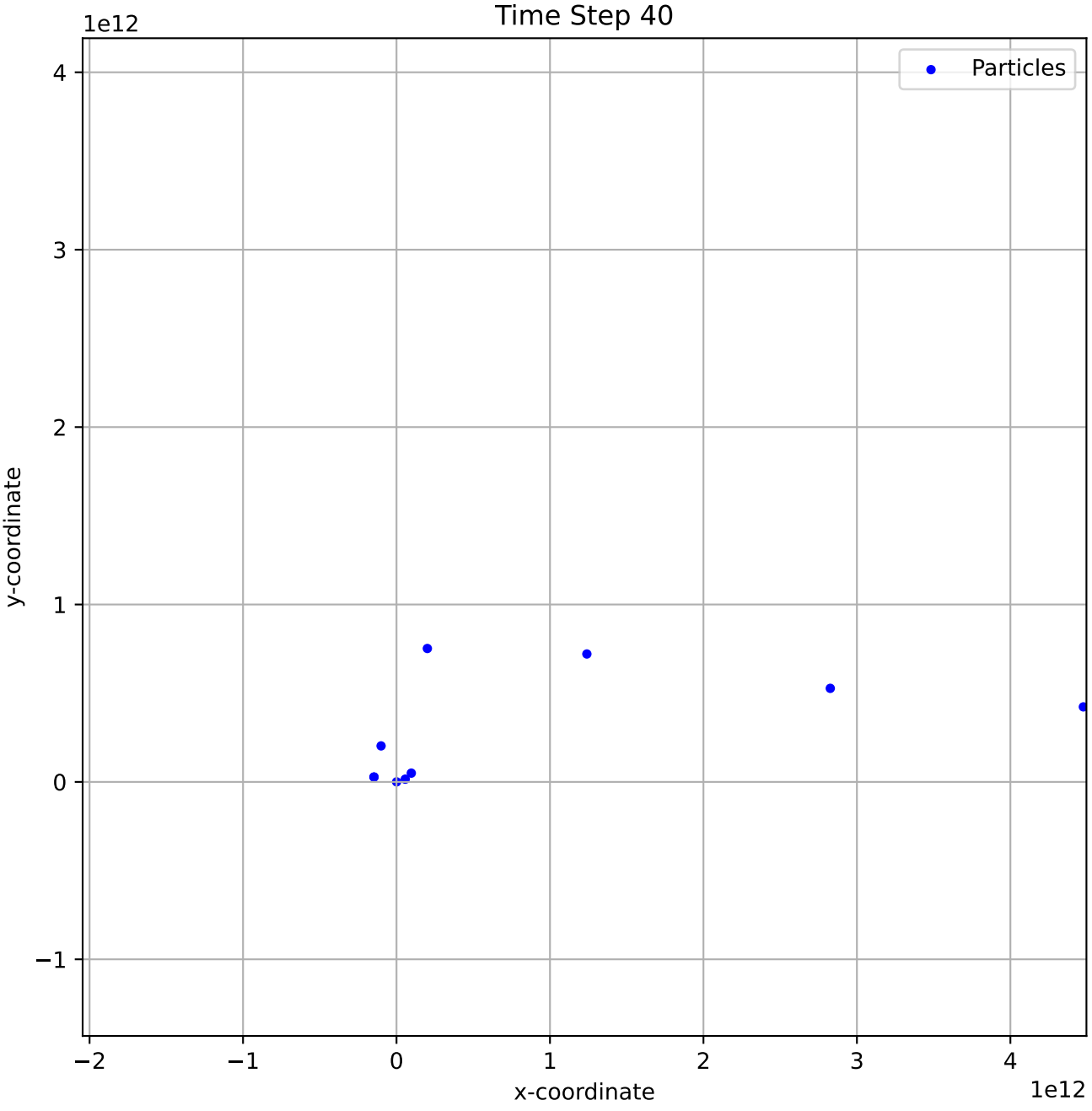

Time Step 35
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

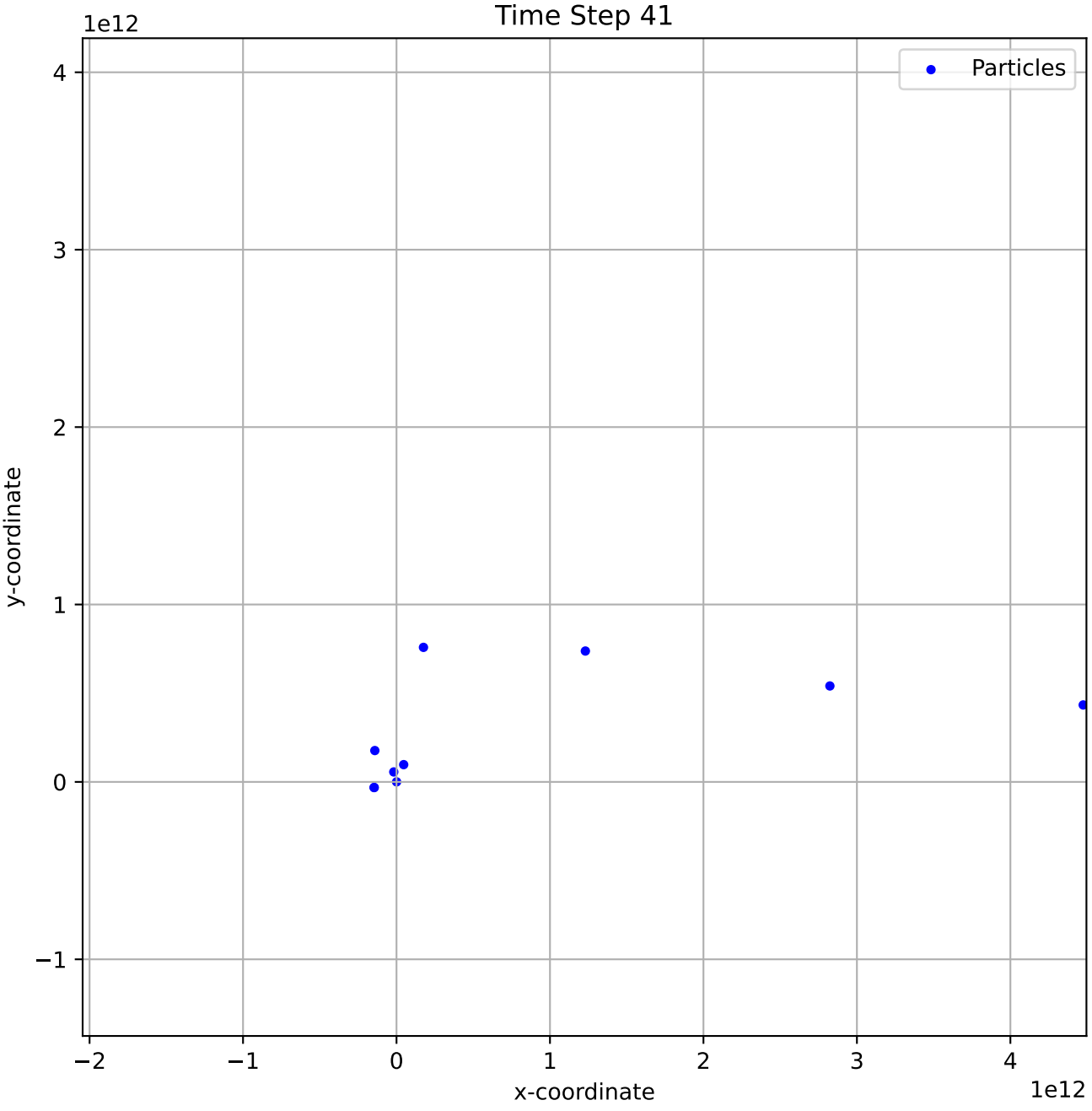

Time Step 36
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

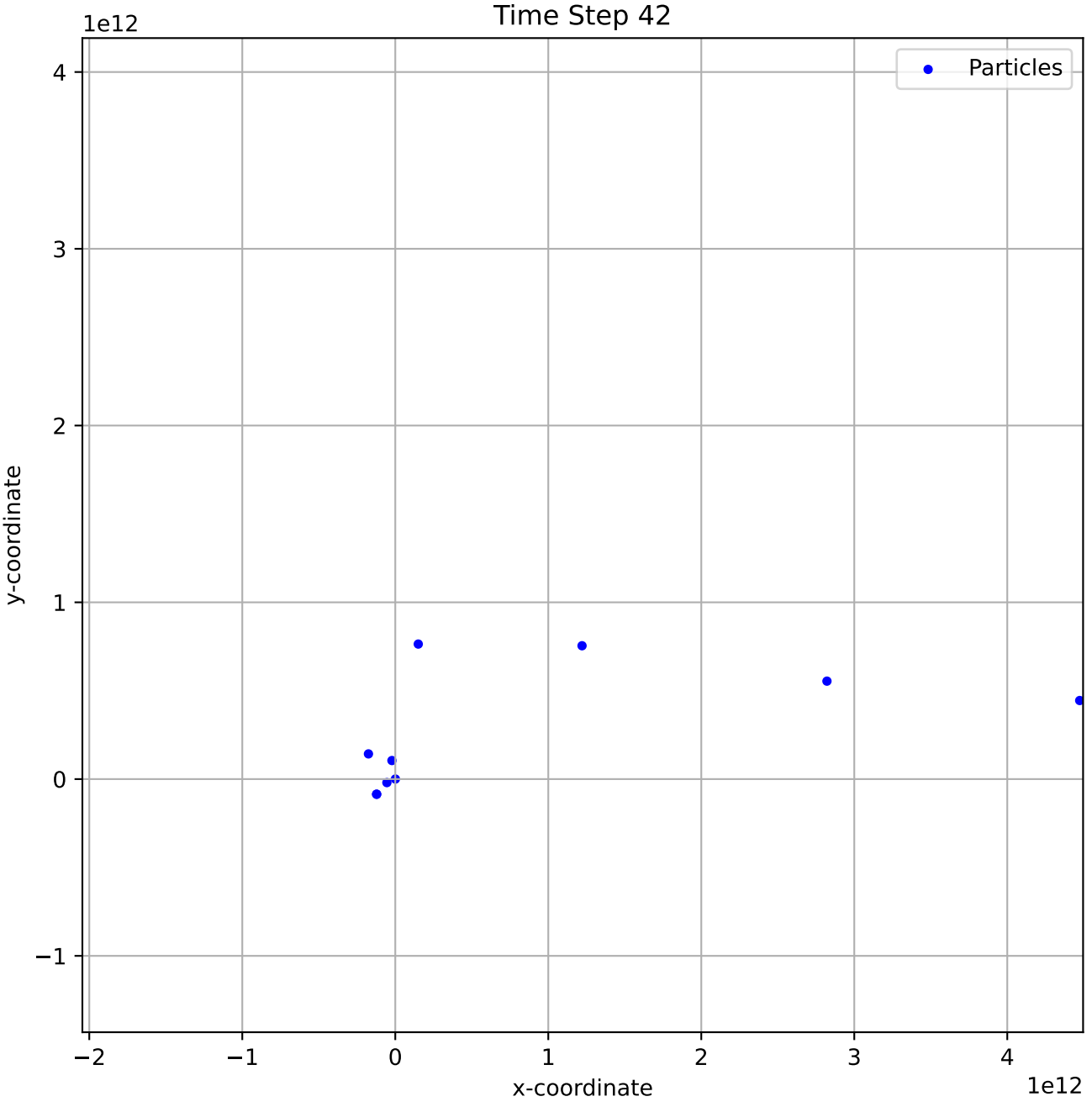

Time Step 37
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

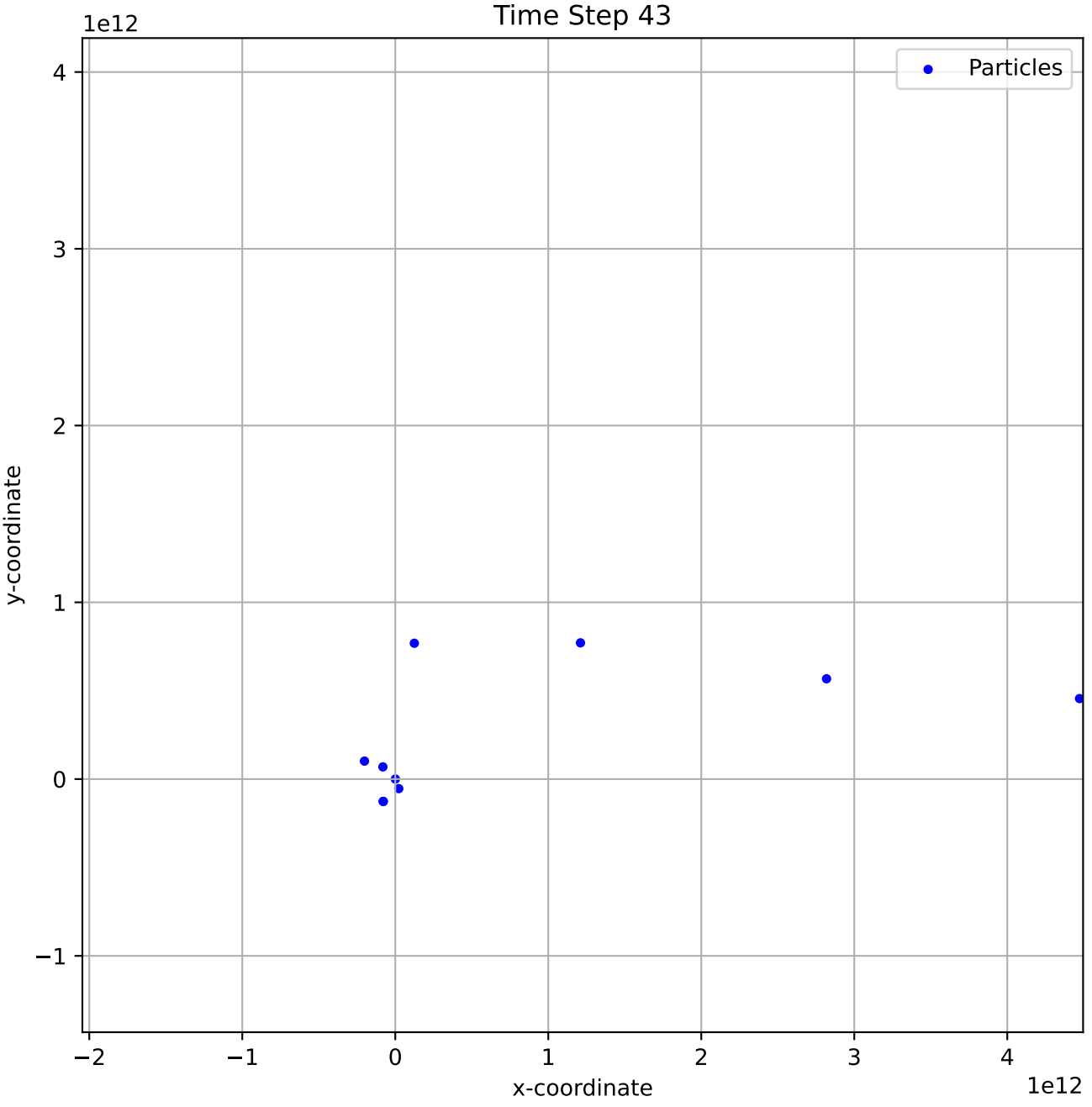

Time Step 38
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

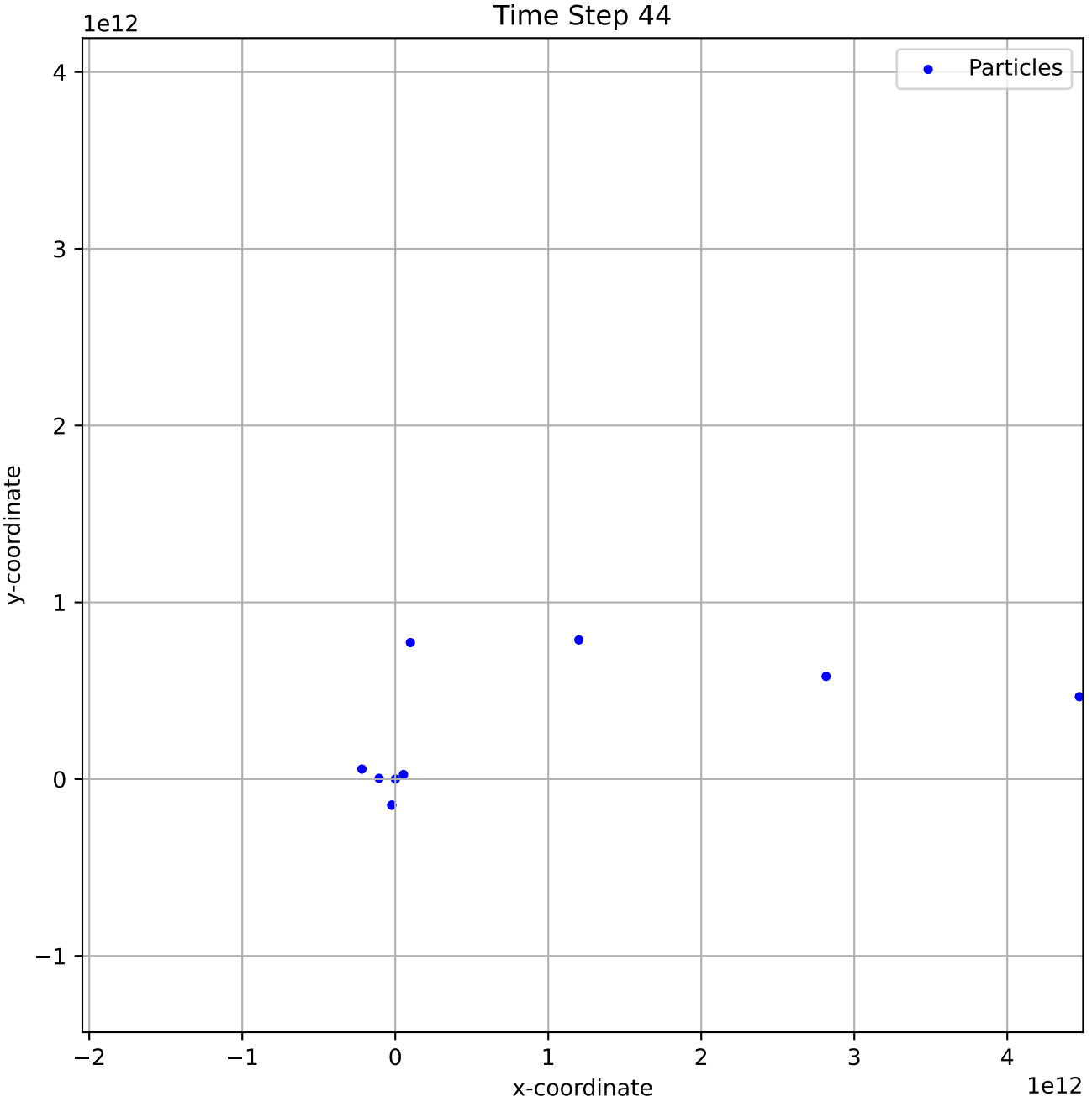

Time Step 39
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

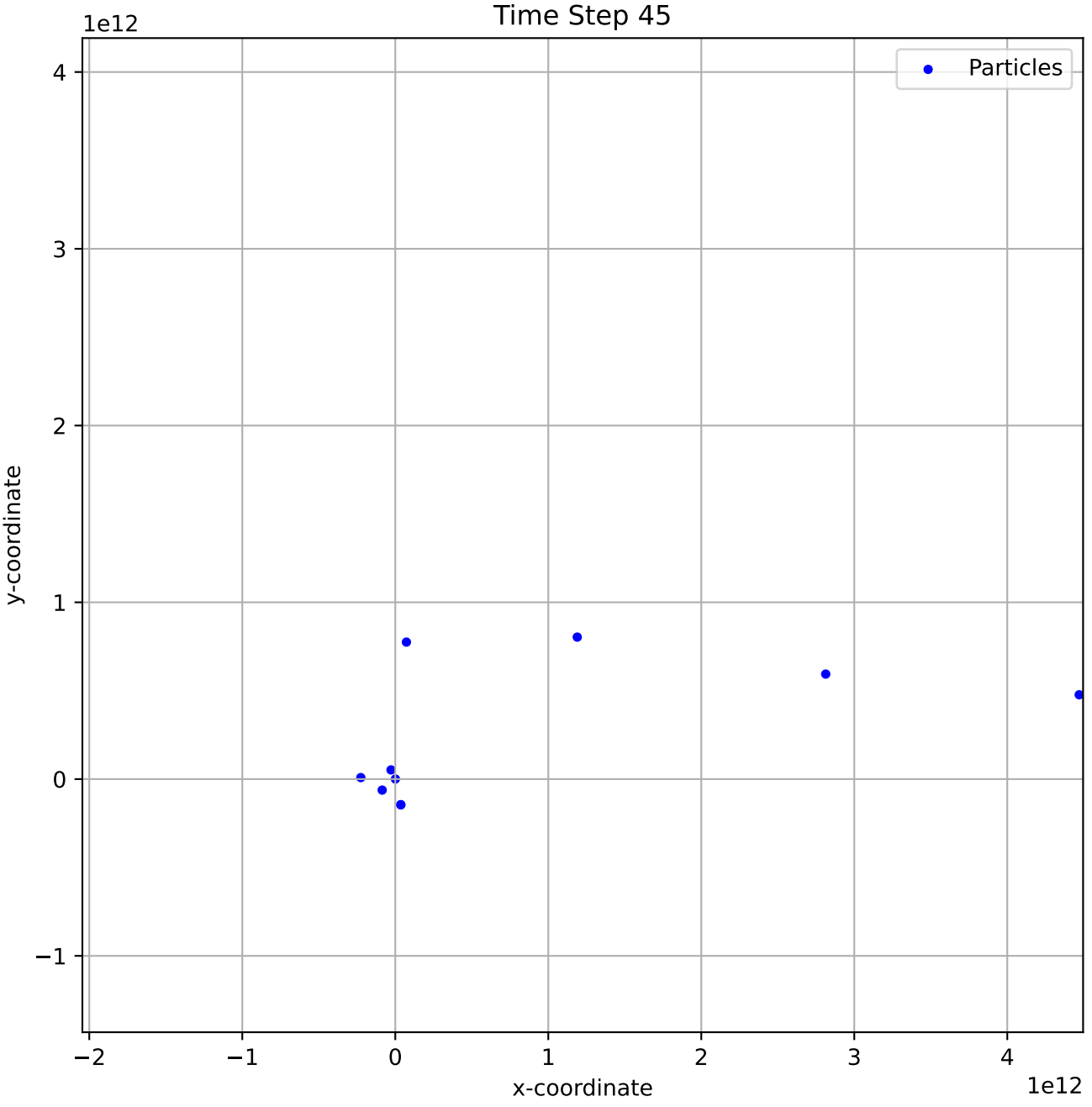

Time Step 40
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

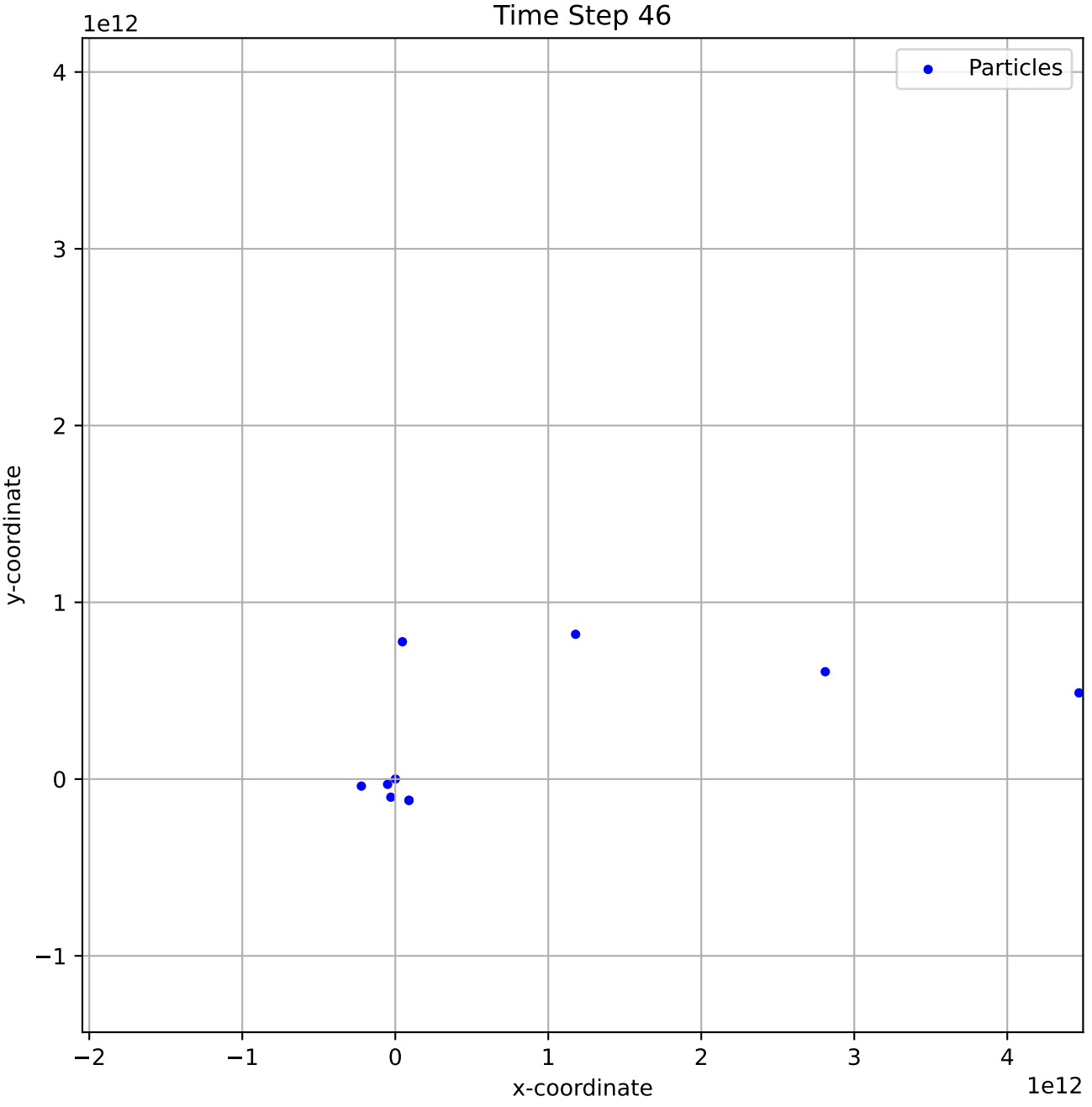

Time Step 41
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

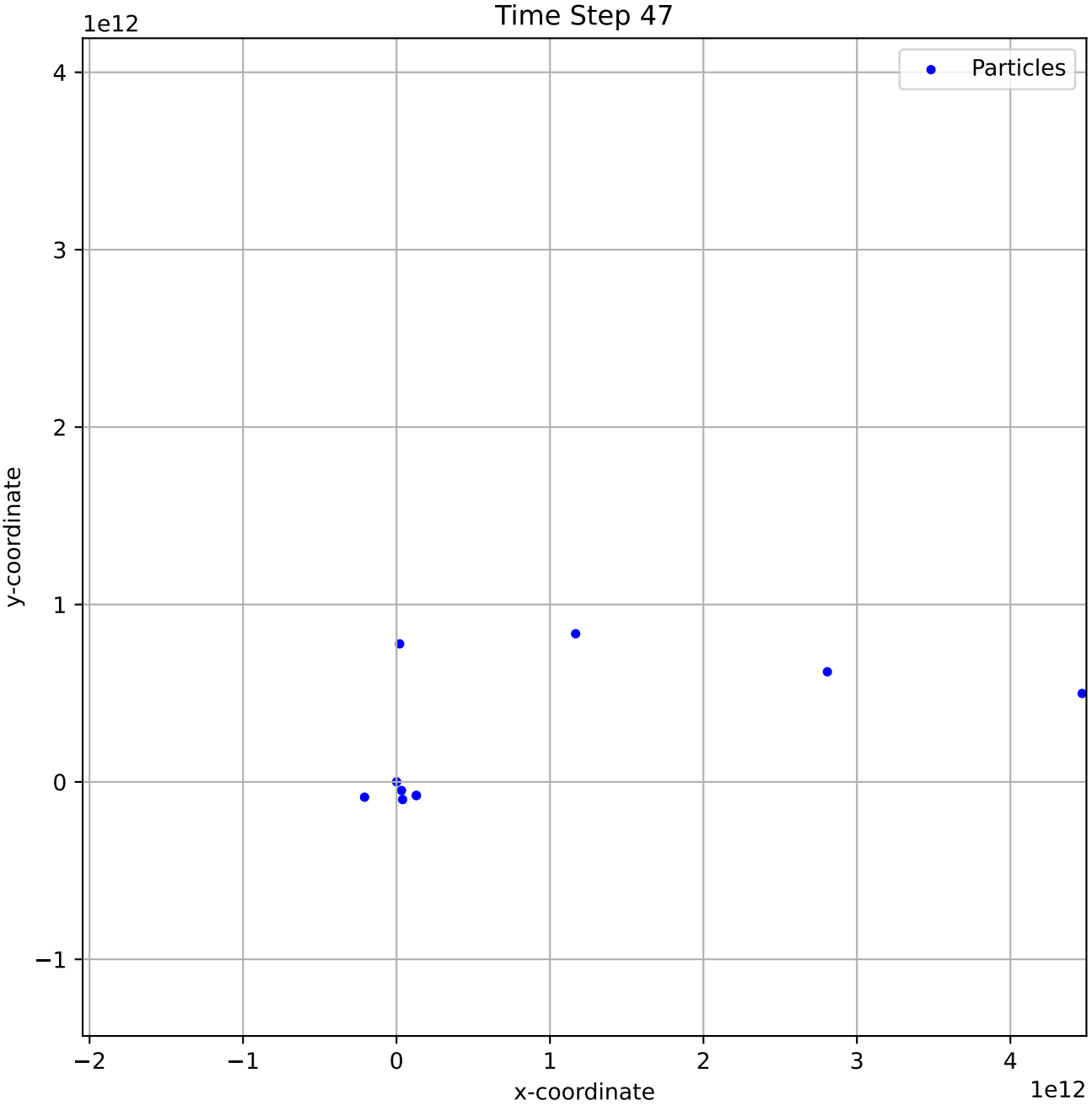

Time Step 42
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

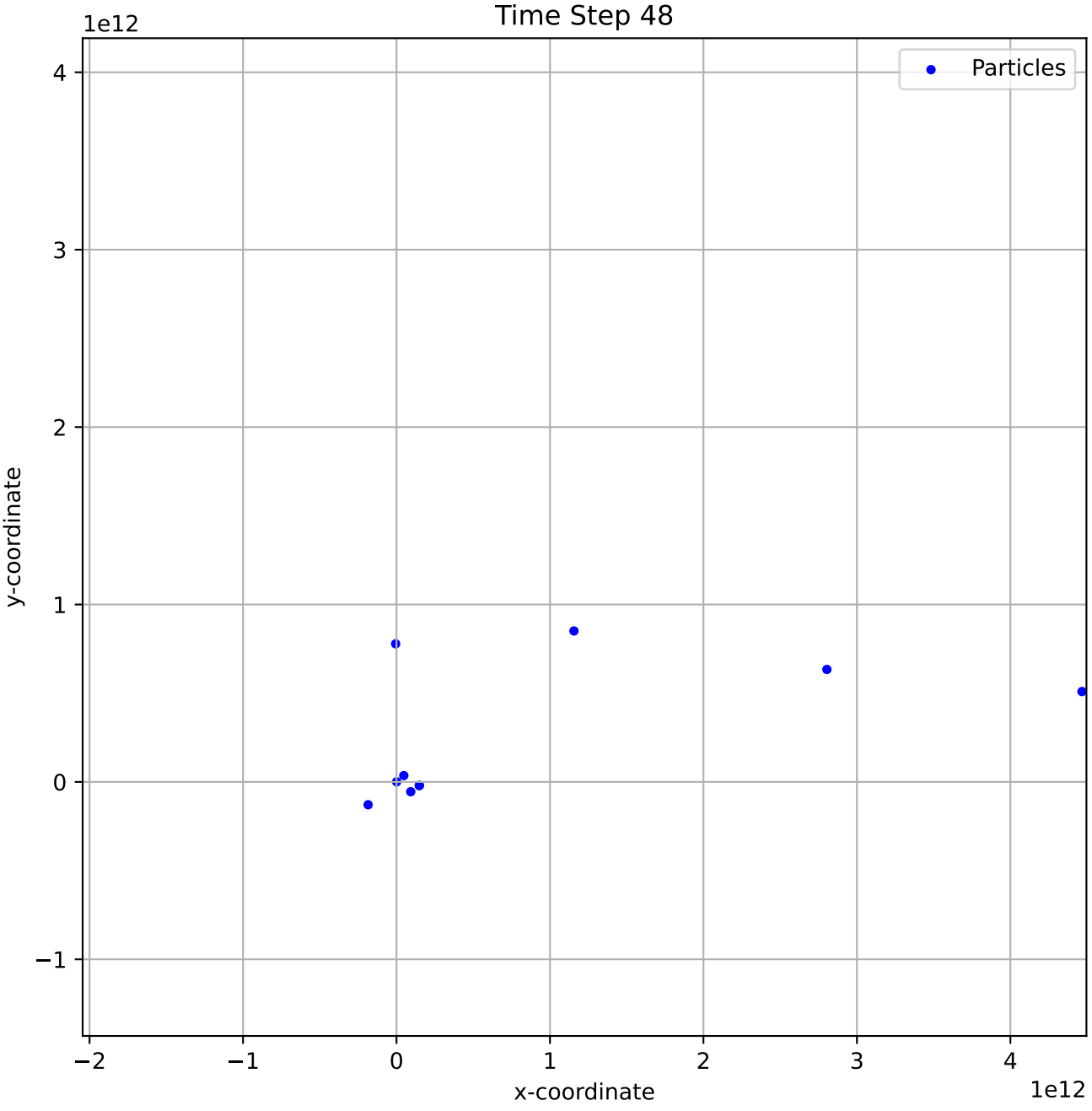

Time Step 43
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

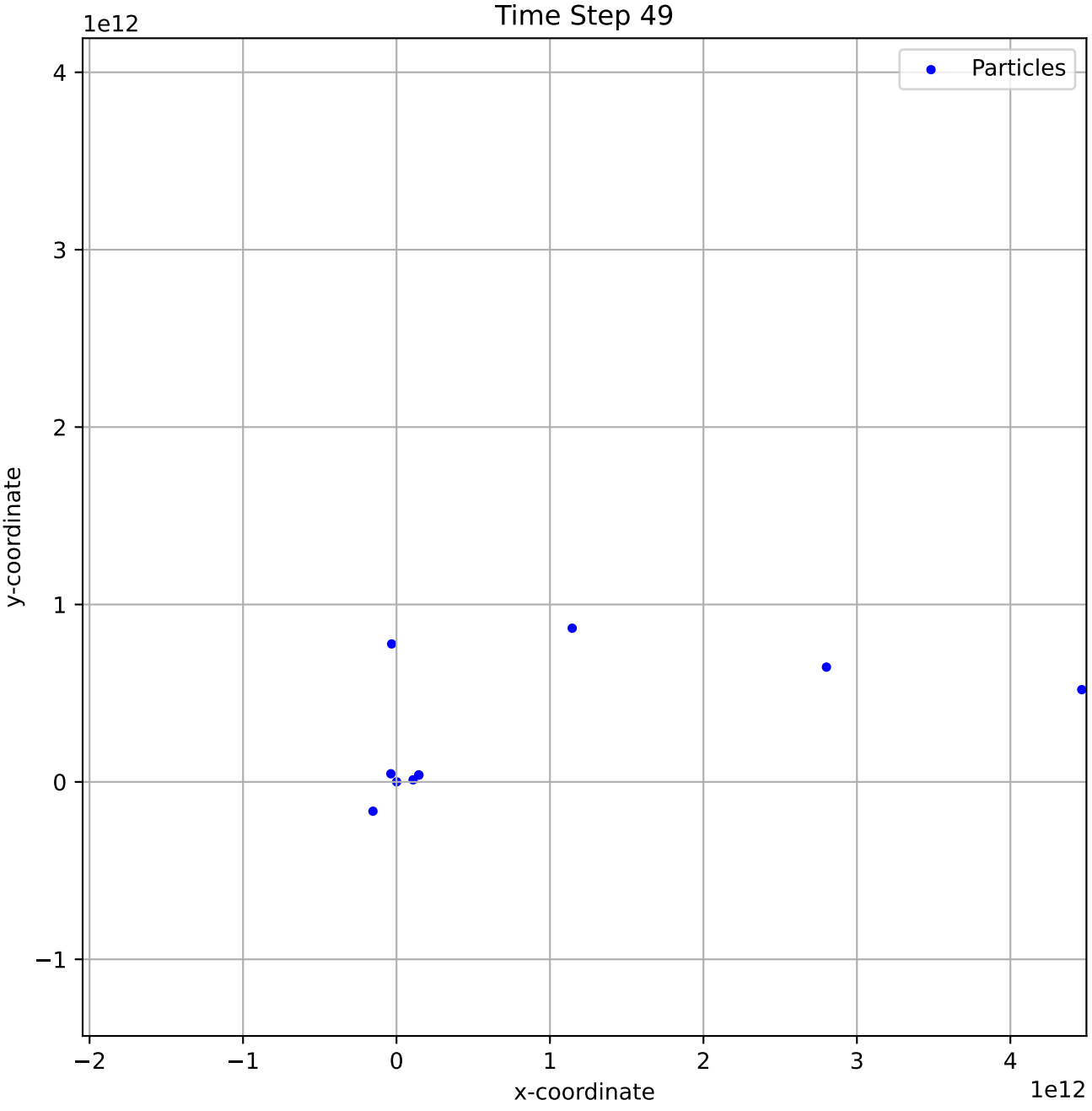

Time Step 44
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

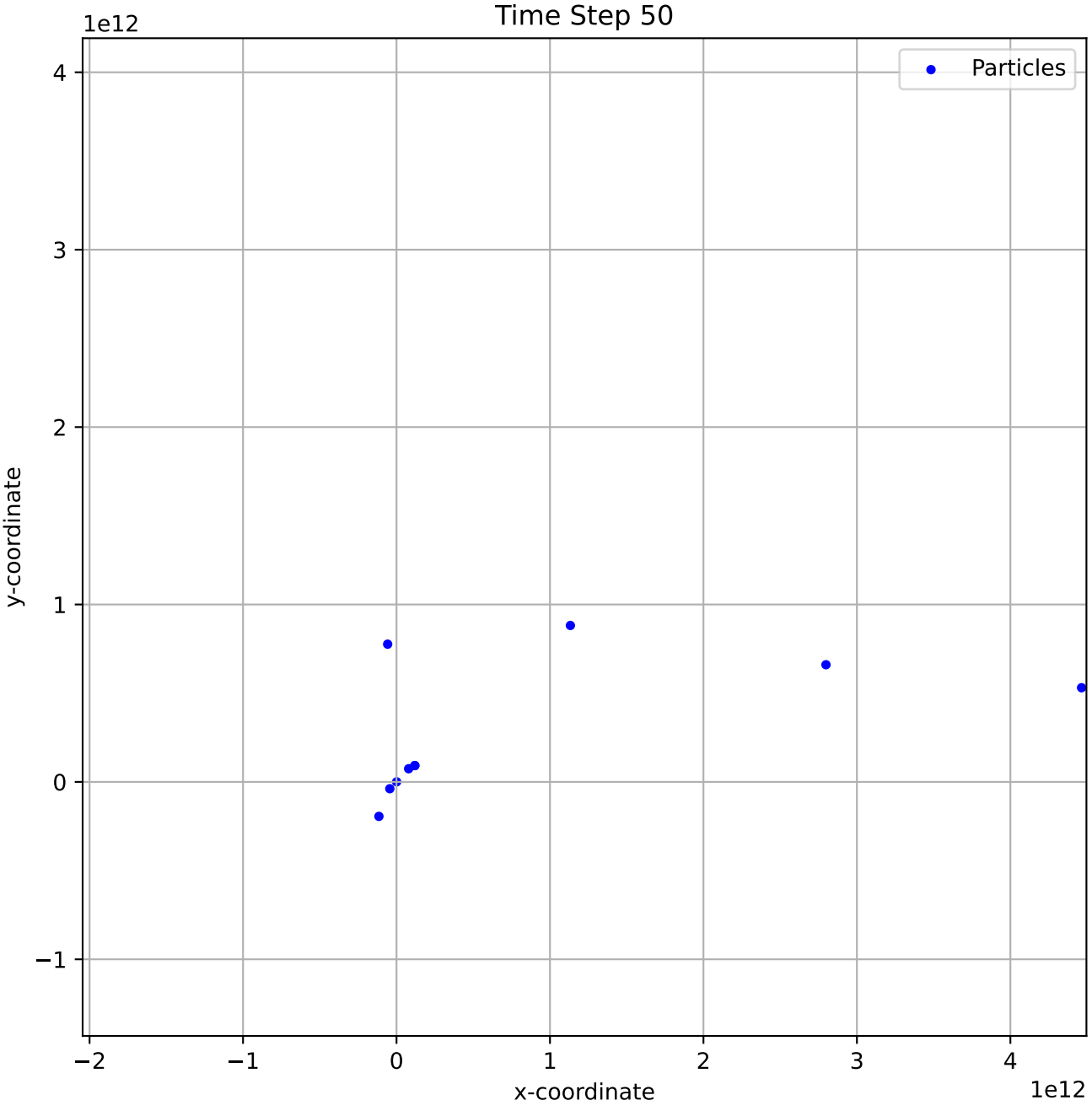

Time Step 45
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

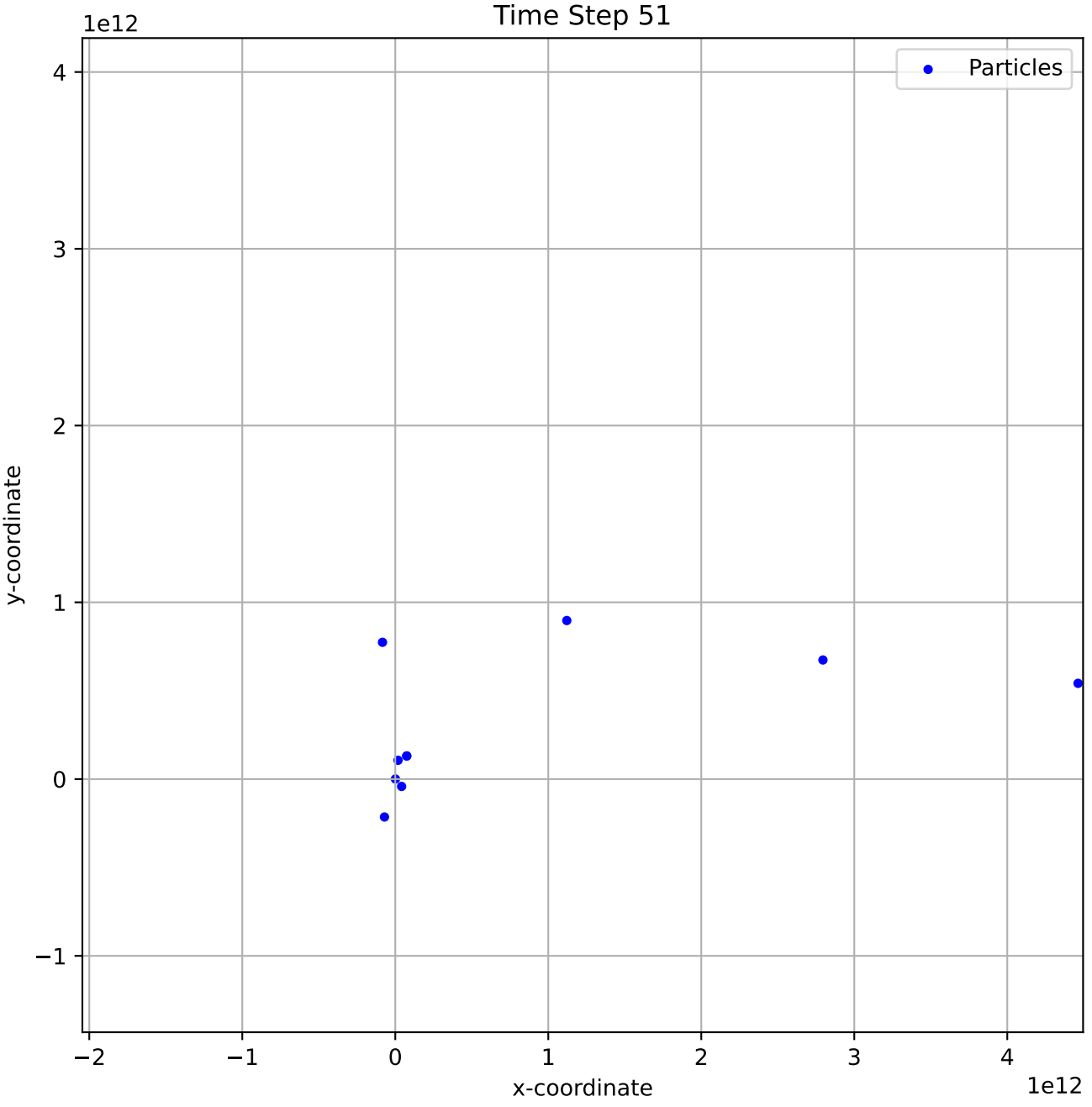

Time Step 46
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

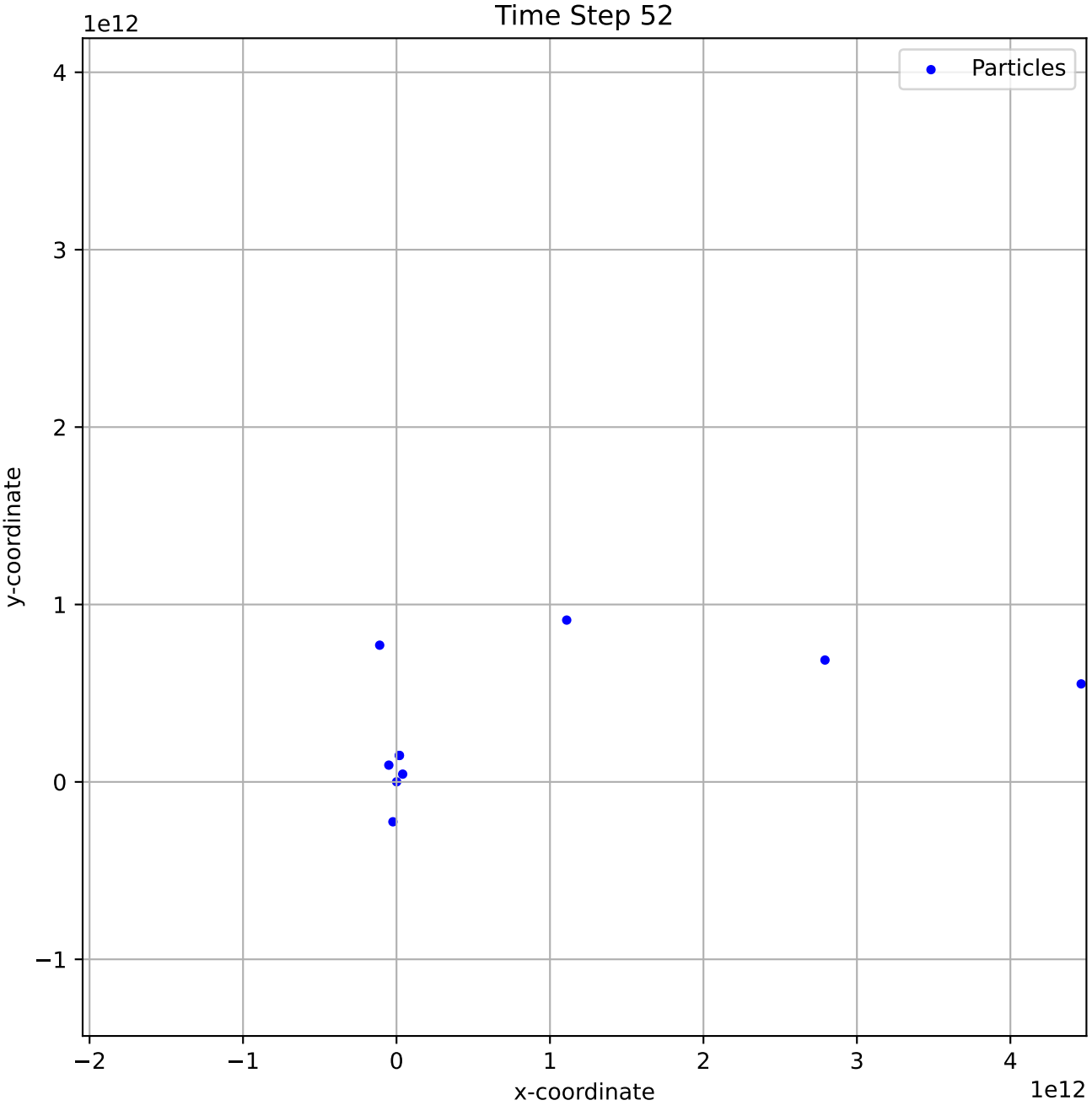

Time Step 47
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

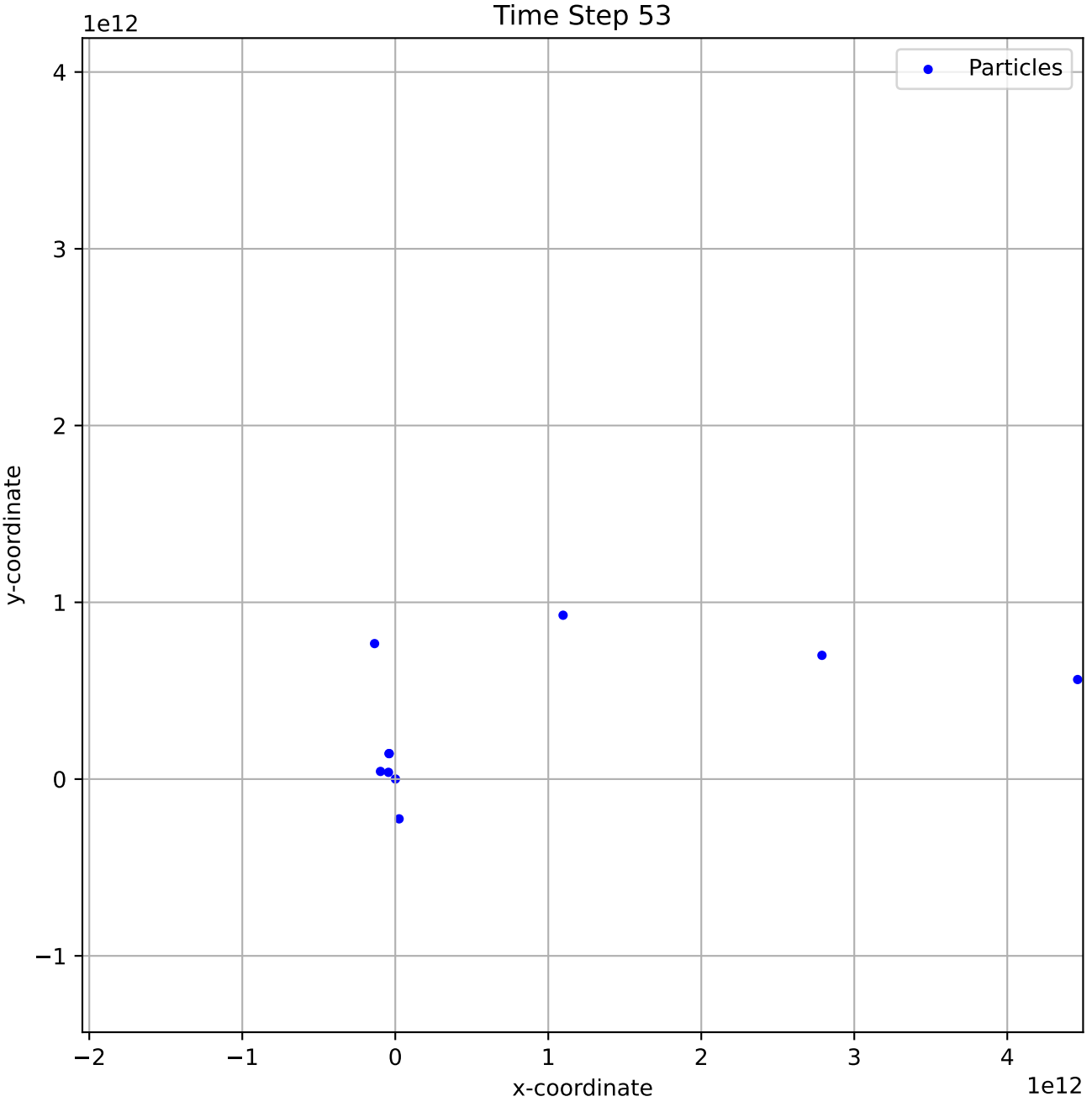

Time Step 48
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

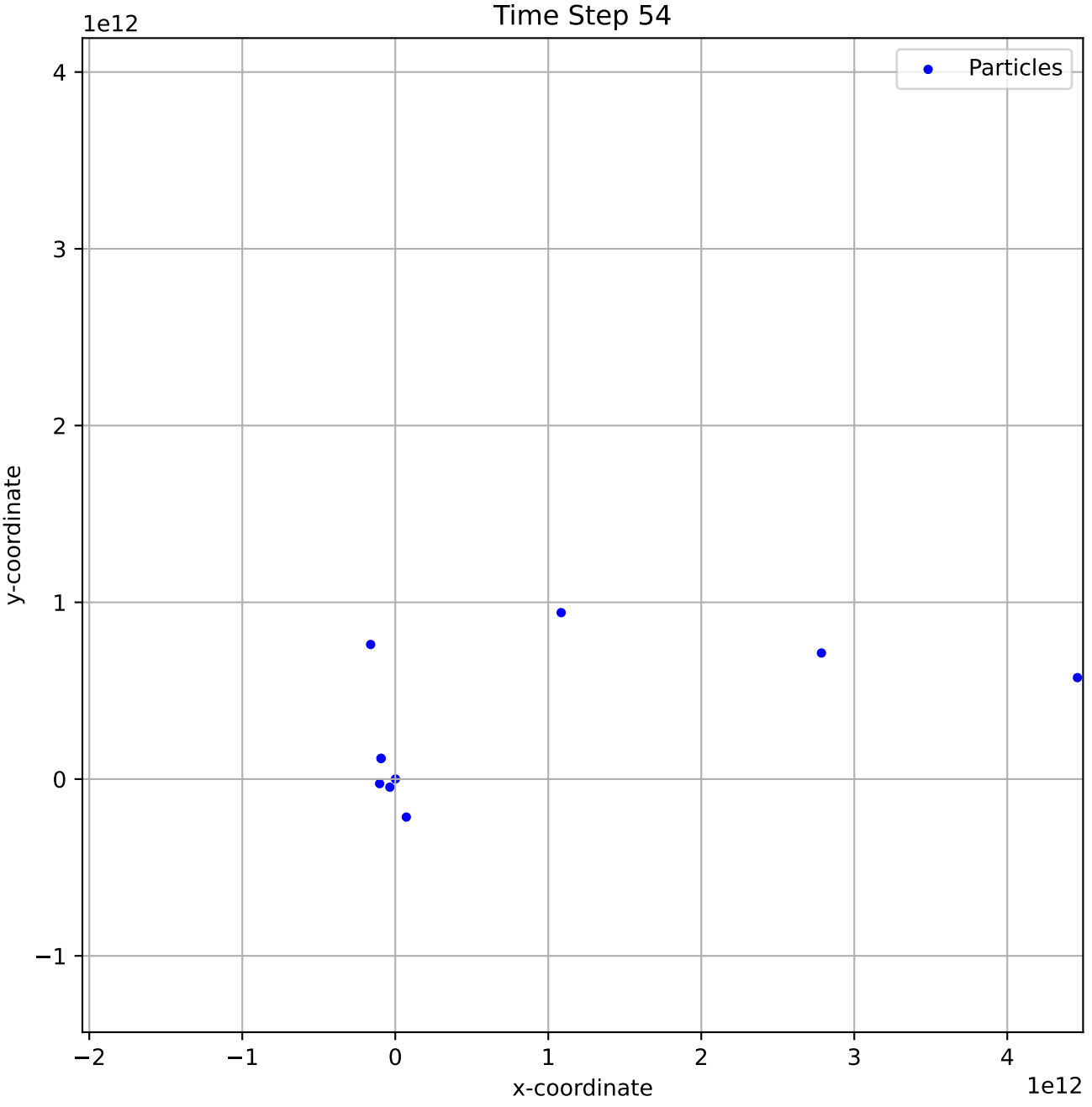

Time Step 49
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

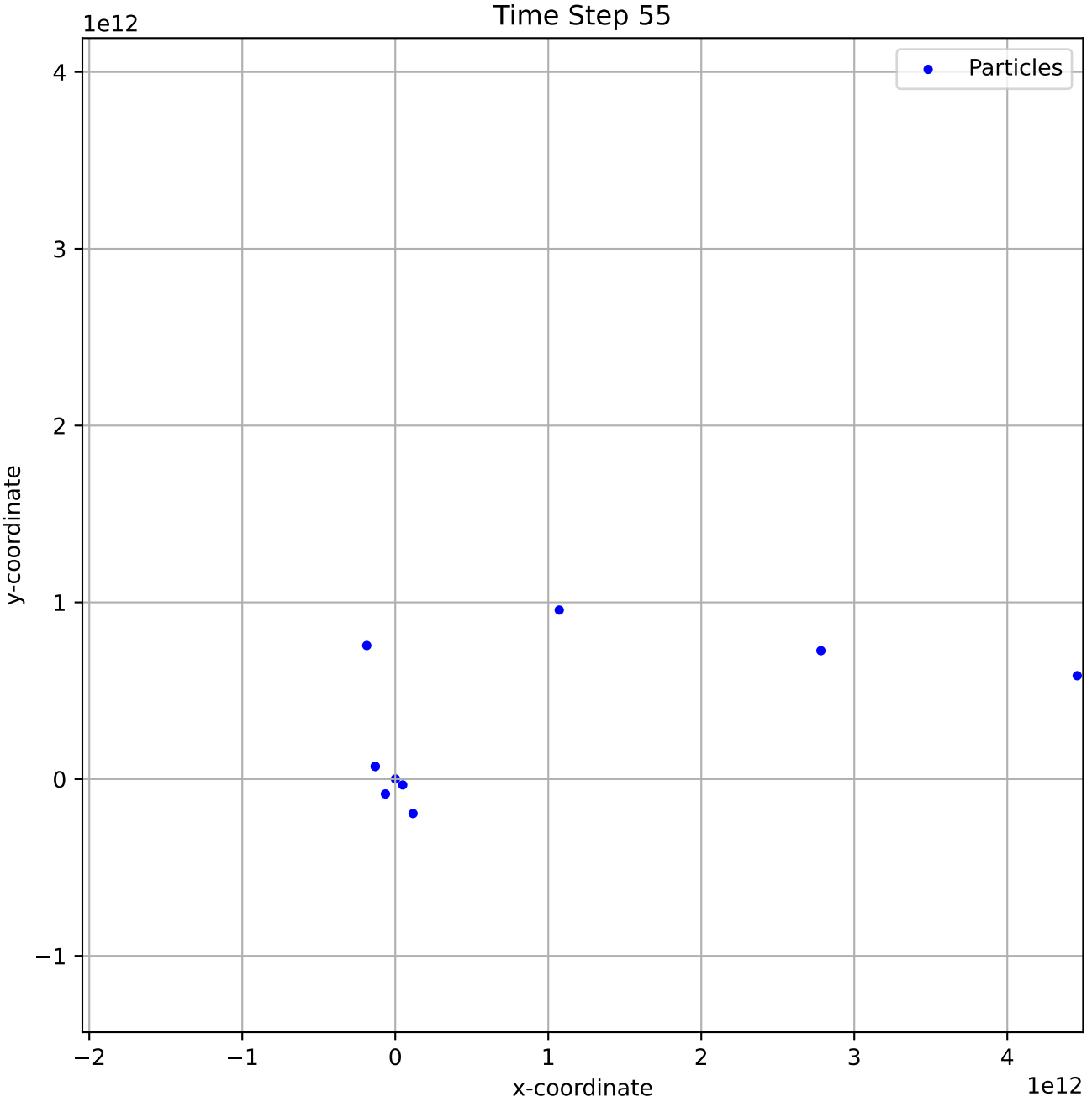

Time Step 50
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

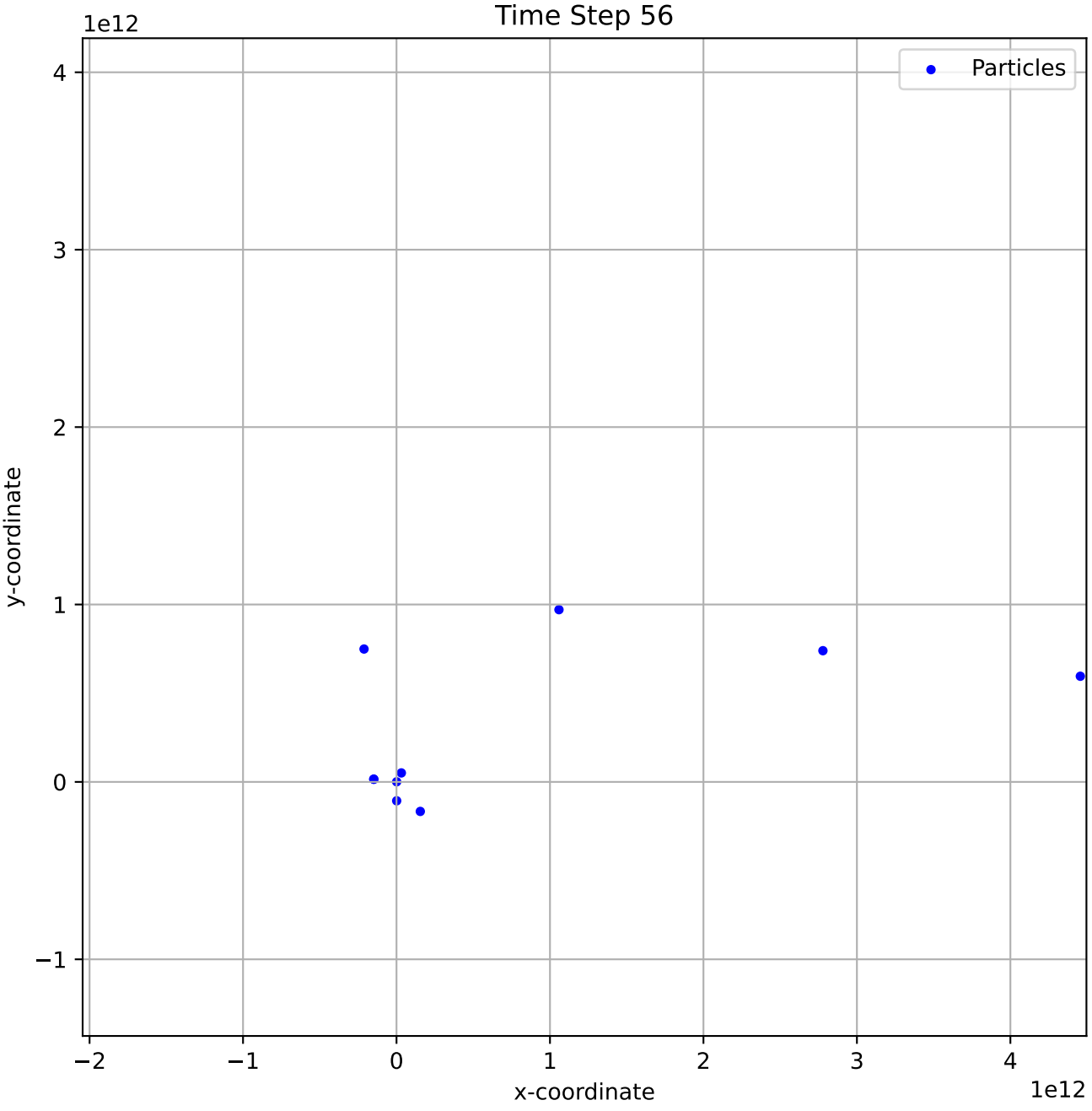

Time Step 51
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

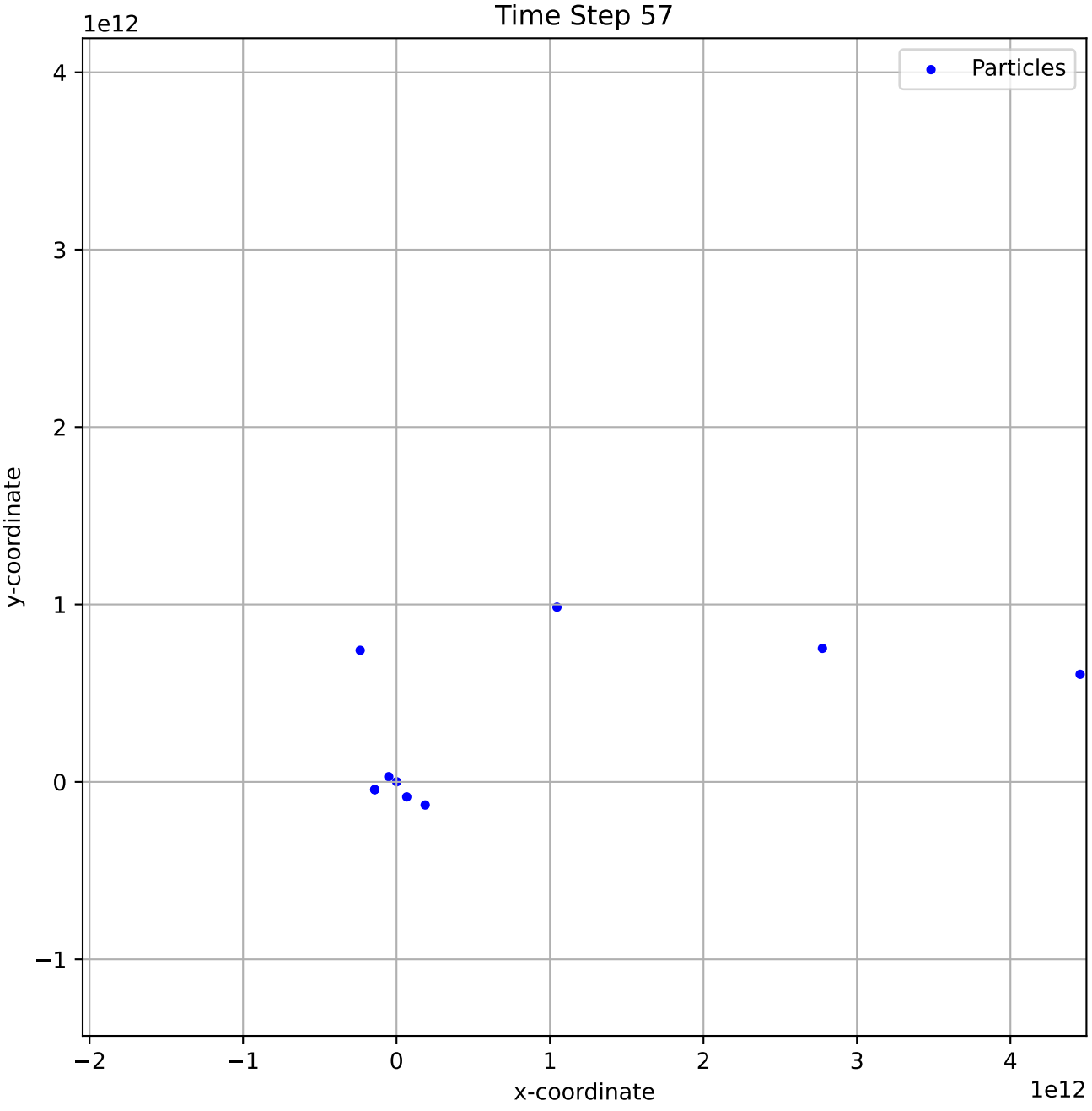

Time Step 52
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

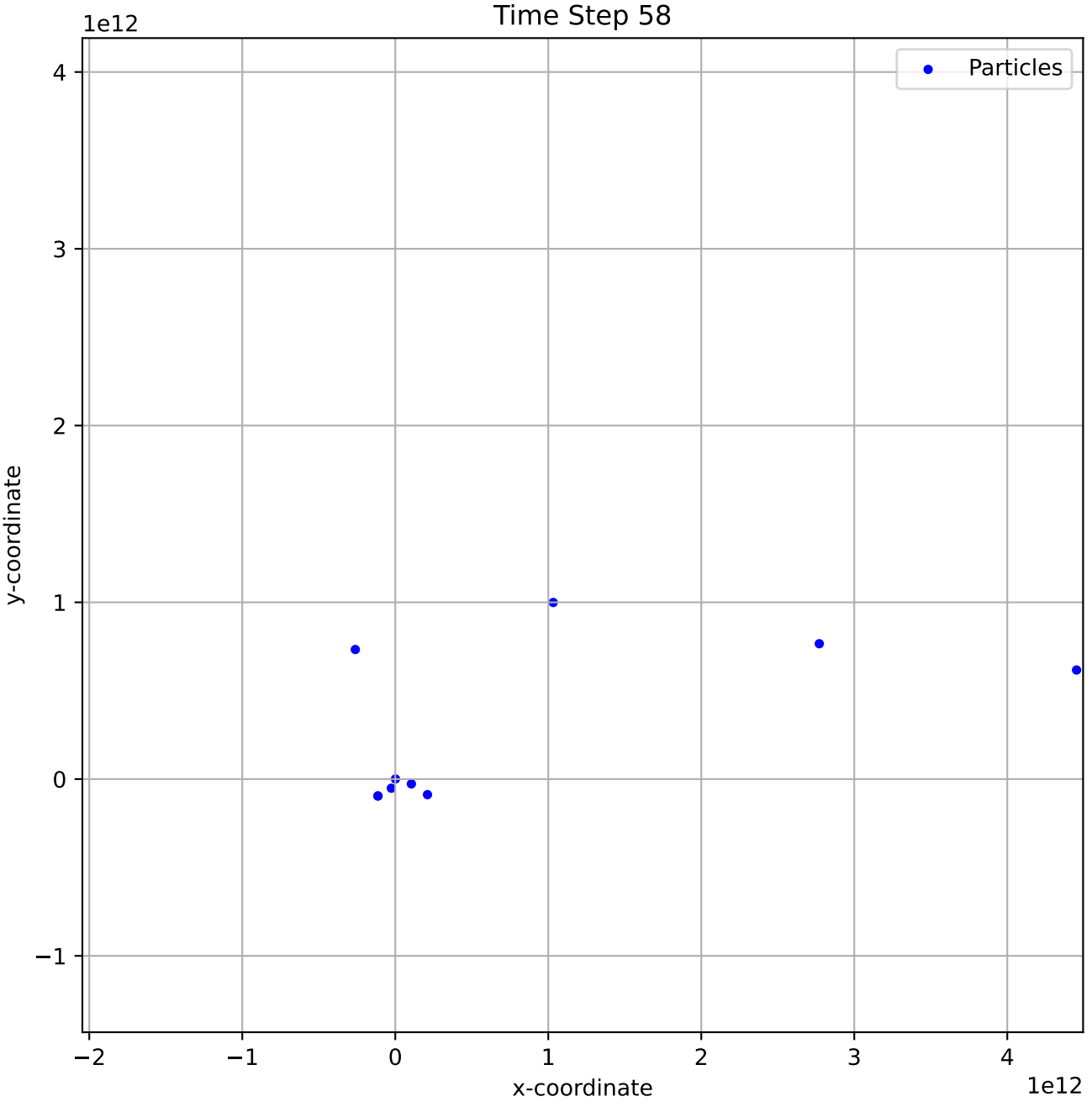

Time Step 53
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

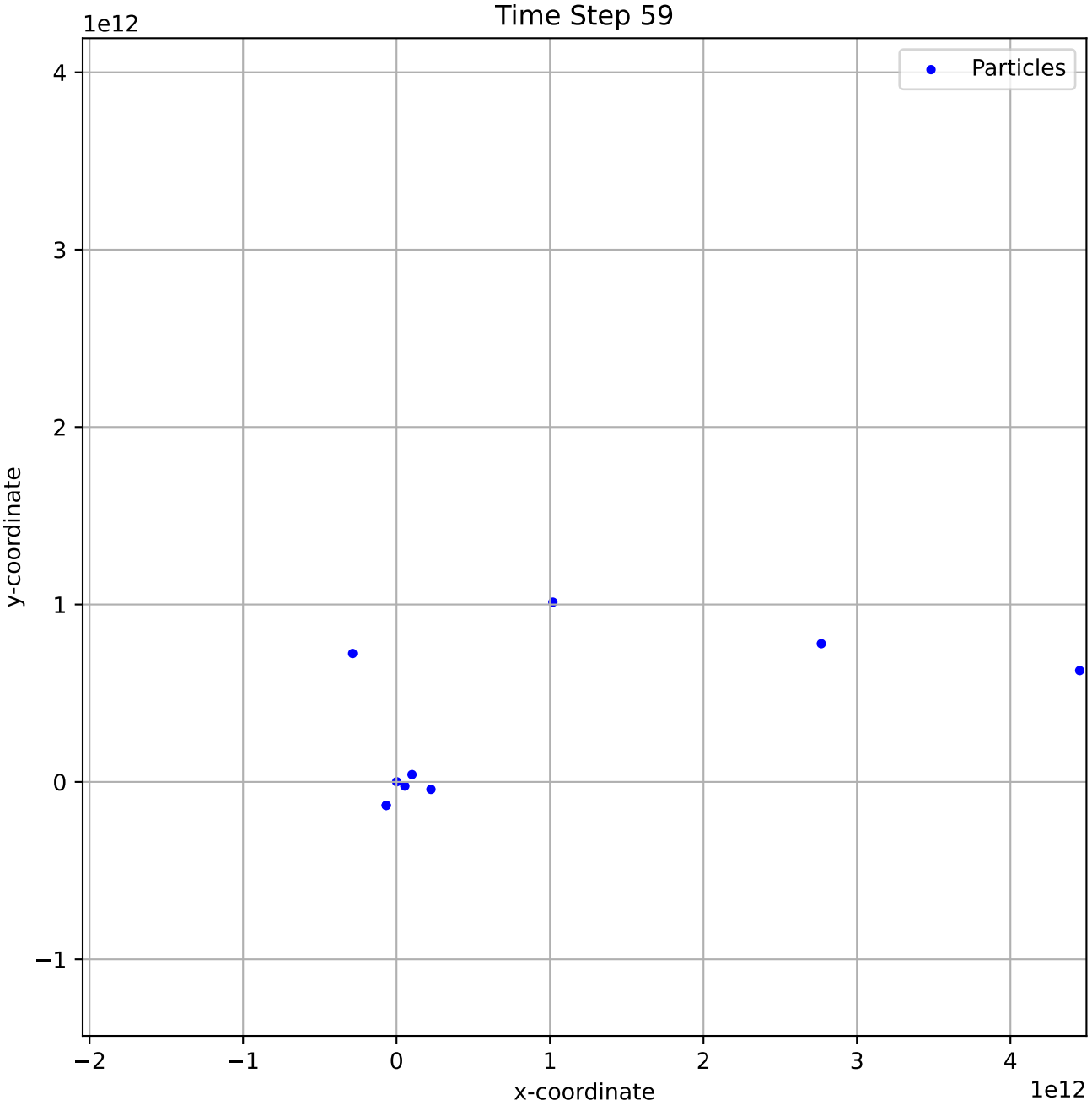

Time Step 54
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

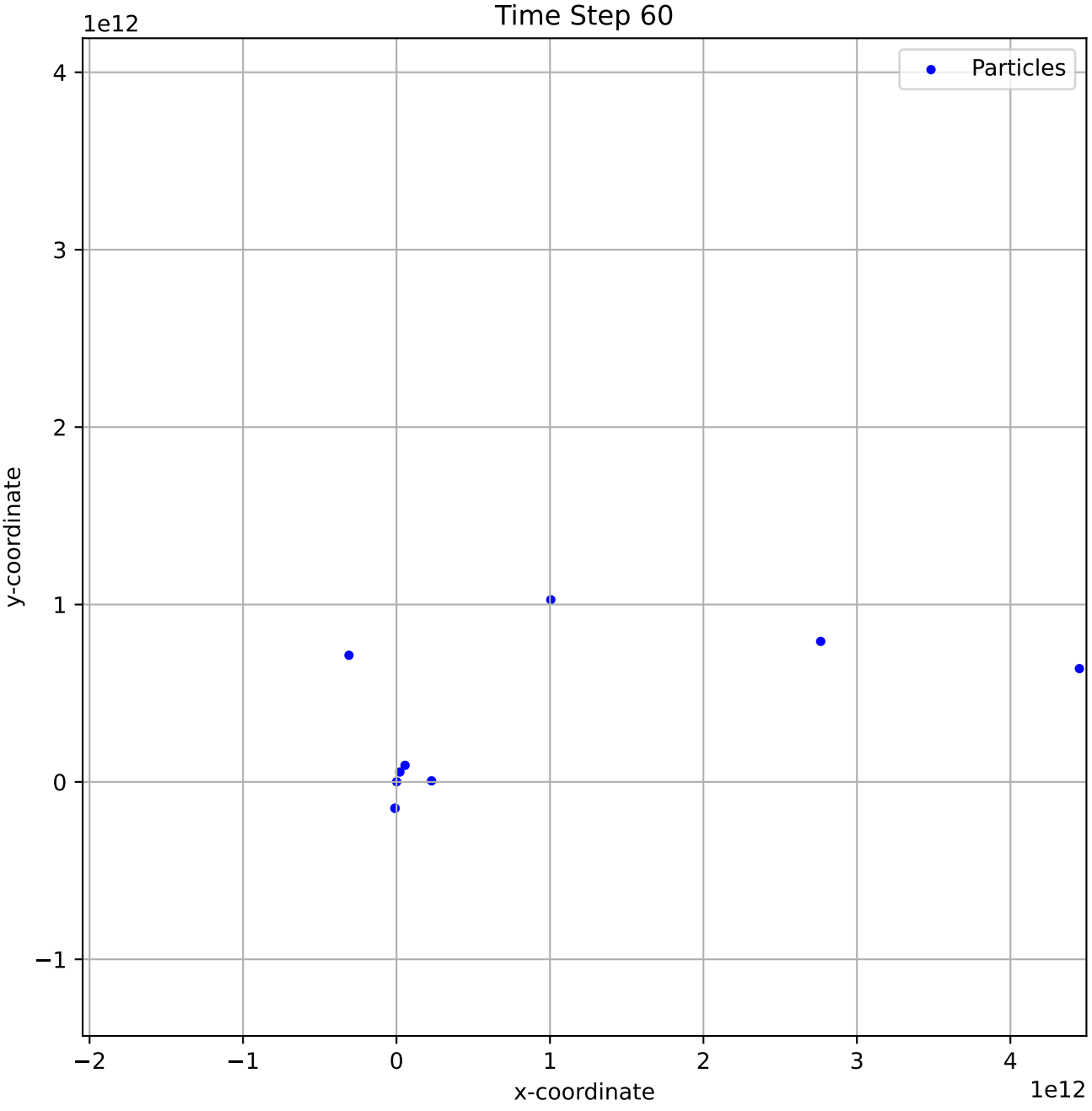

Time Step 55
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

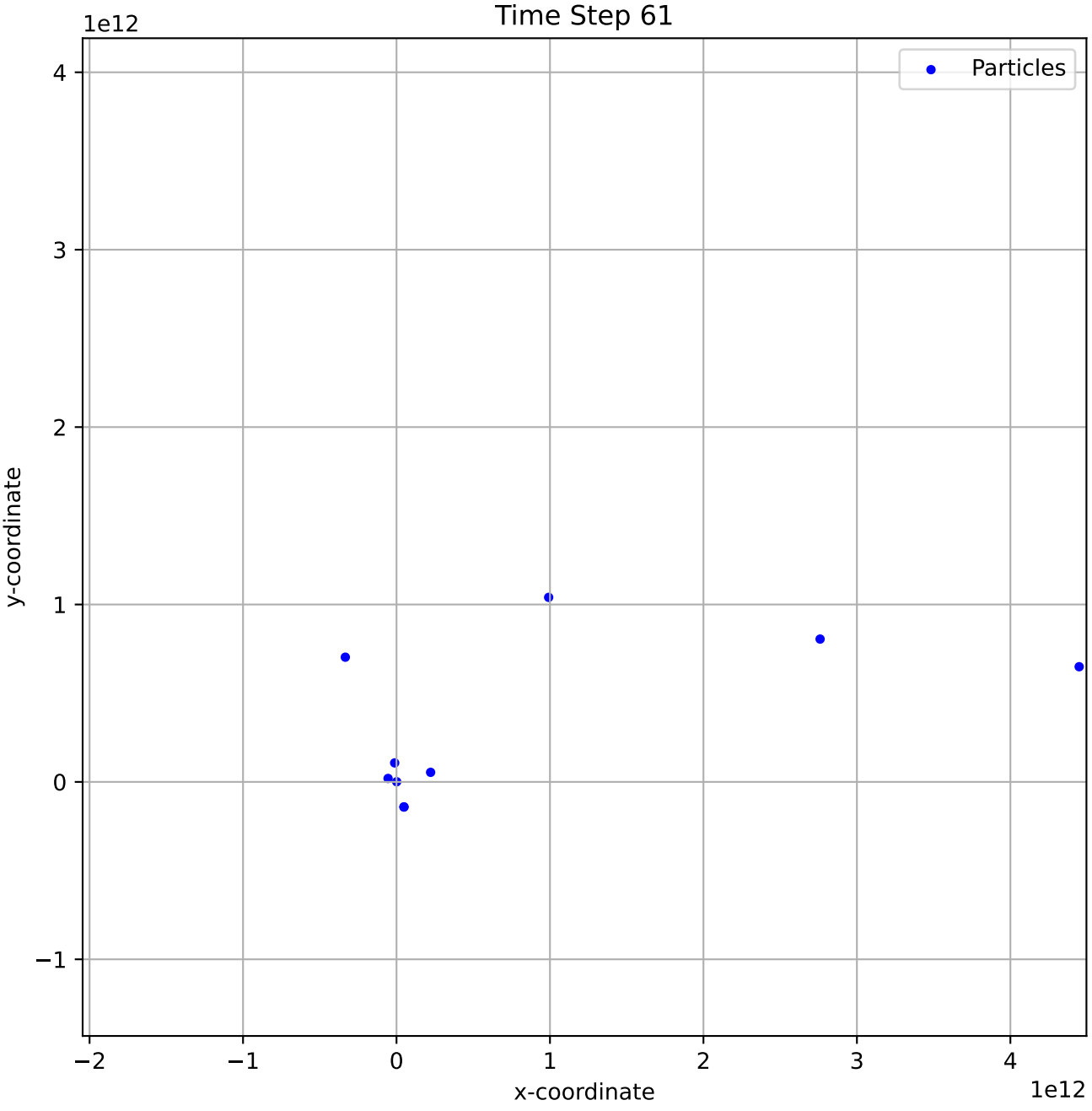

Time Step 56
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

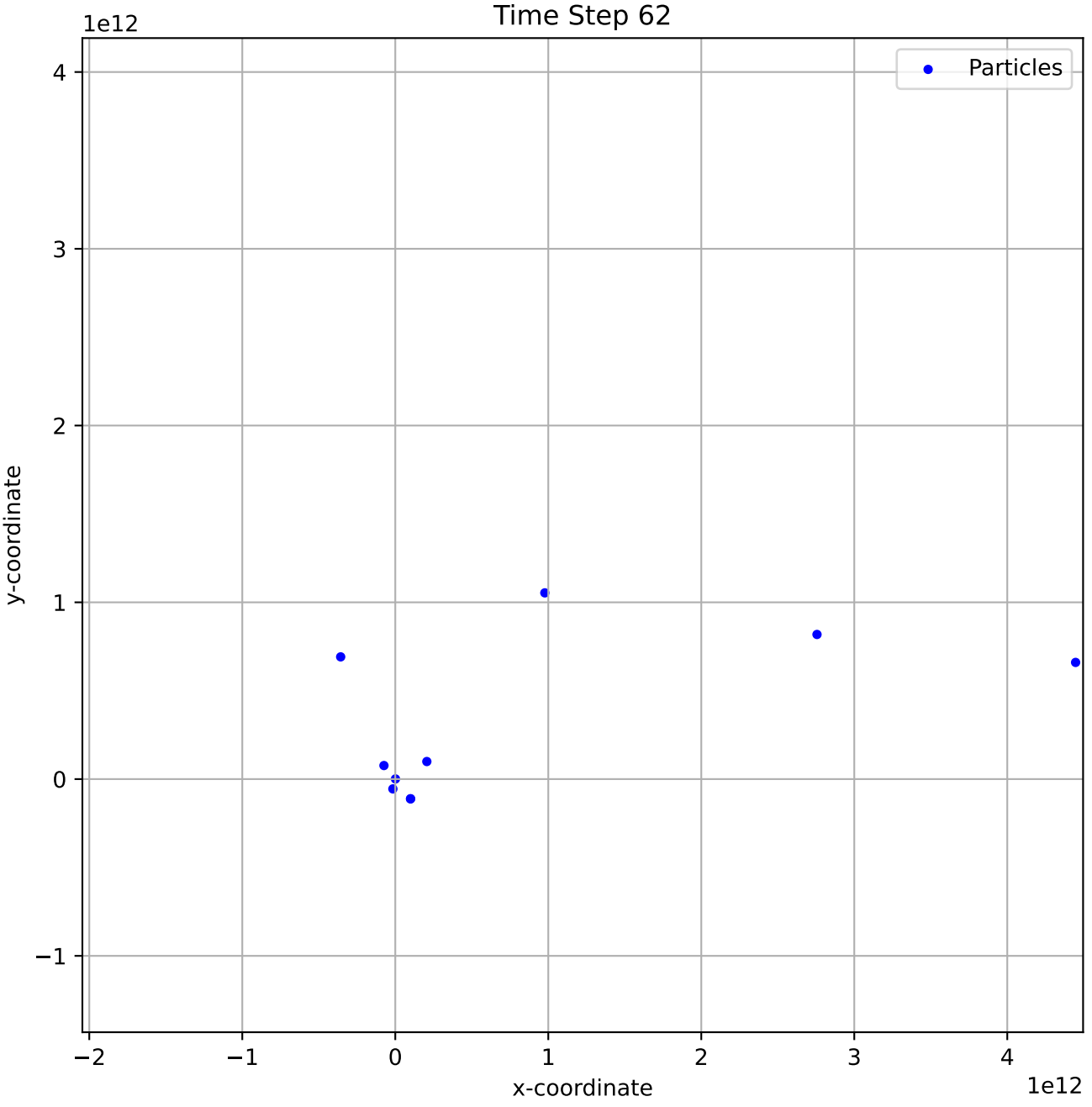

Time Step 57
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

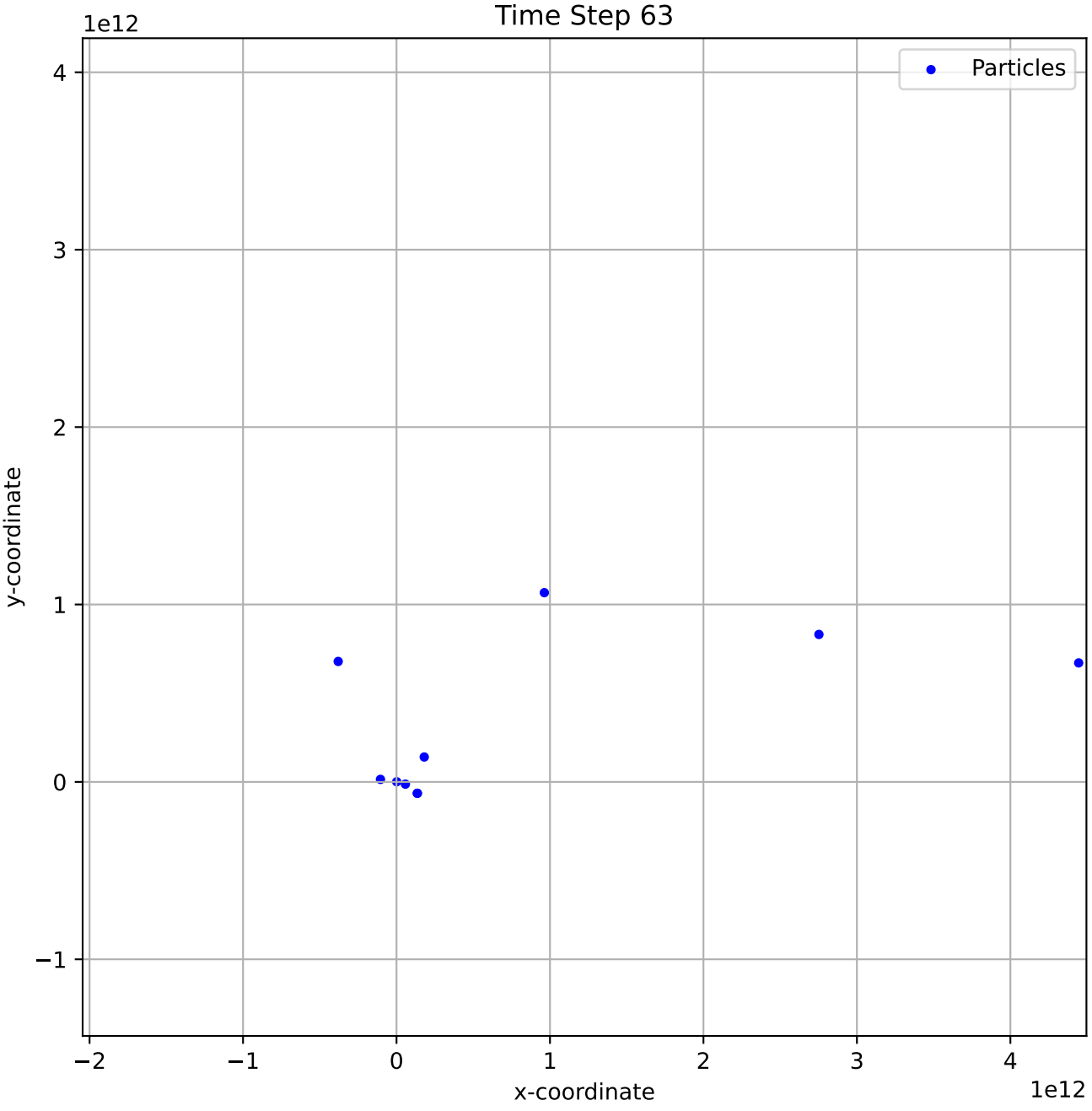

Time Step 58
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

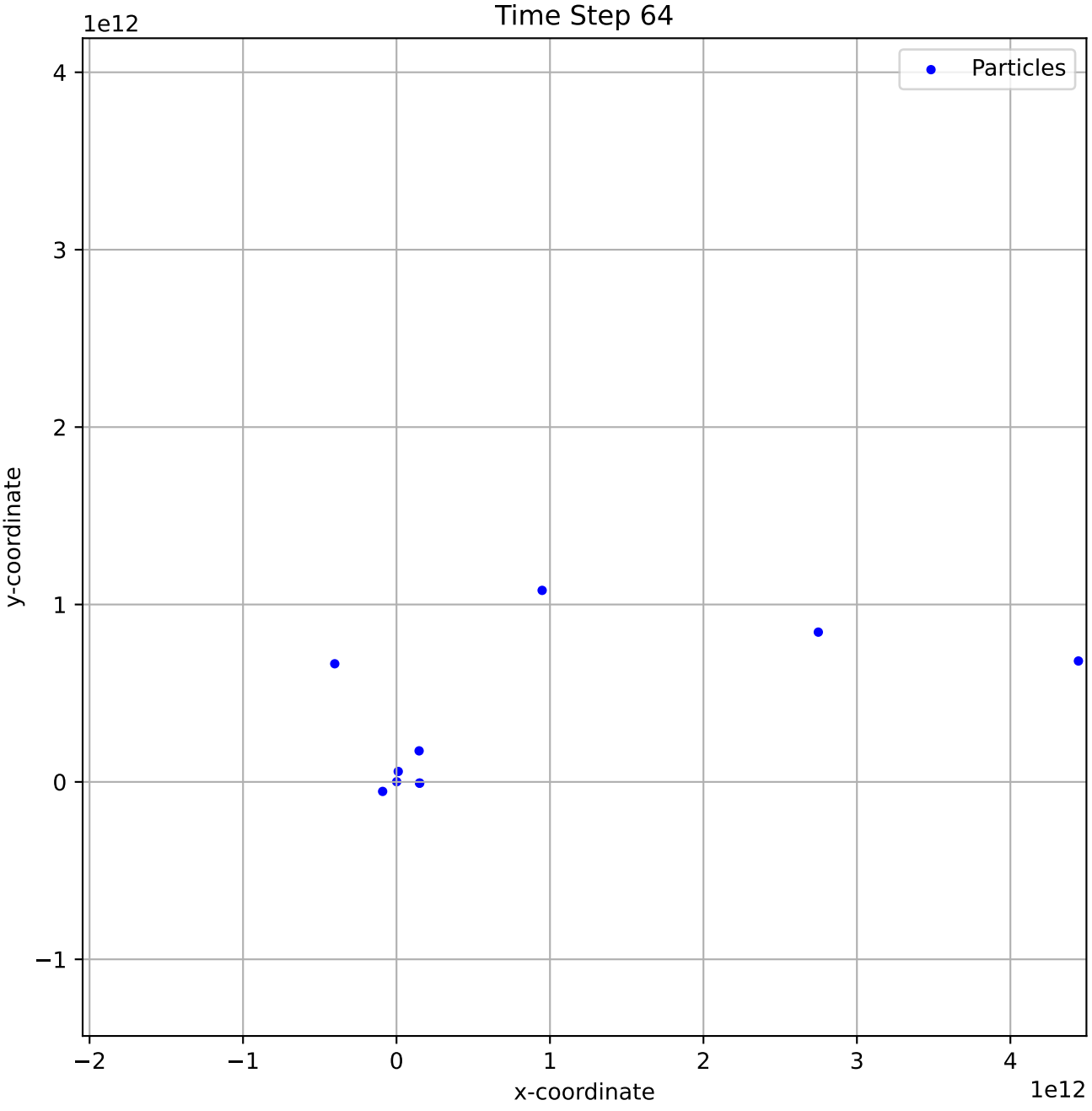

Time Step 59
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

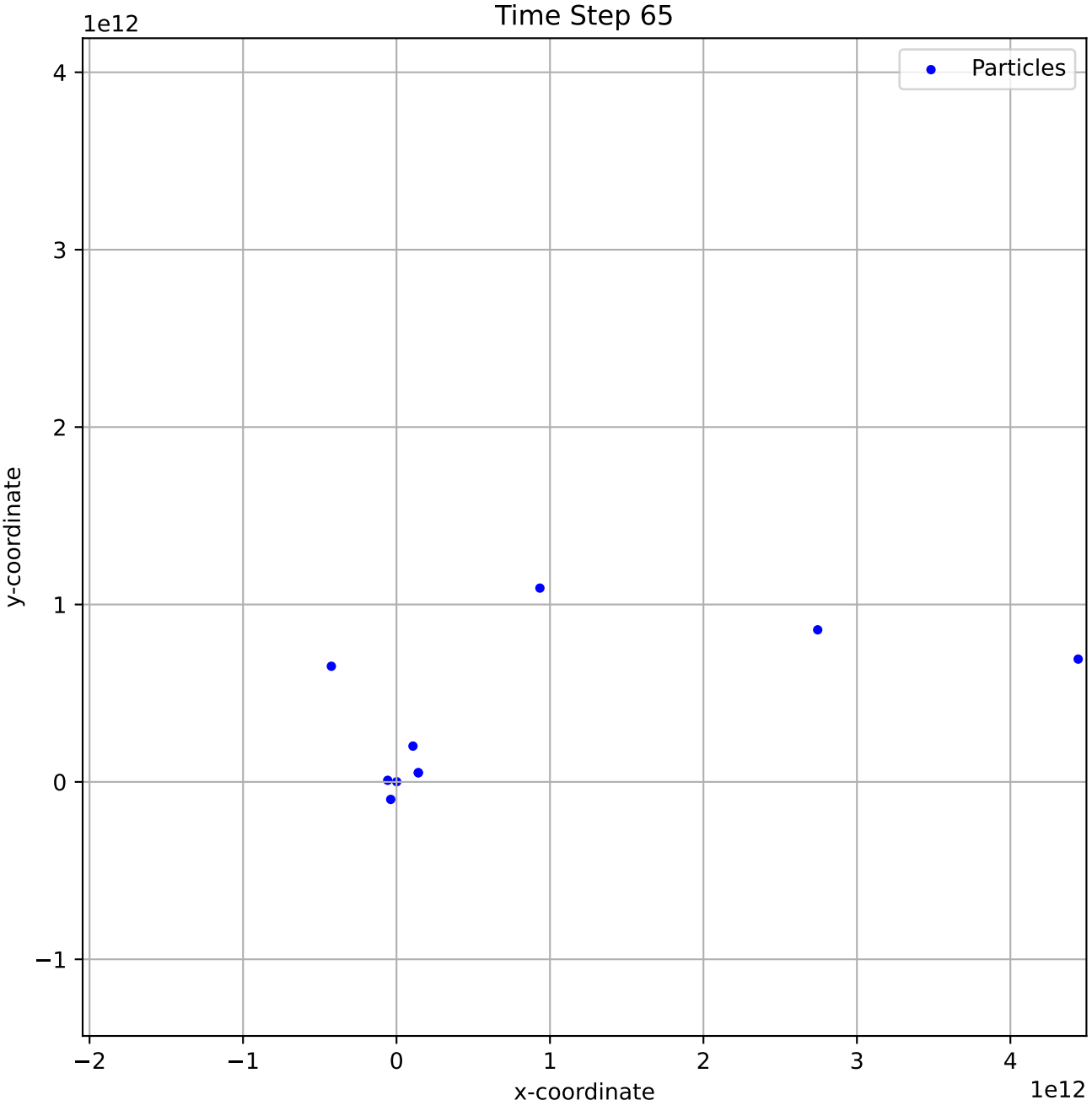

Time Step 60
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

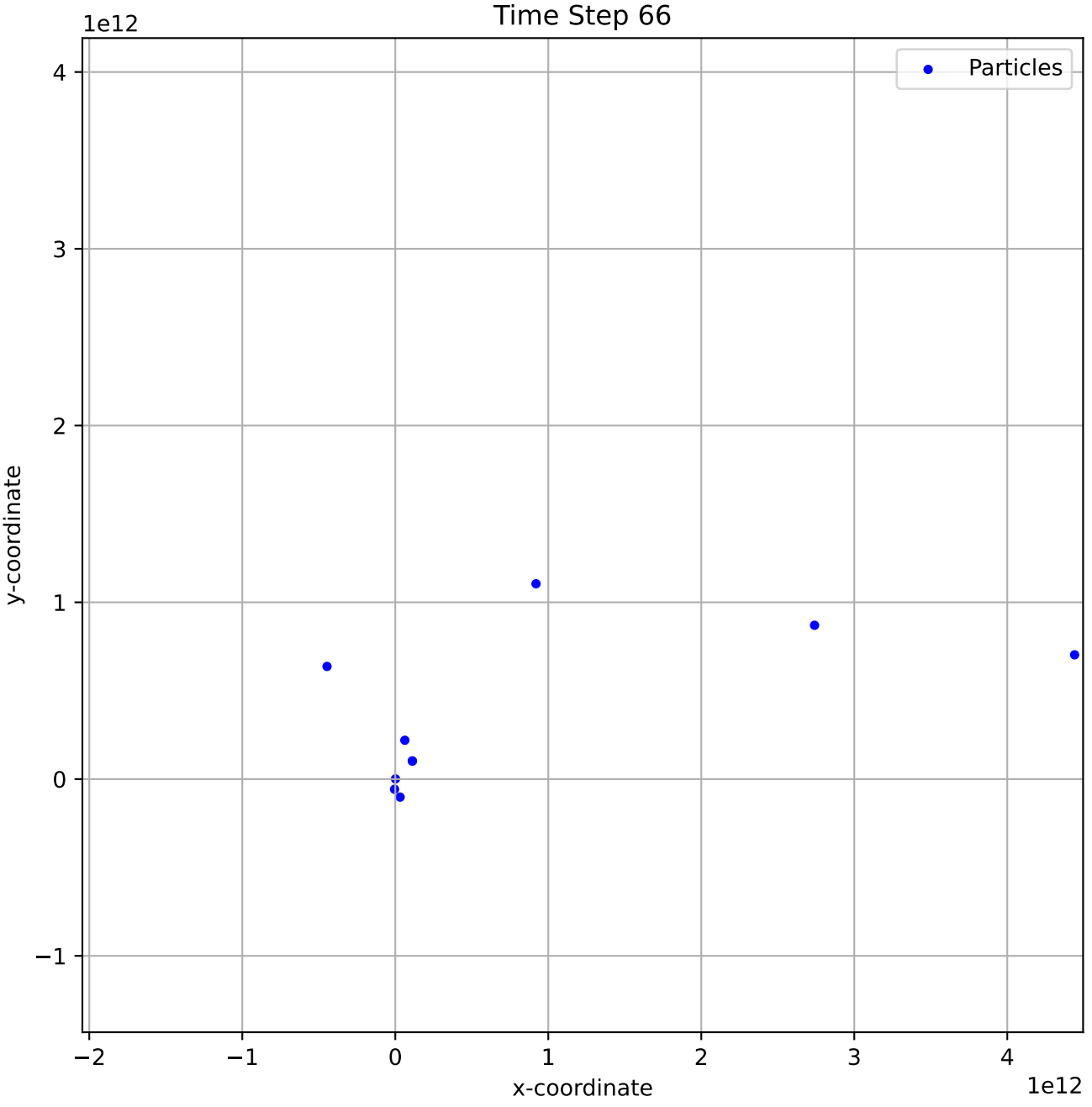

Time Step 61
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

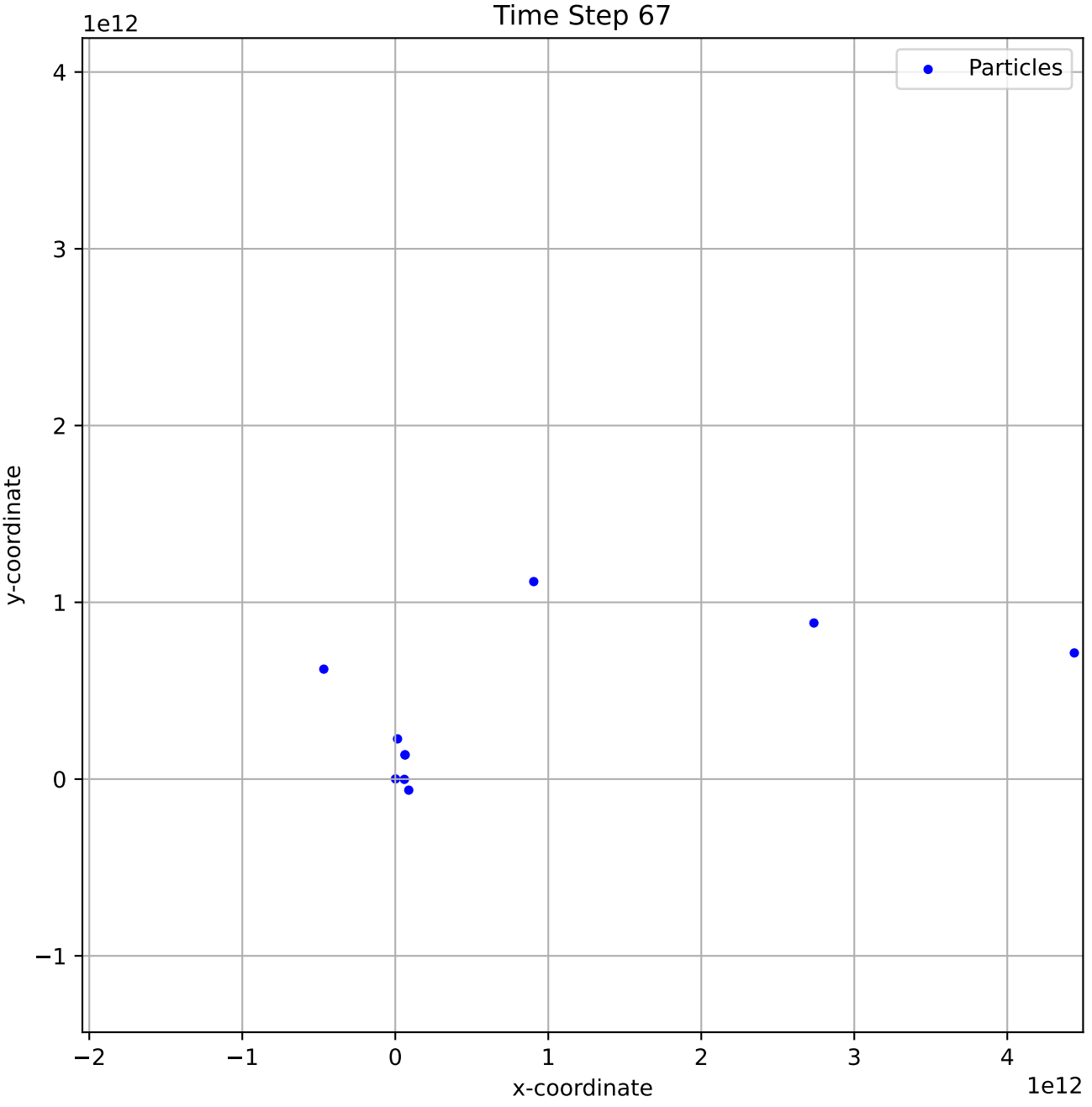

Time Step 62
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

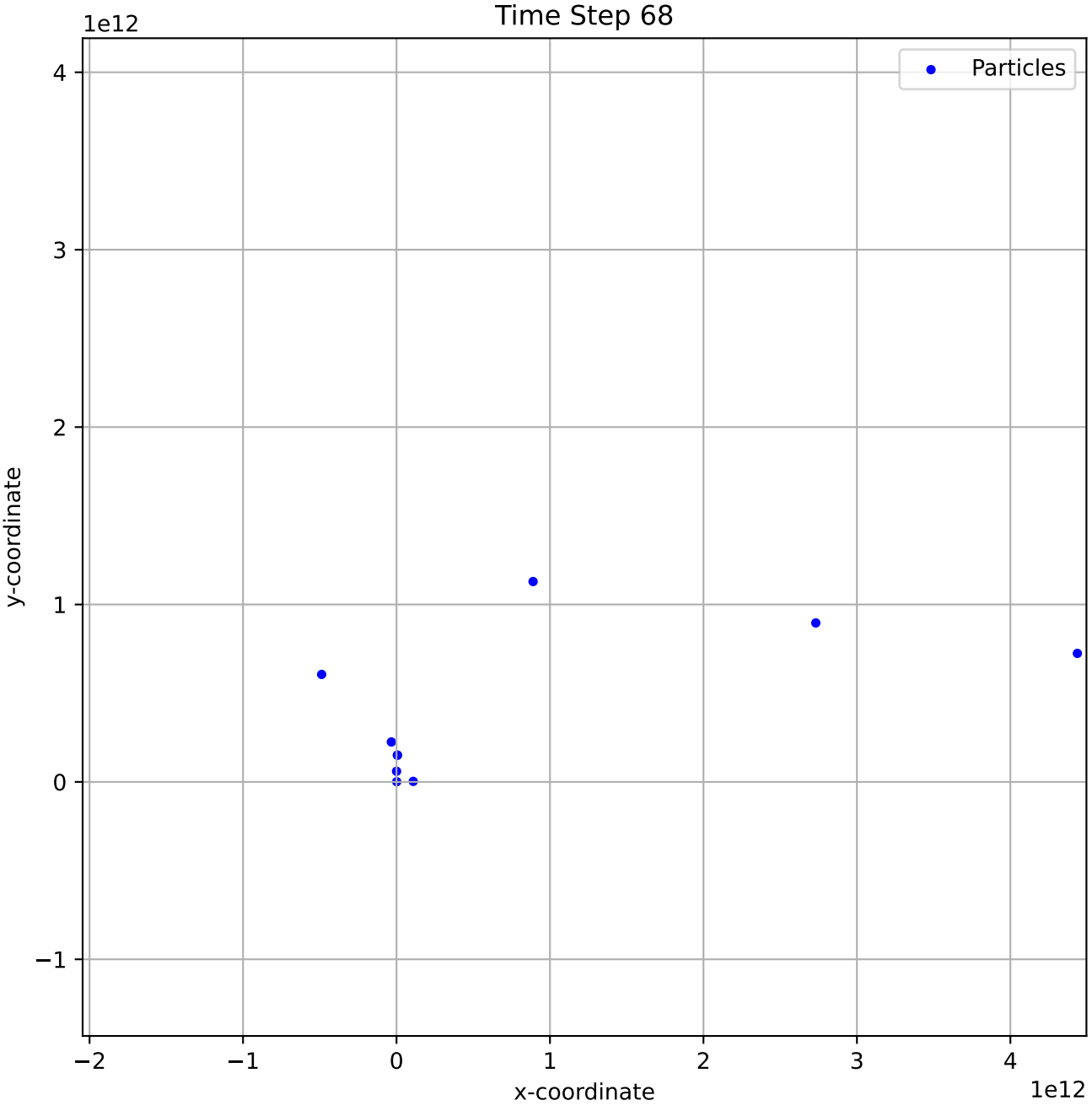

Time Step 63
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

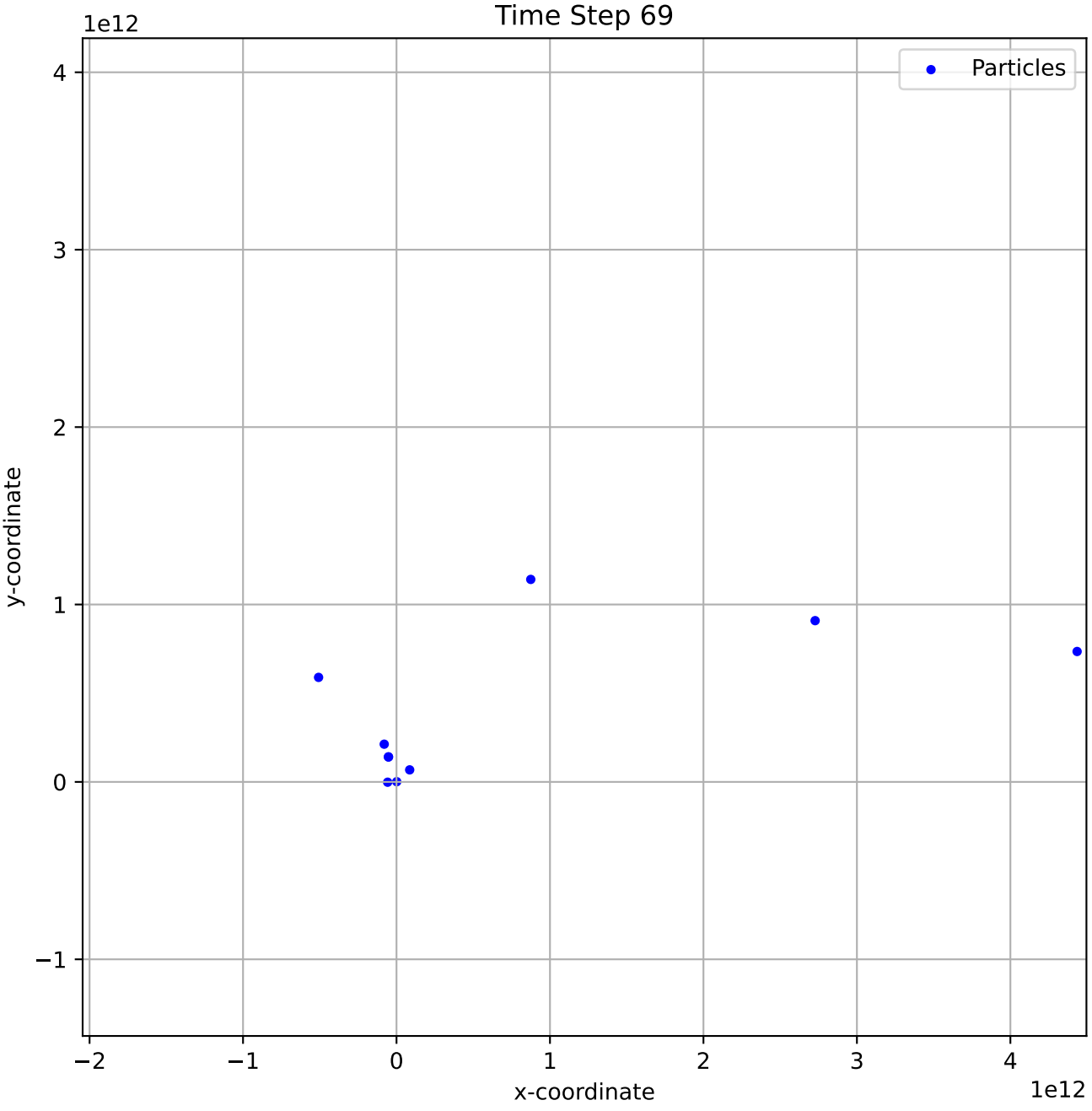

Time Step 64
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

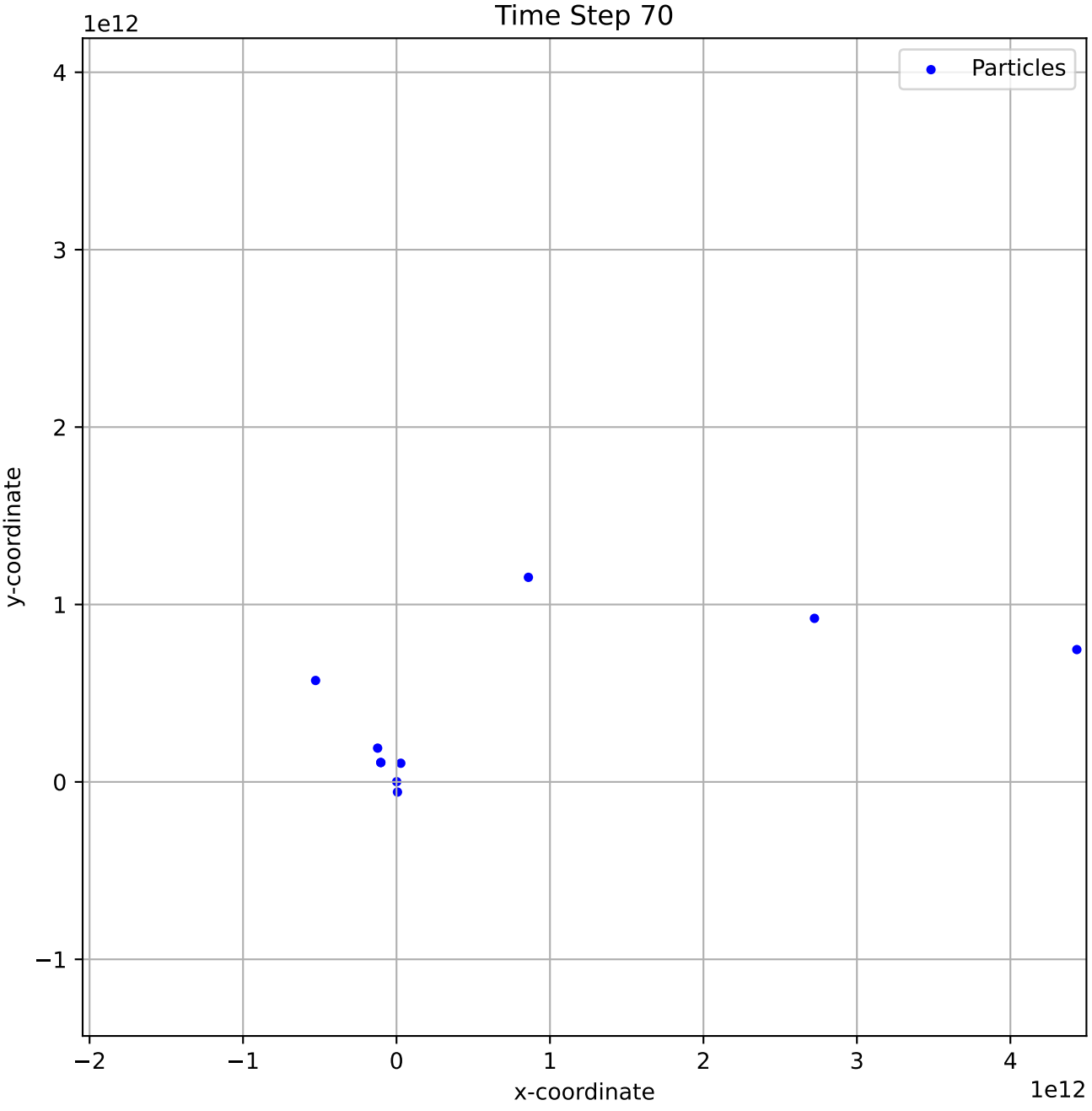

Time Step 65
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

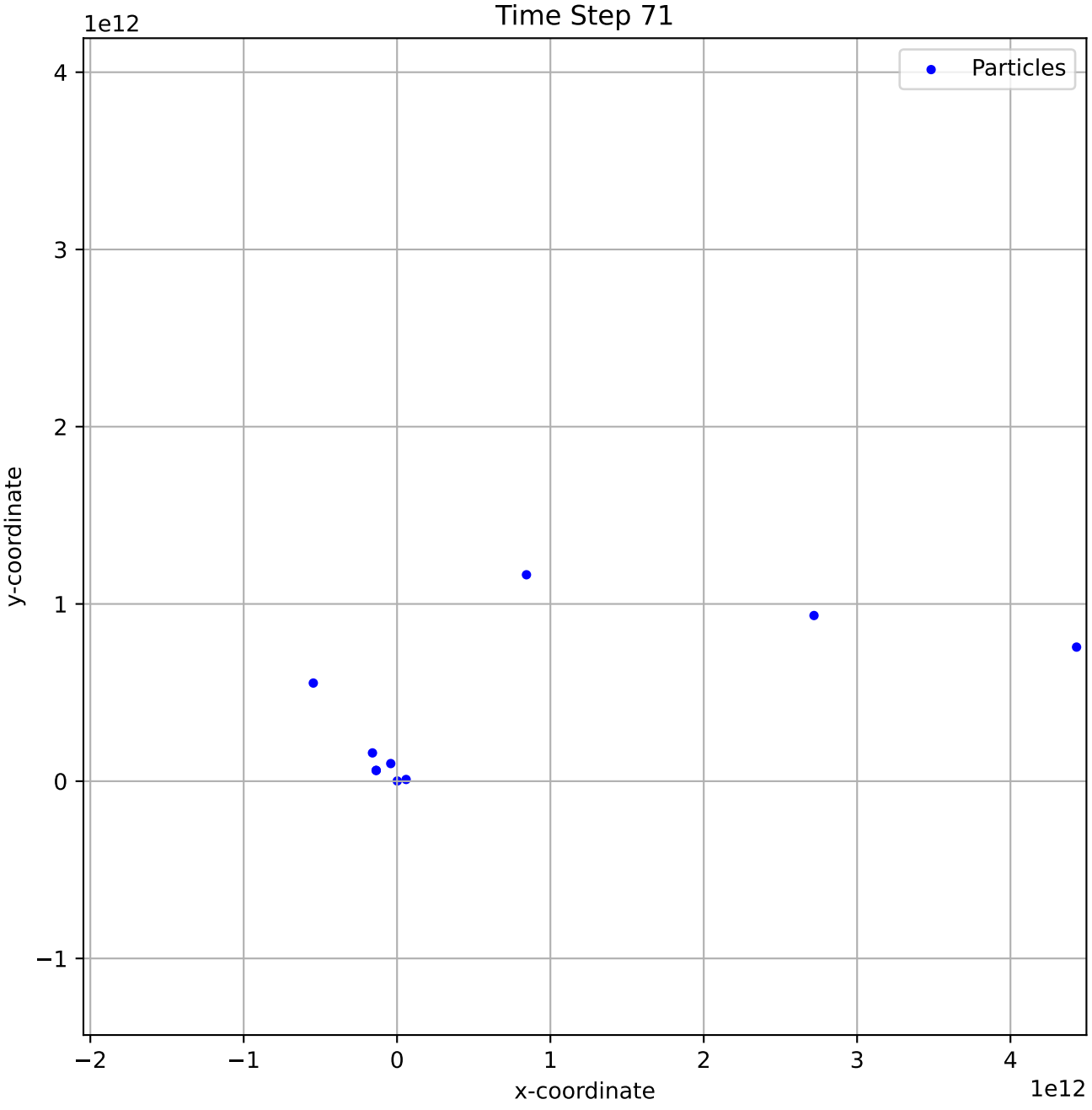

Time Step 66
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

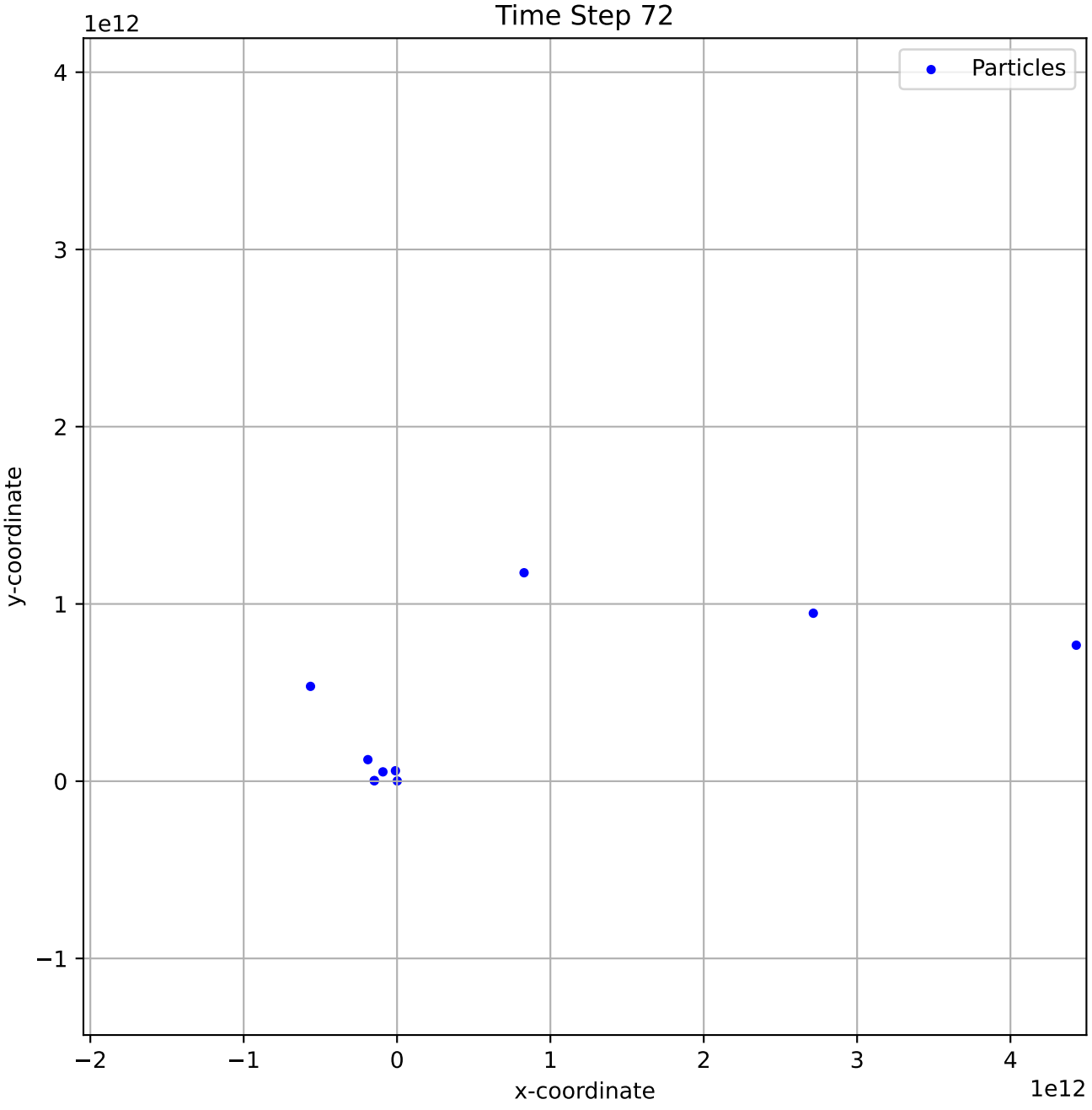

Time Step 67
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

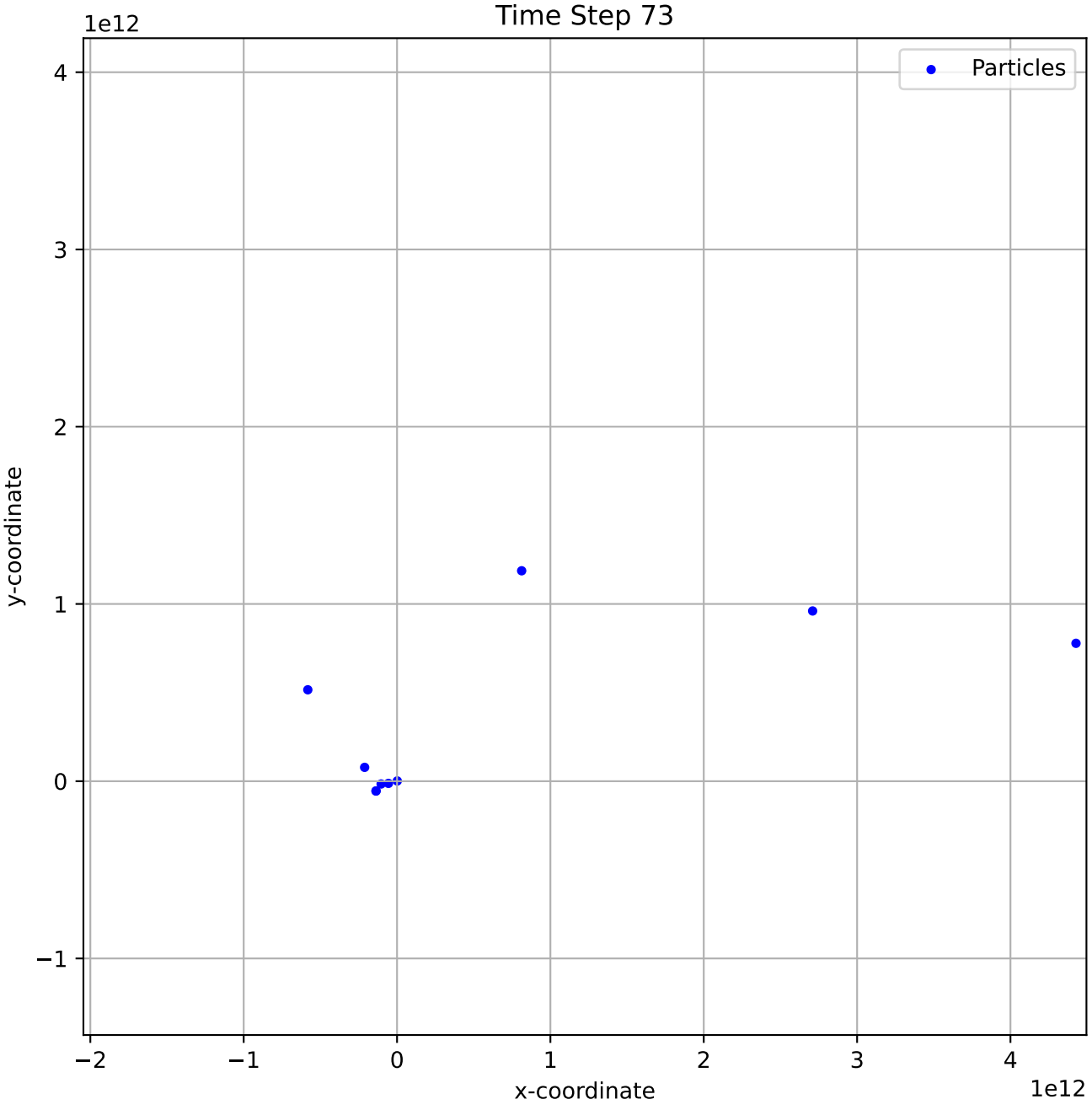

Time Step 68
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

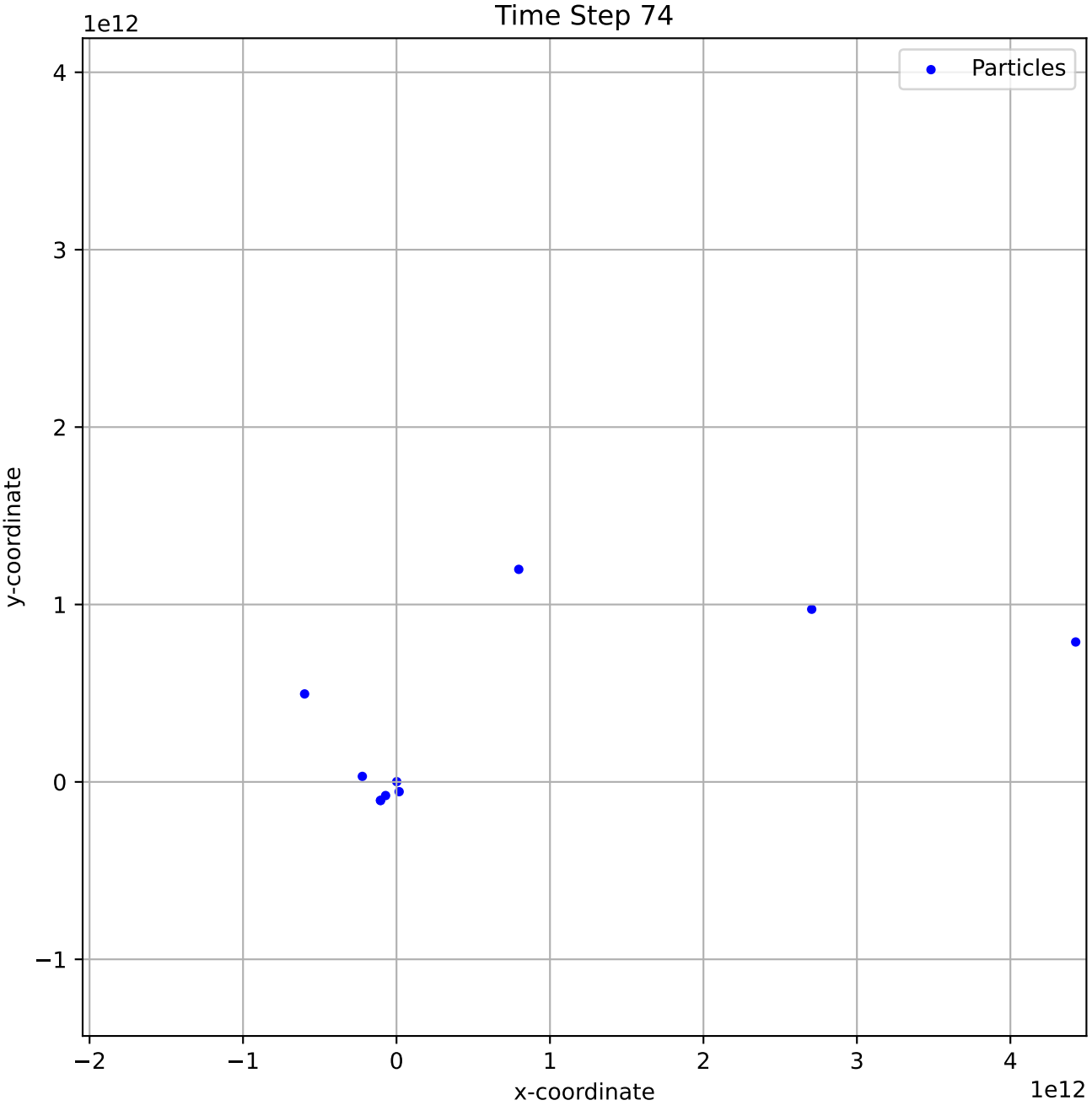

Time Step 69
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

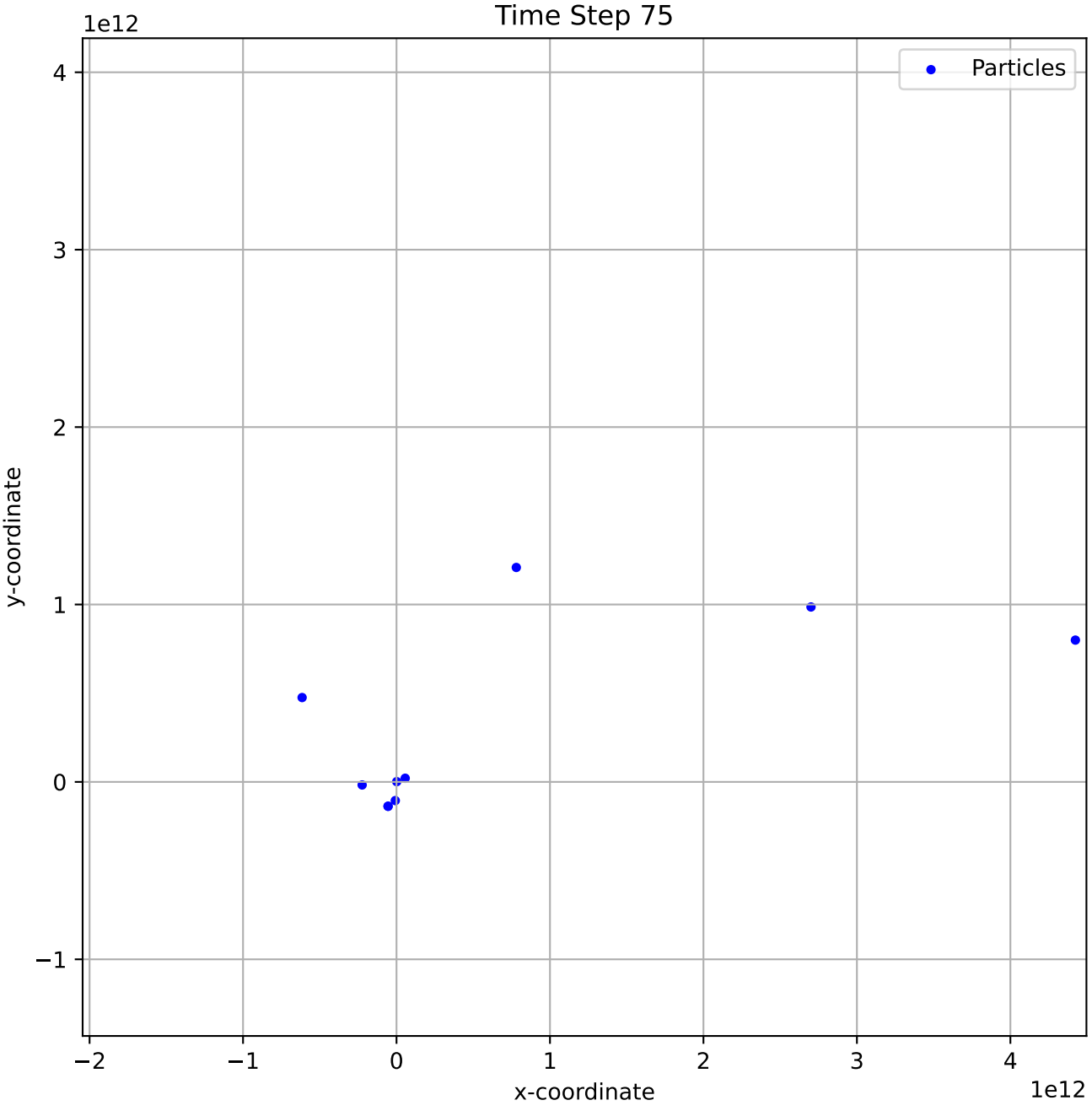

Time Step 70
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

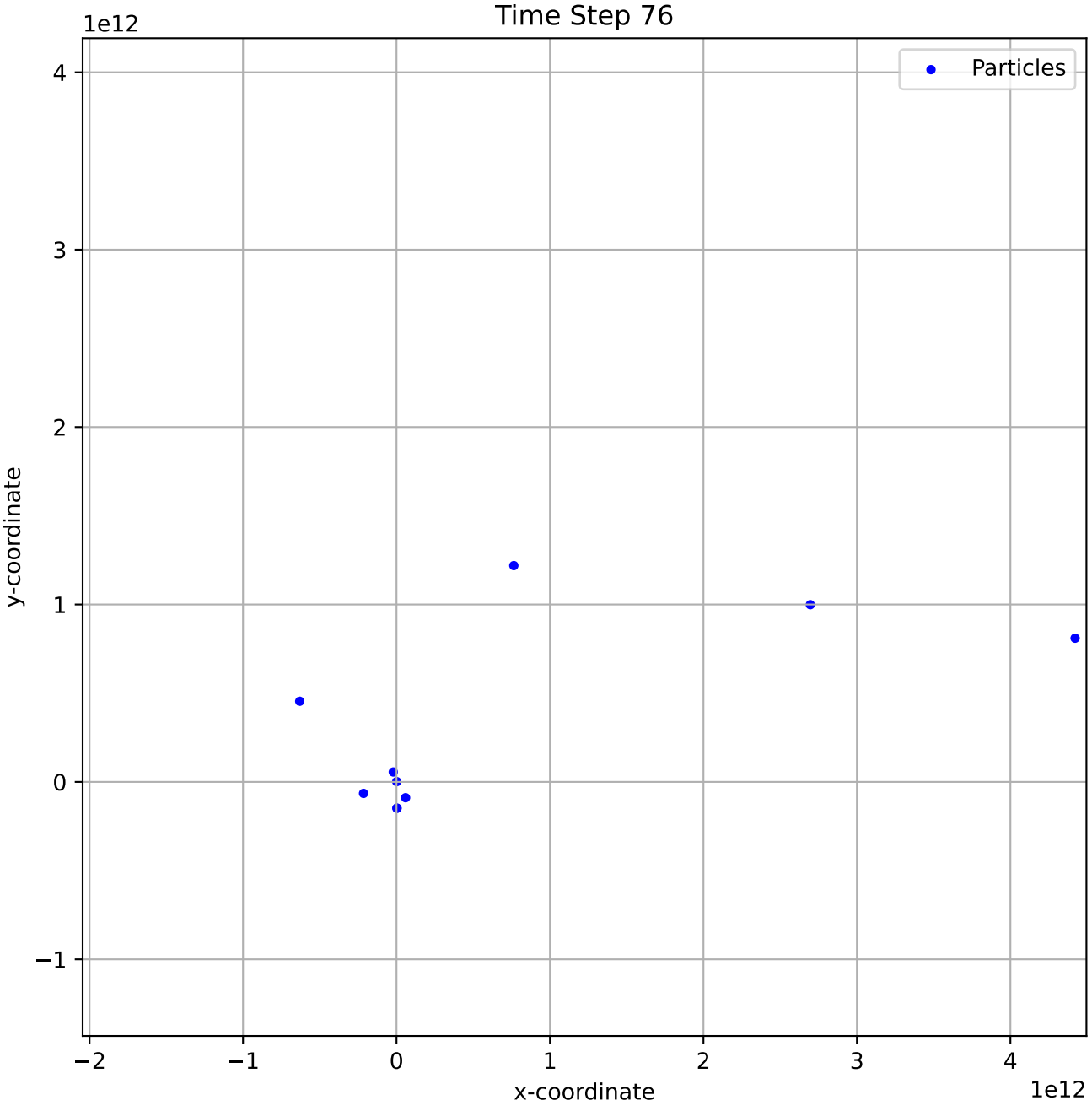

Time Step 71
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

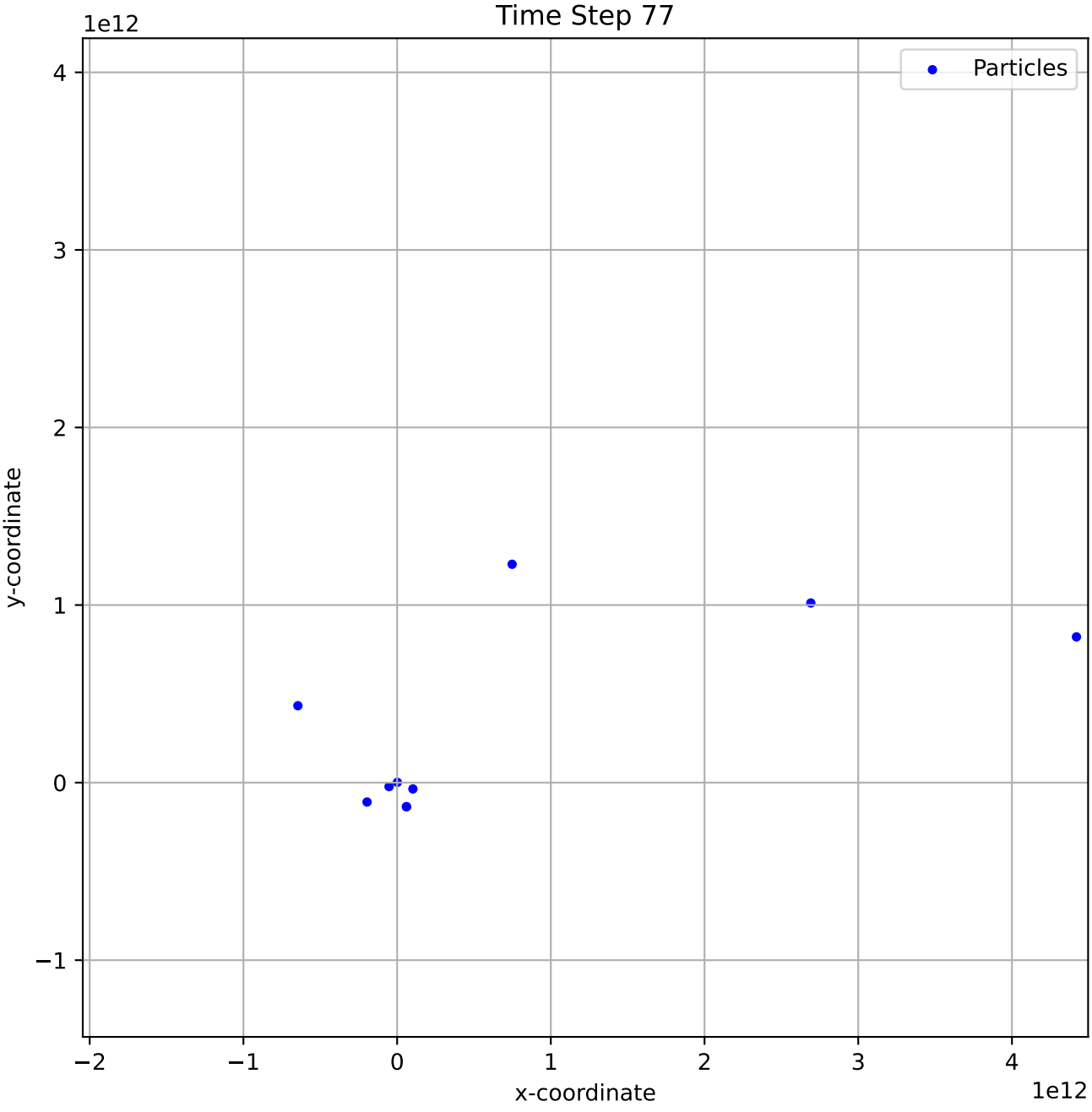

Time Step 72
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

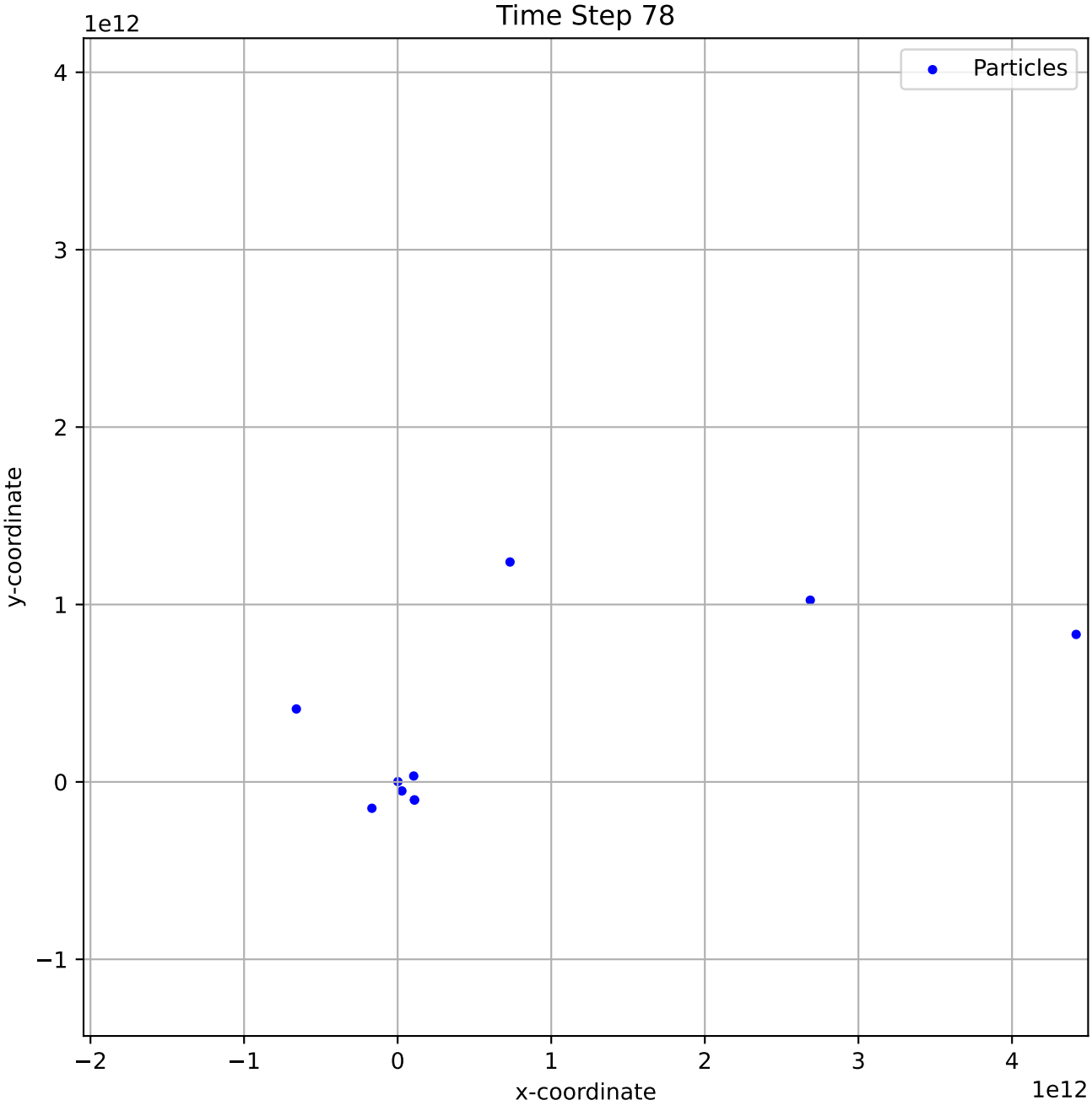

Time Step 73
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

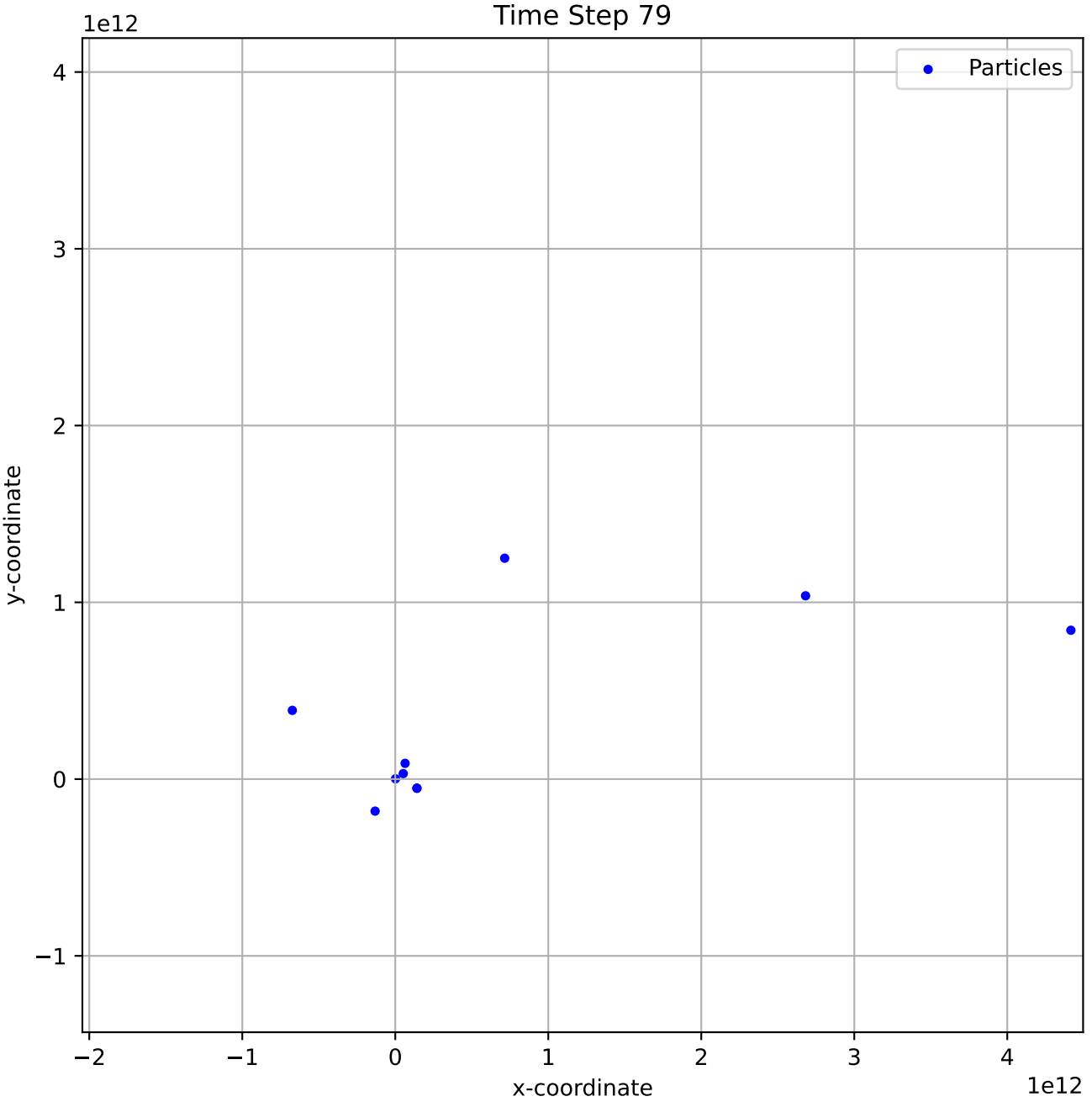

Time Step 74
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

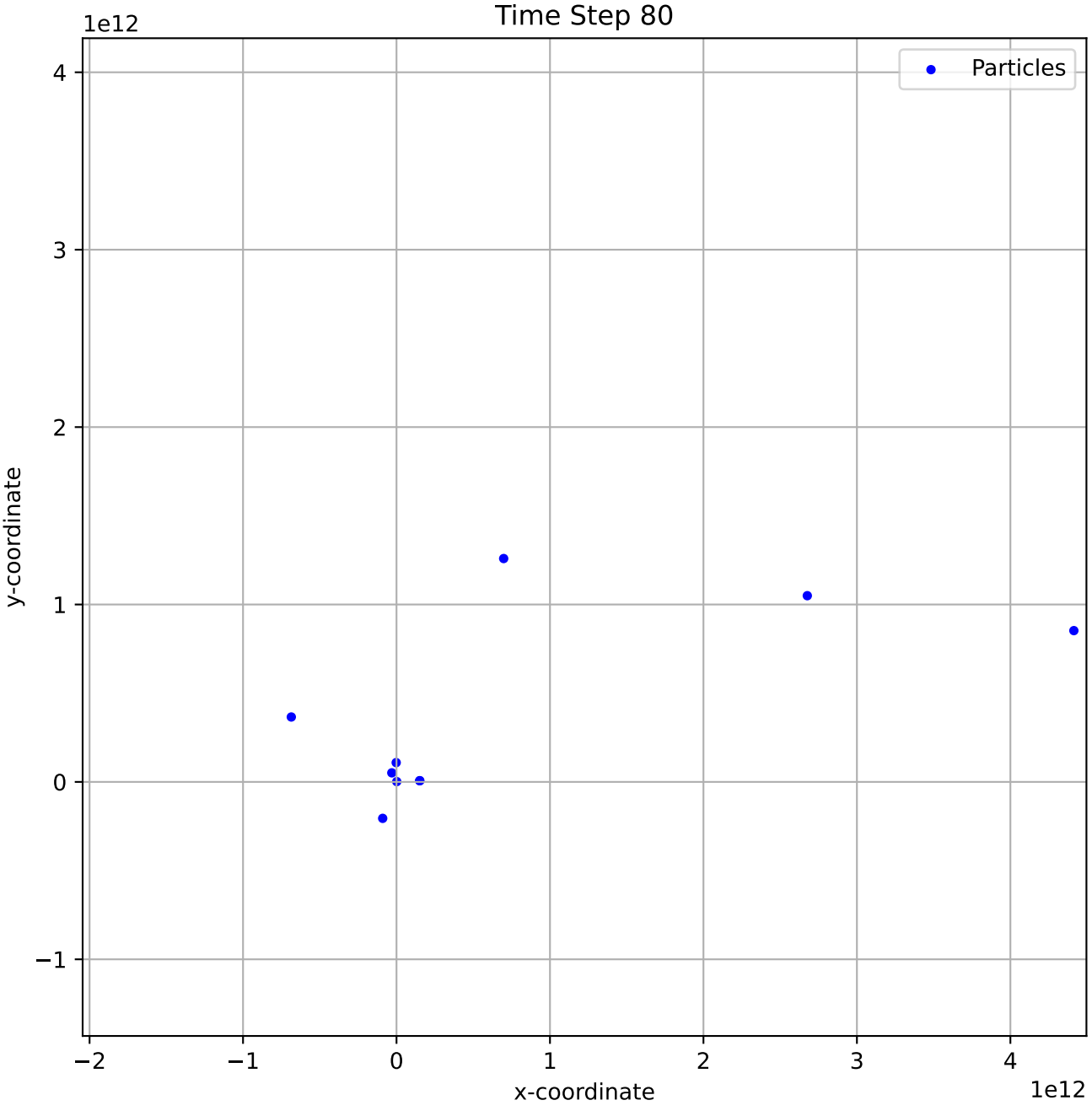

Time Step 75
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

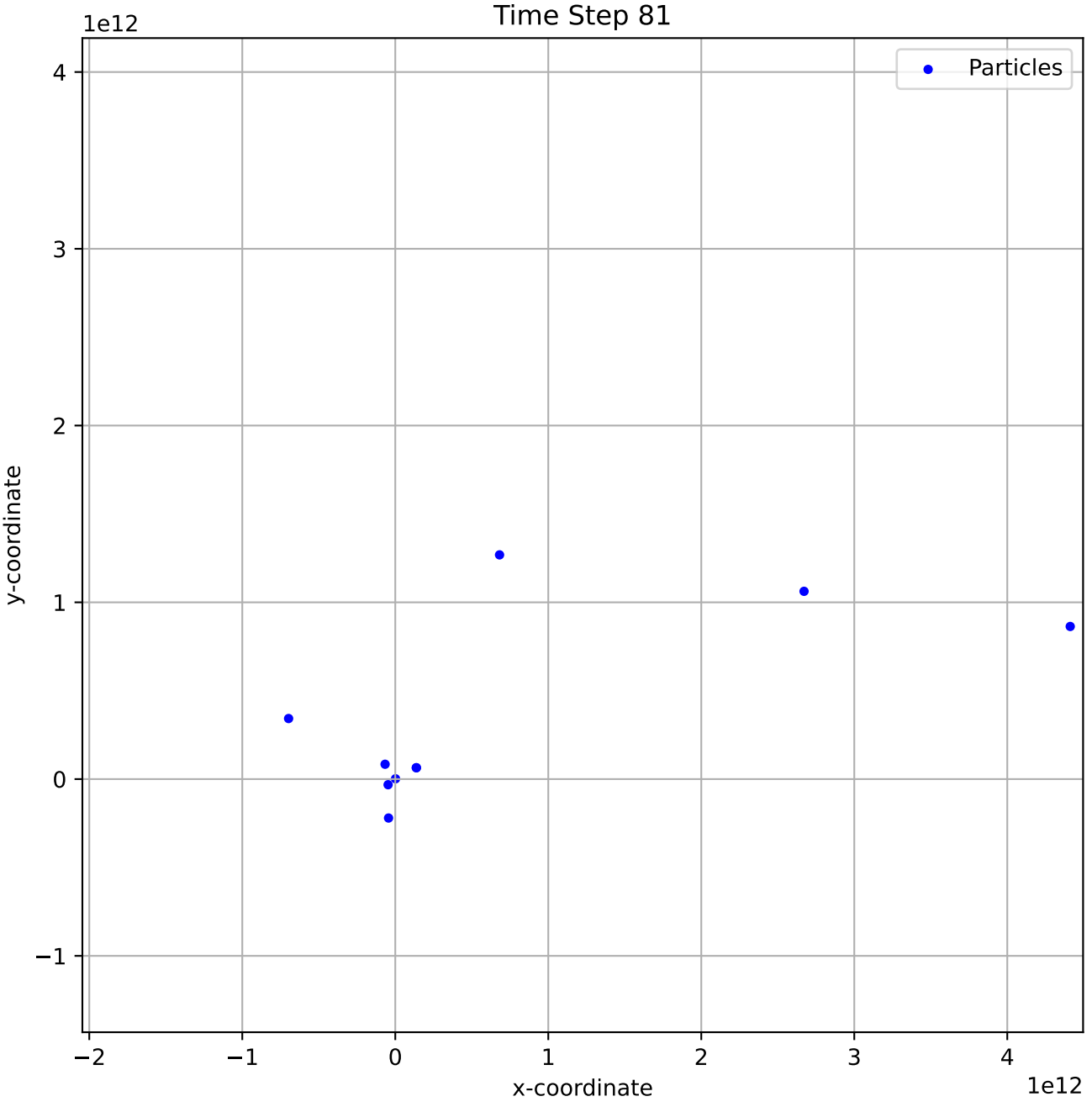

Time Step 76
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

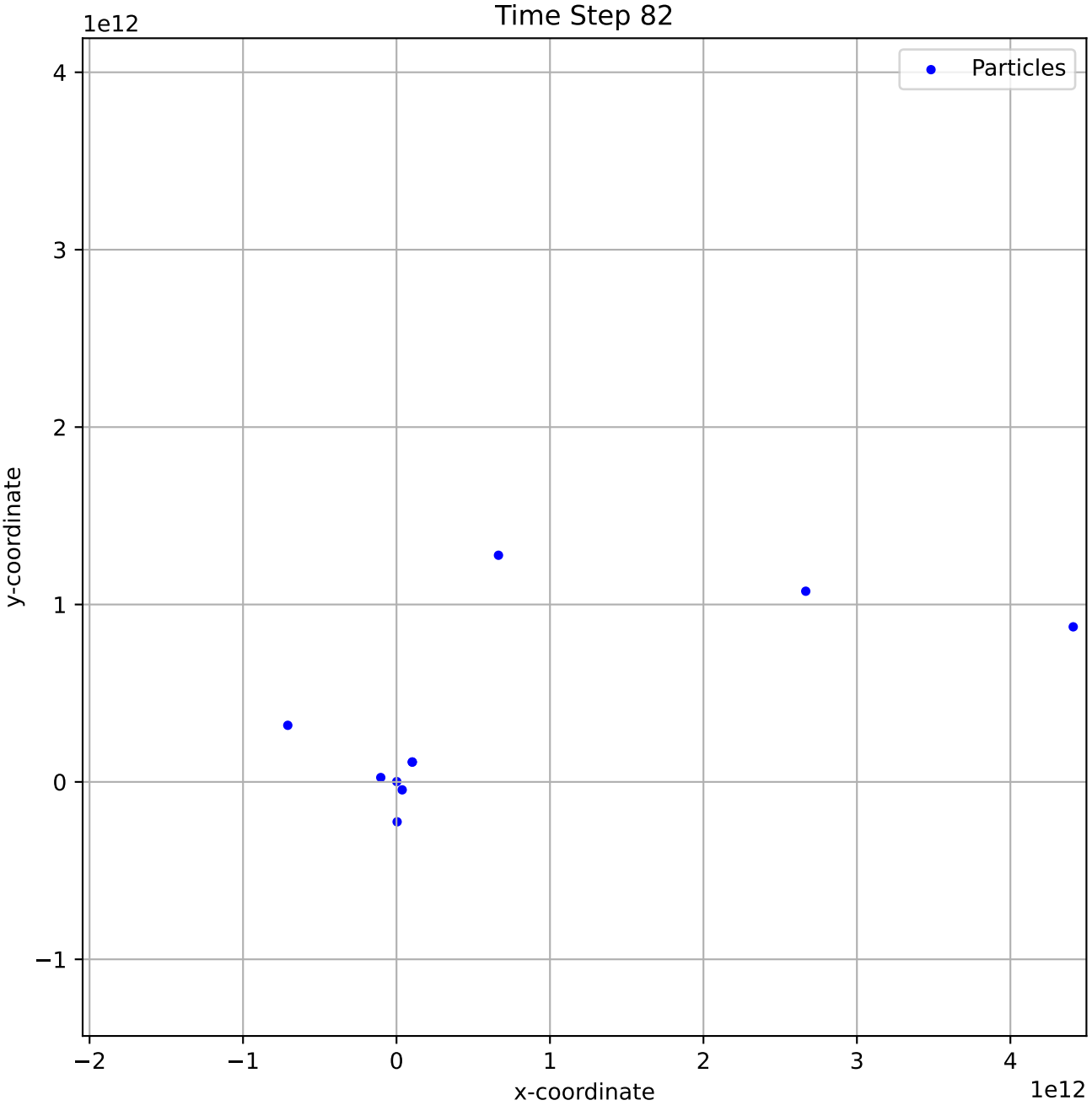

Time Step 77
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

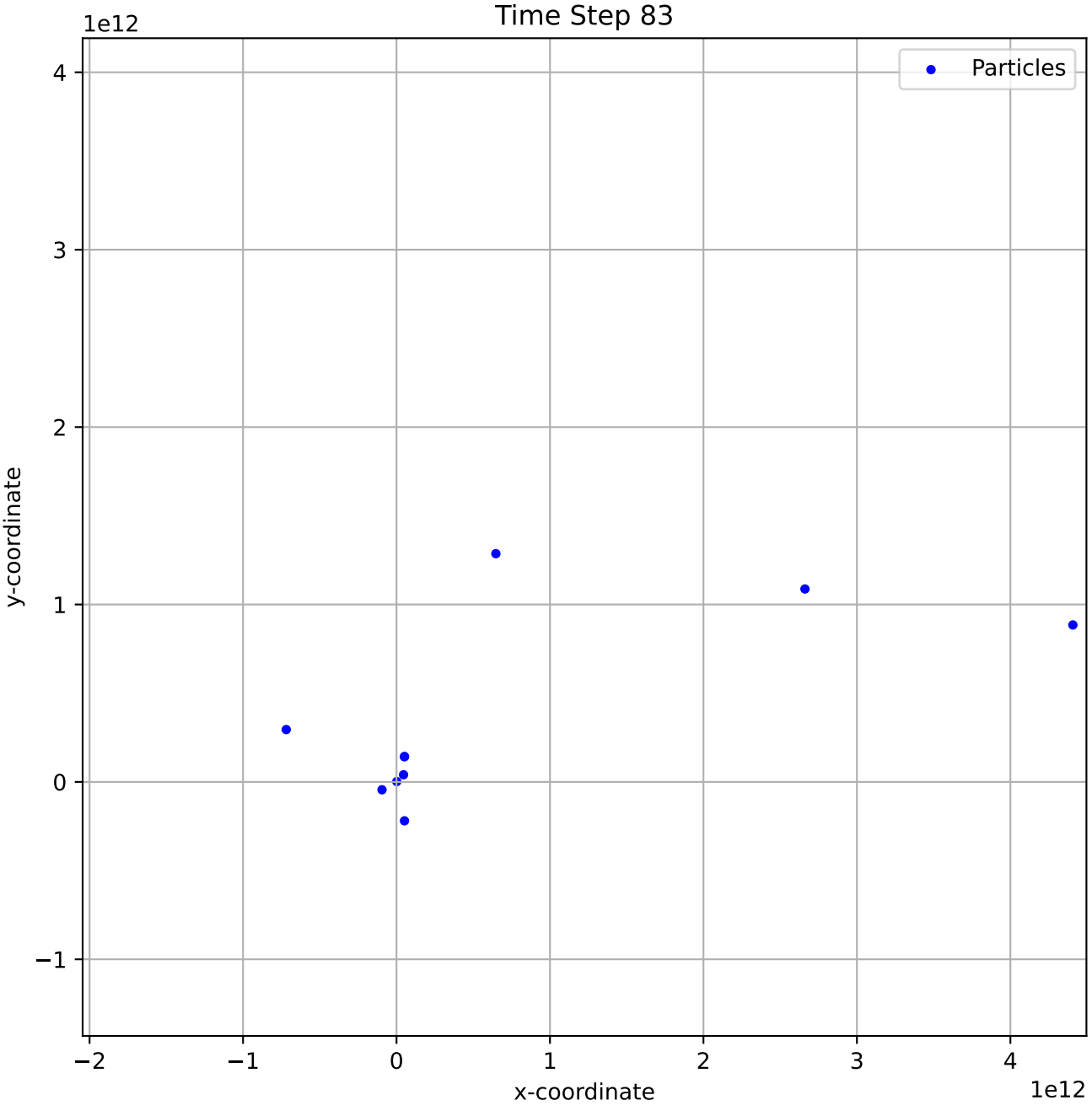

Time Step 78
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

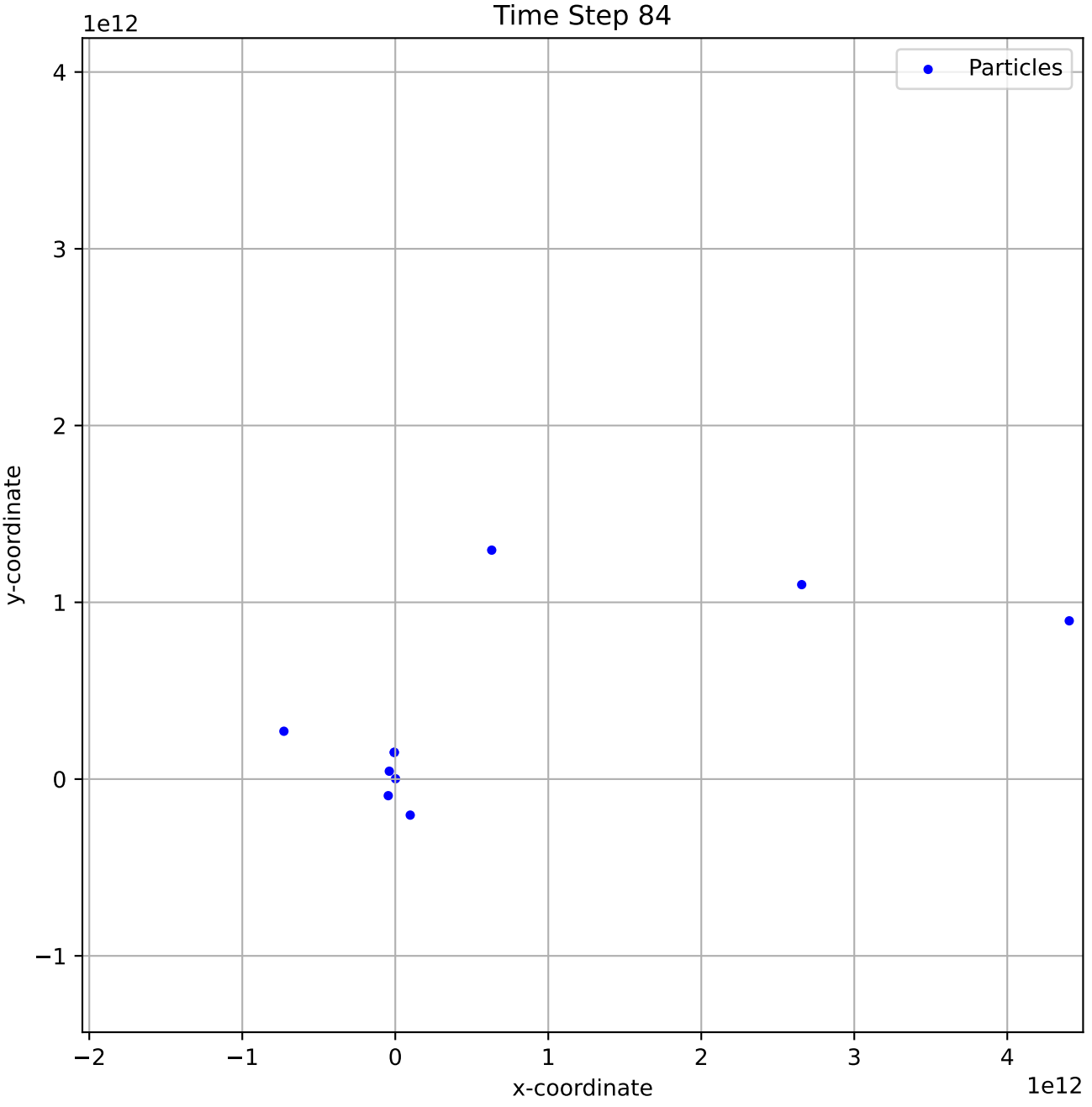

Time Step 79
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

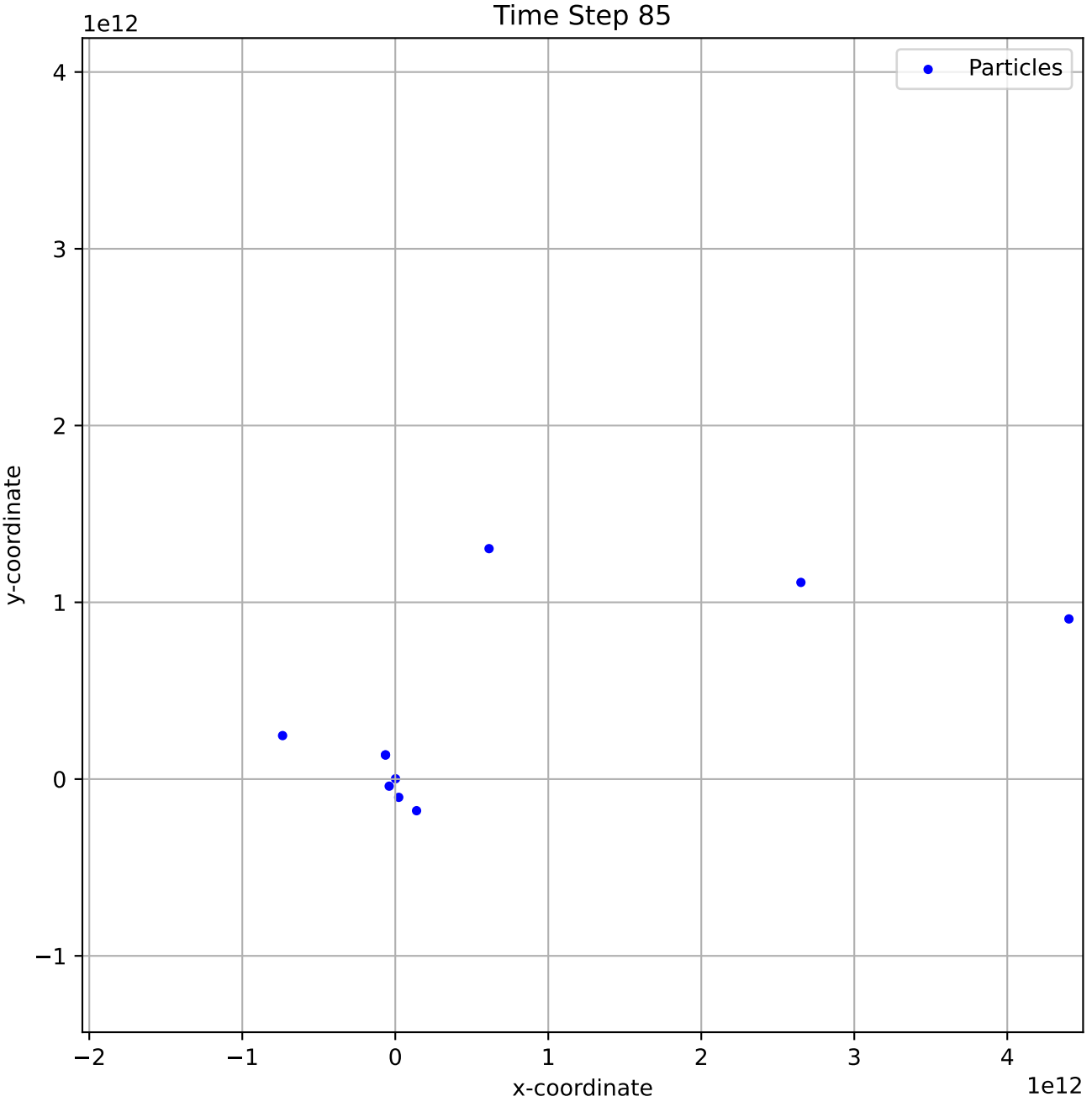

Time Step 80
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

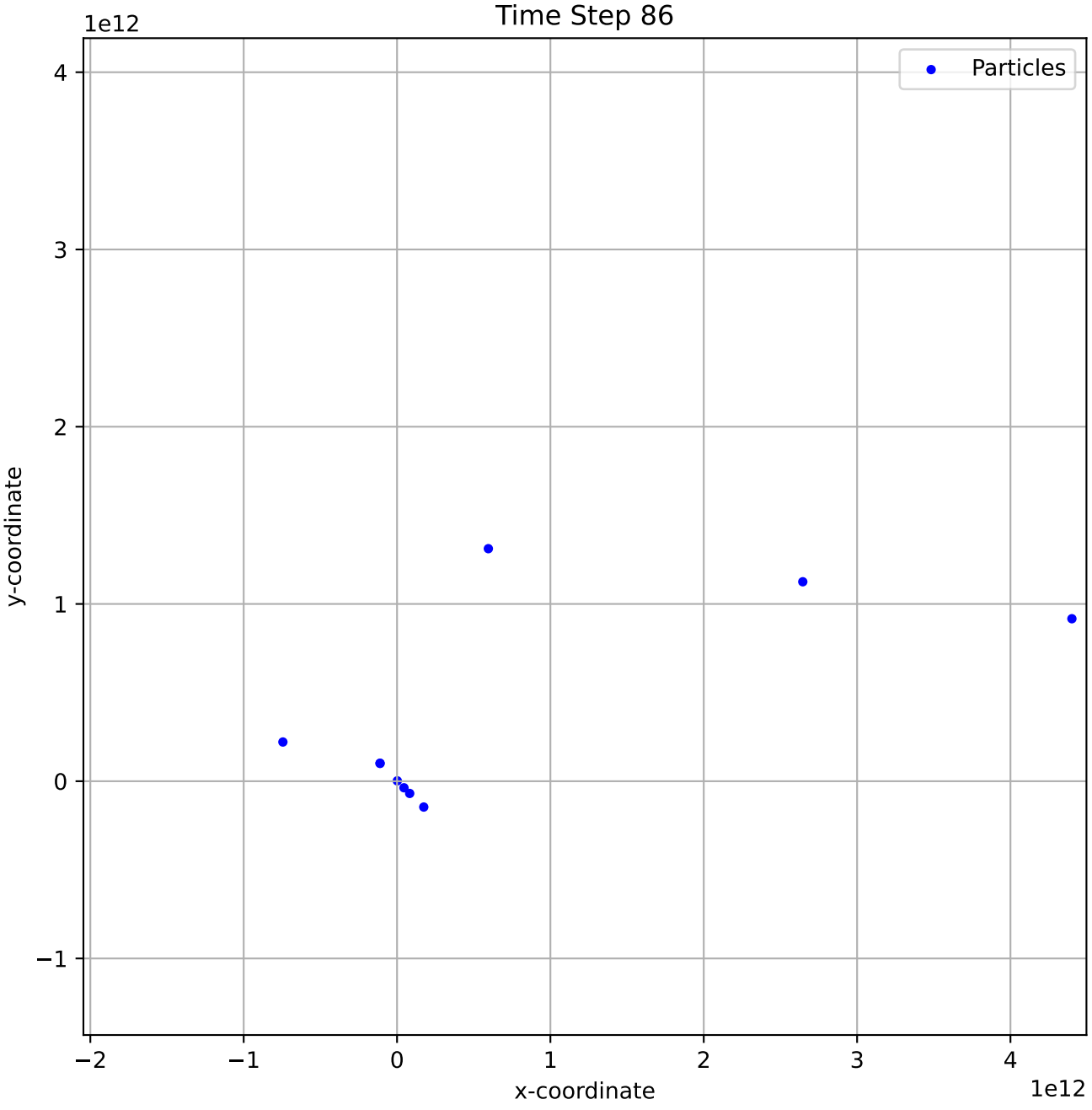

Time Step 81
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

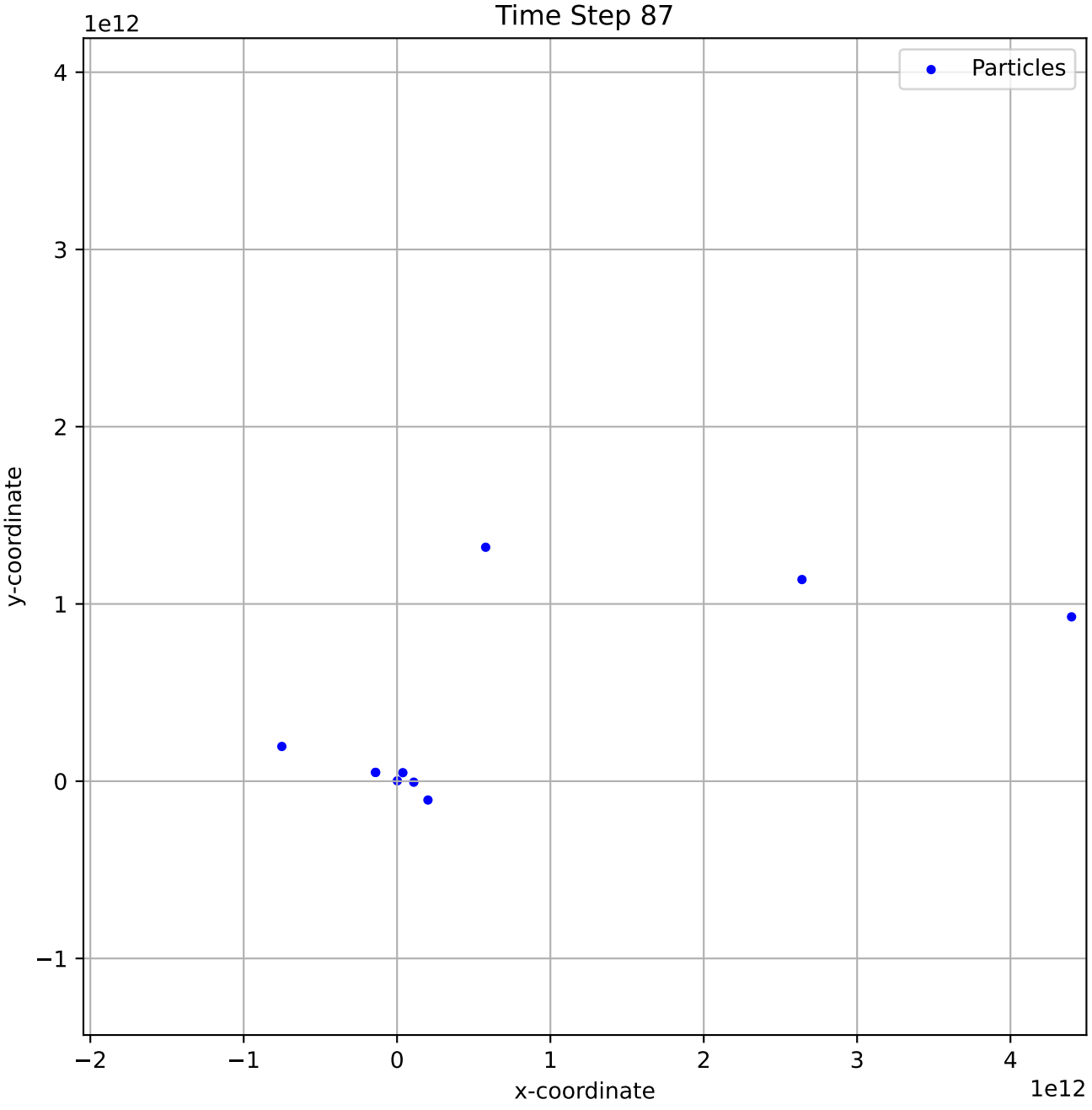

Time Step 82
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

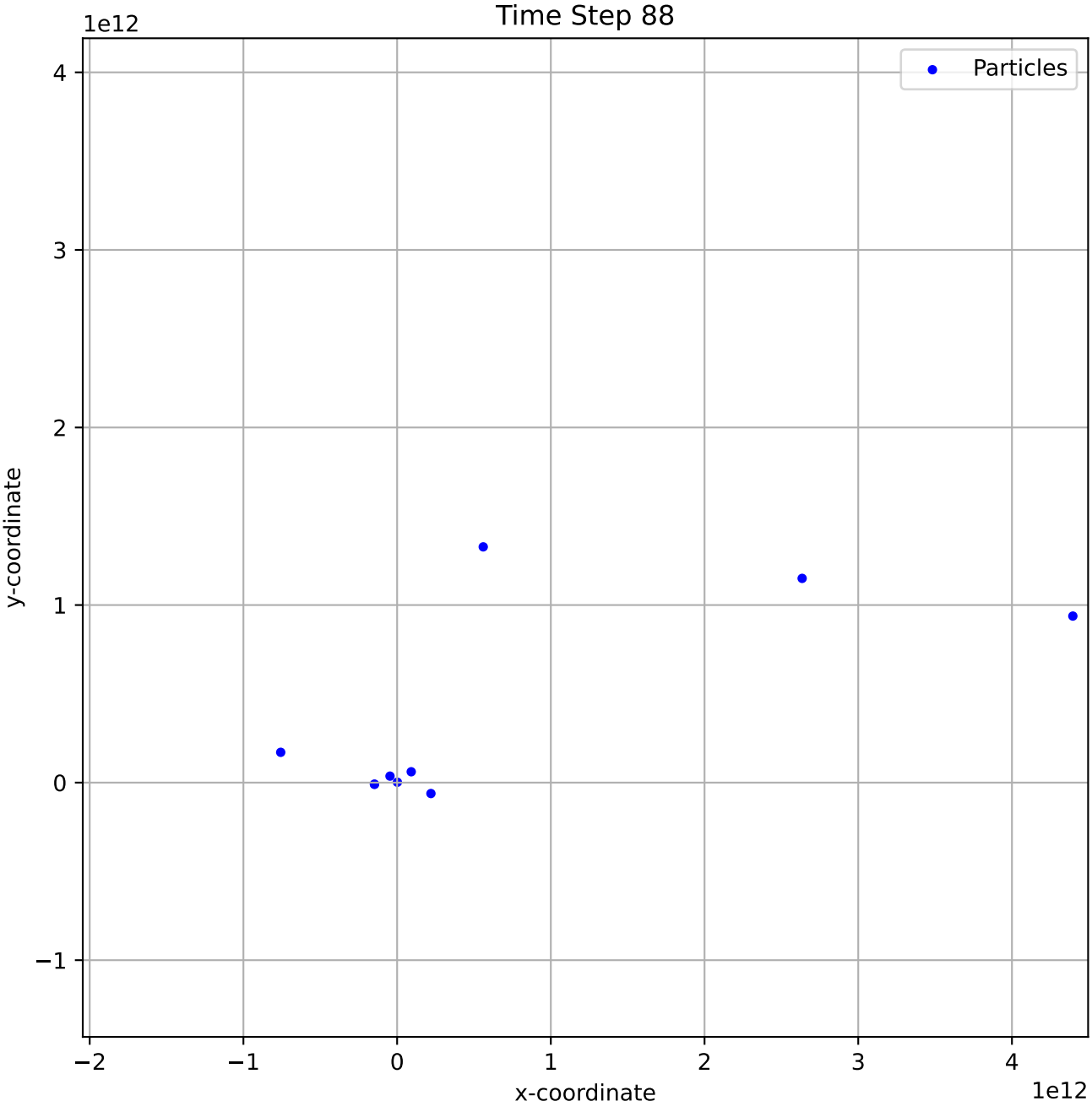

Time Step 83
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

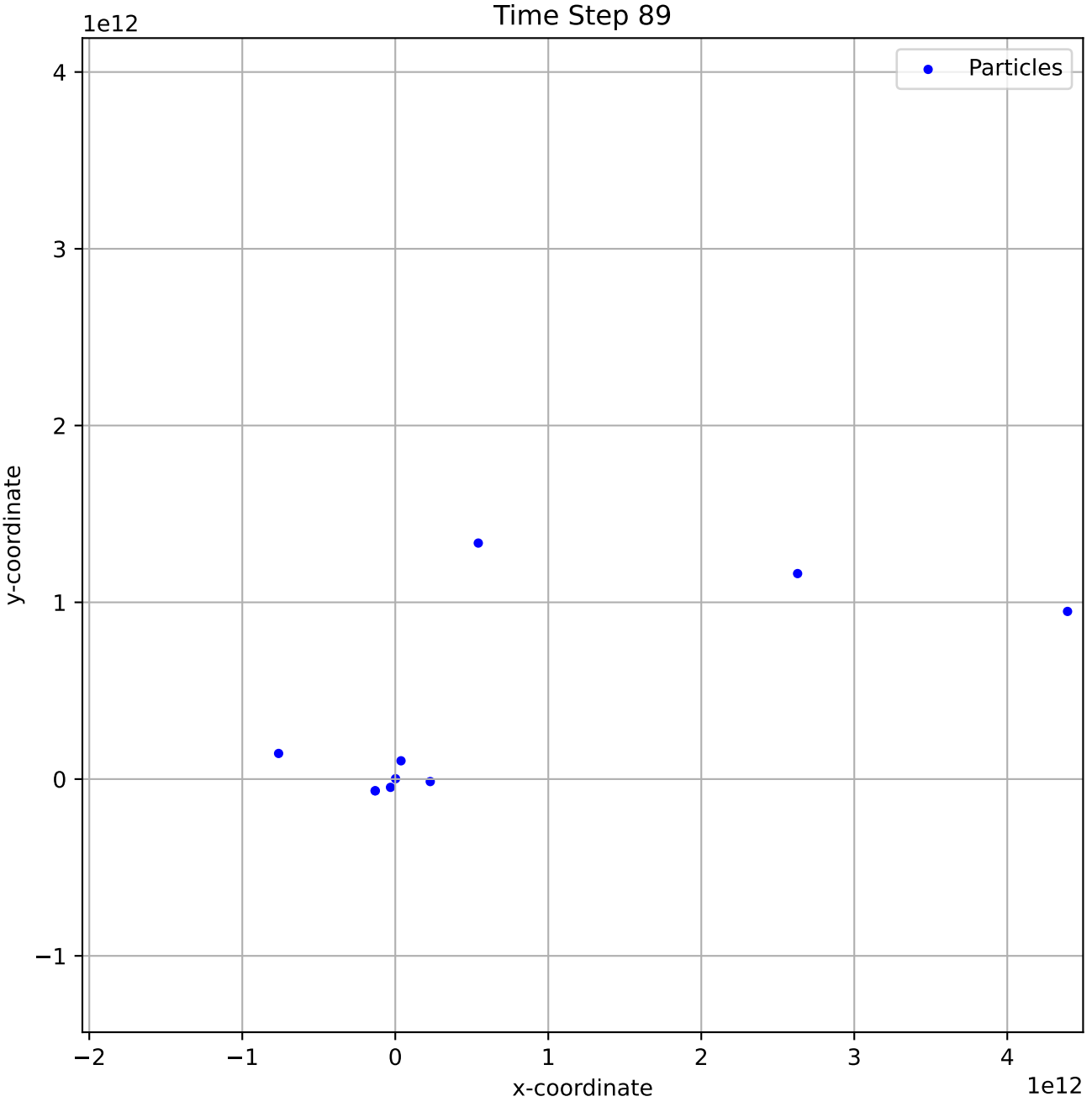

Time Step 84
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

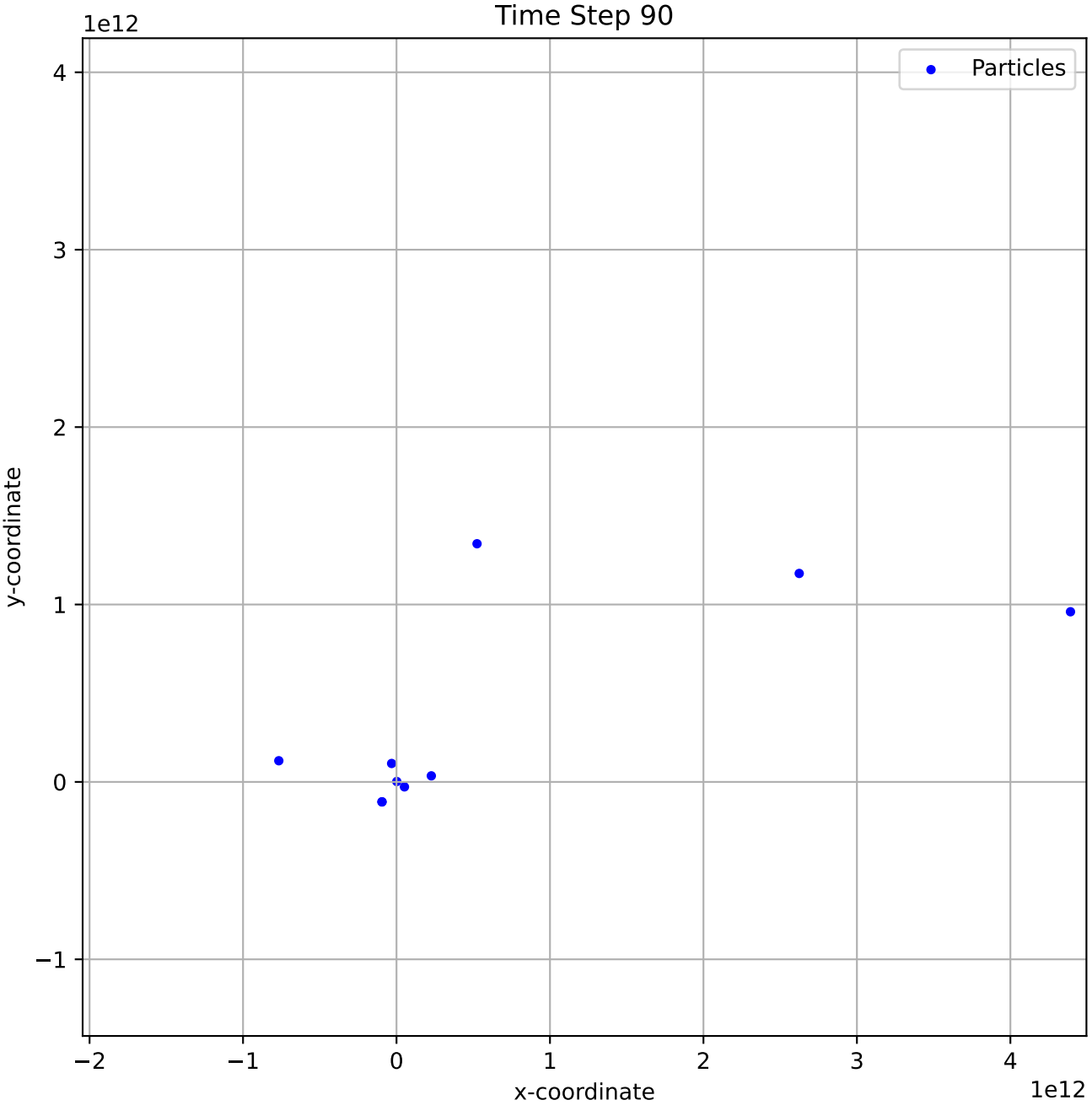

Time Step 85
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

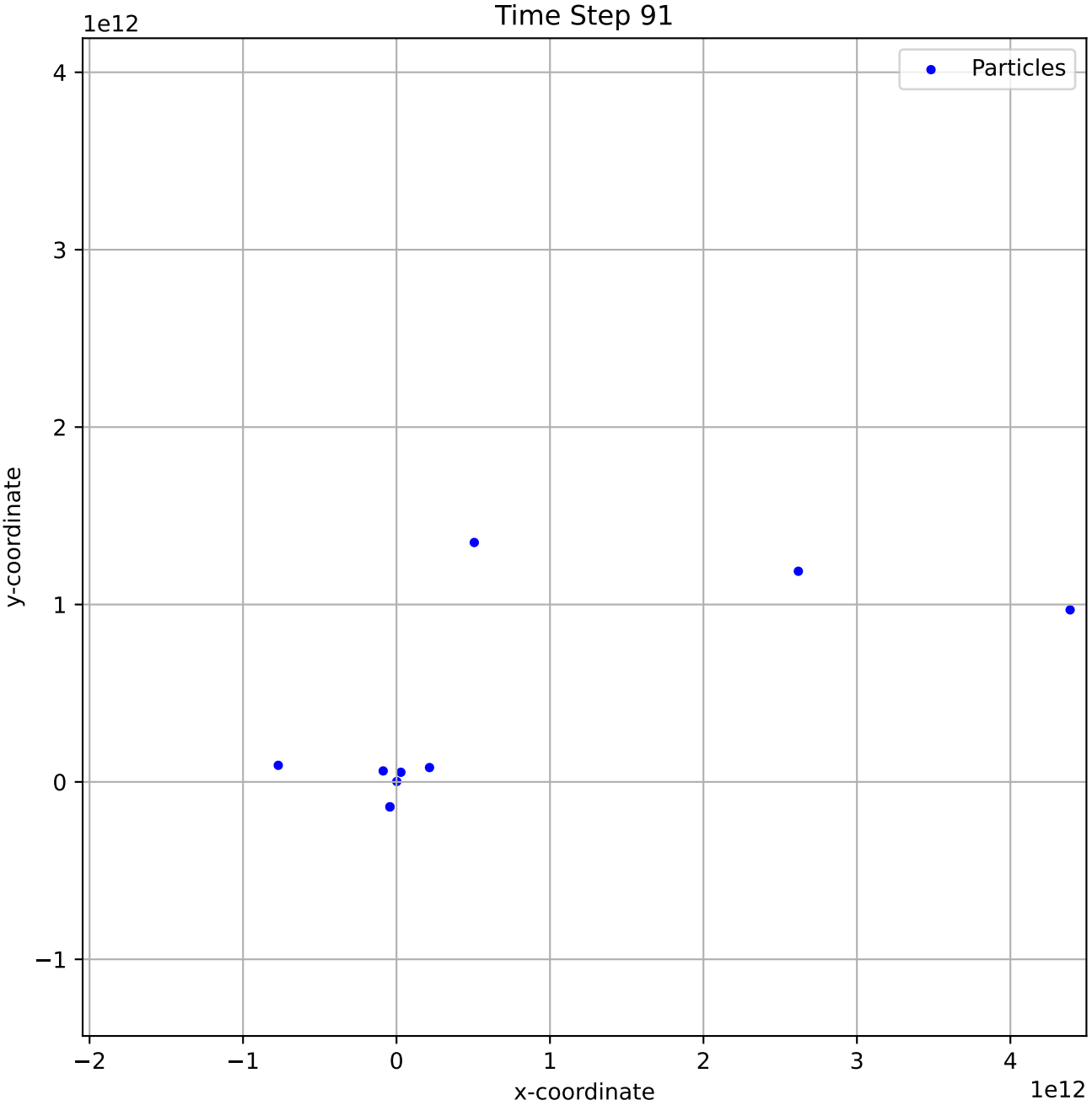

Time Step 86
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

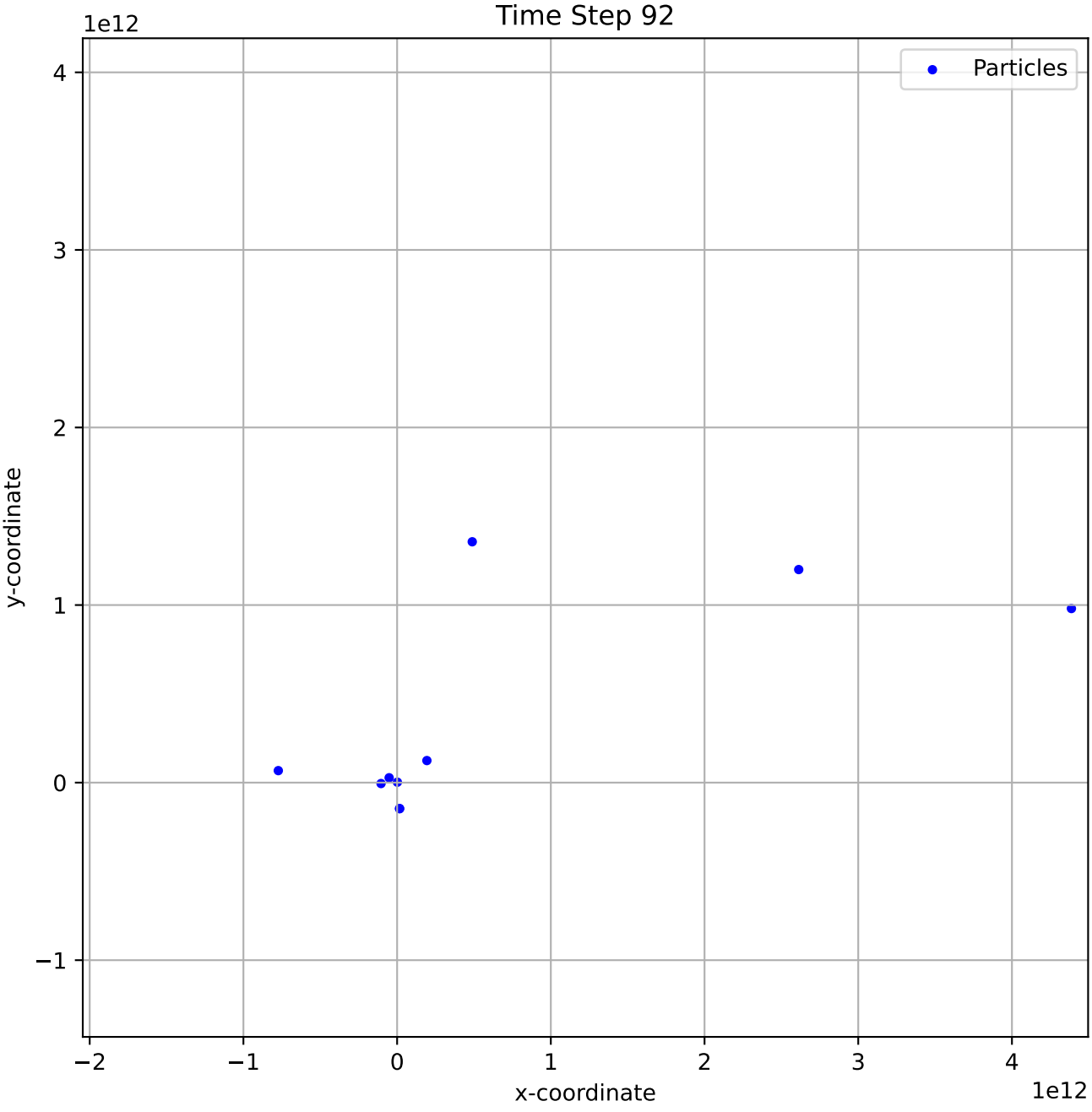

Time Step 87
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

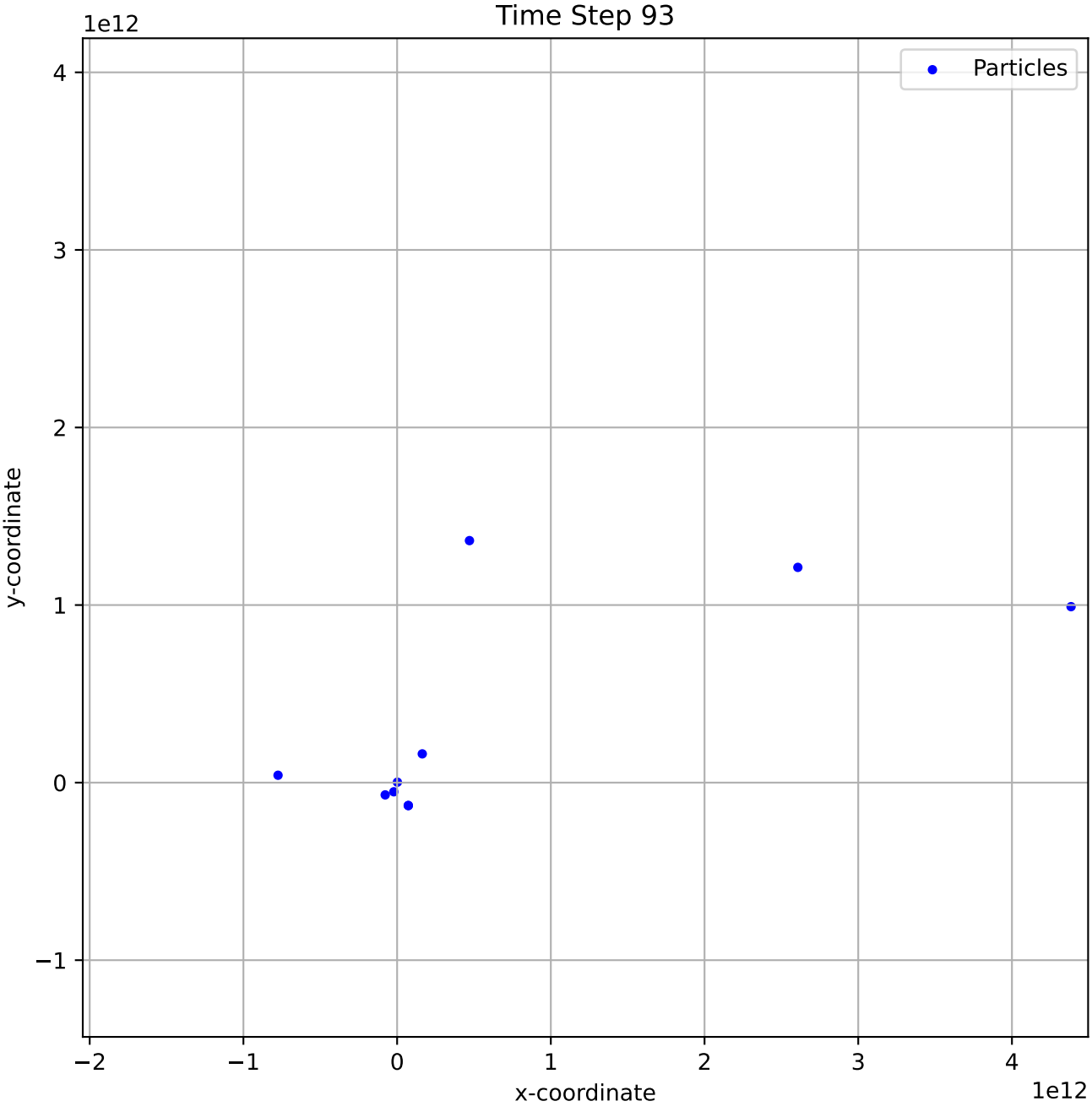

Time Step 88
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

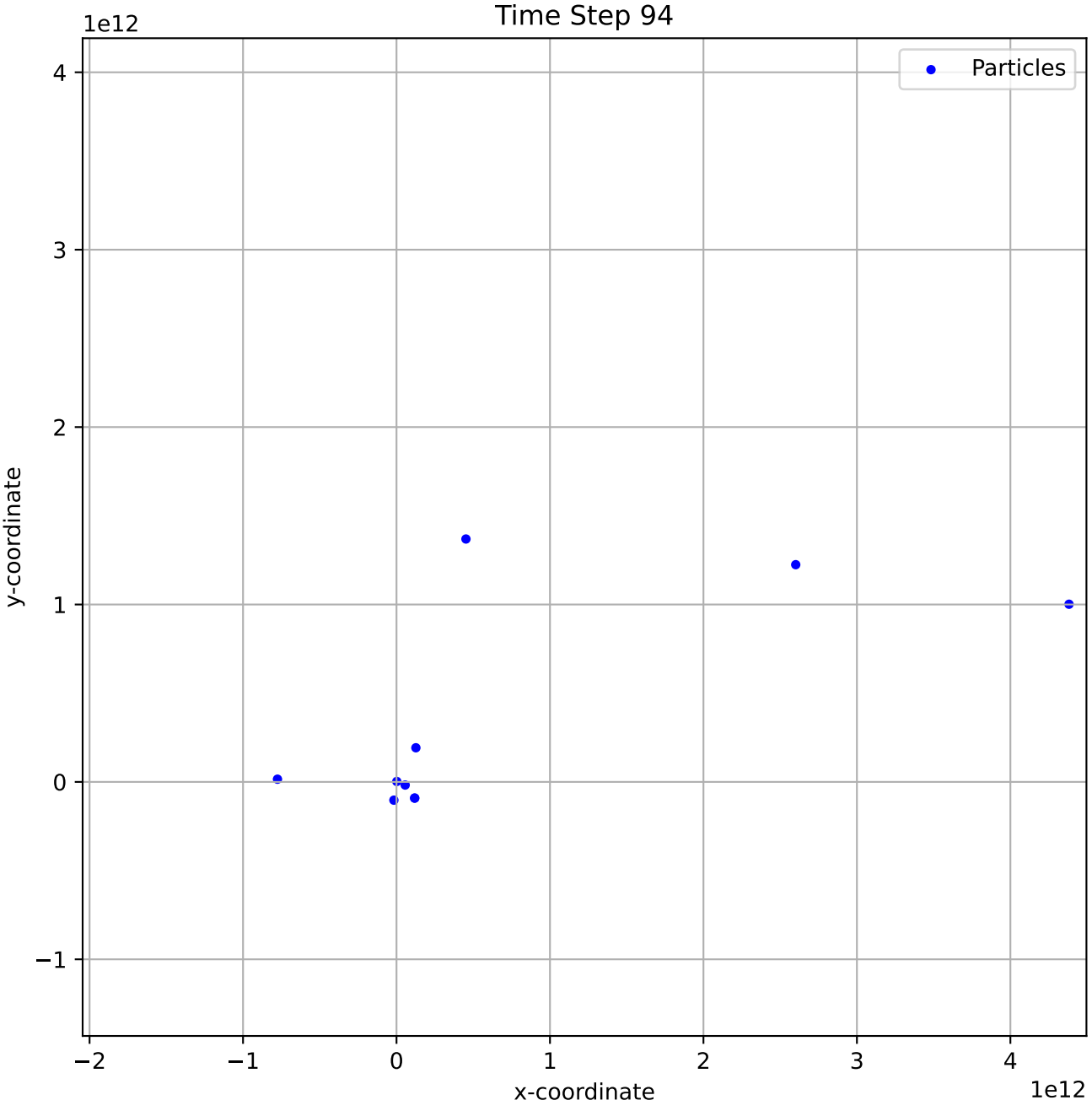

Time Step 89
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

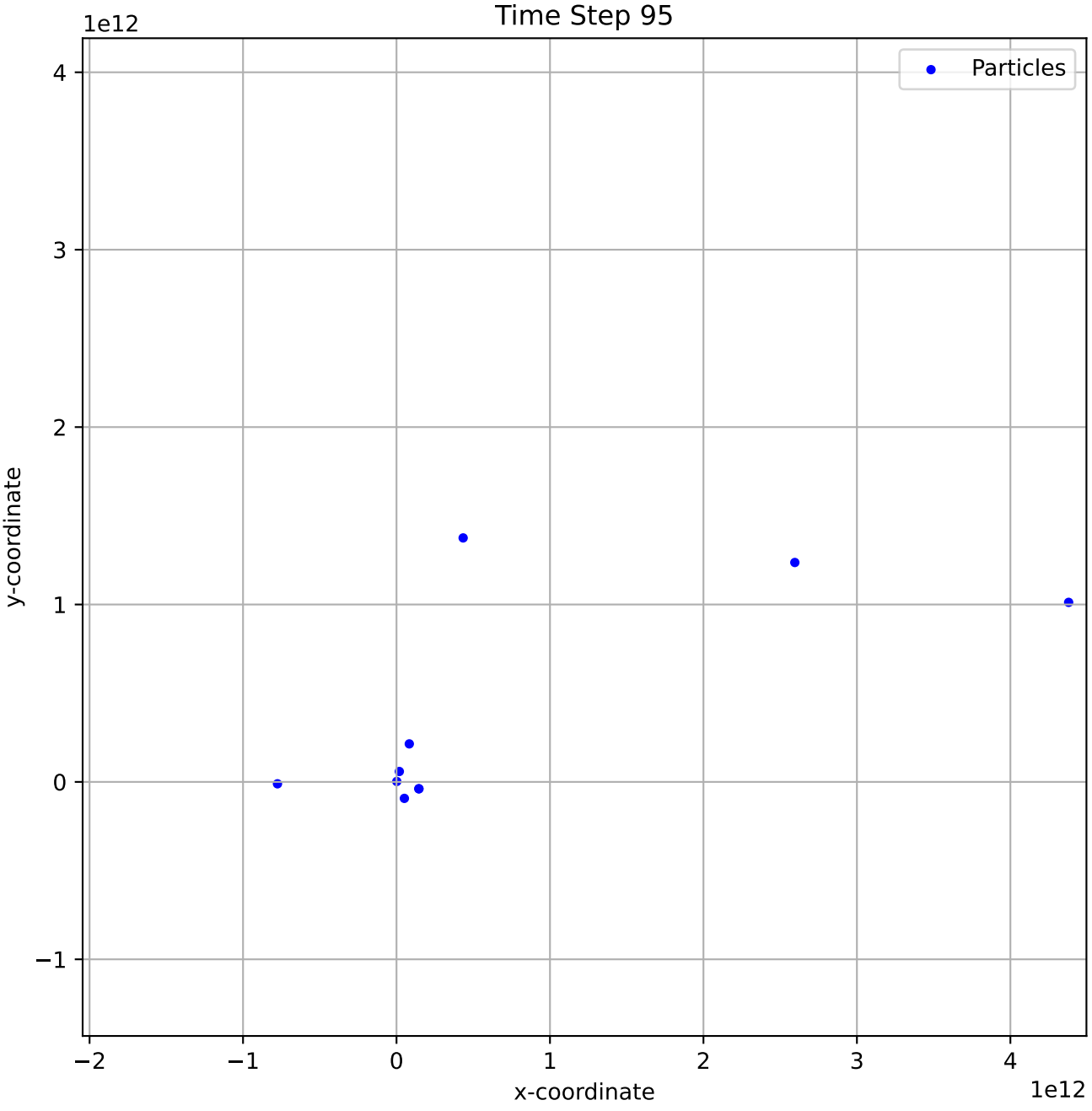

Time Step 90
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

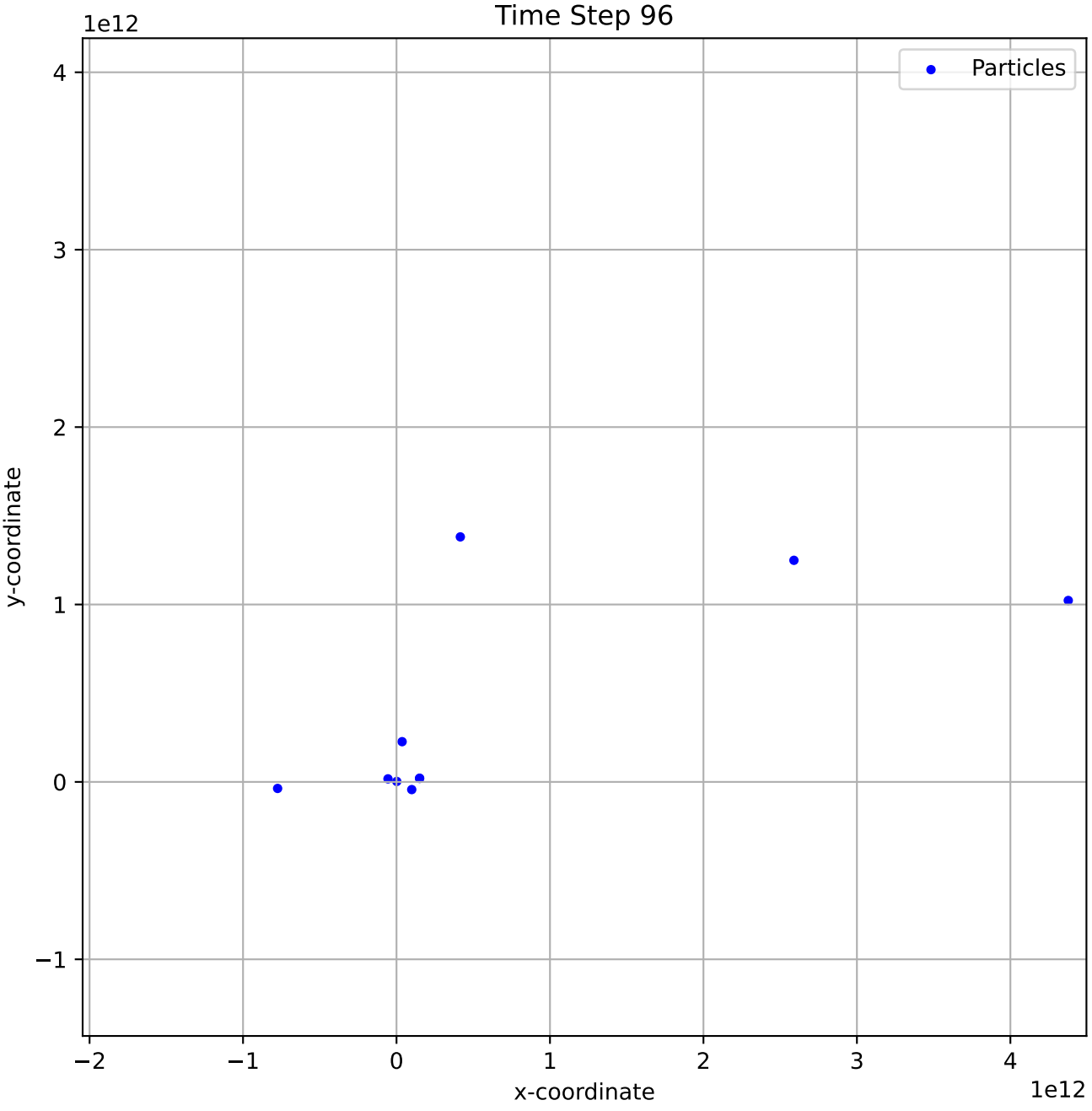

Time Step 91
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

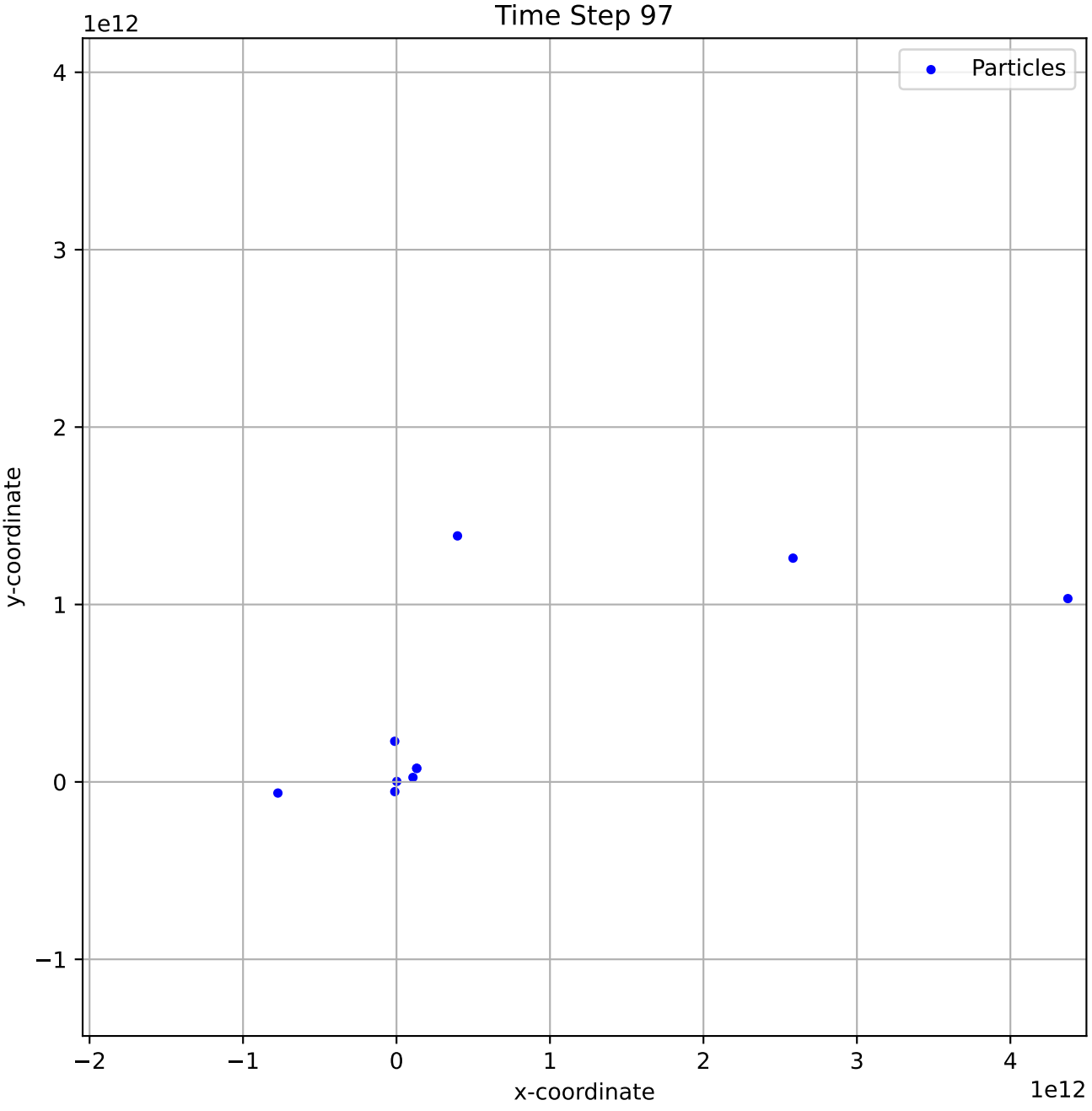

Time Step 92
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

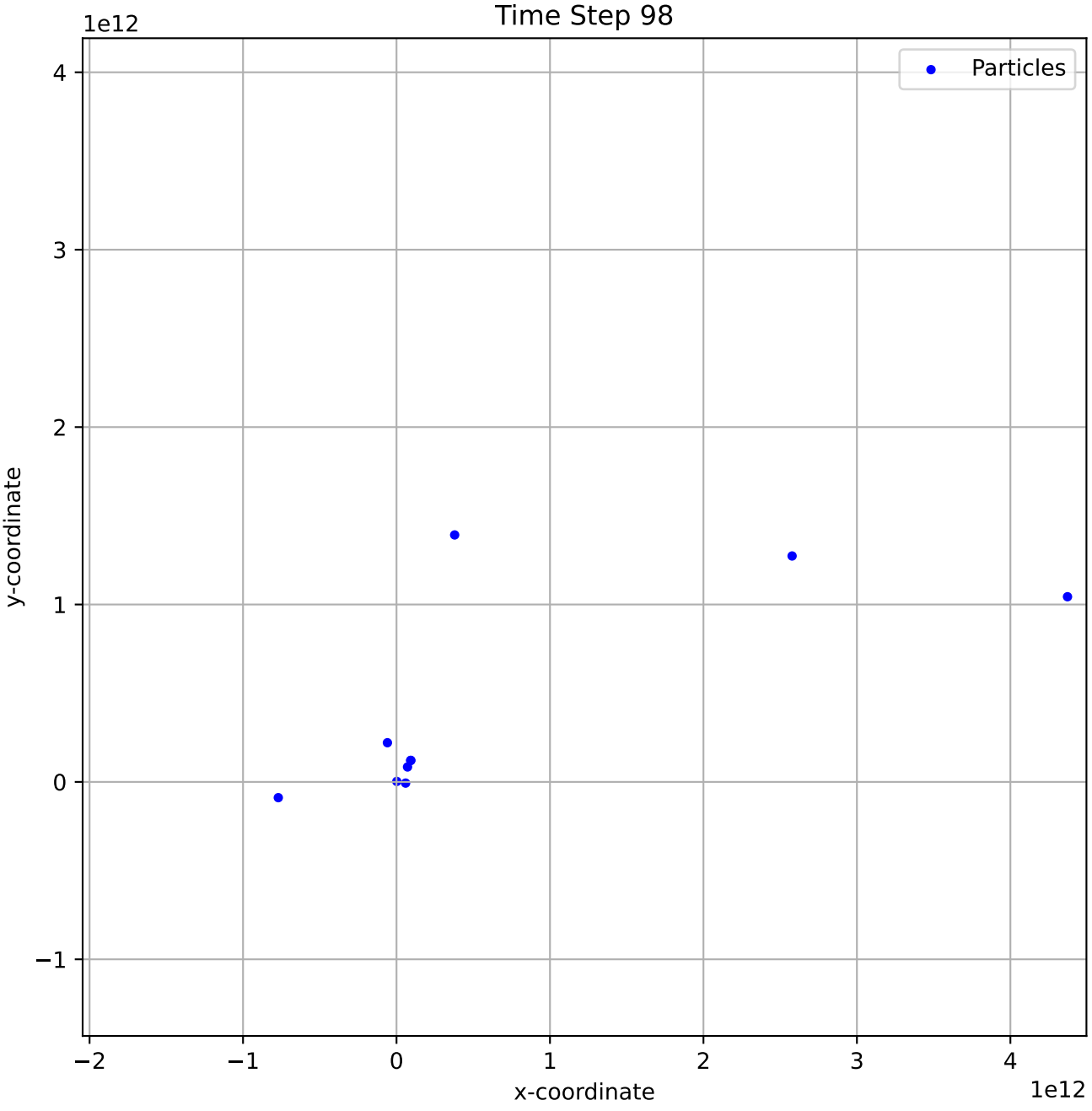

Time Step 93
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

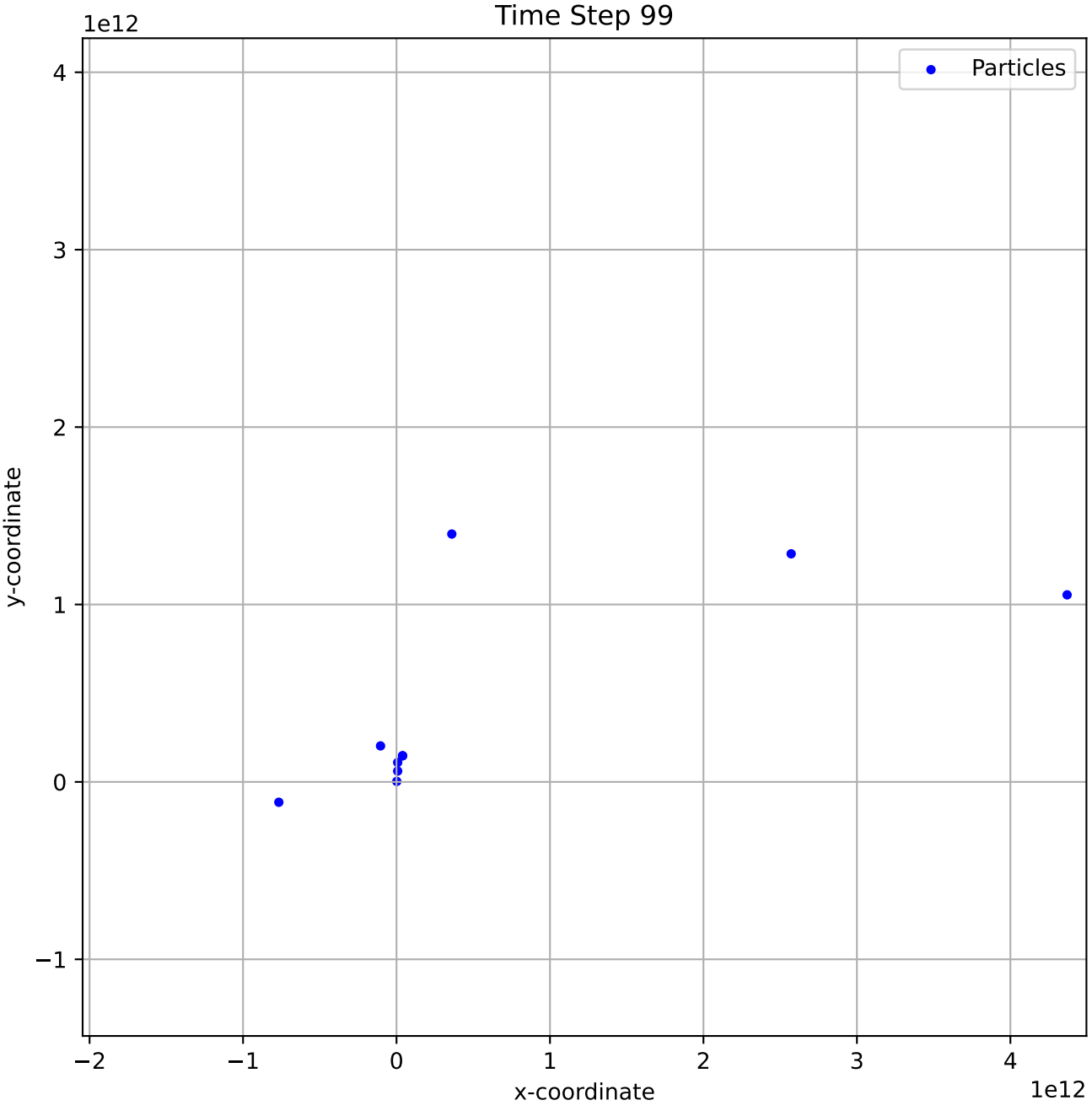

Time Step 94
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

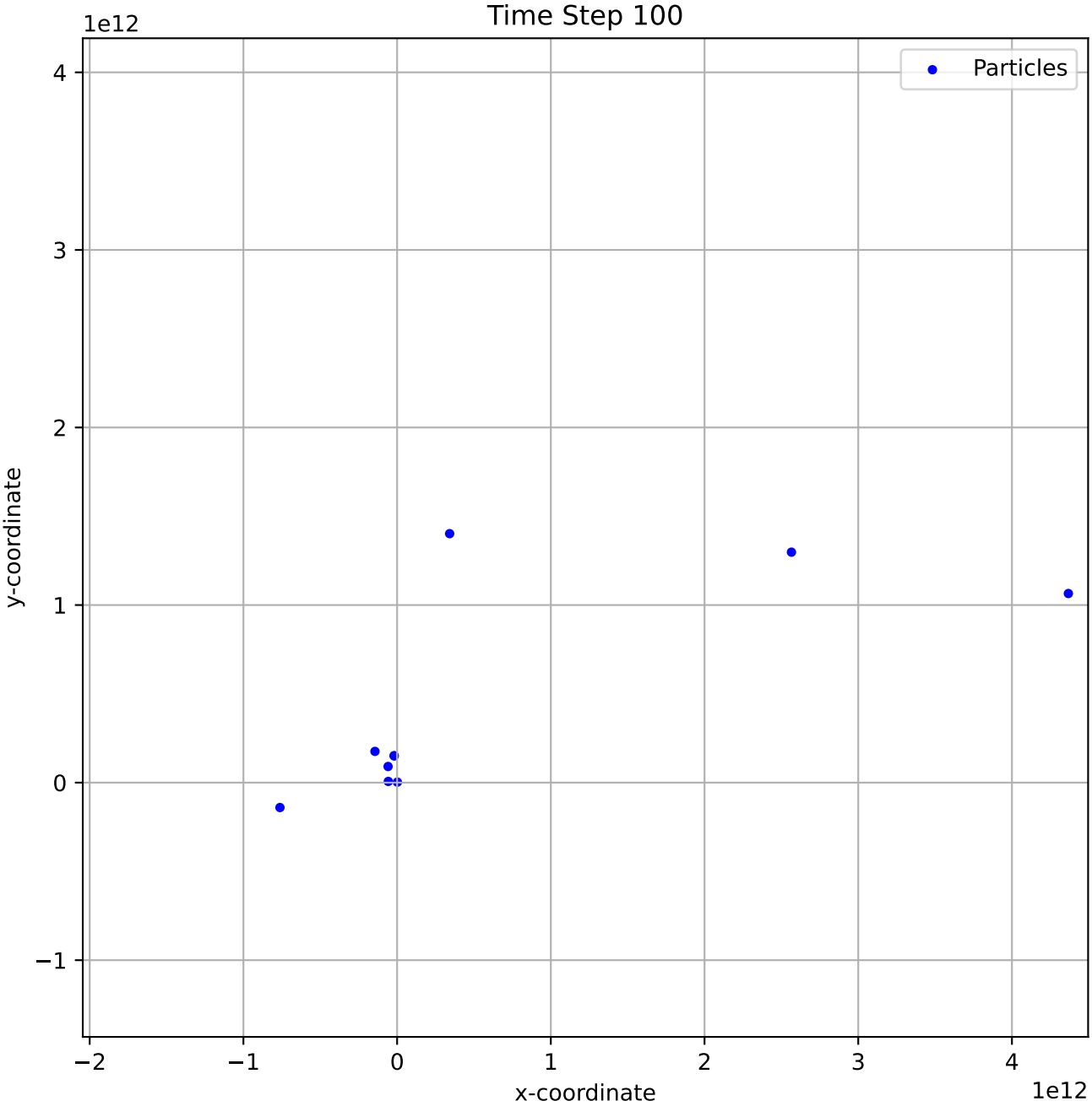

Time Step 95
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

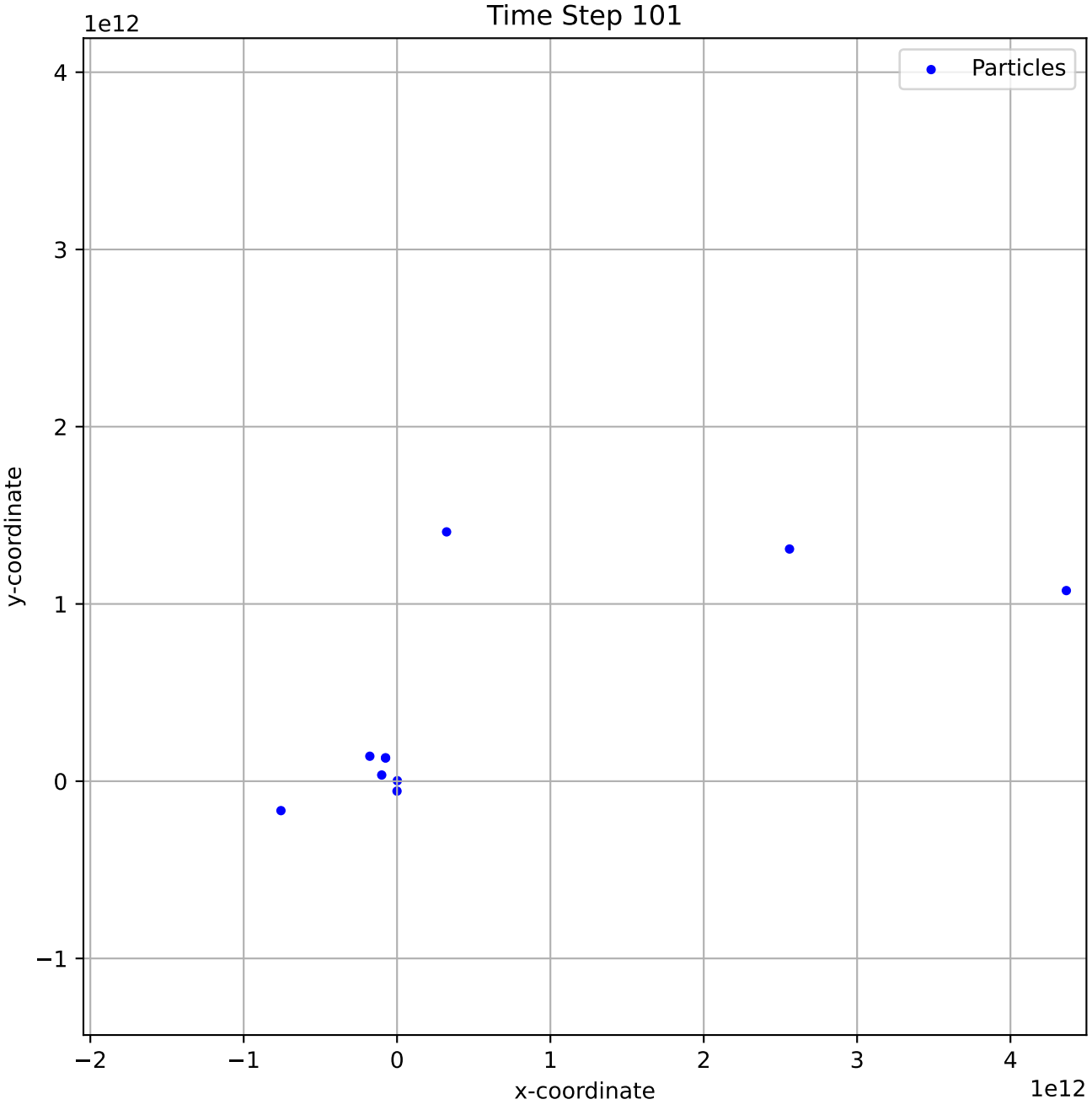

Time Step 96
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

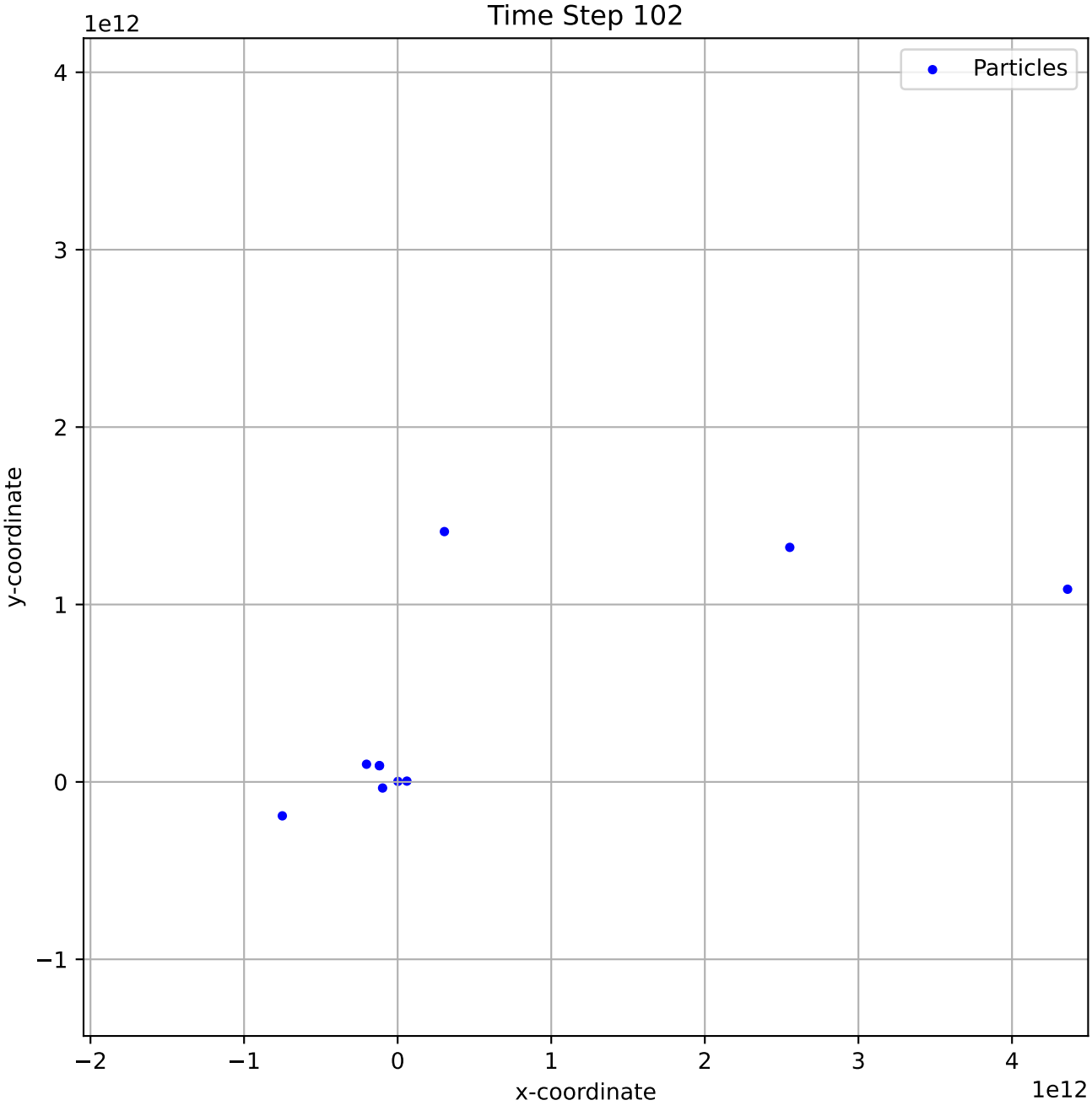

Time Step 97
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

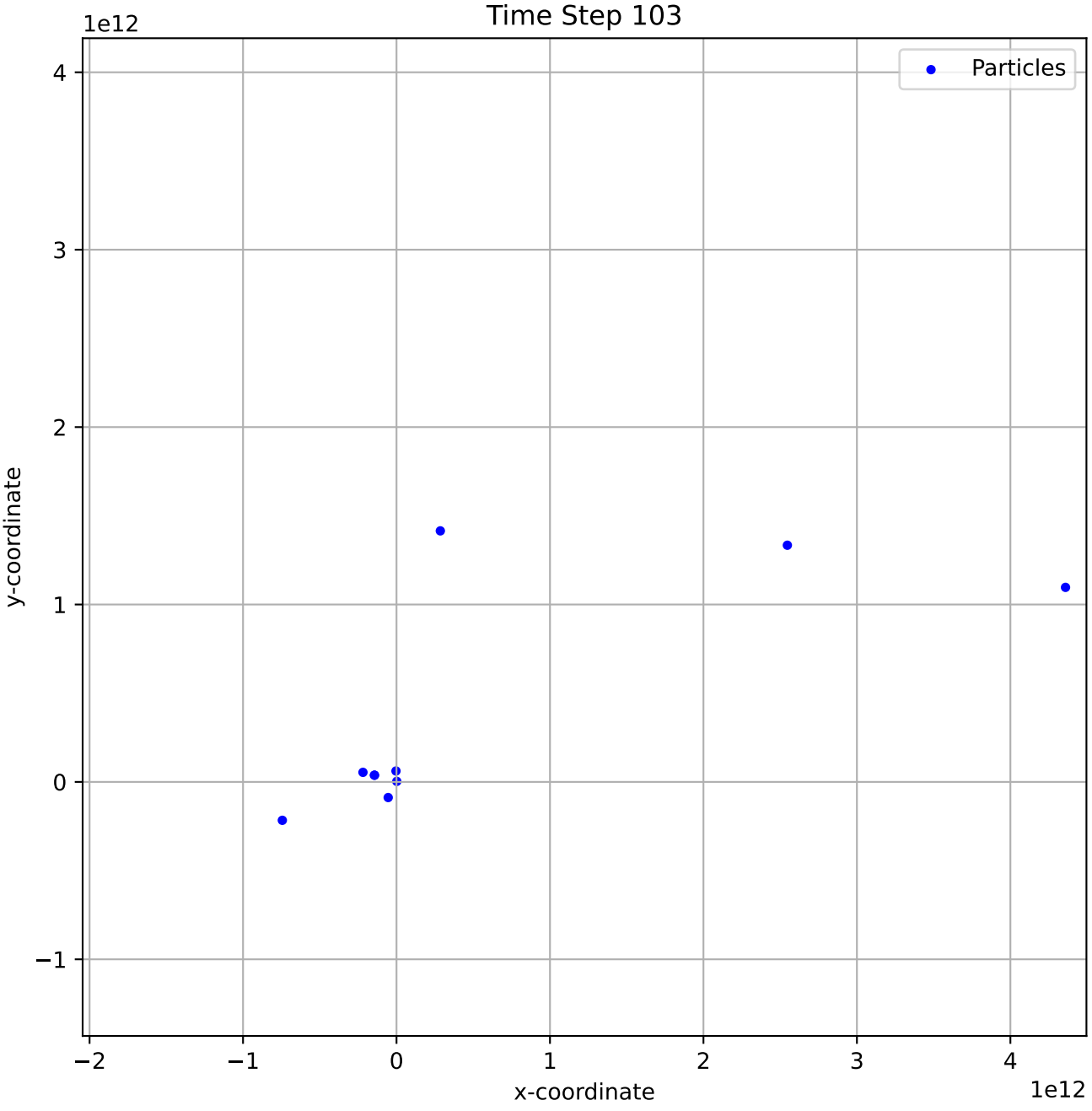

Time Step 98
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

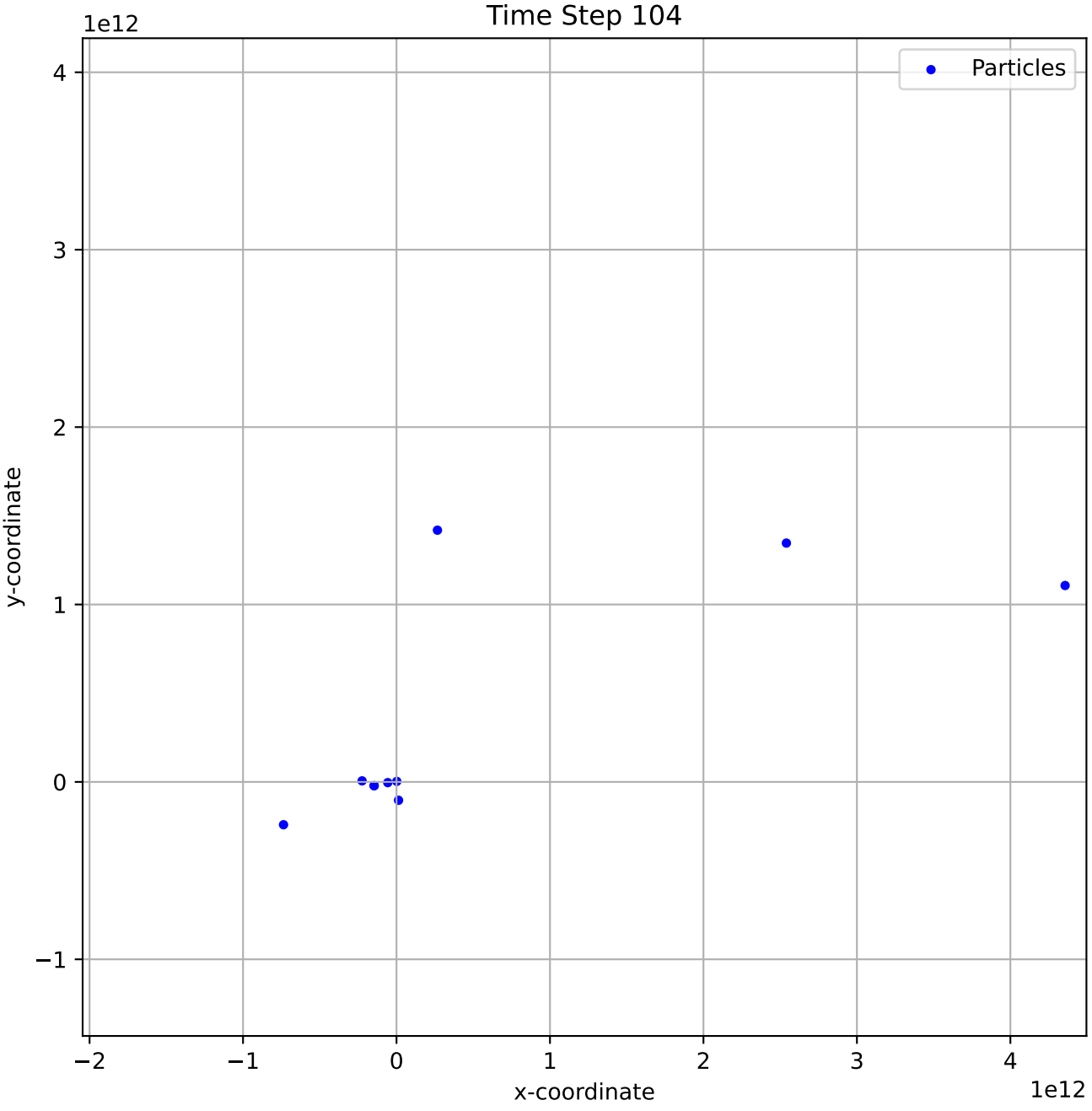

Time Step 99
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

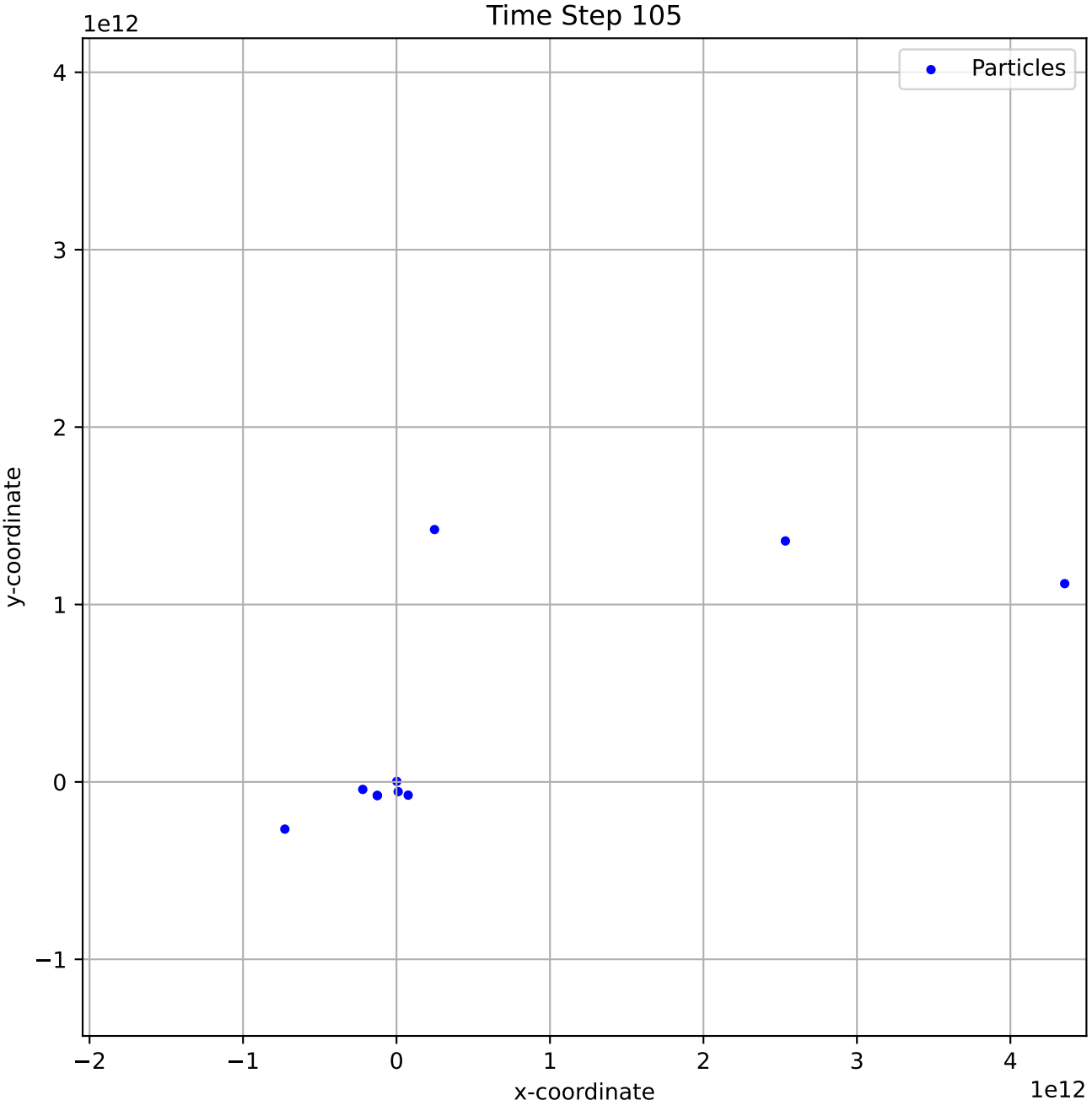

Time Step 100
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

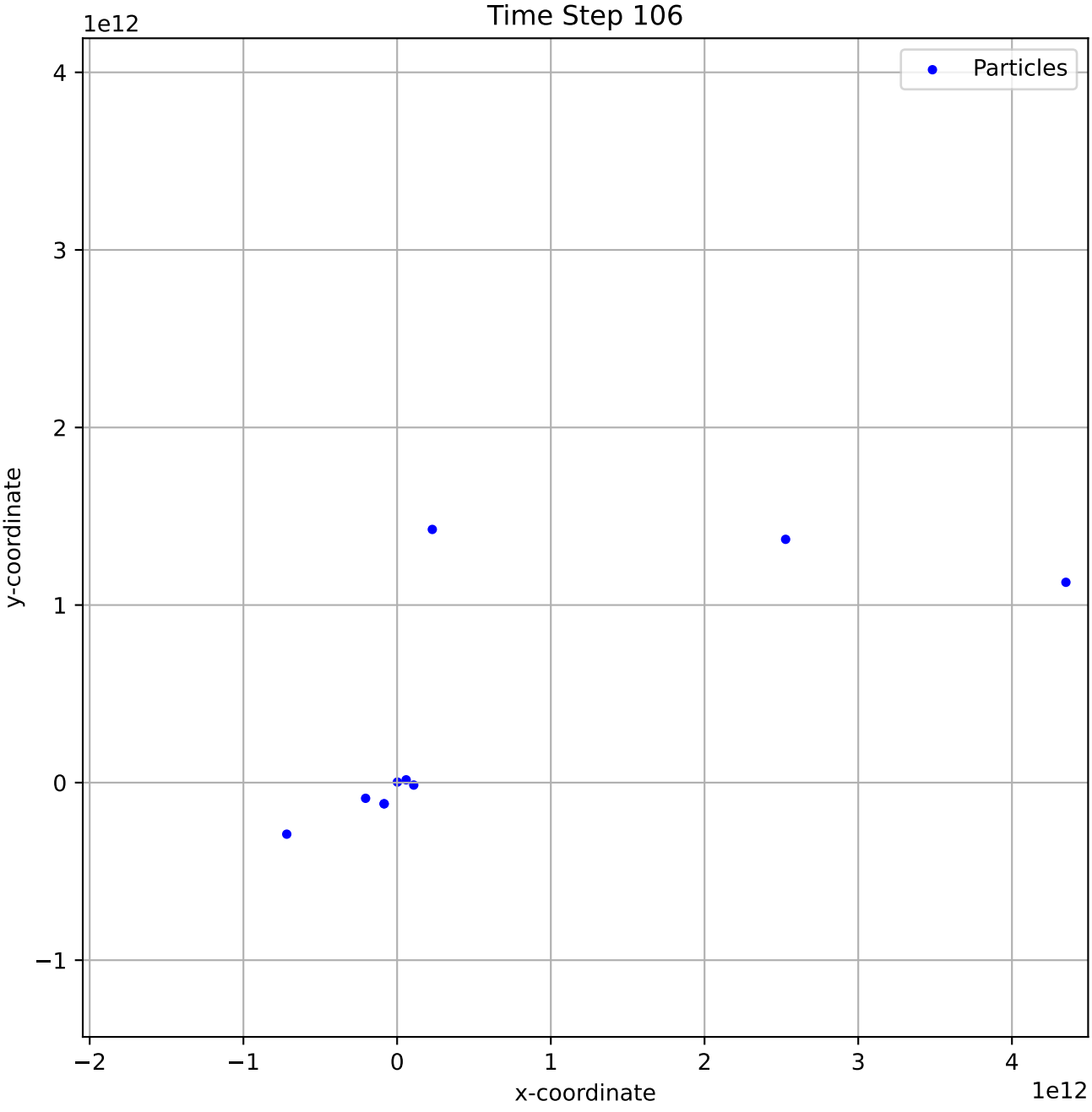

Time Step 101
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

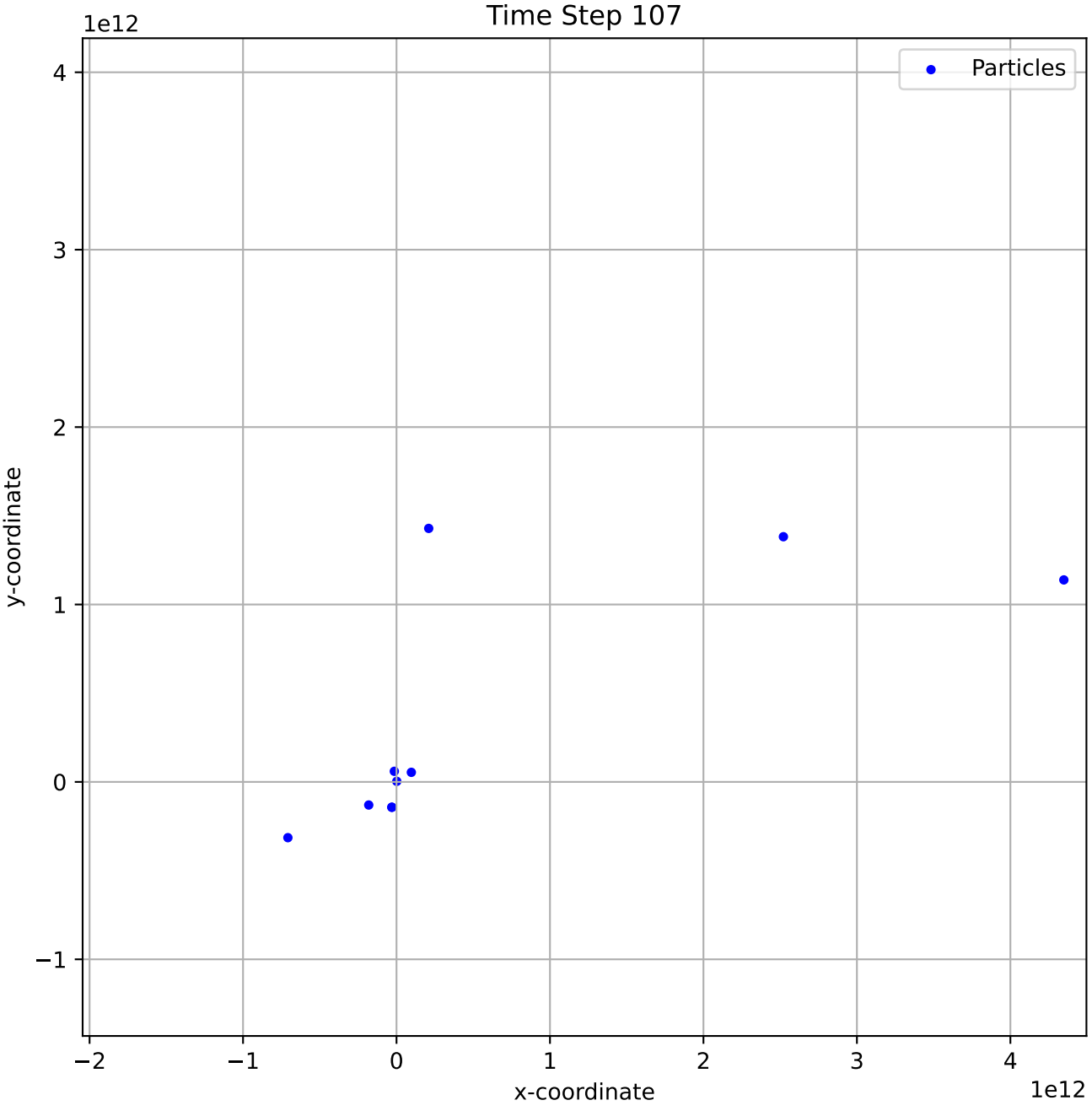

Time Step 102
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

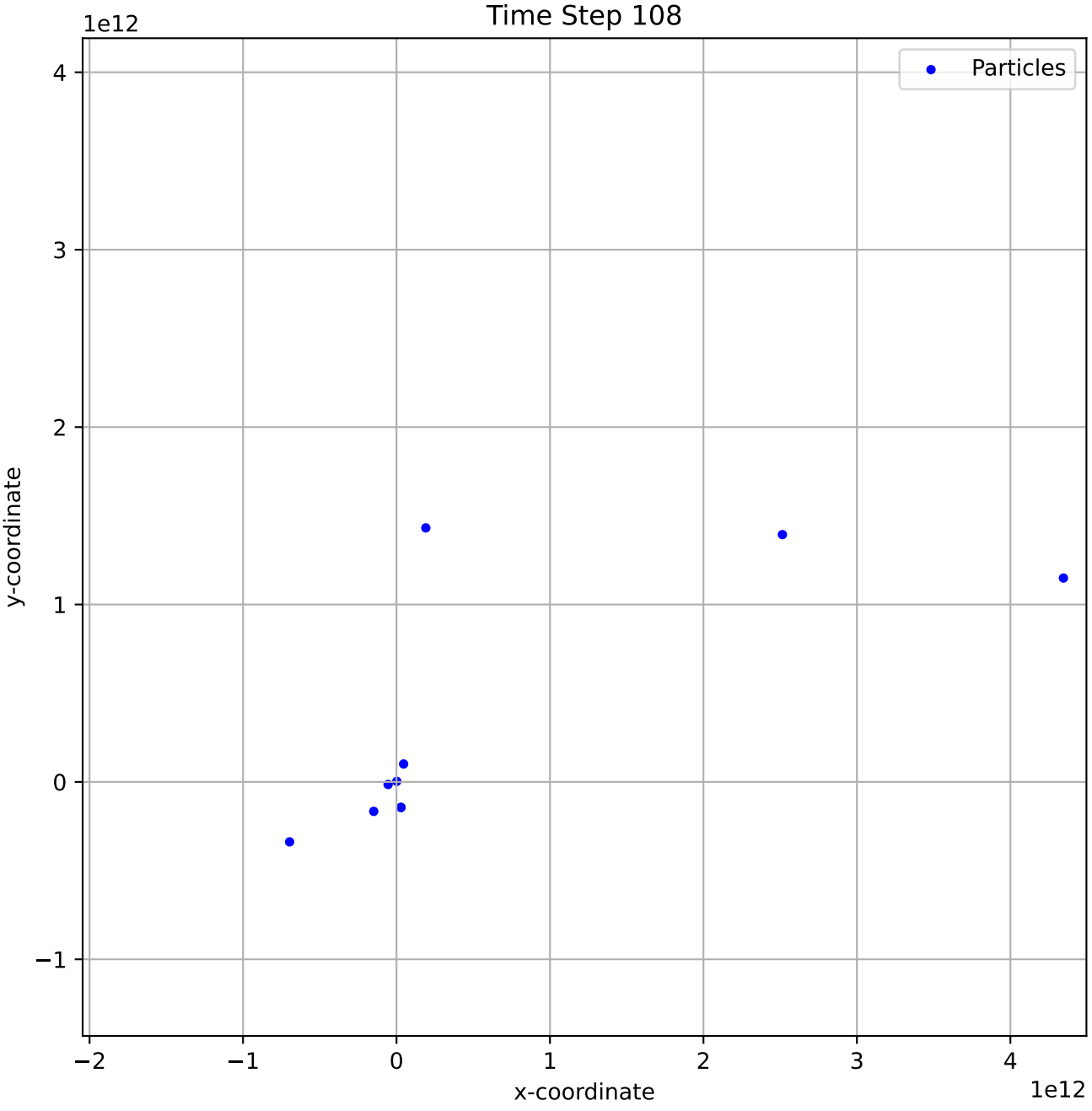

Time Step 103
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

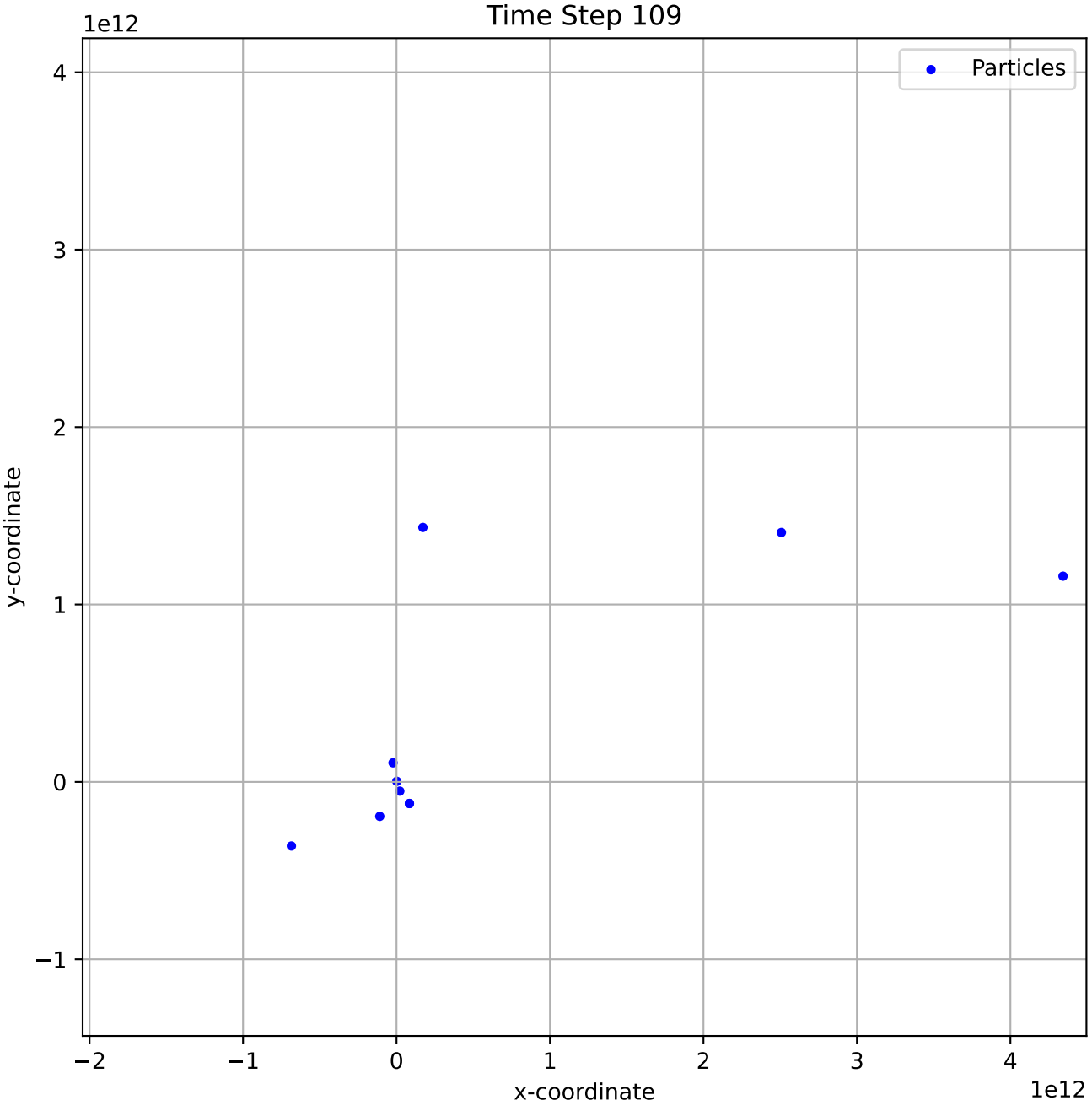

Time Step 104
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

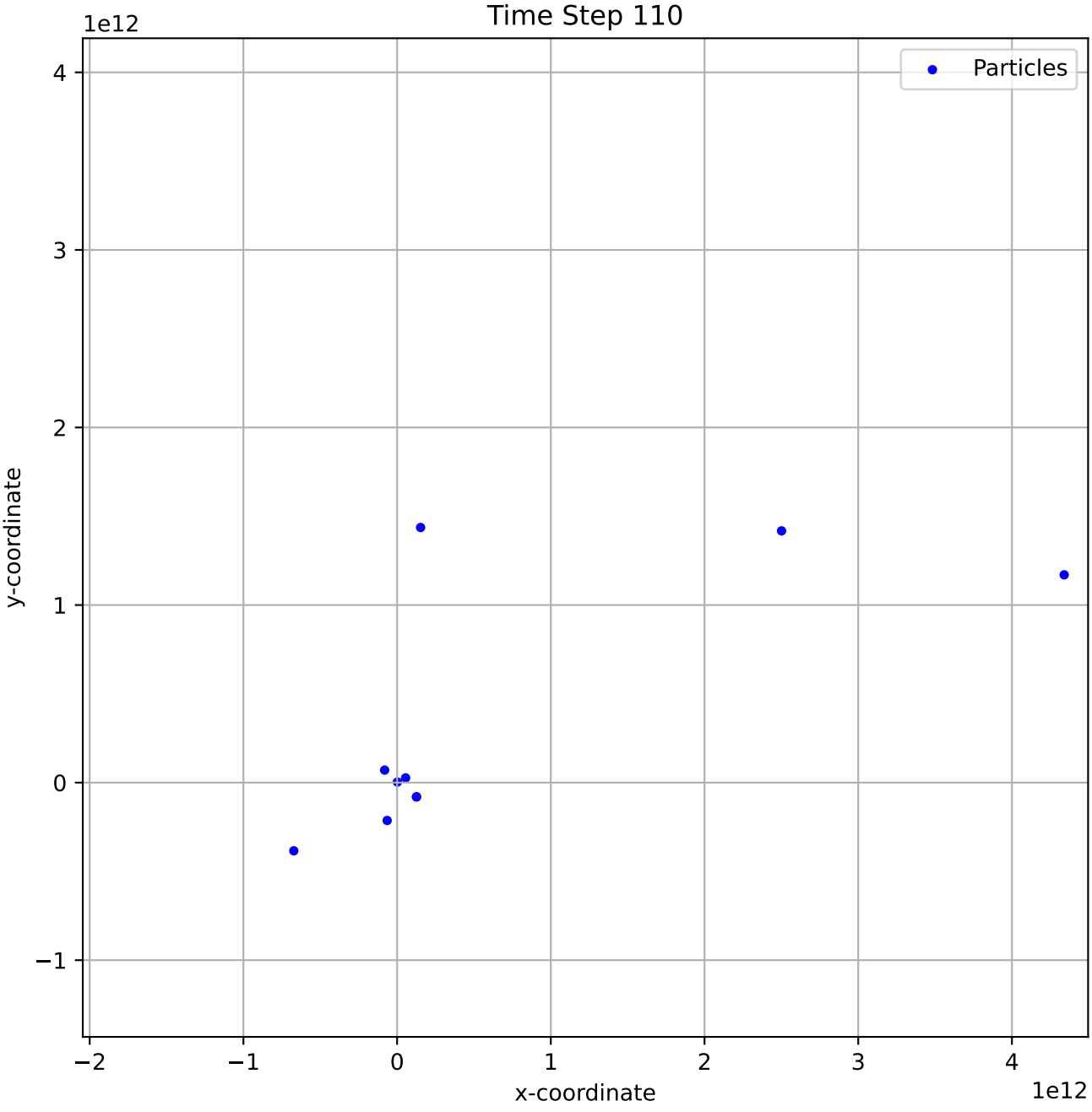

Time Step 105
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

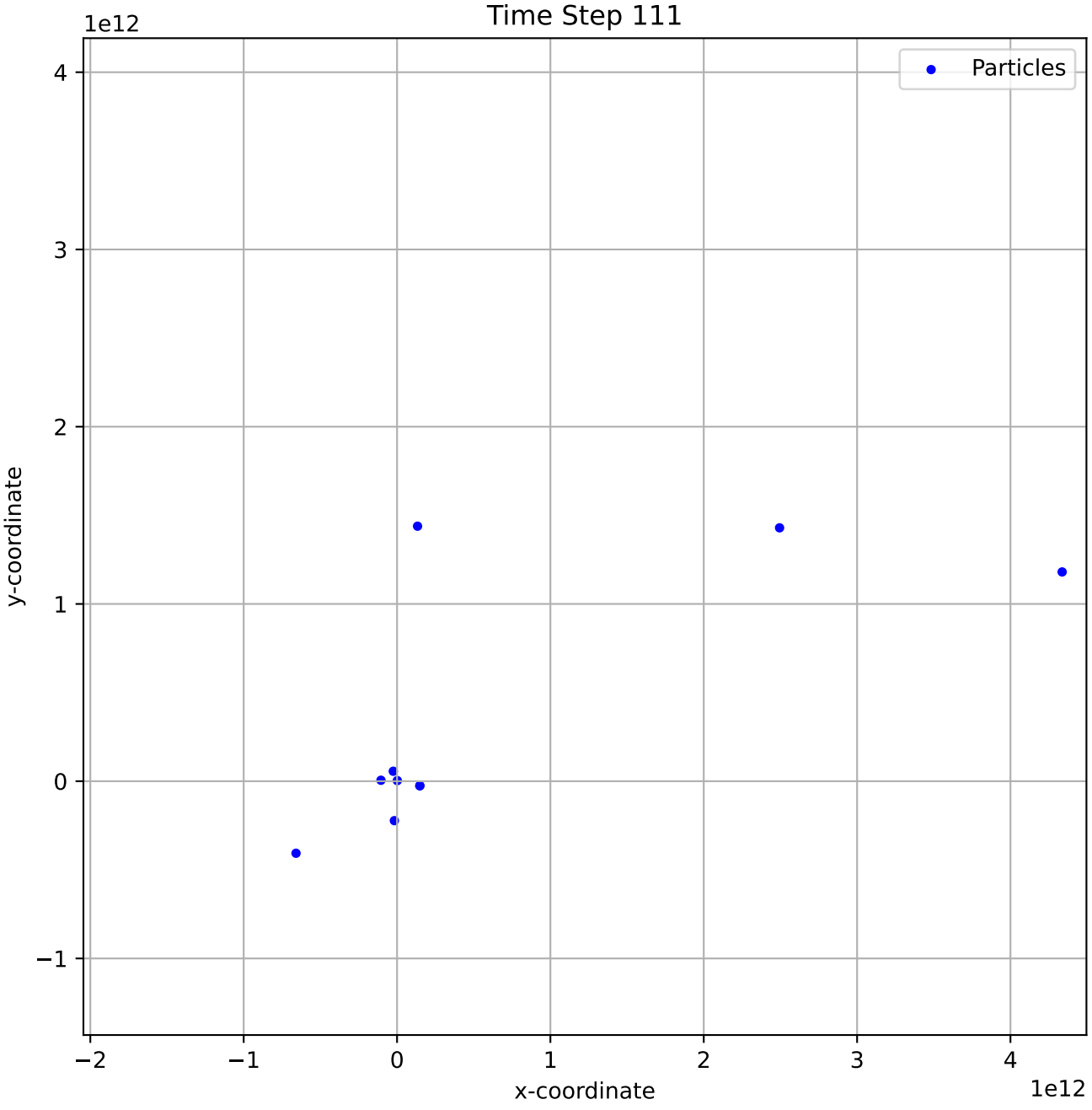

Time Step 106
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

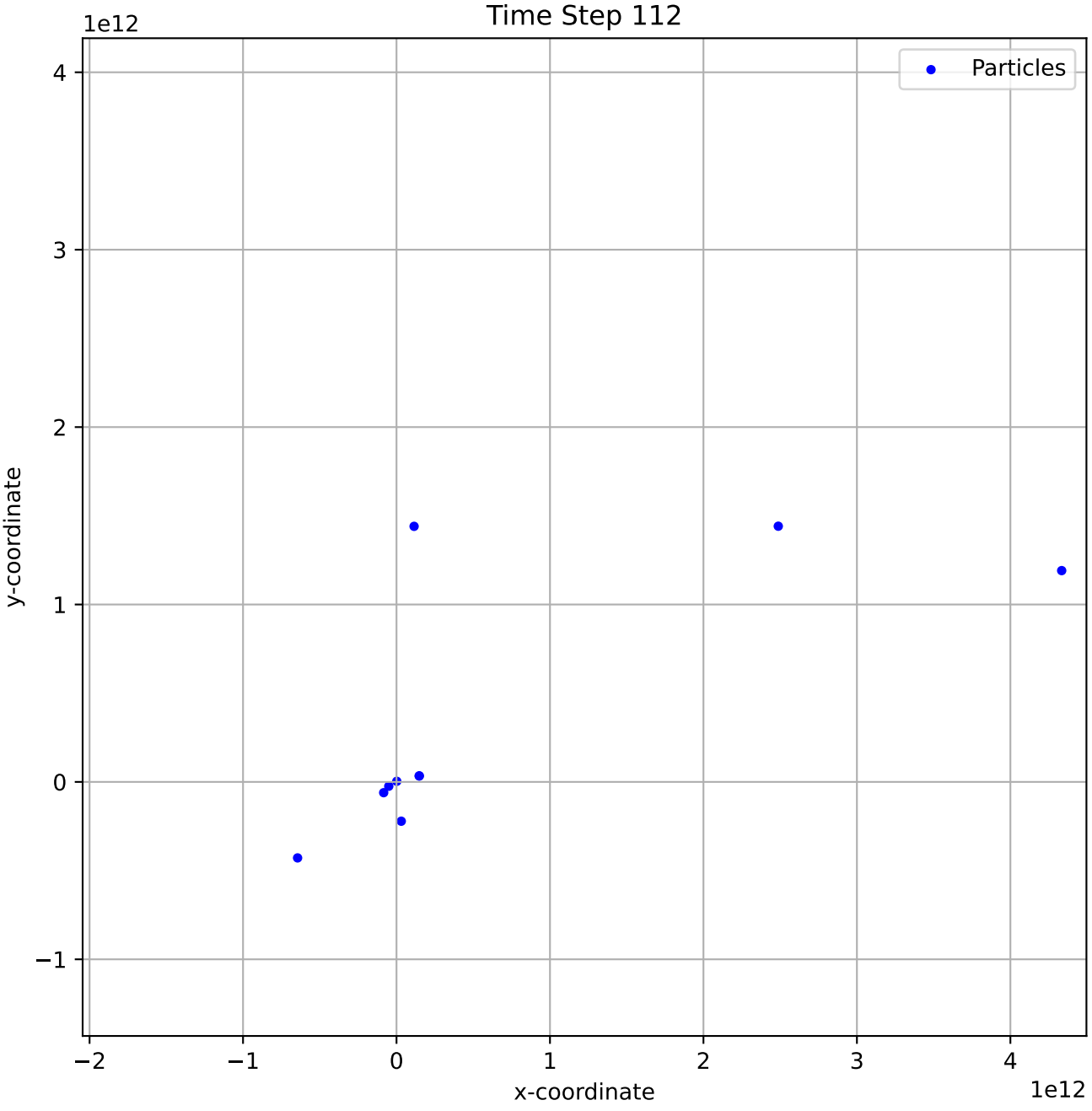

Time Step 107
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

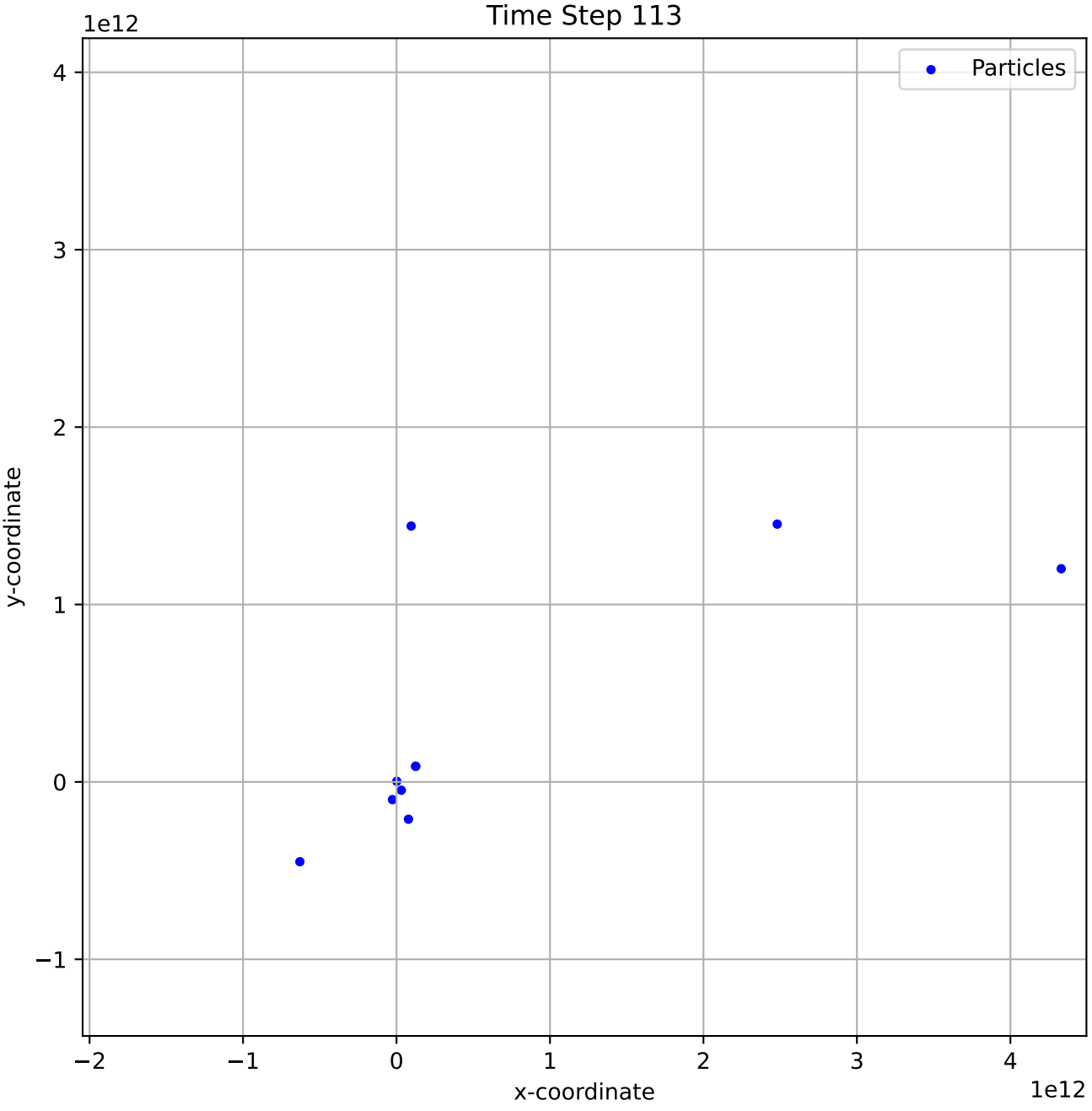

Time Step 108
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

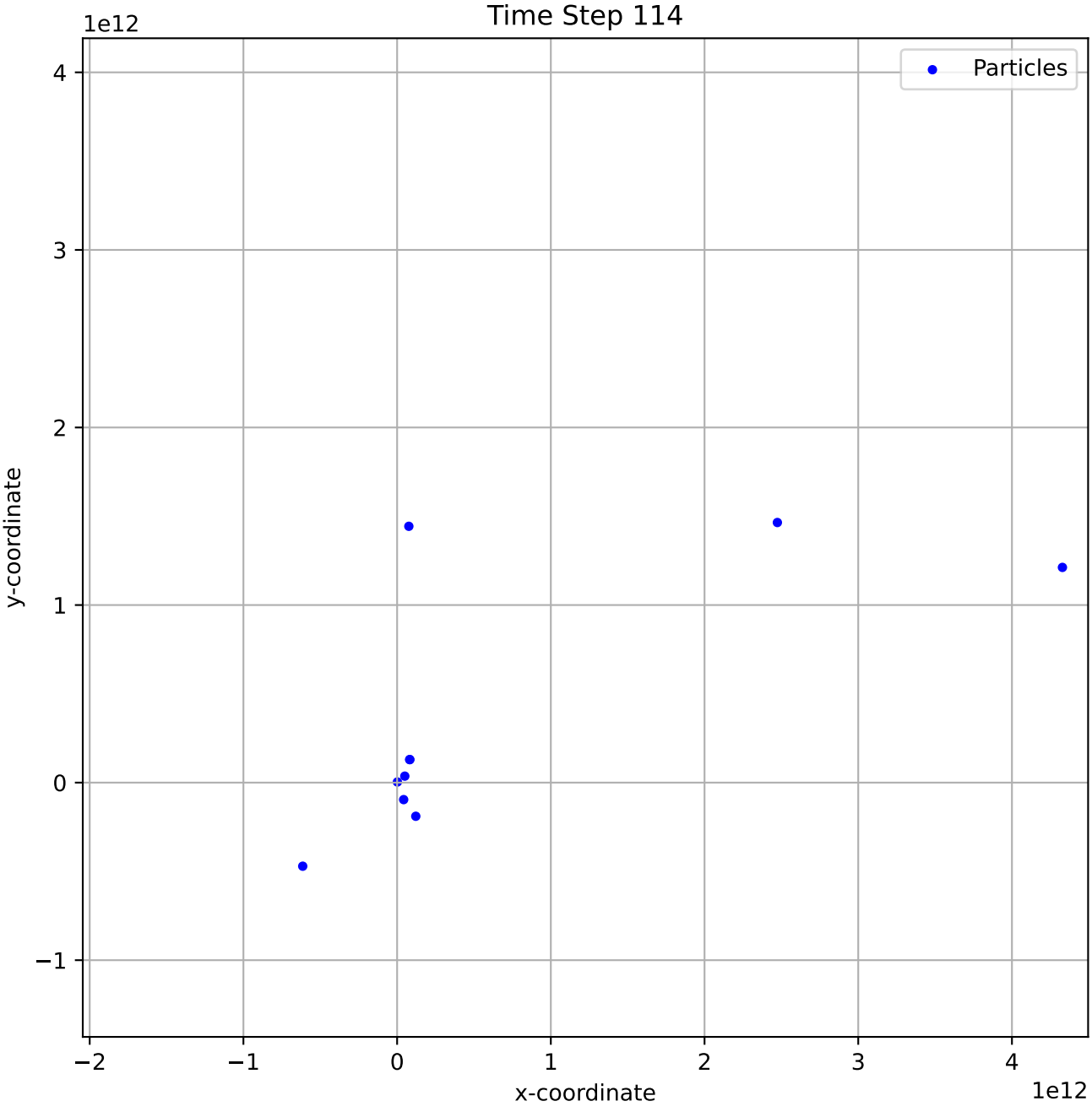

Time Step 109
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

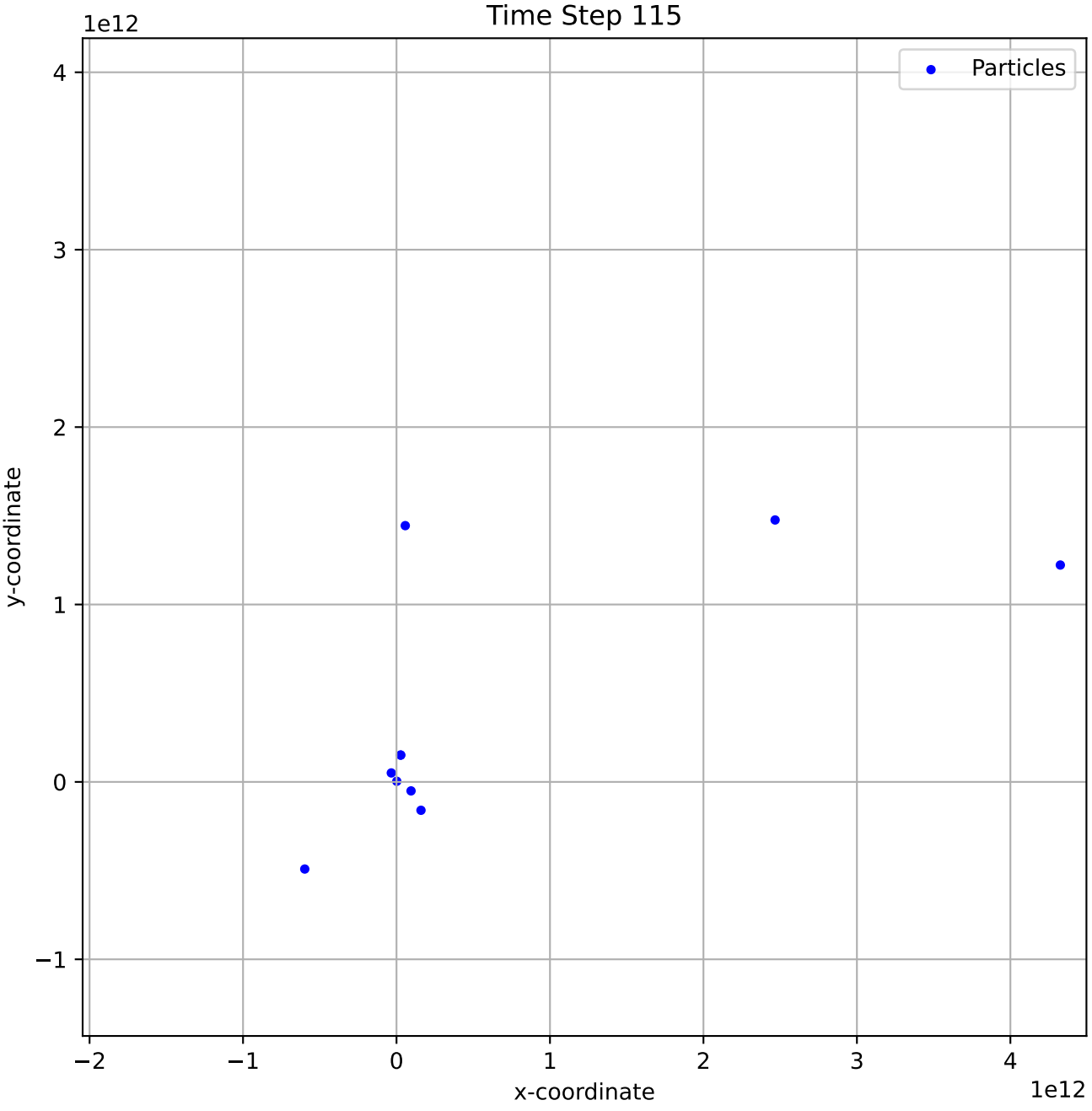

Time Step 110
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

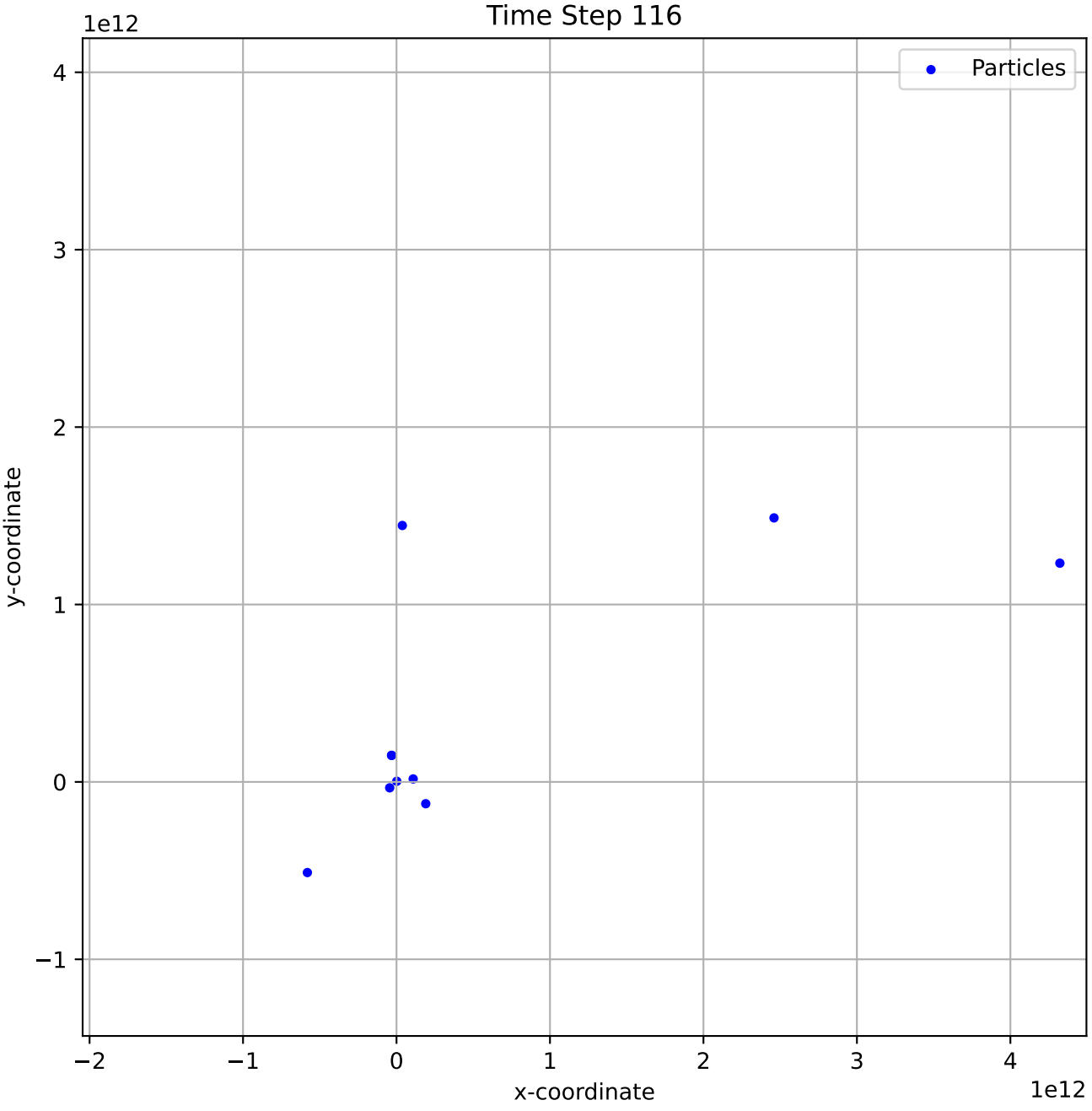

Time Step 111
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

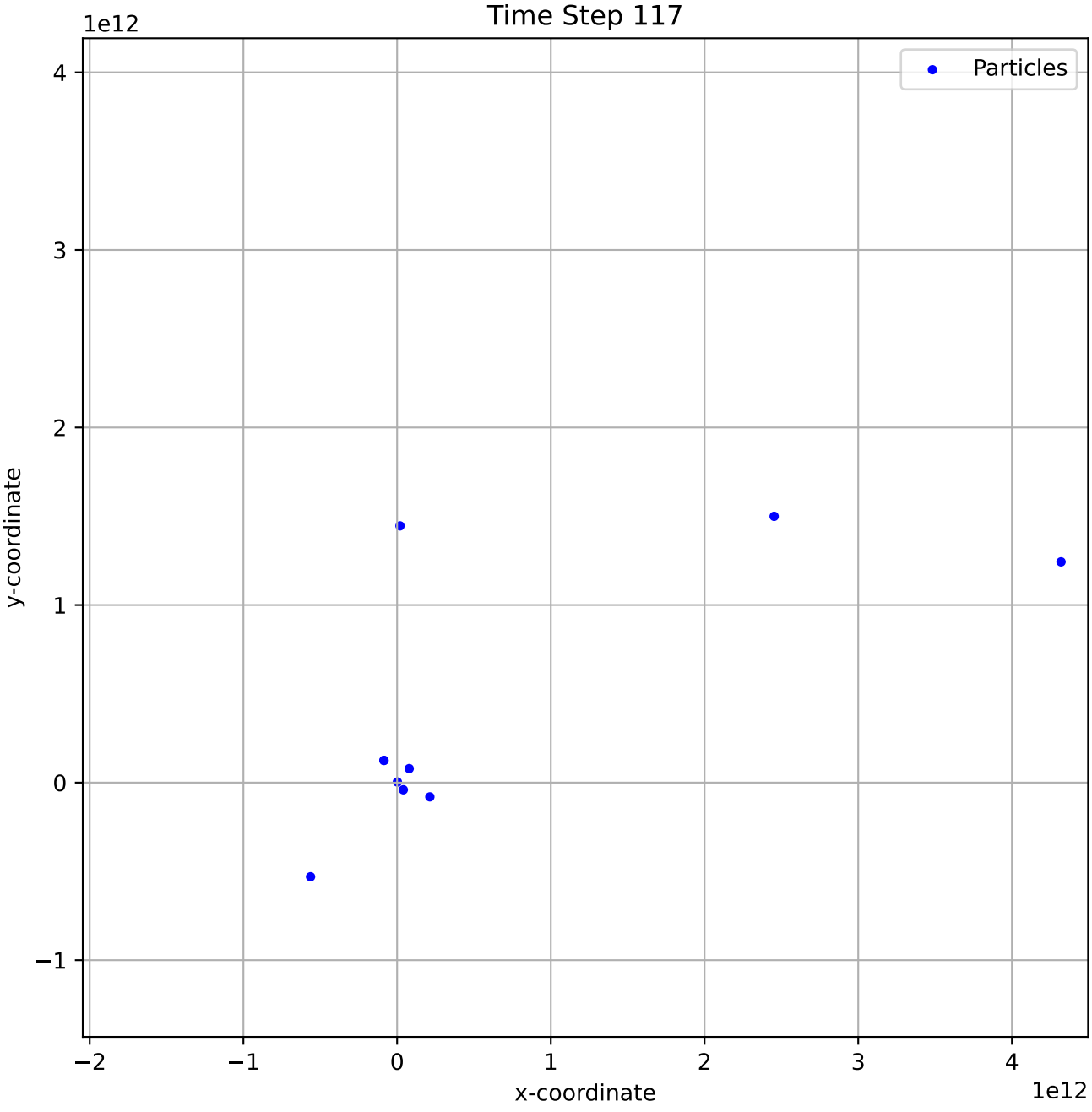

Time Step 112
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

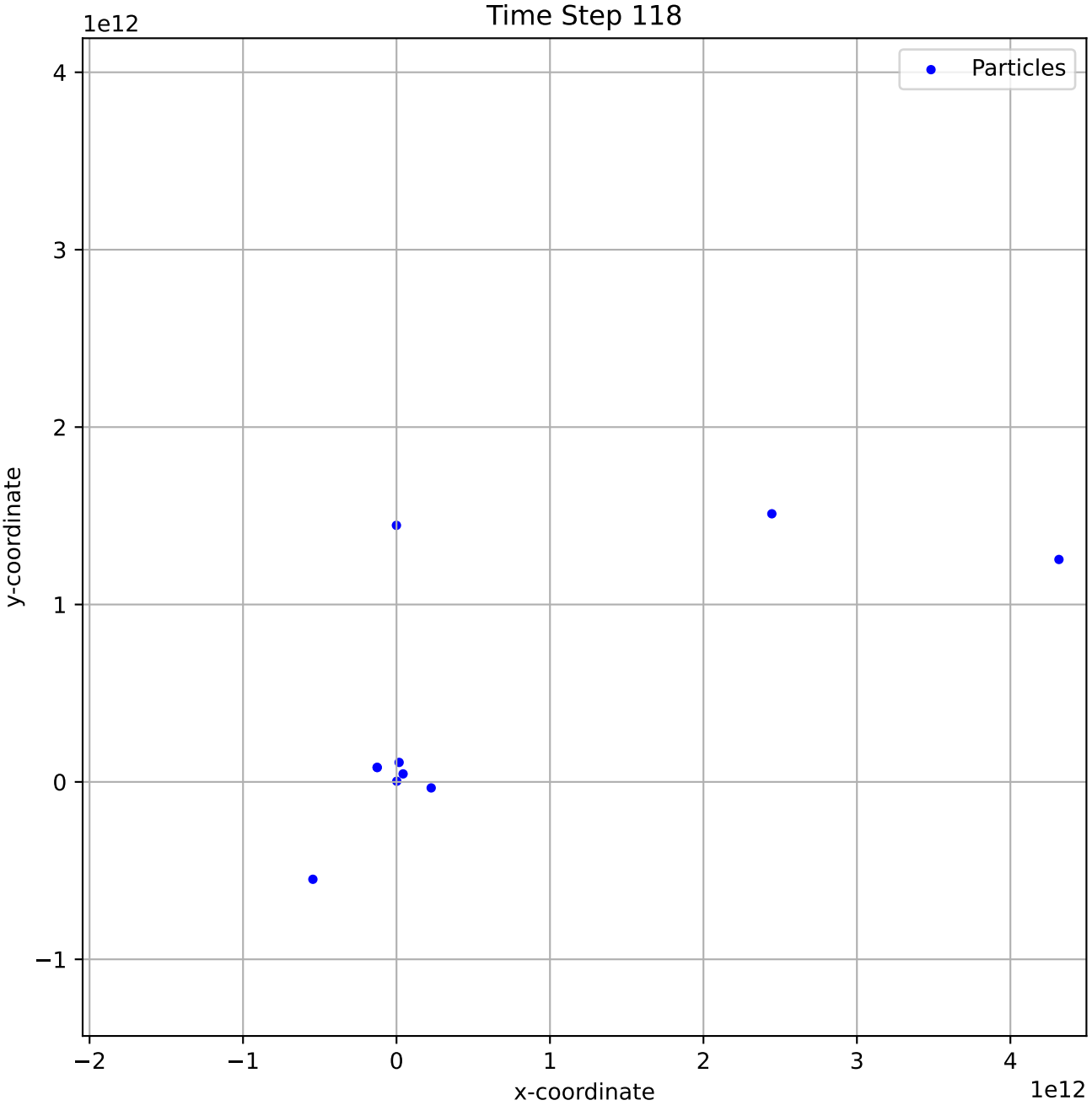

Time Step 113
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

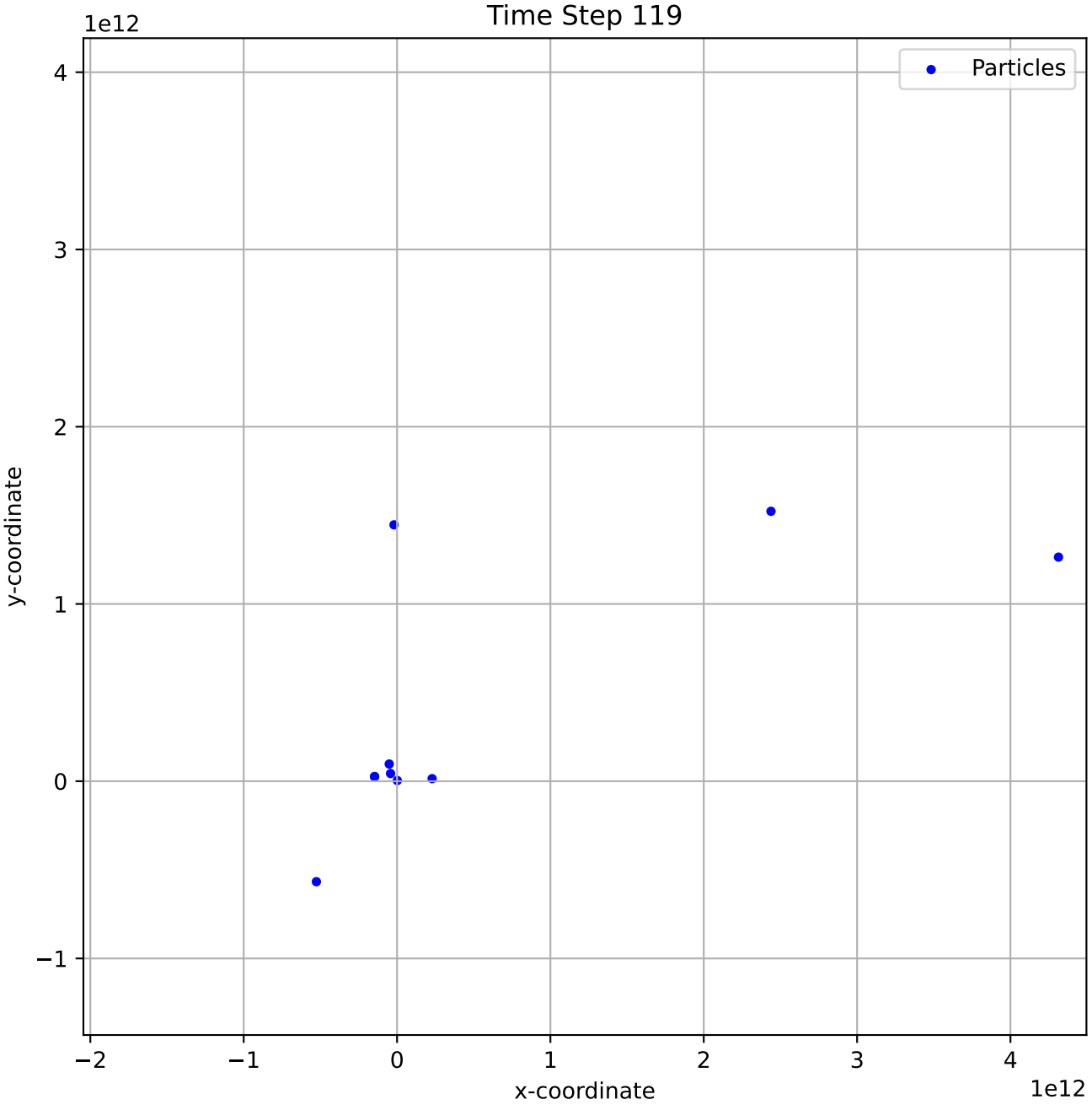

Time Step 114
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

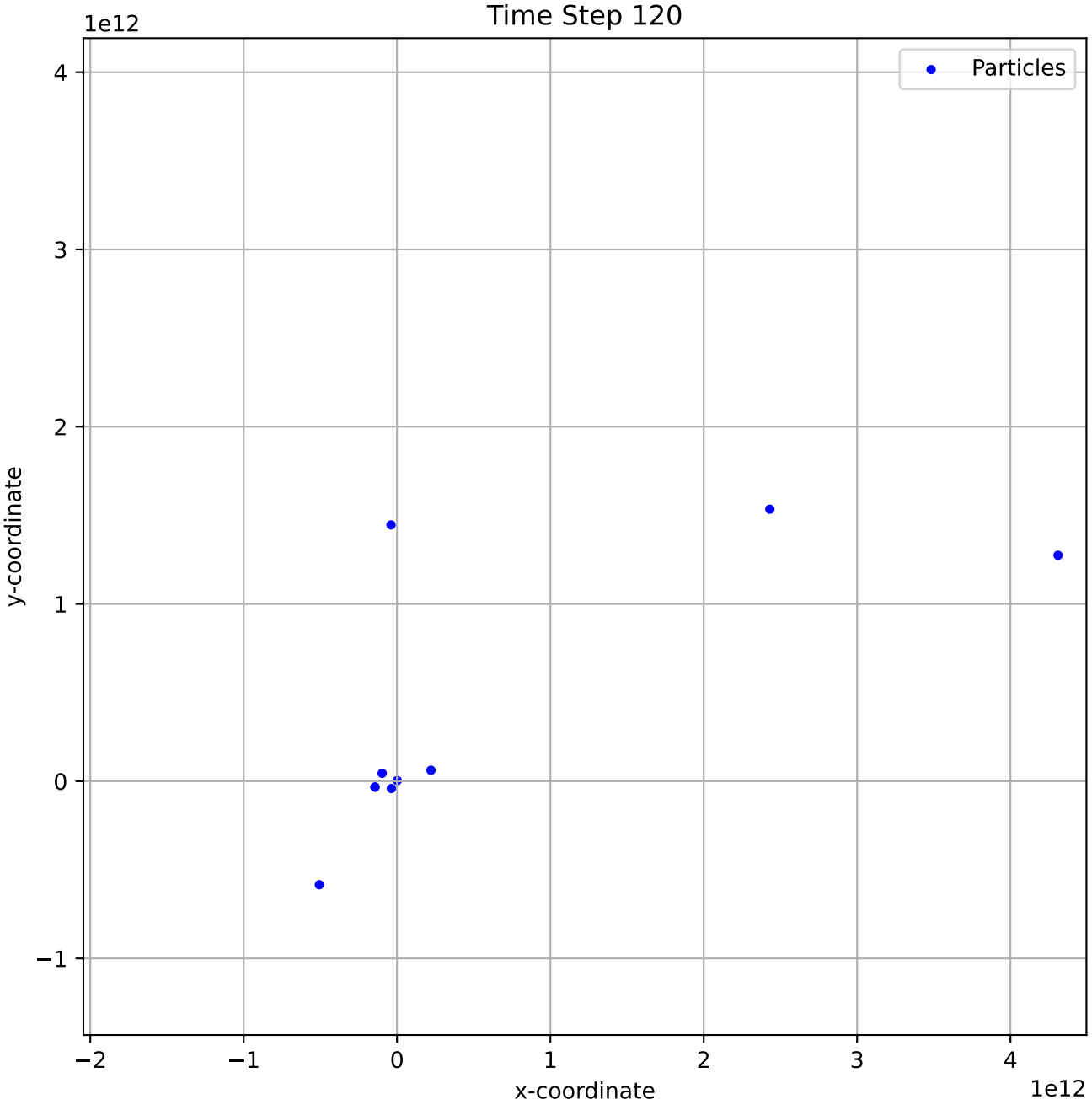

Time Step 115
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

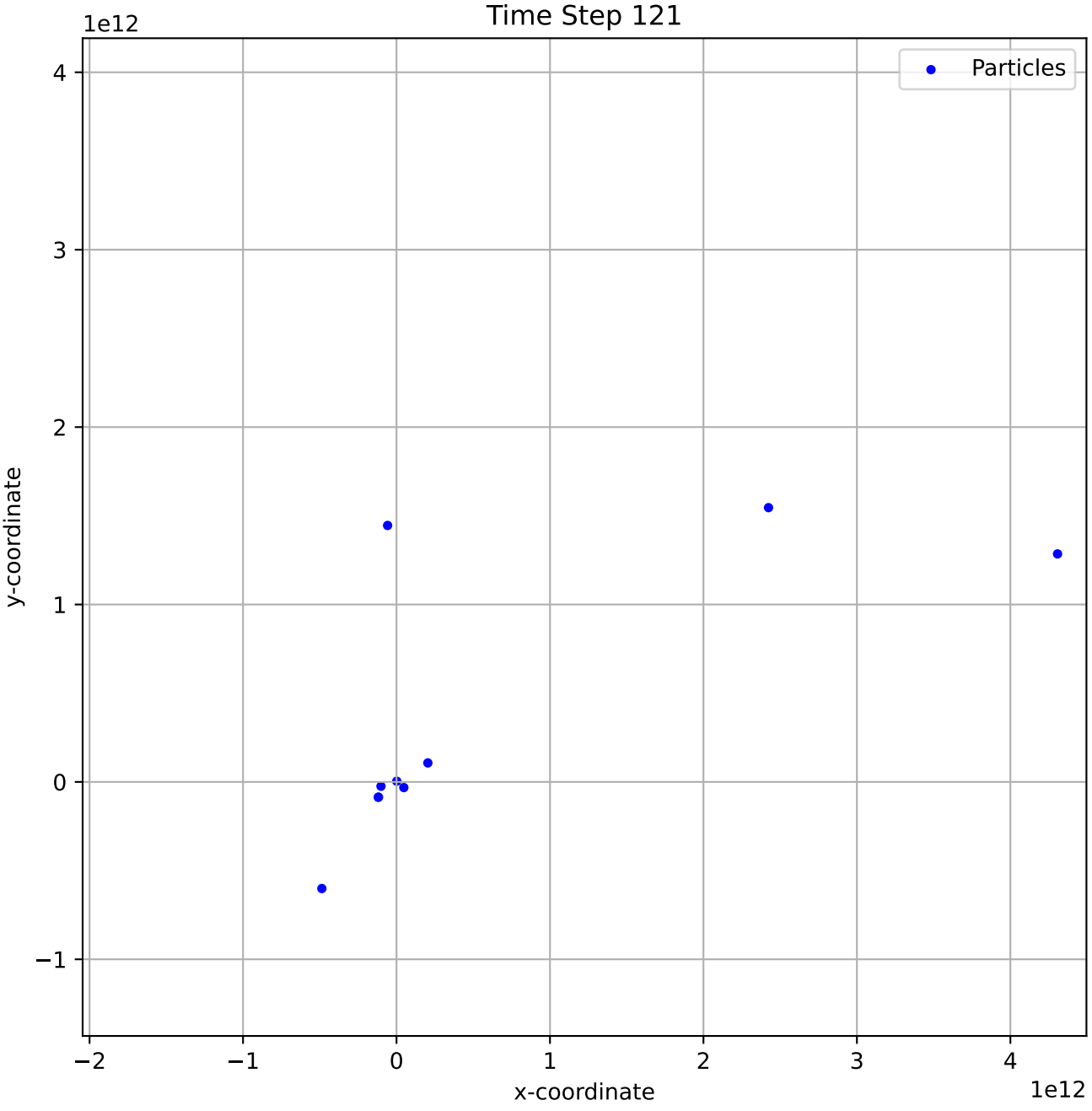

Time Step 116
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

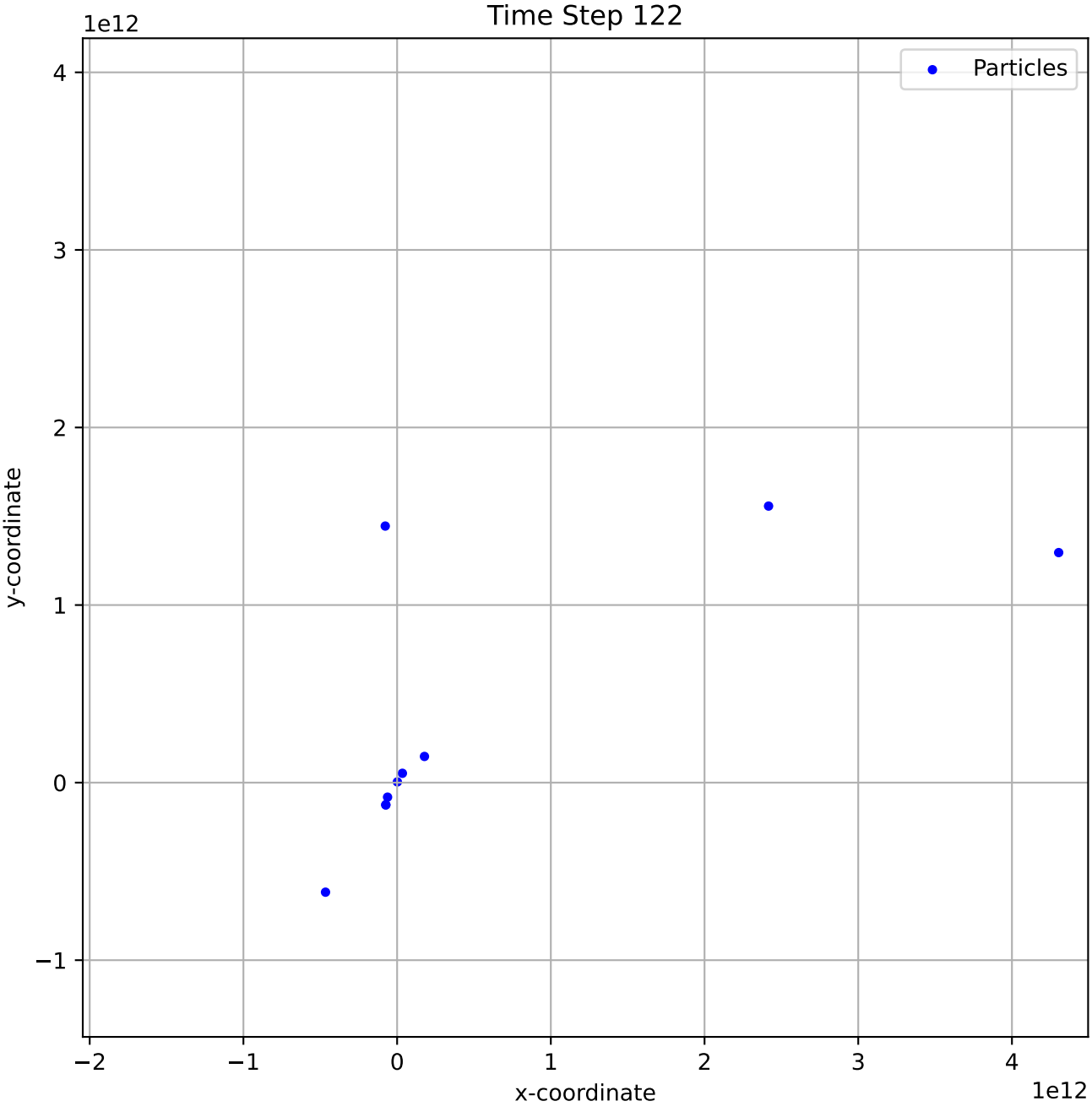

Time Step 117
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

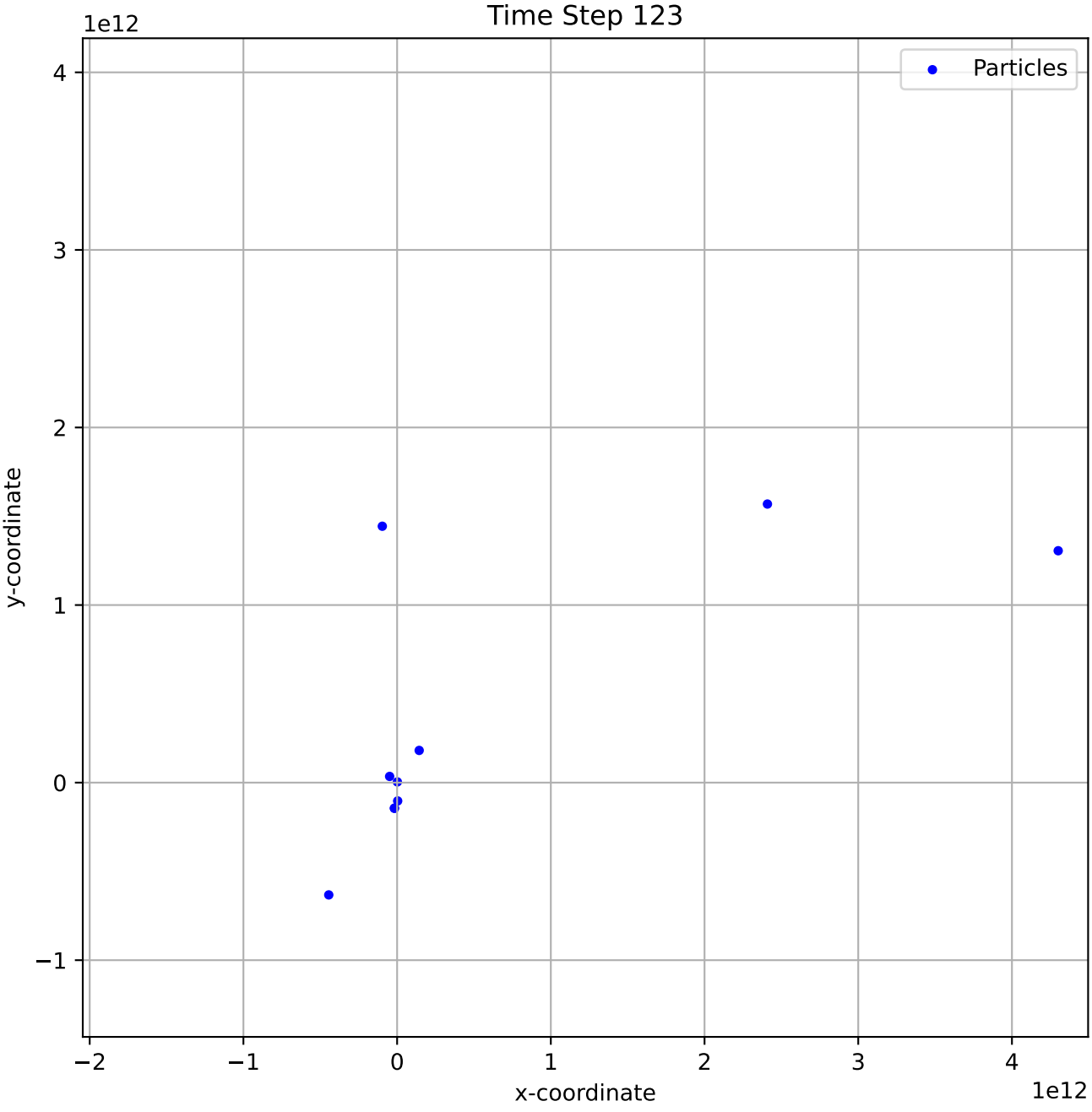

Time Step 118
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

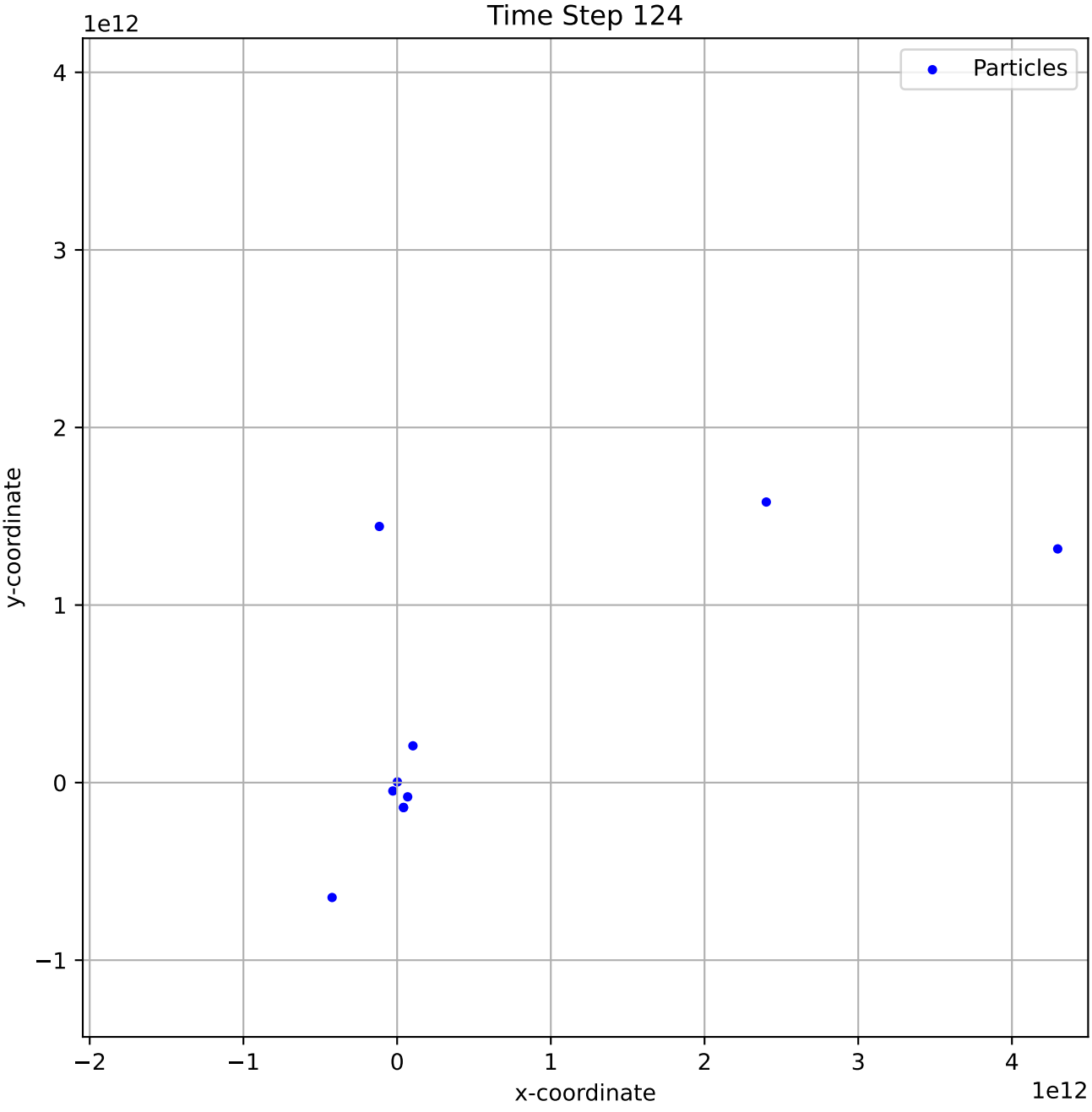

Time Step 119
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

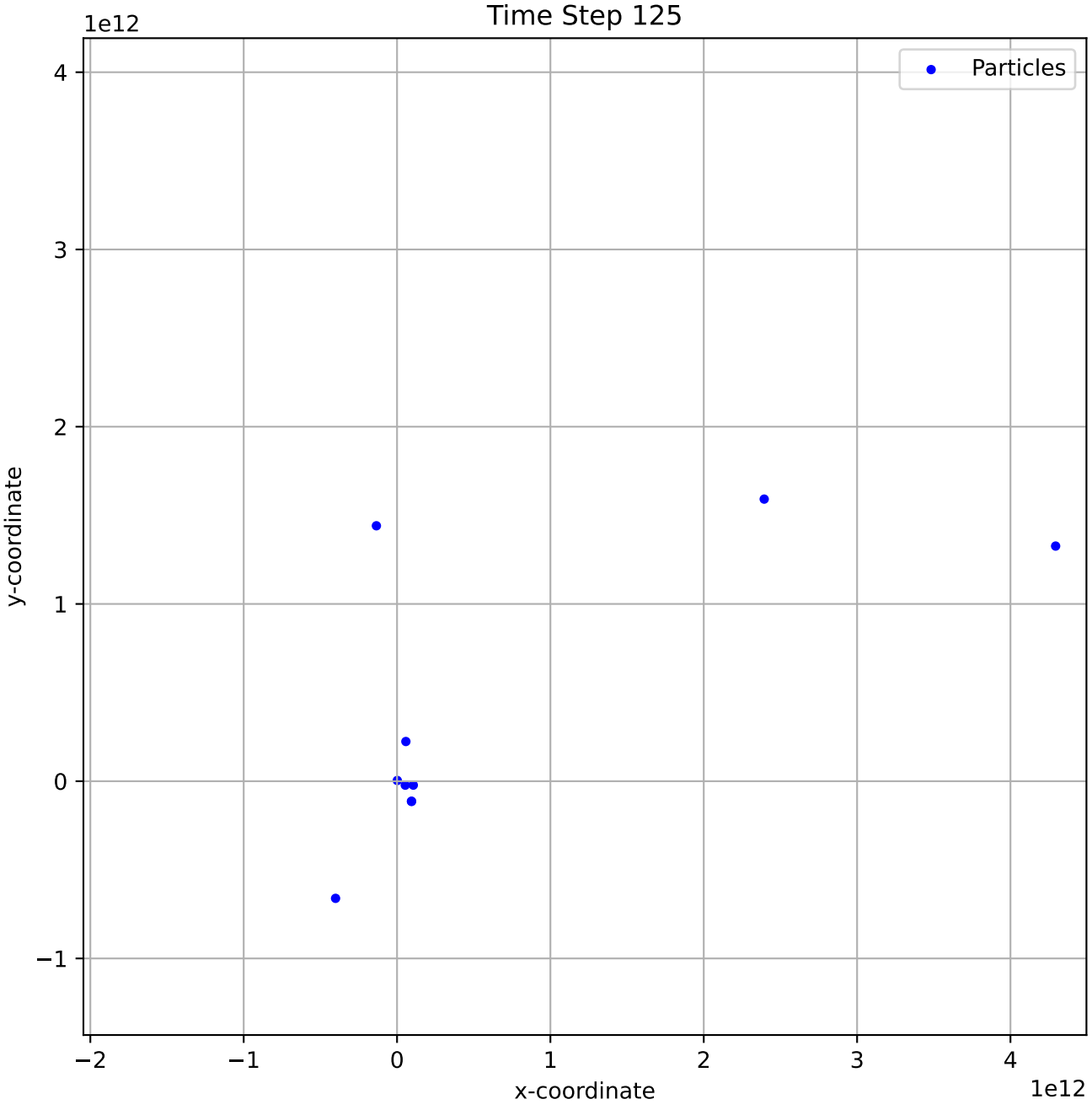

Time Step 120
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

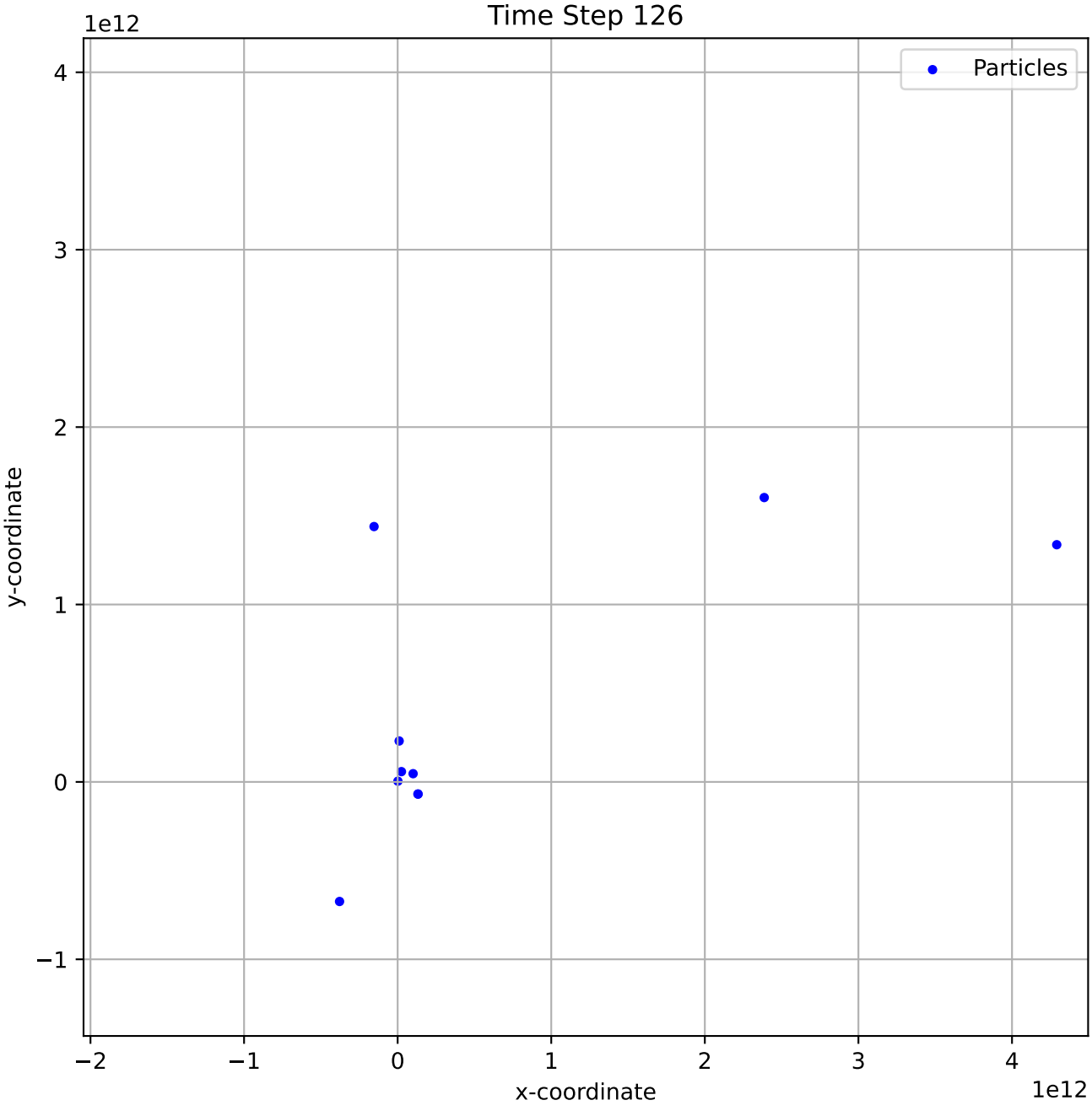

Time Step 121
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

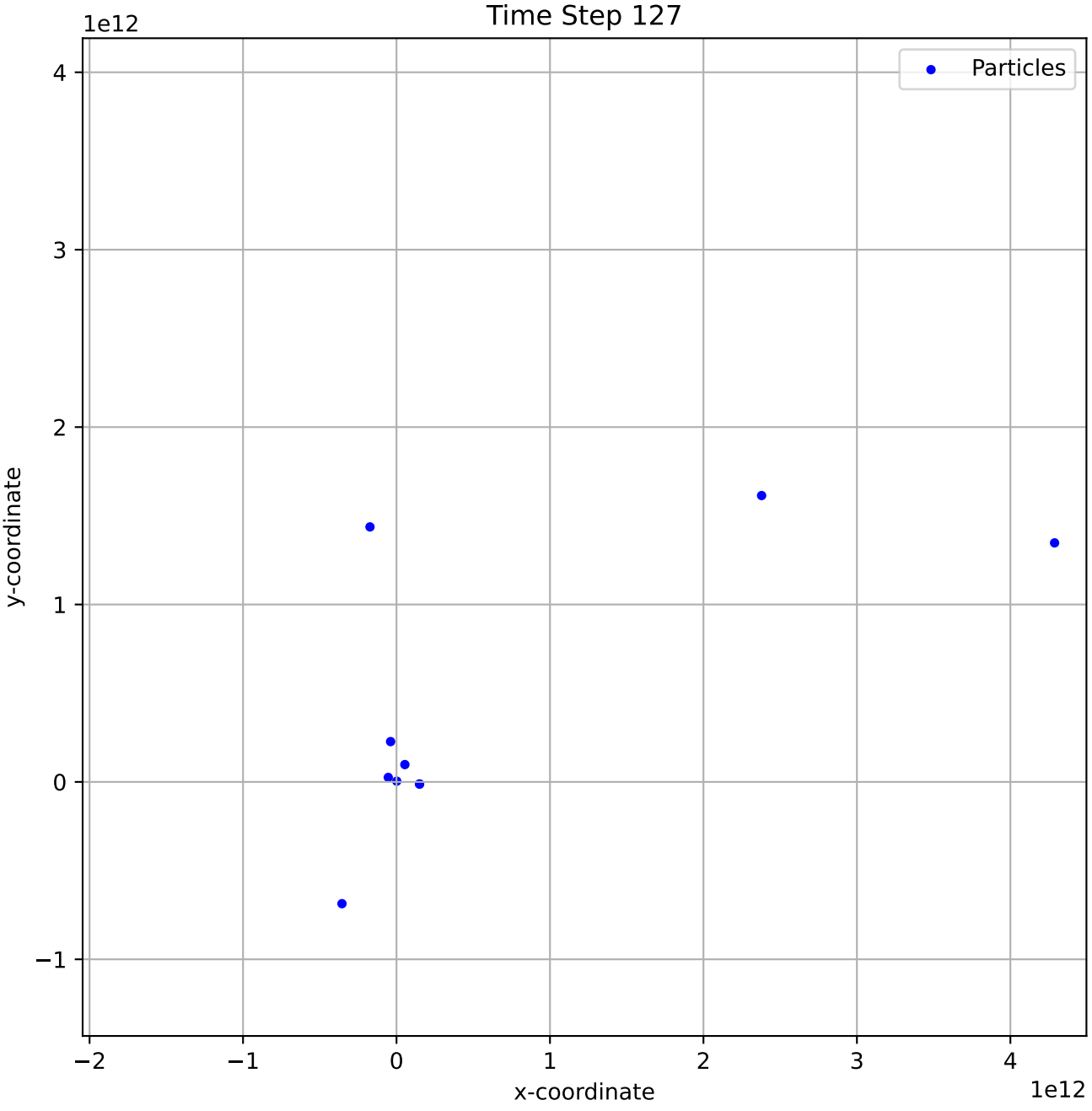

Time Step 122
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

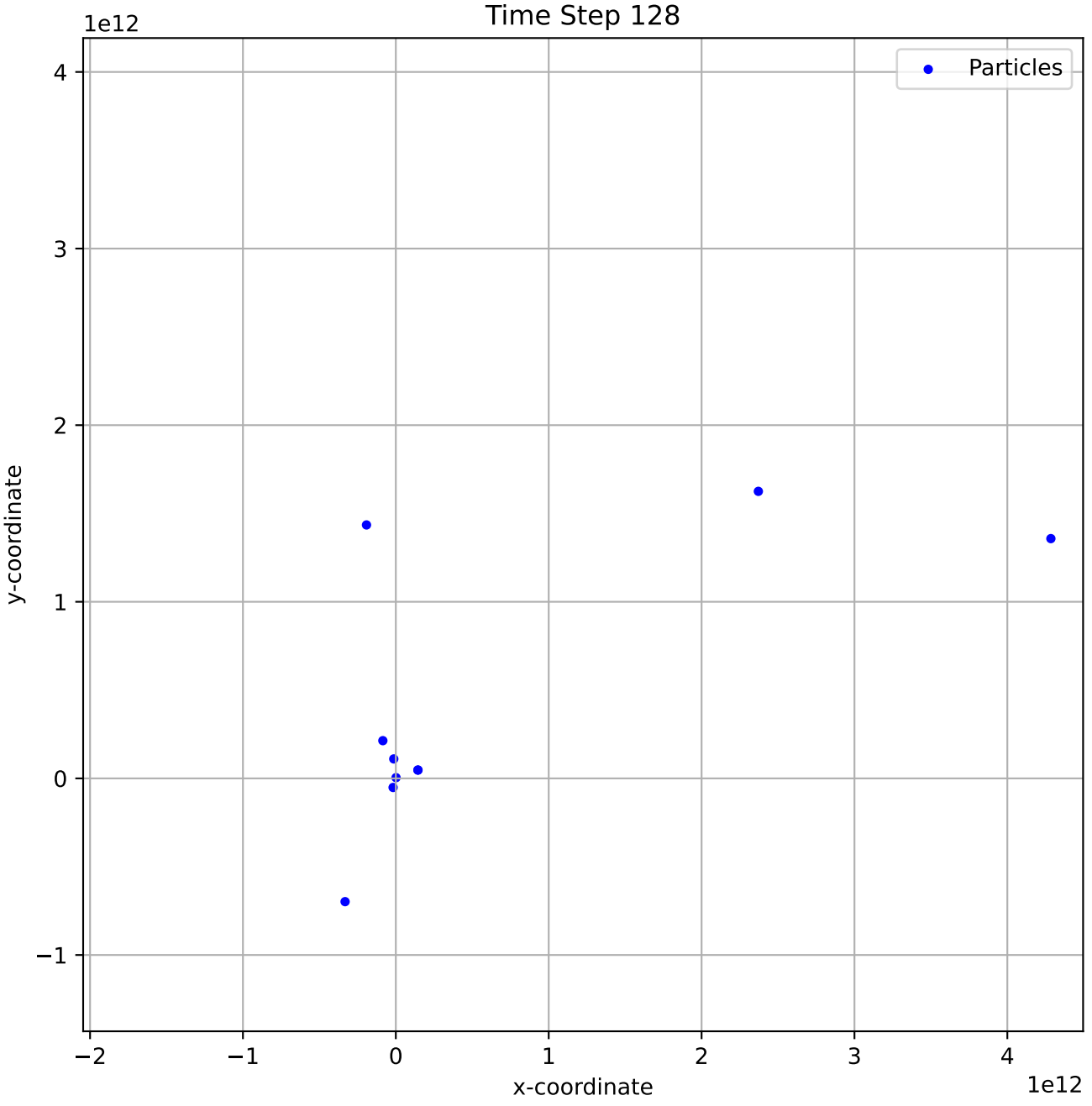

Time Step 123
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

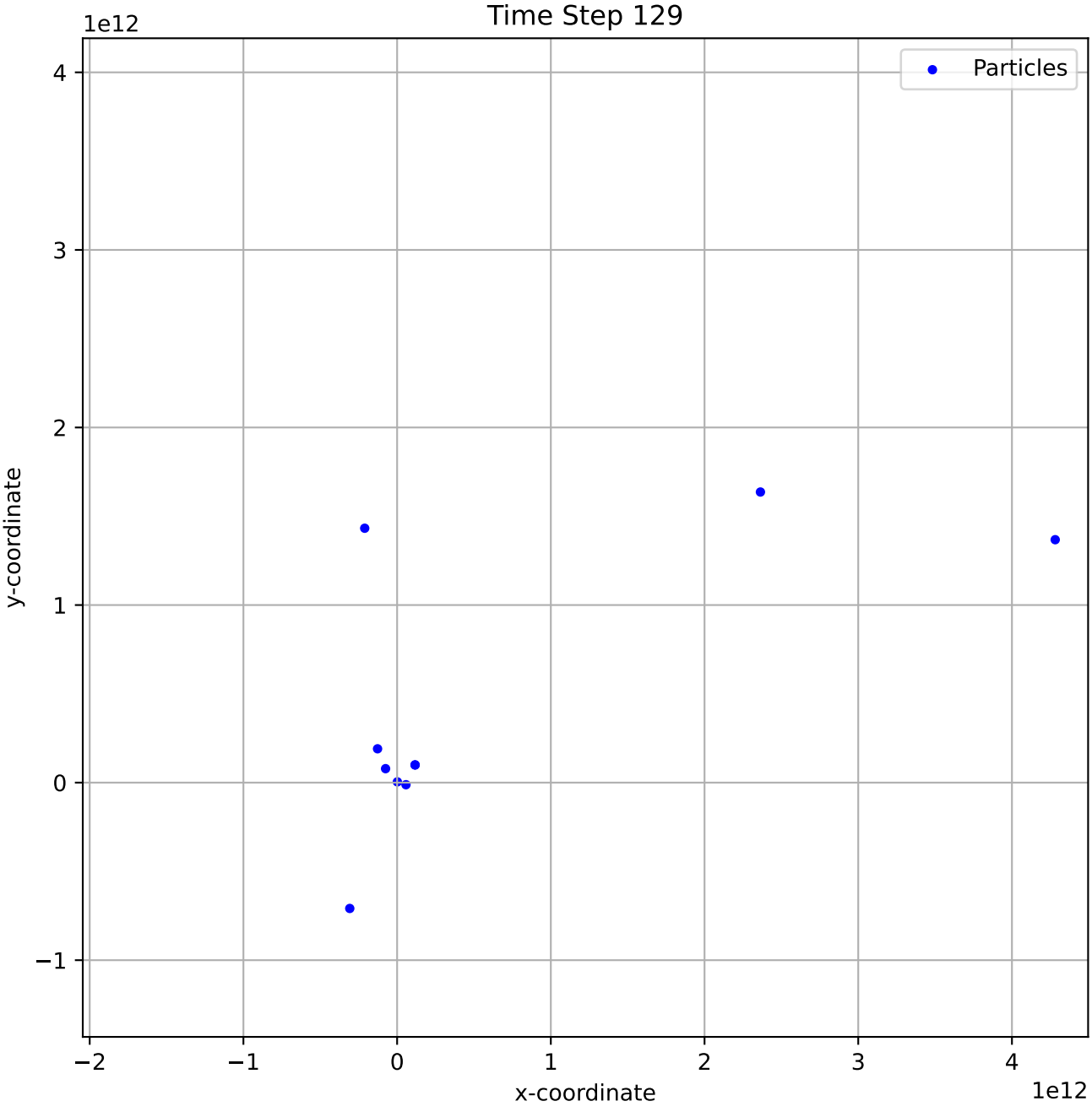

Time Step 124
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

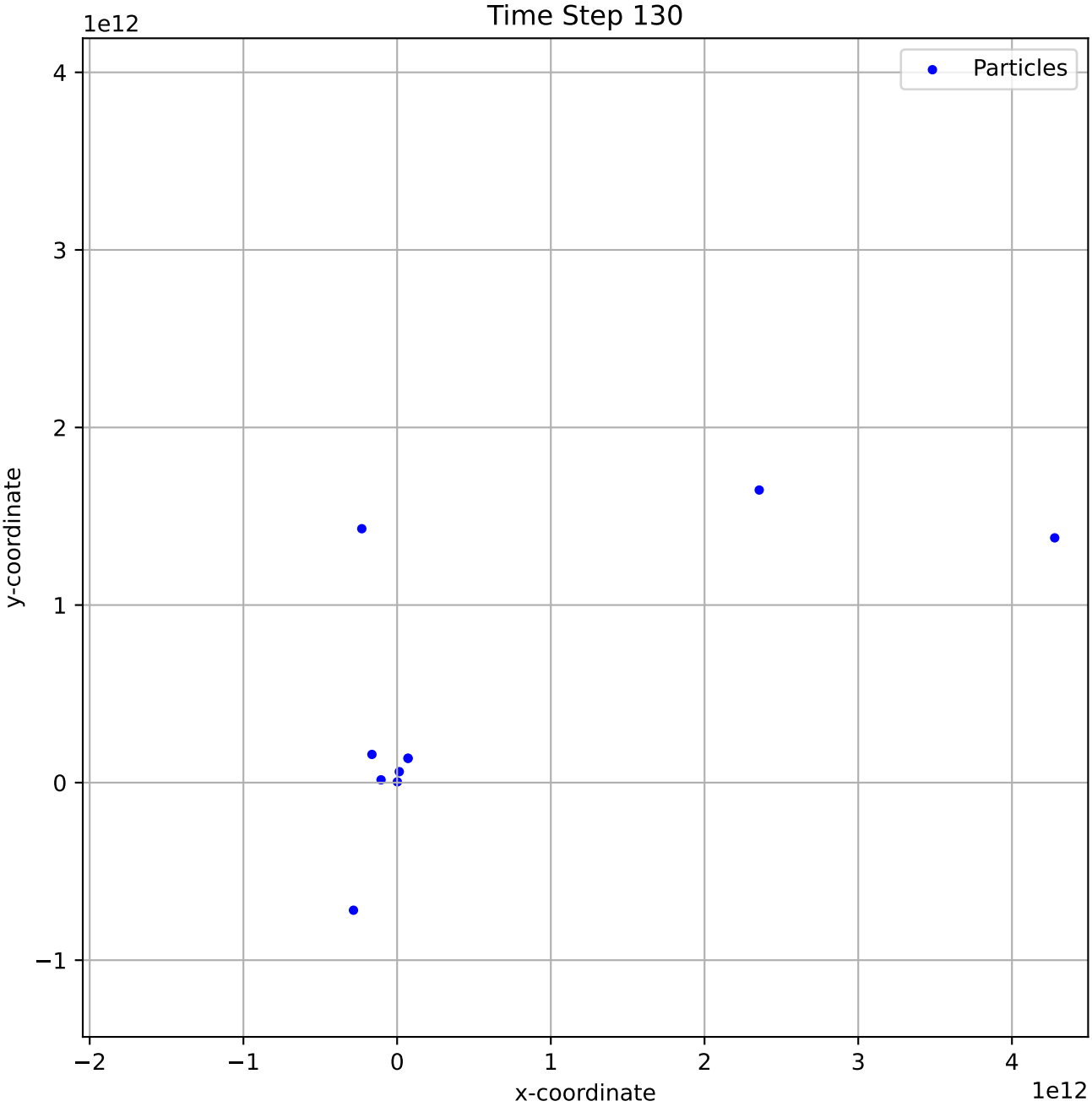

Time Step 125
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

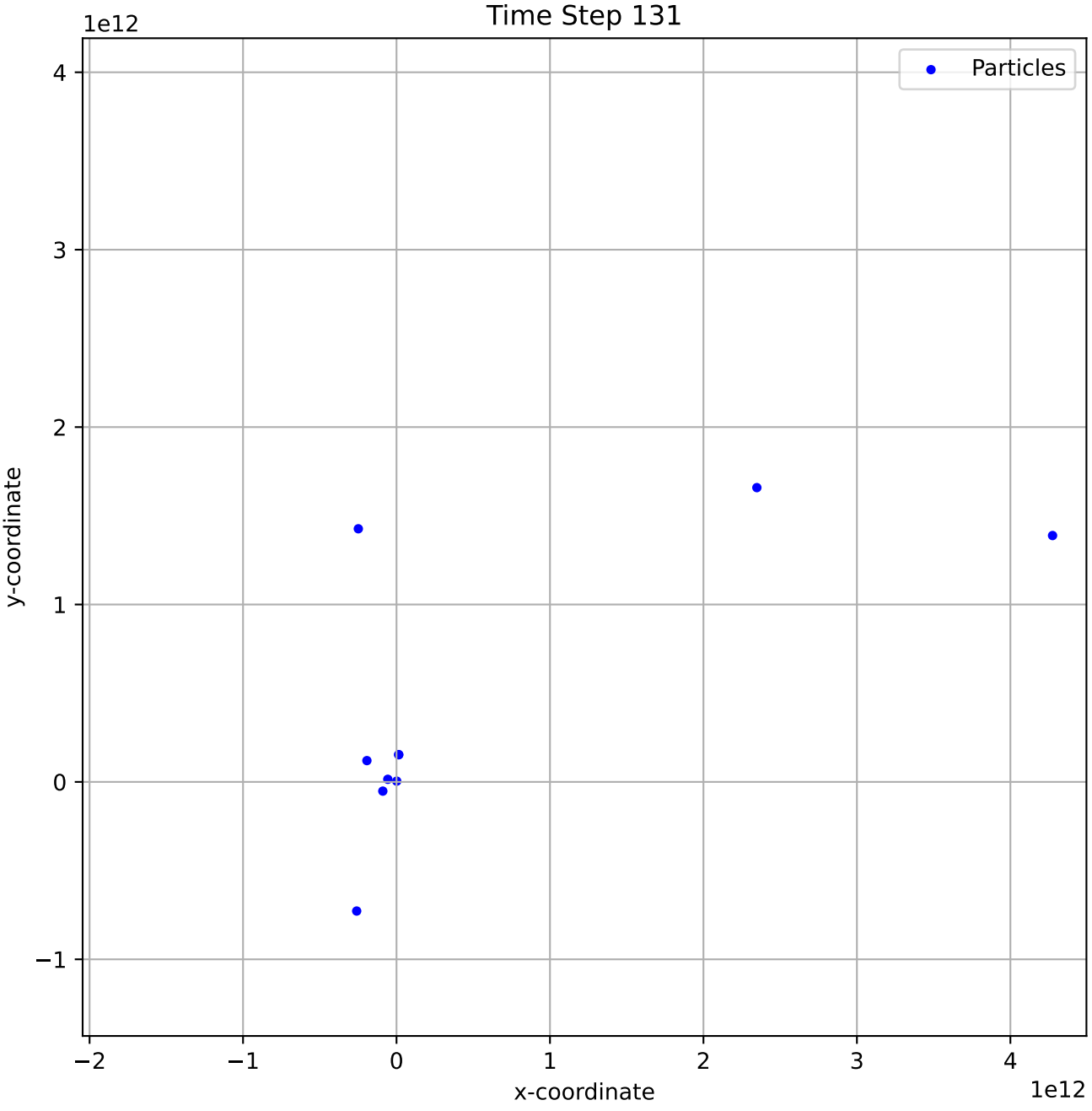

Time Step 126
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

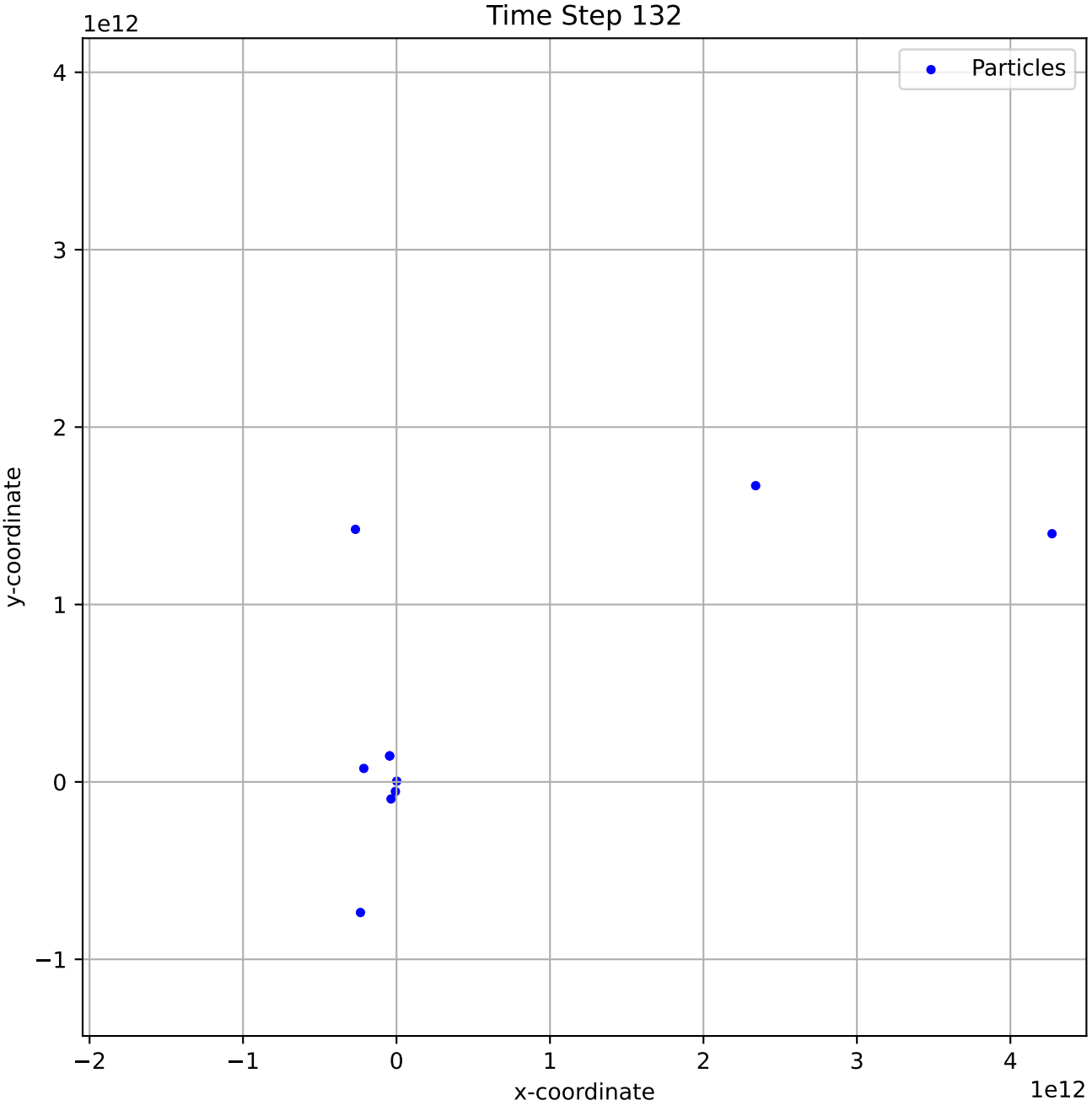

Time Step 127
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

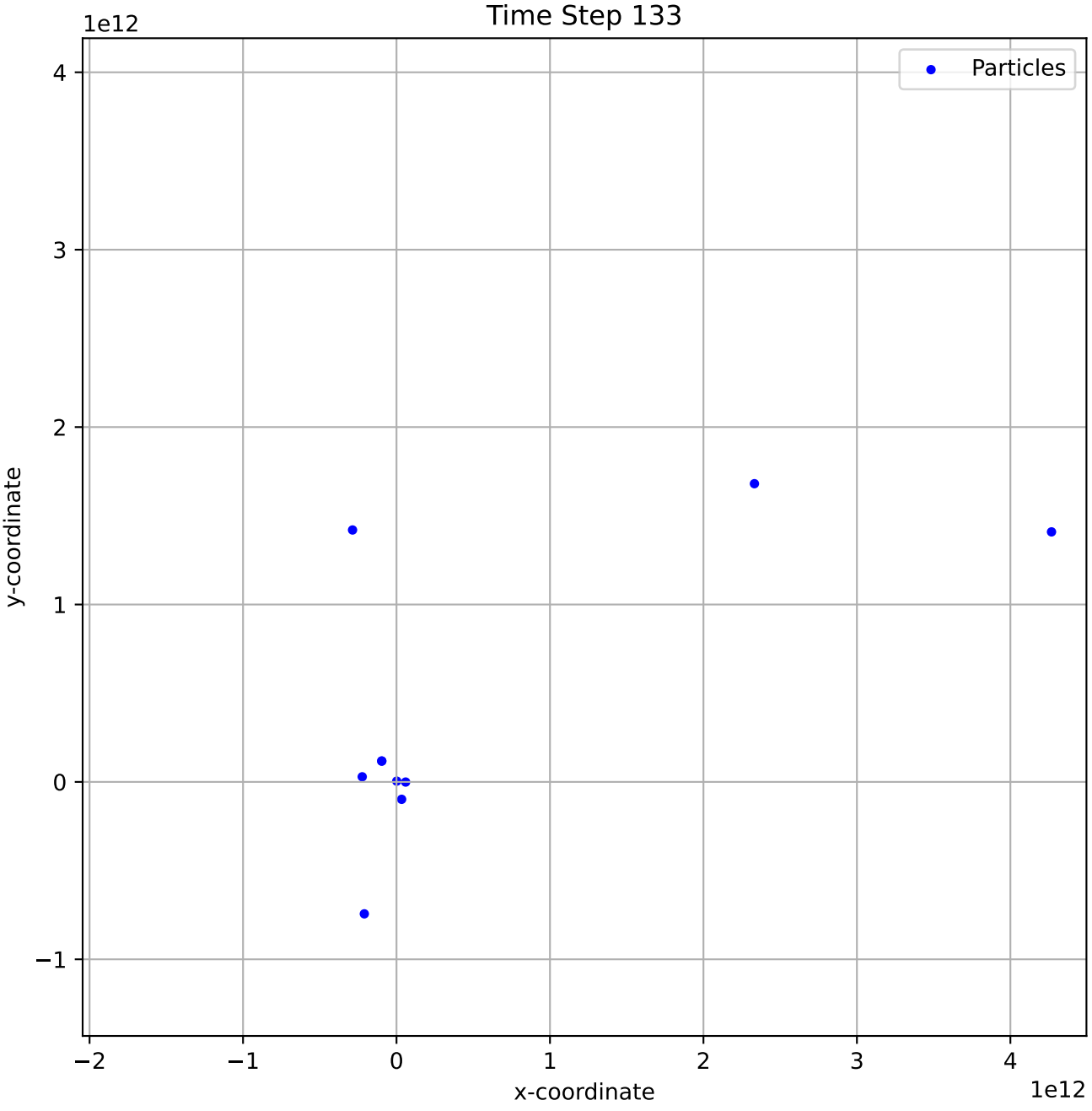

Time Step 128
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

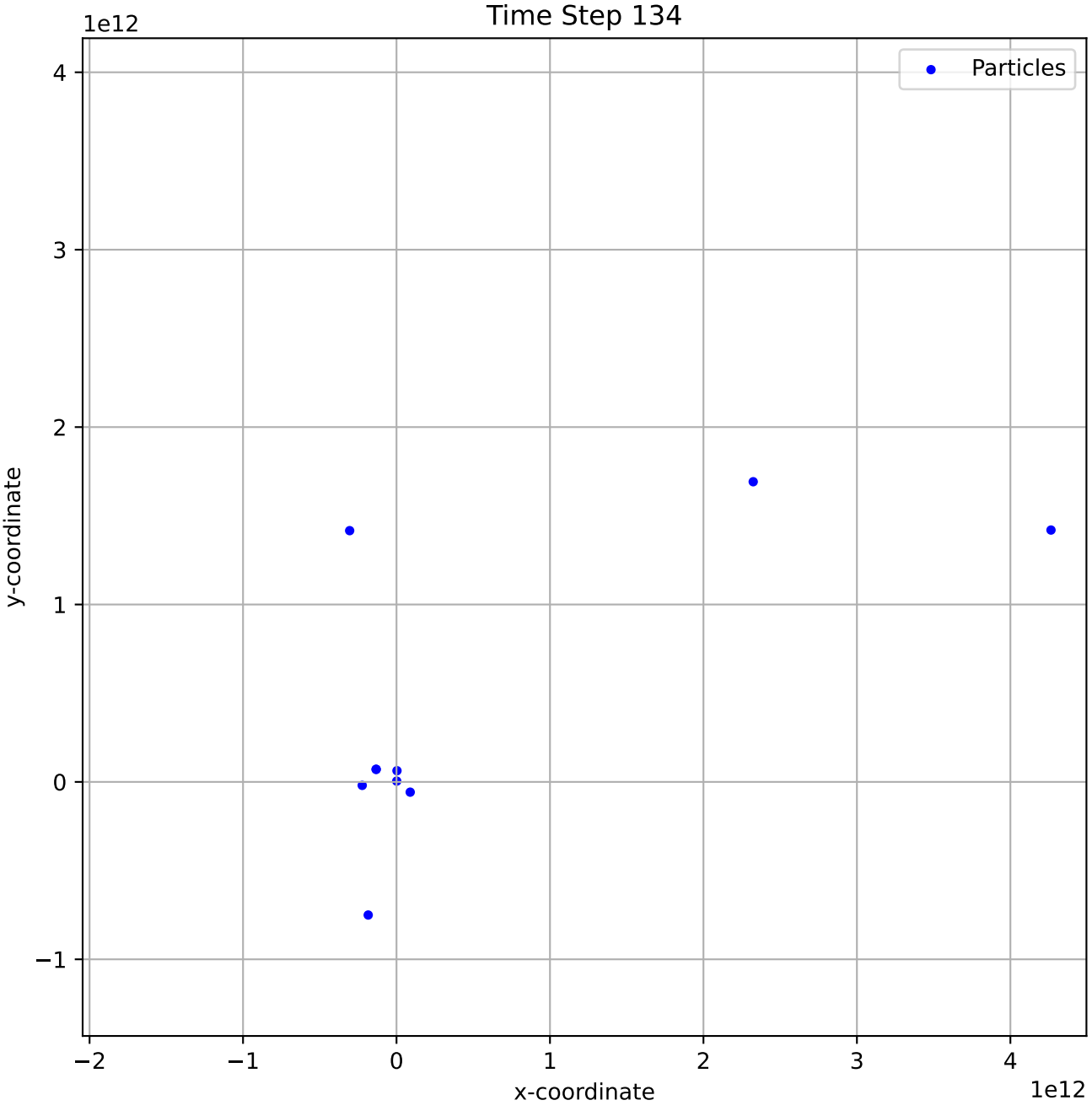

Time Step 129
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

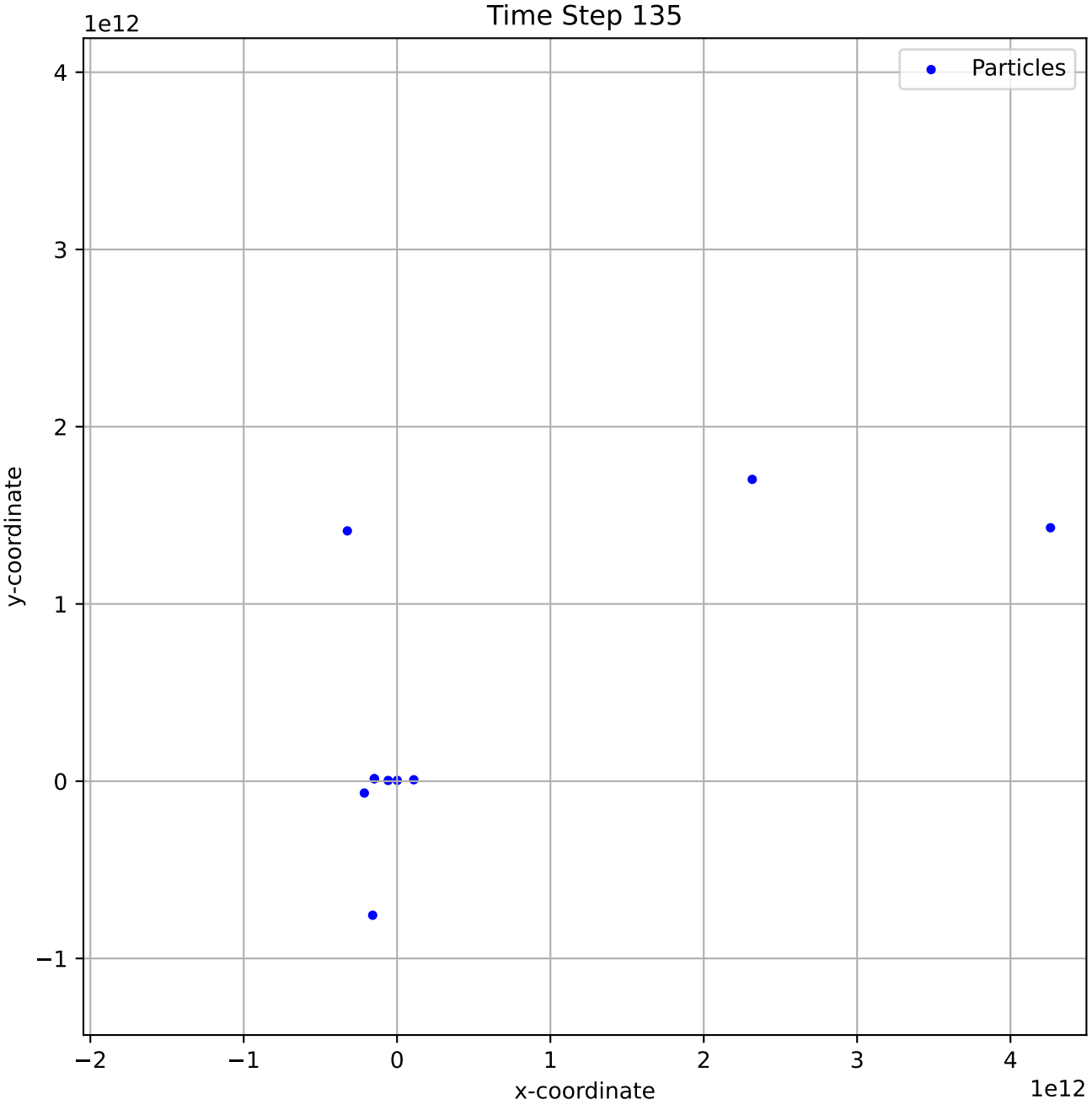

Time Step 130
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

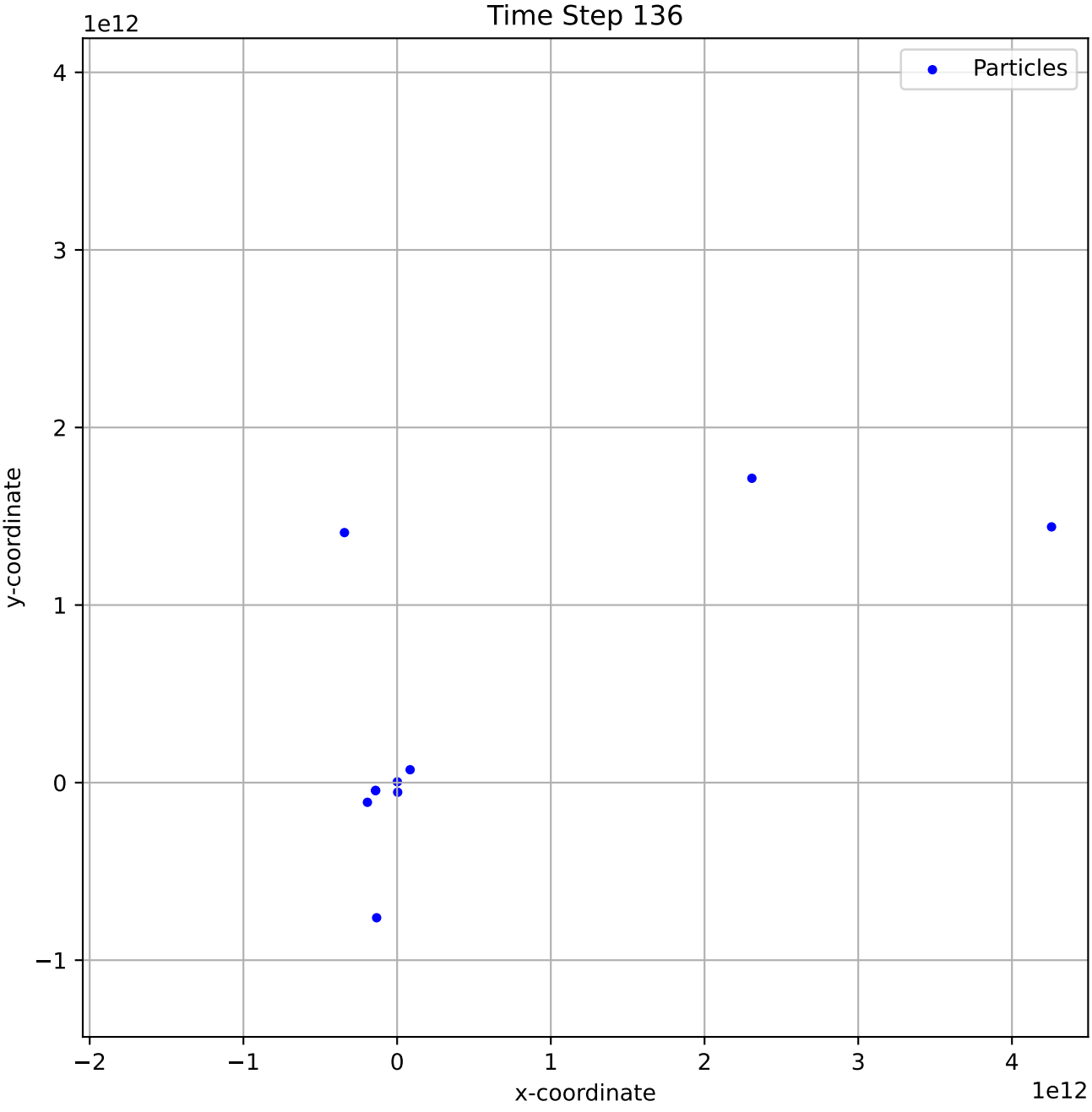

Time Step 131
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

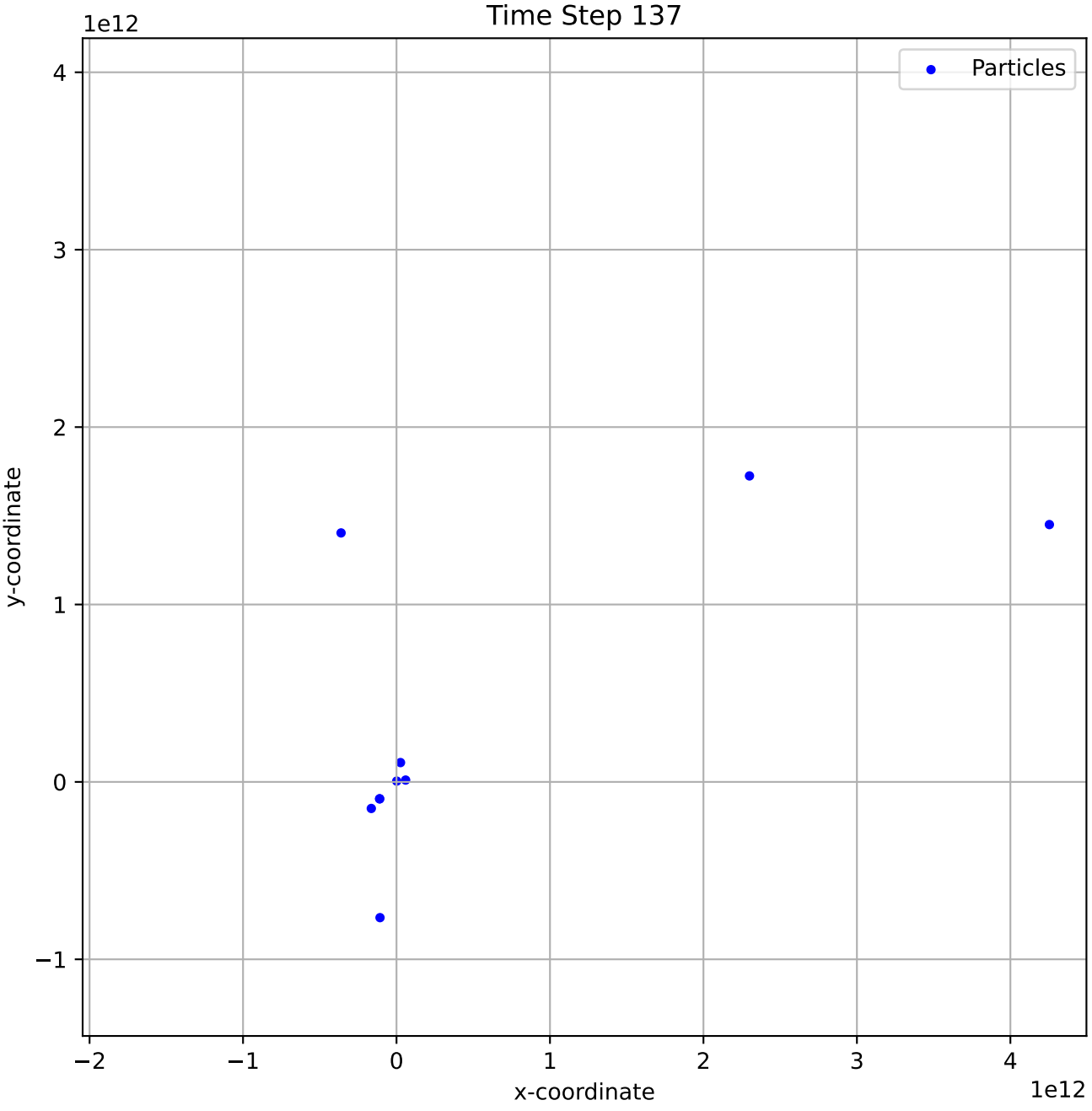

Time Step 132
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

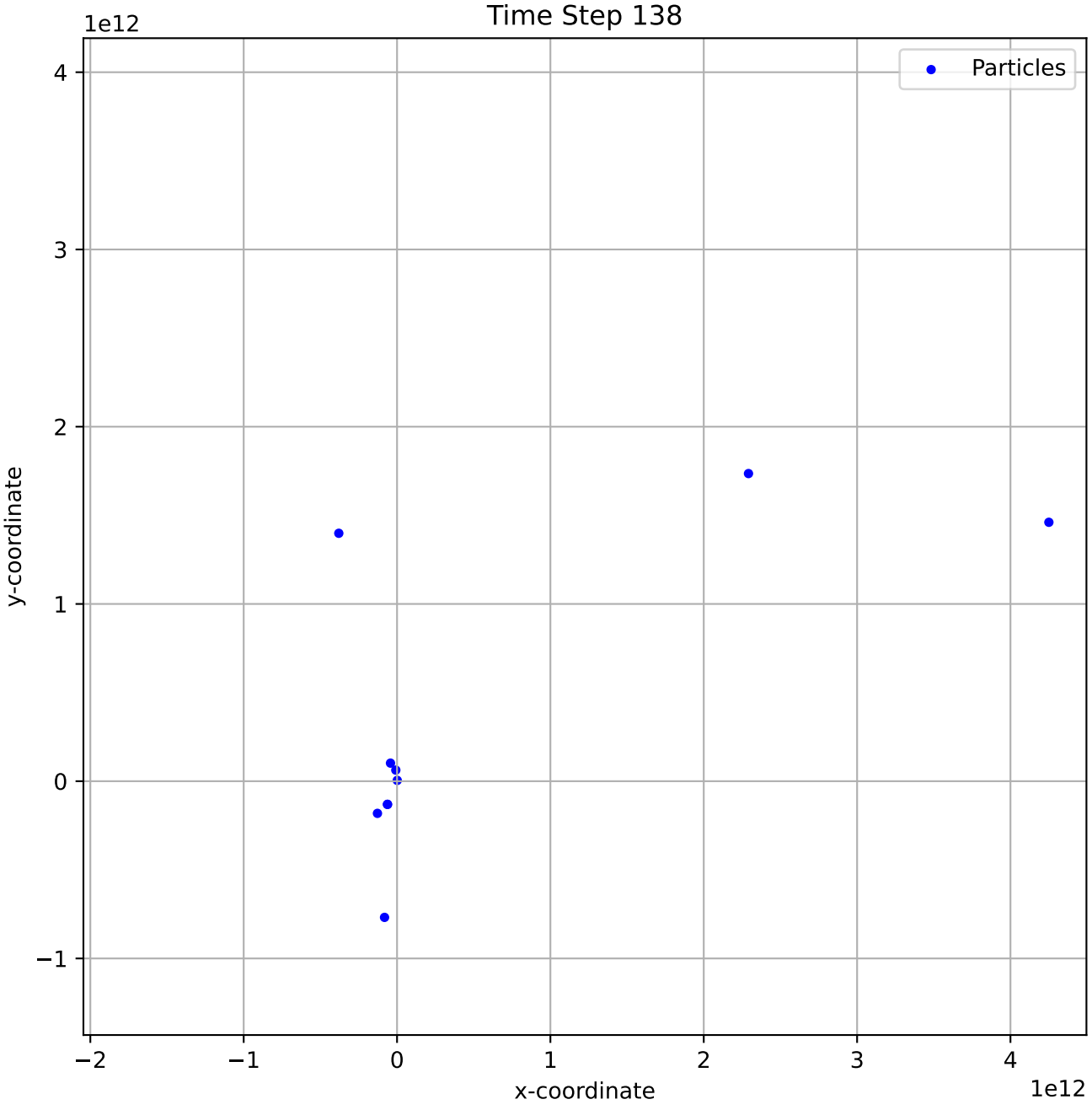

Time Step 133
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

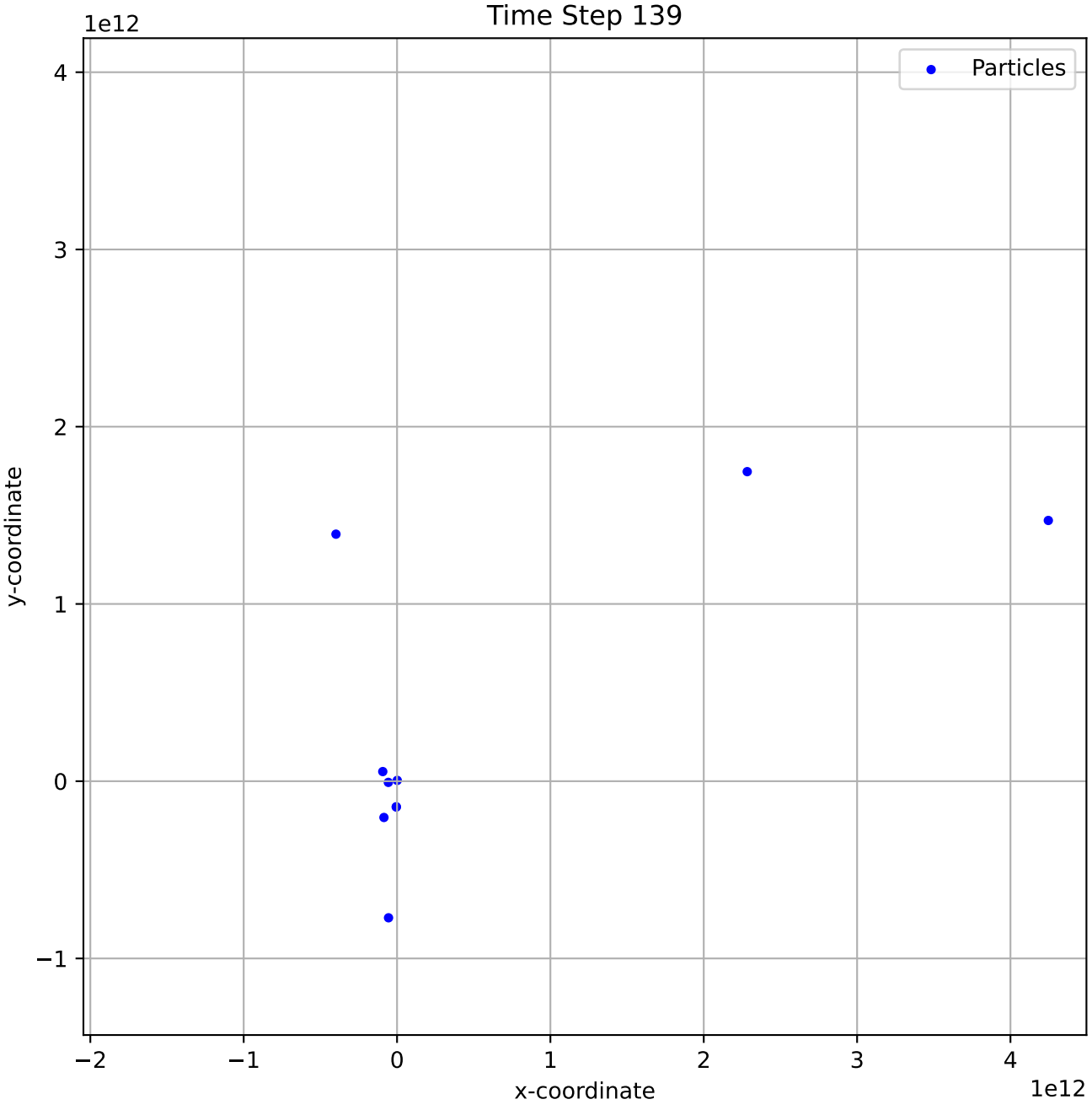

Time Step 134
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

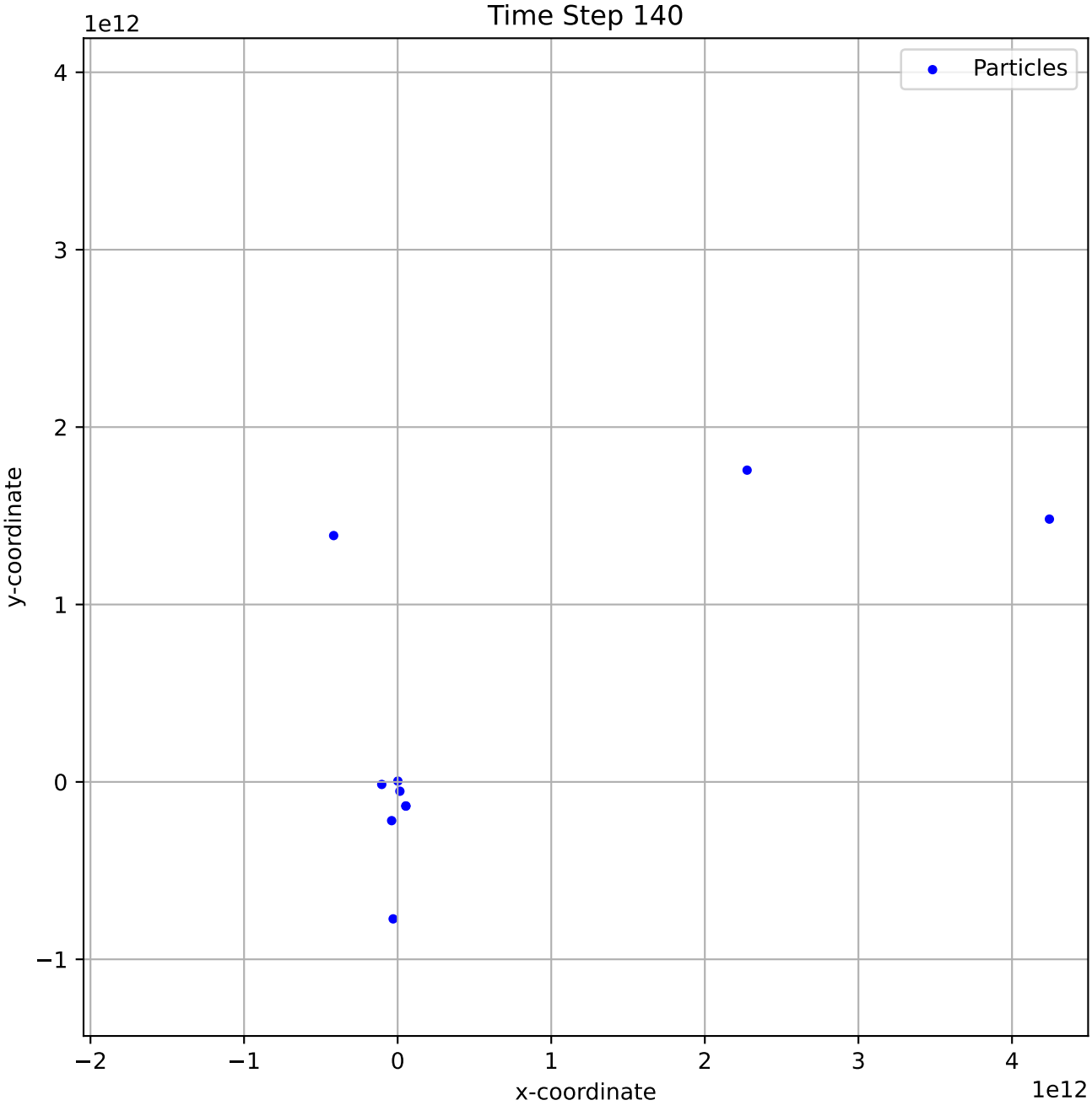

Time Step 135
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

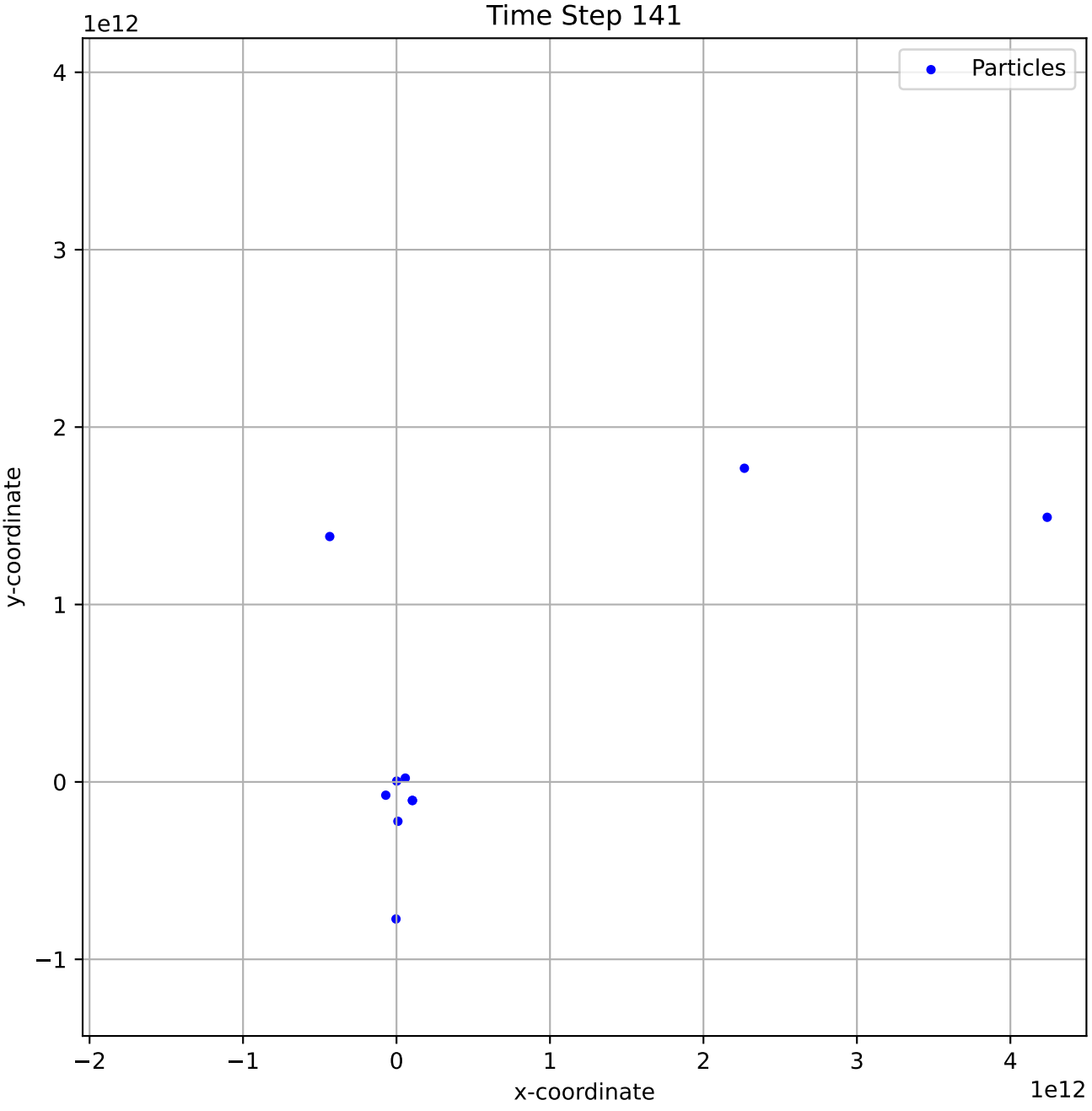

Time Step 136
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

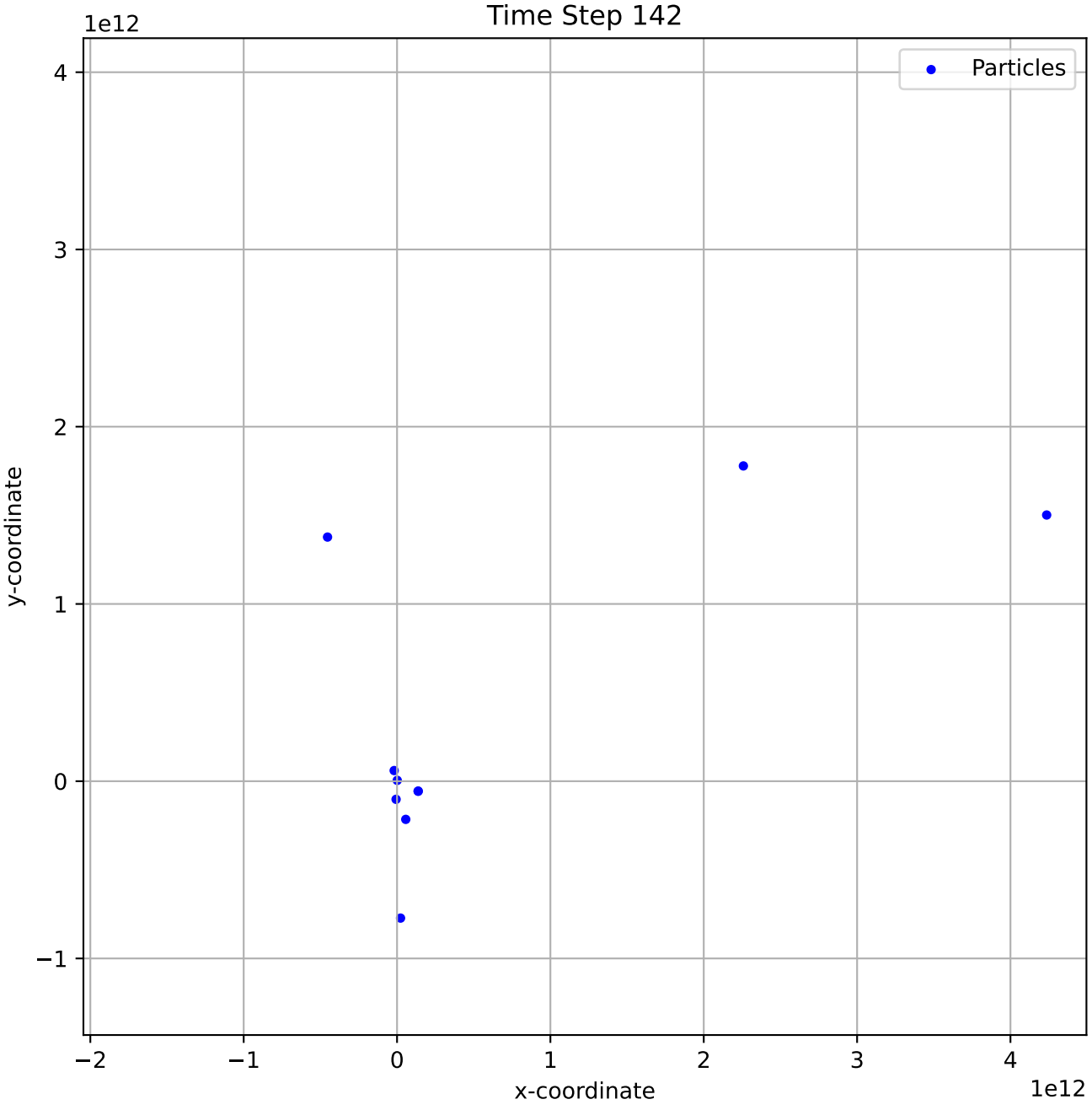

Time Step 137
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

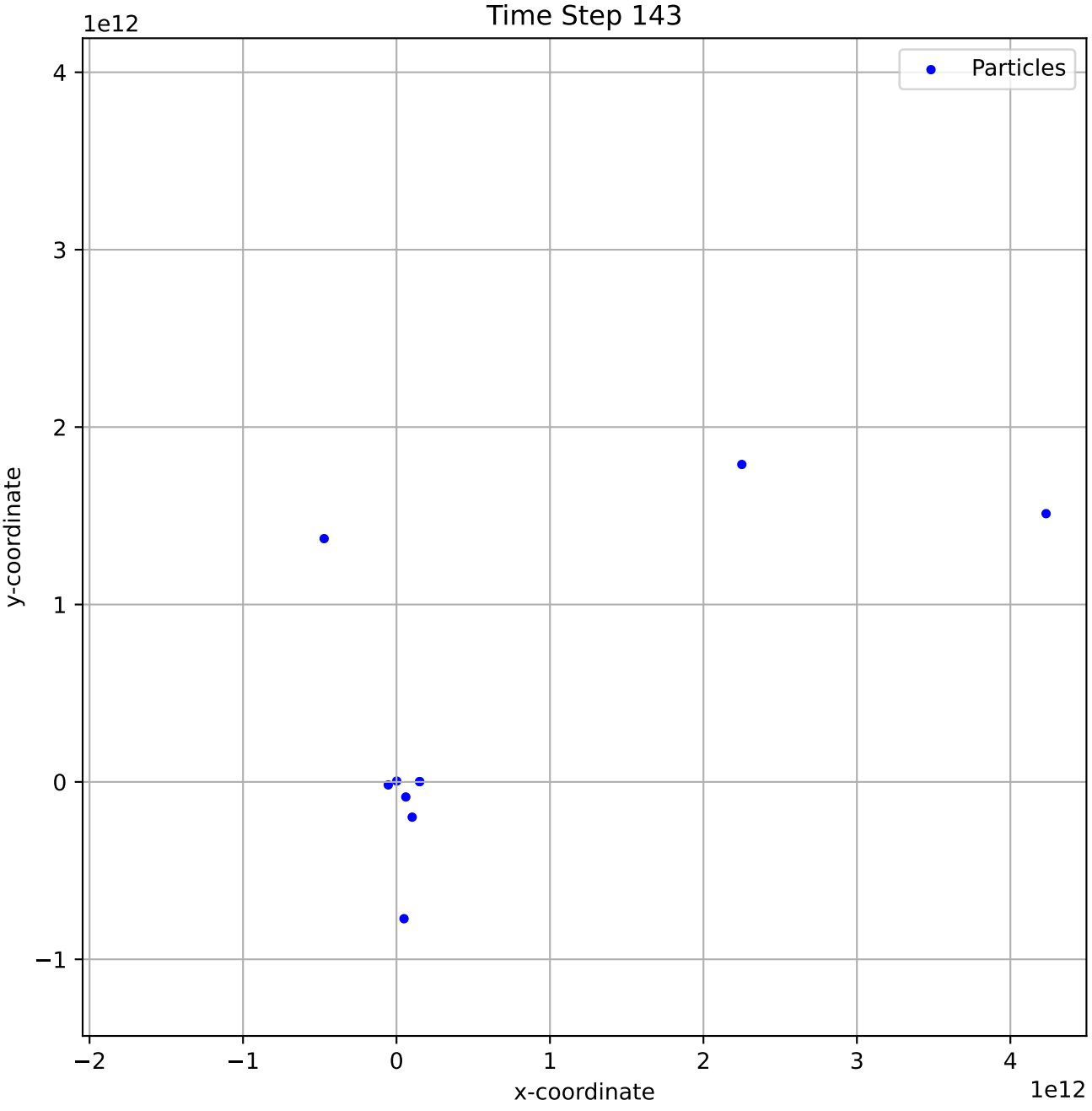

Time Step 138
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

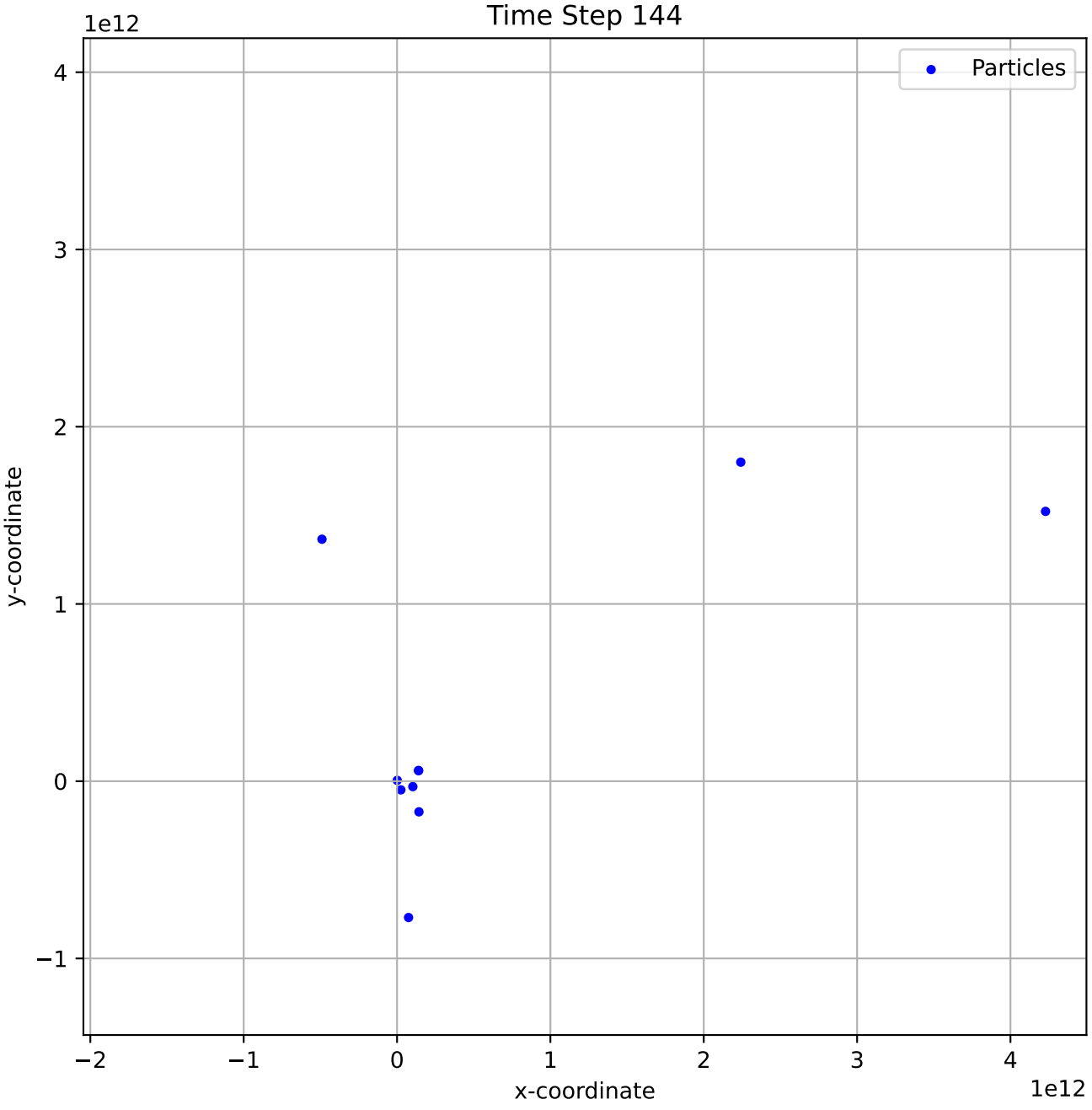

Time Step 139
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

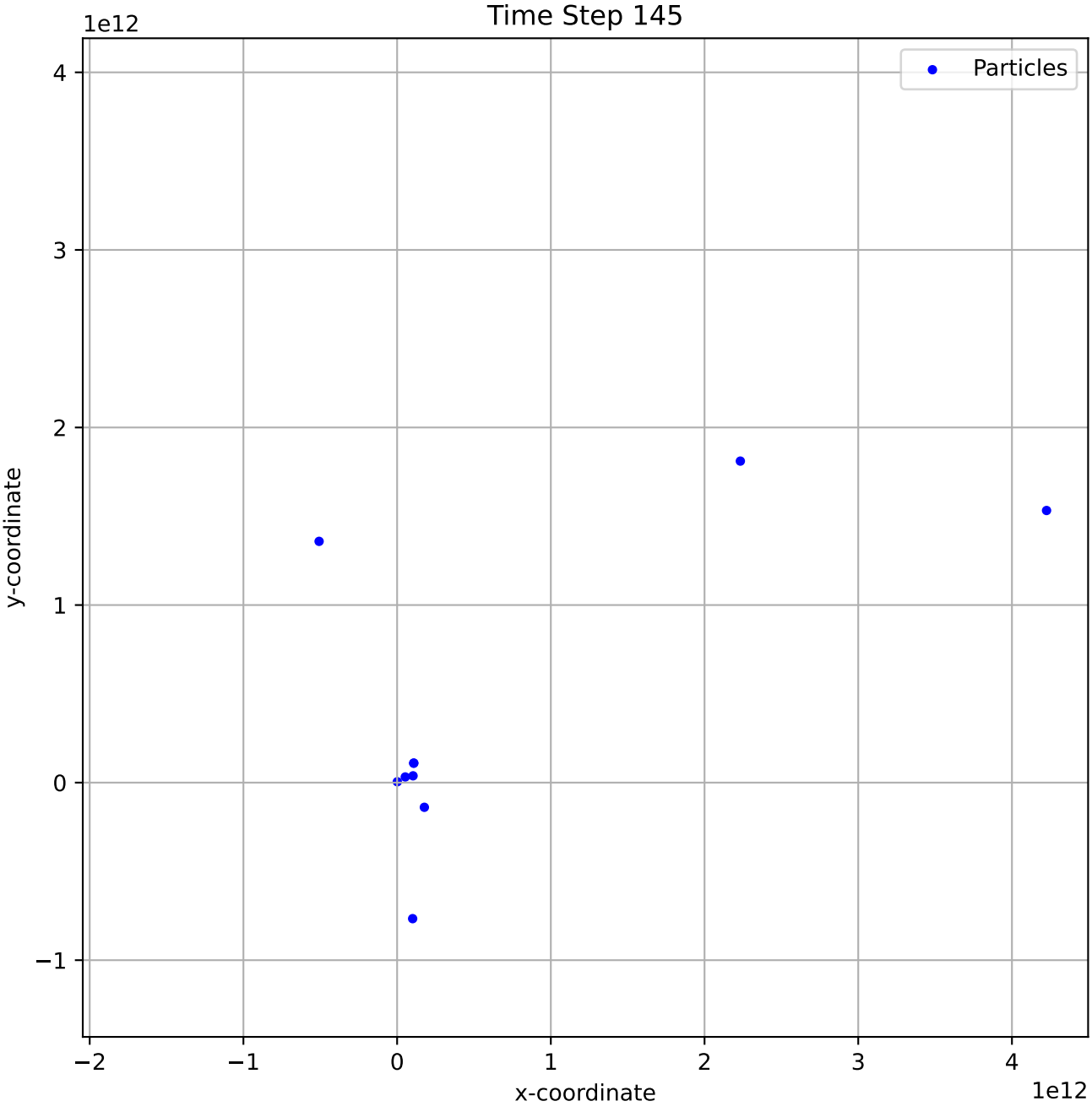

Time Step 140
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

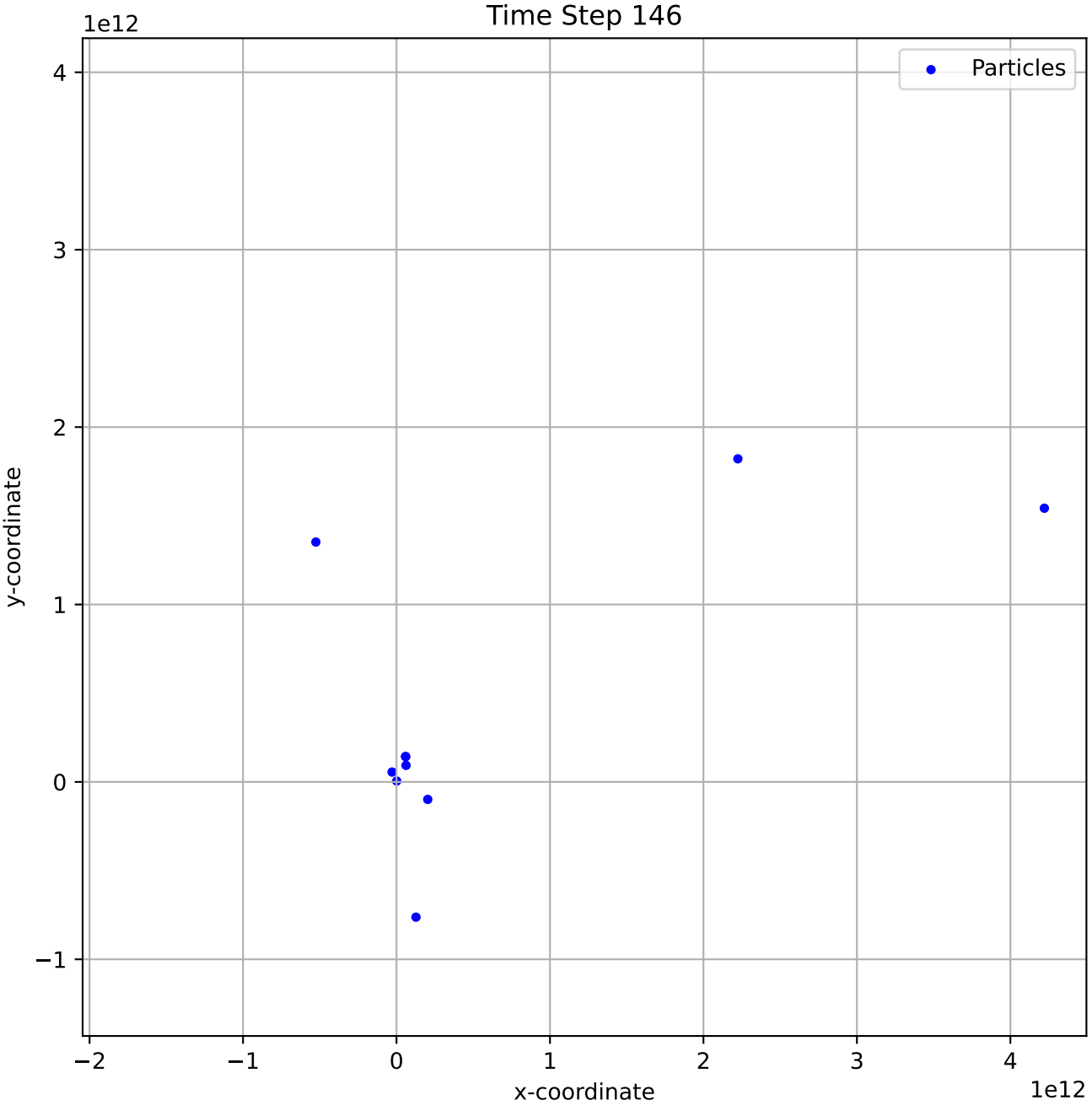

Time Step 141
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

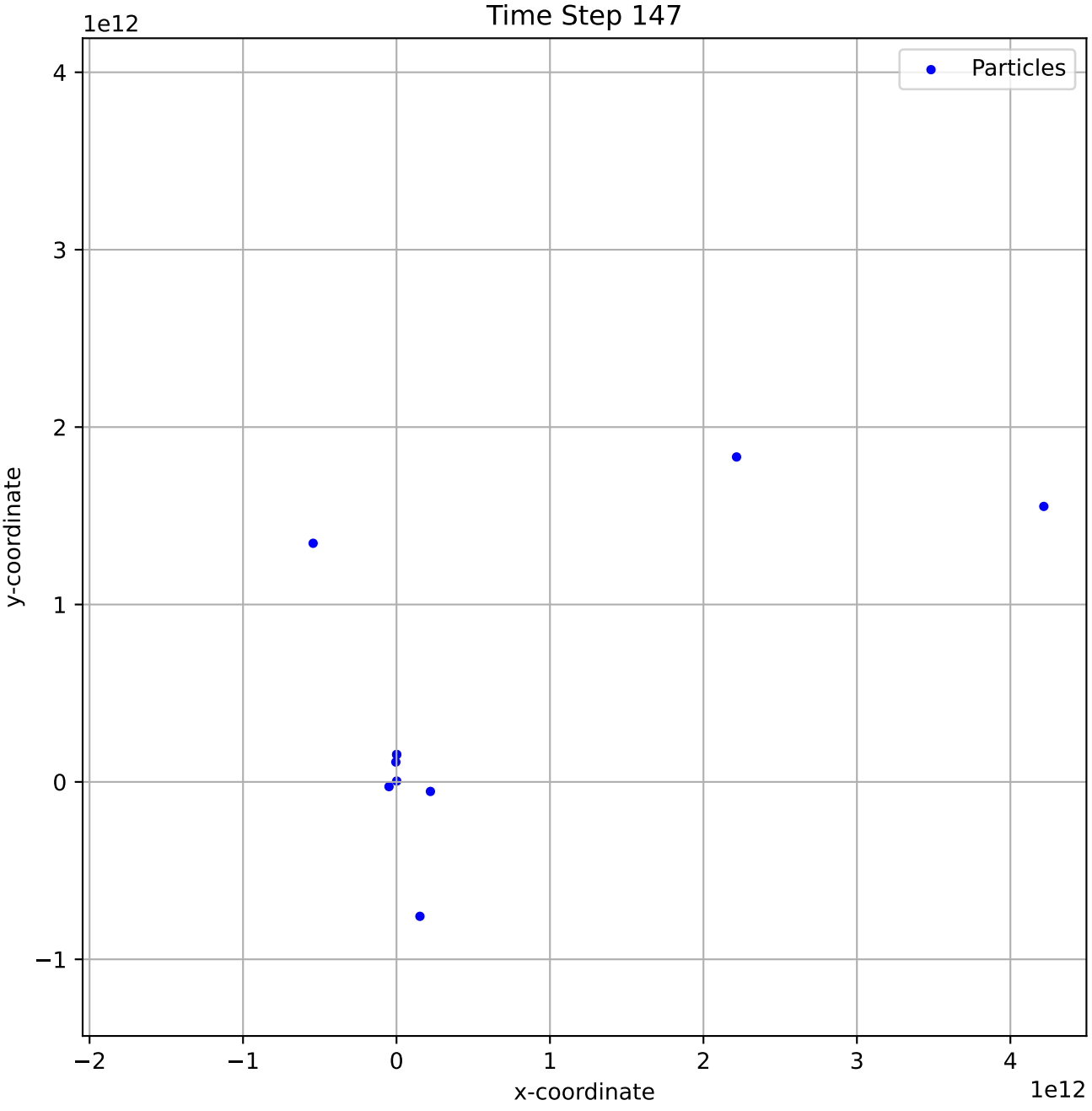

Time Step 142
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

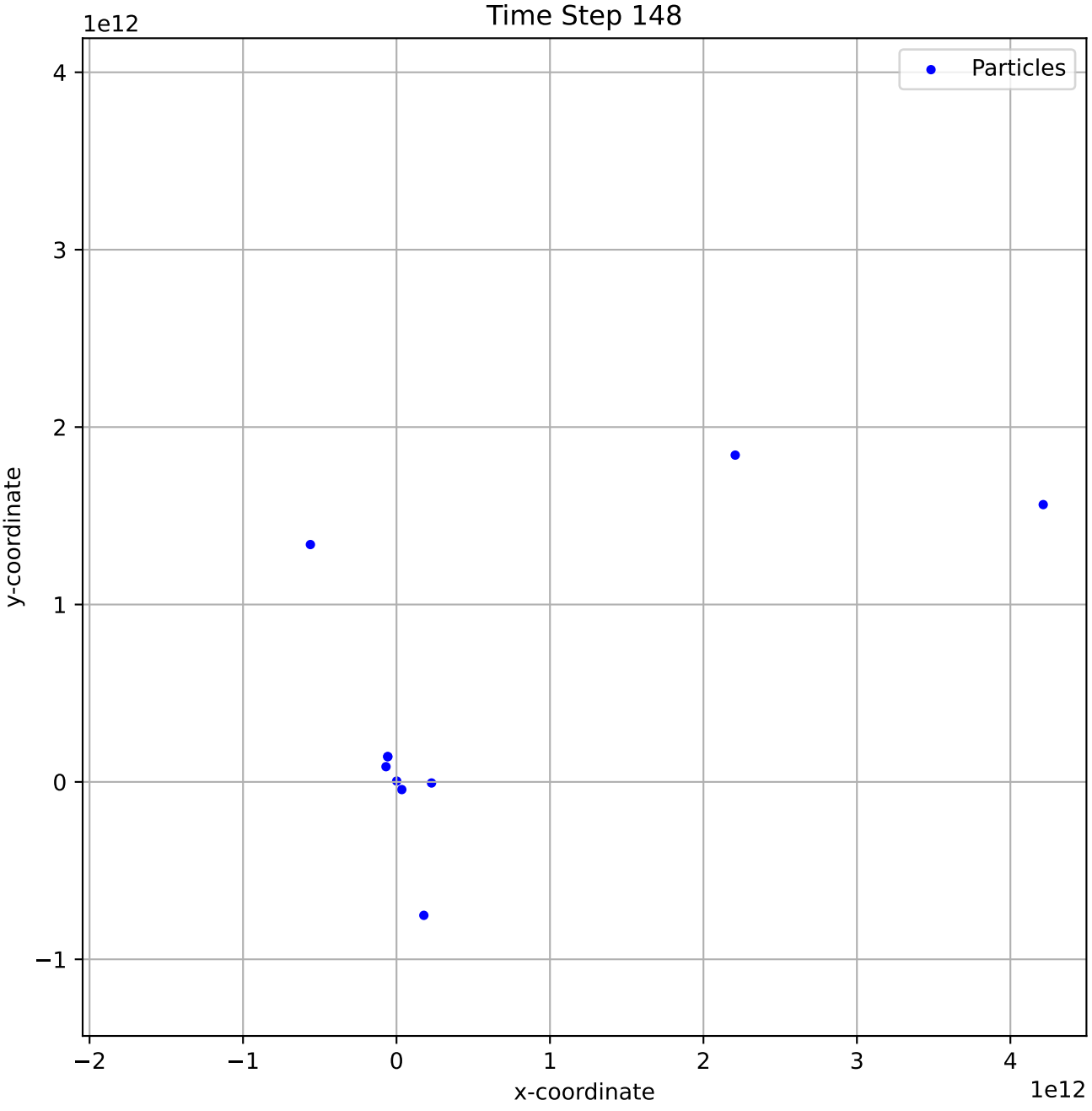

Time Step 143
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

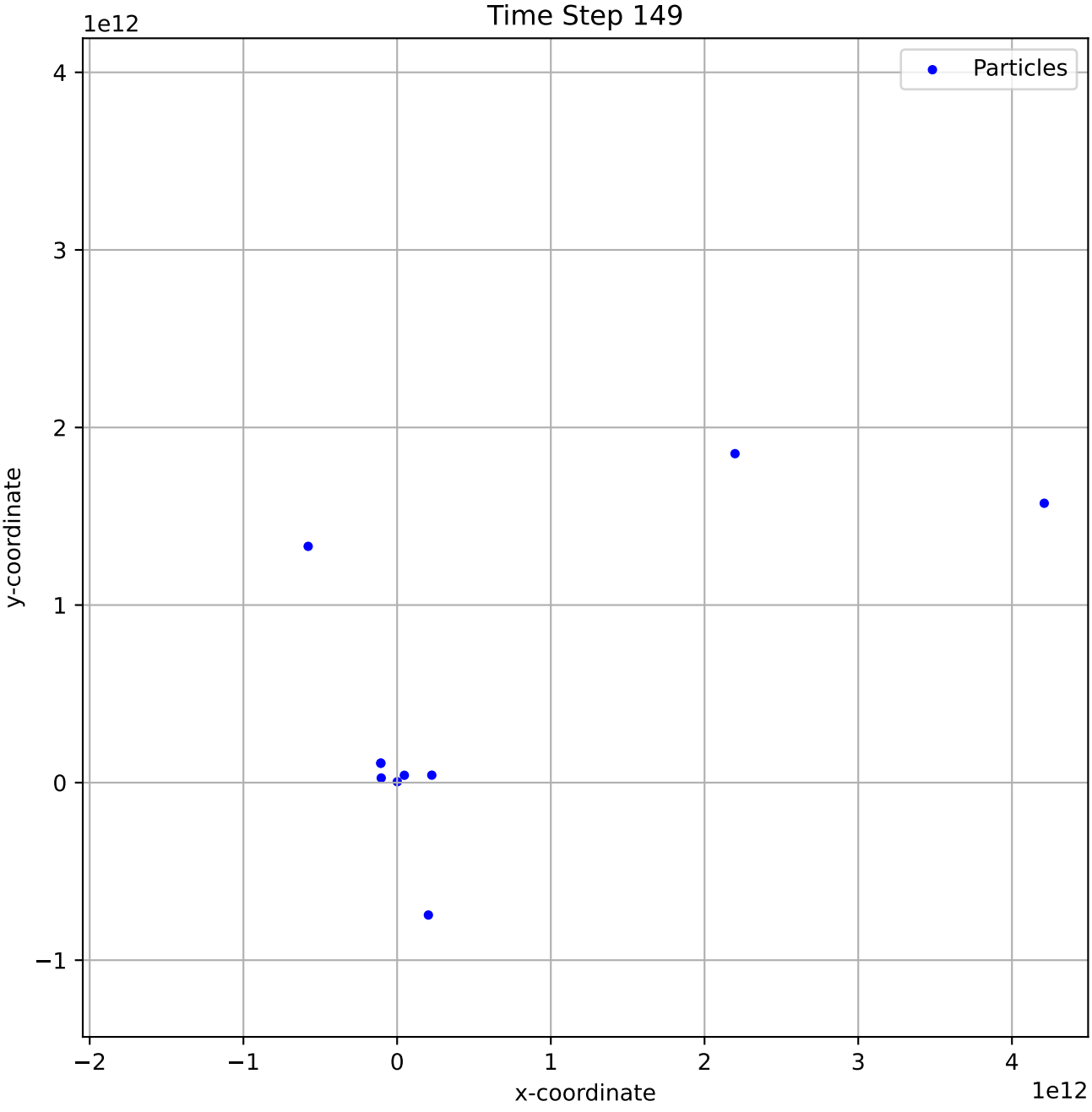

Time Step 144
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

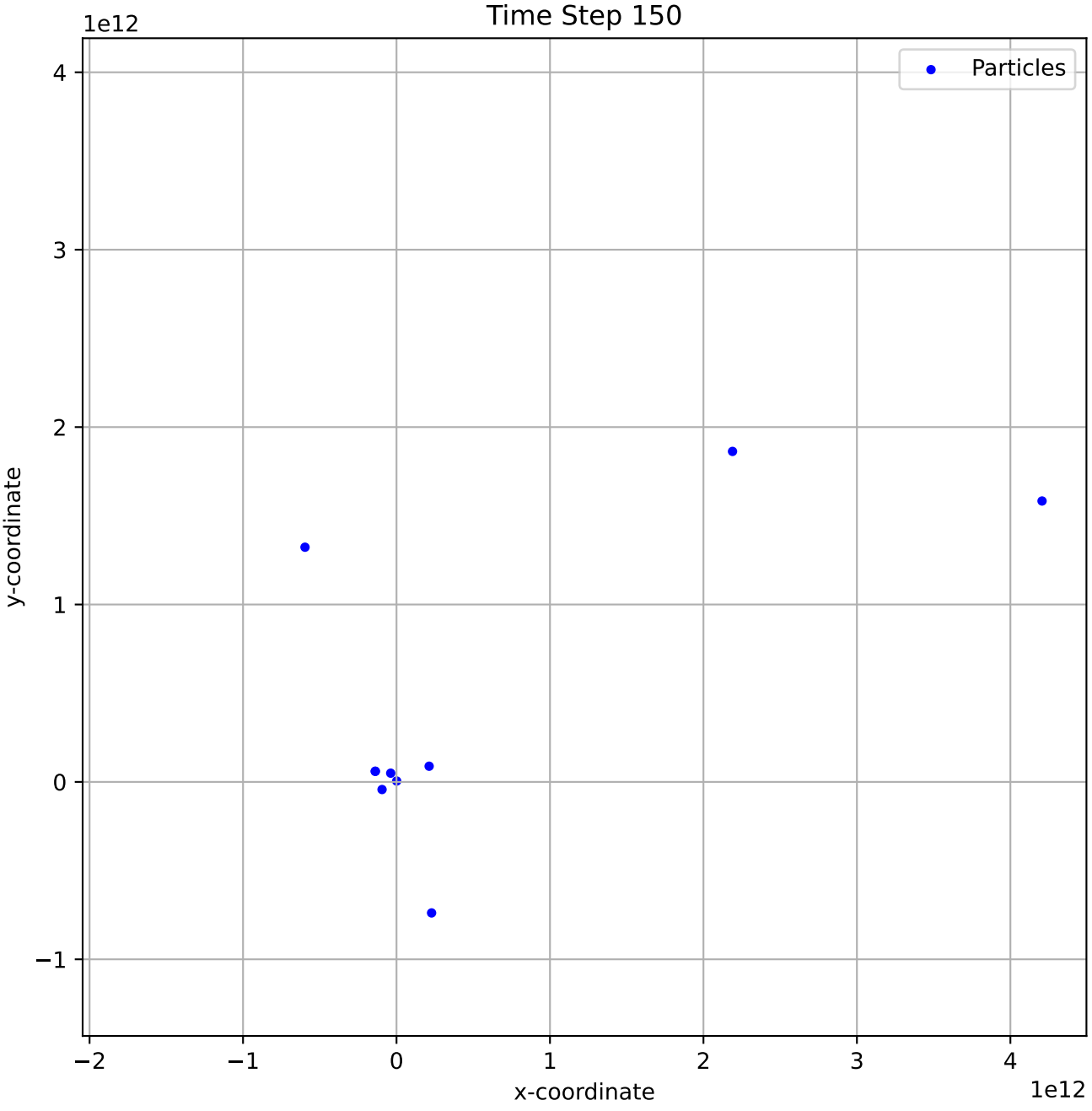

Time Step 145
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

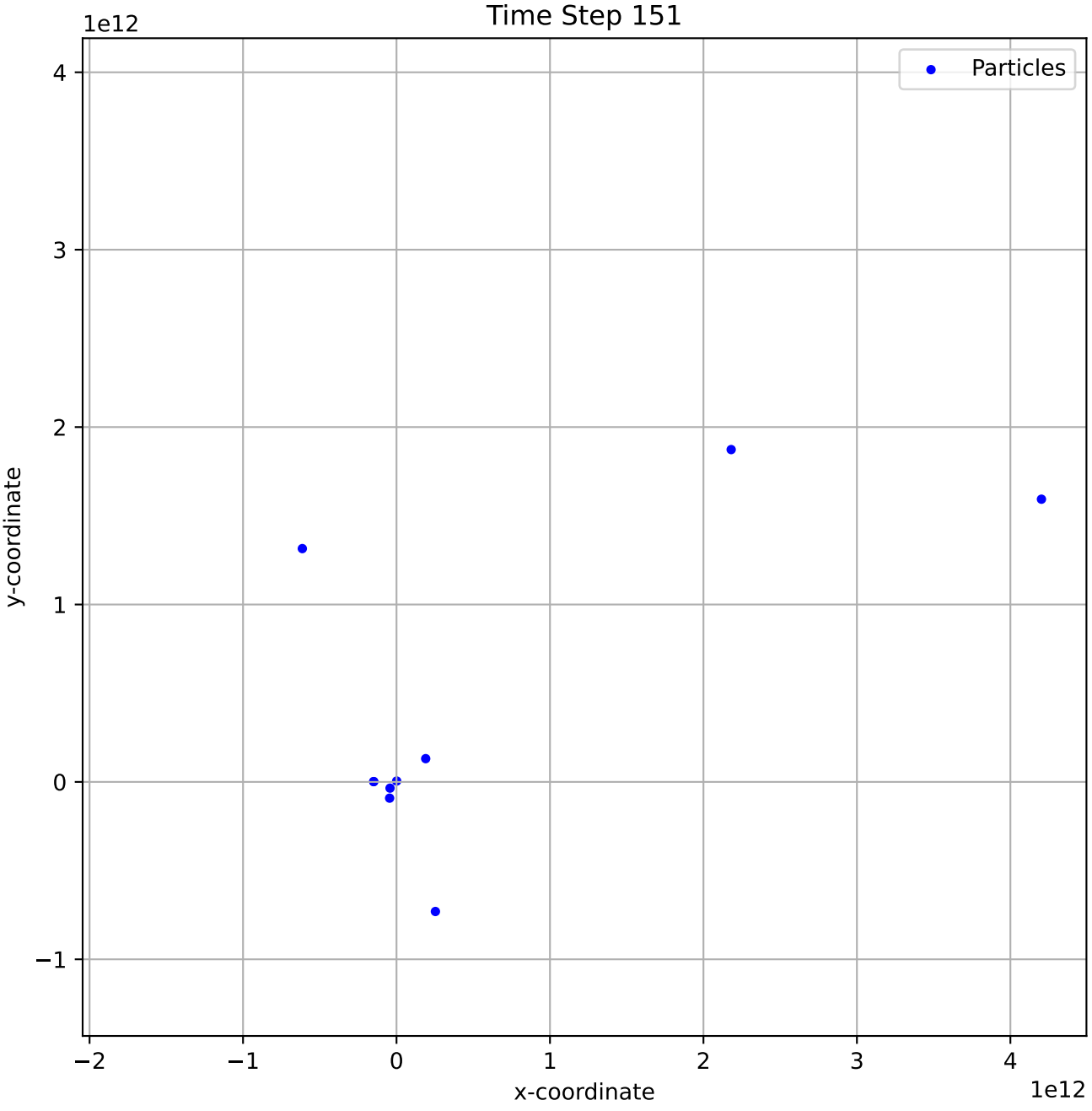

Time Step 146
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

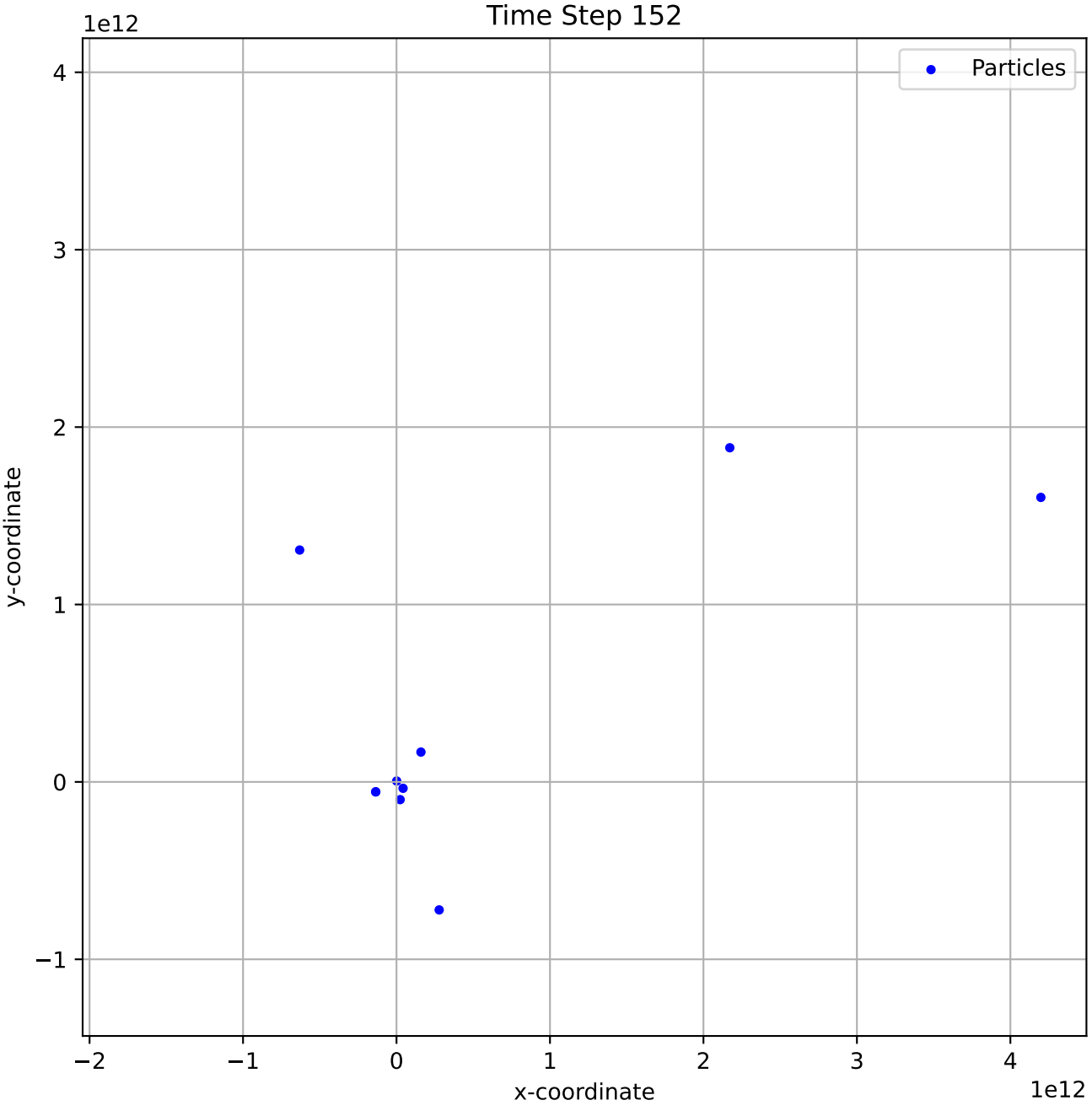

Time Step 147
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

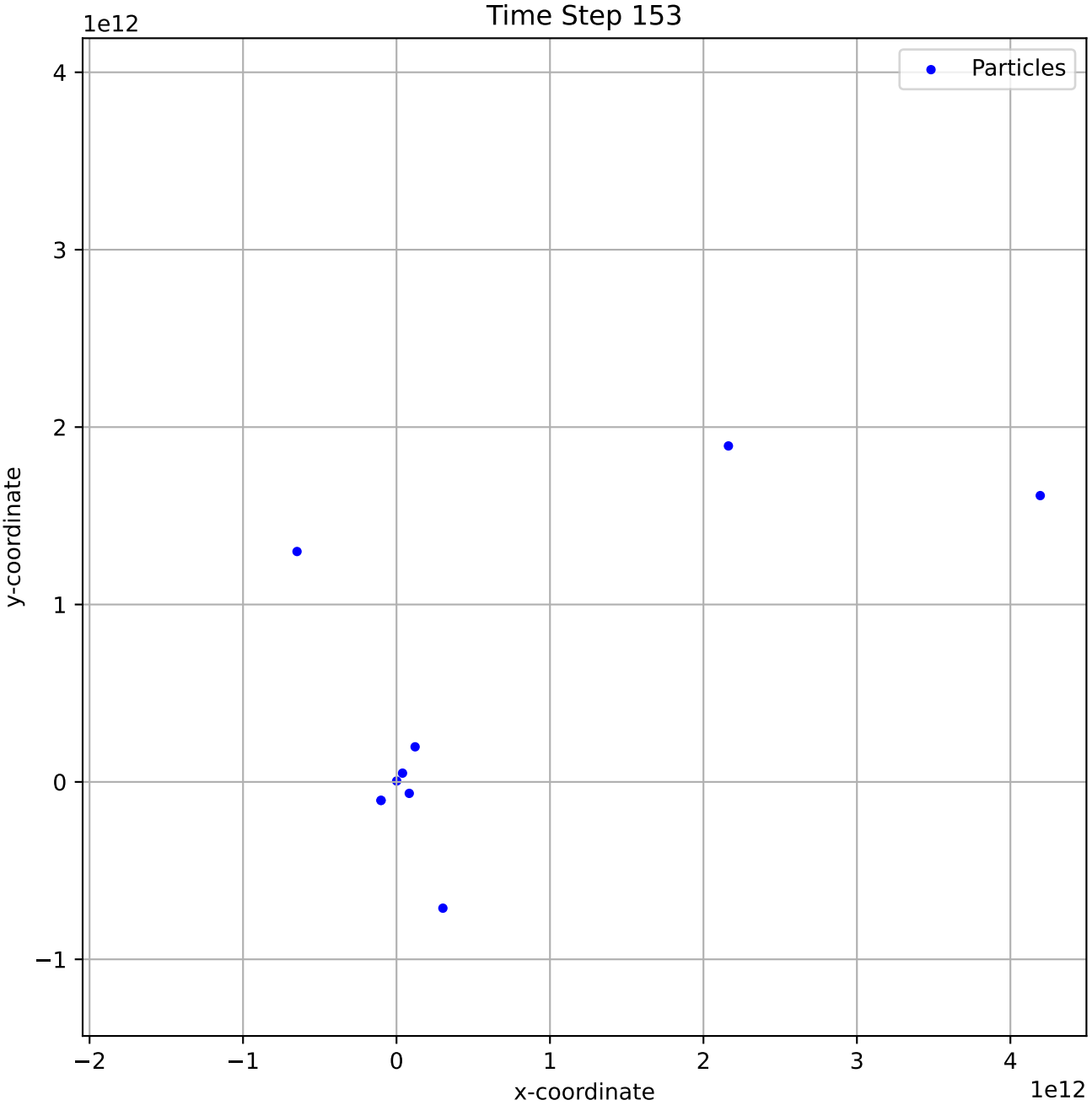

Time Step 148
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

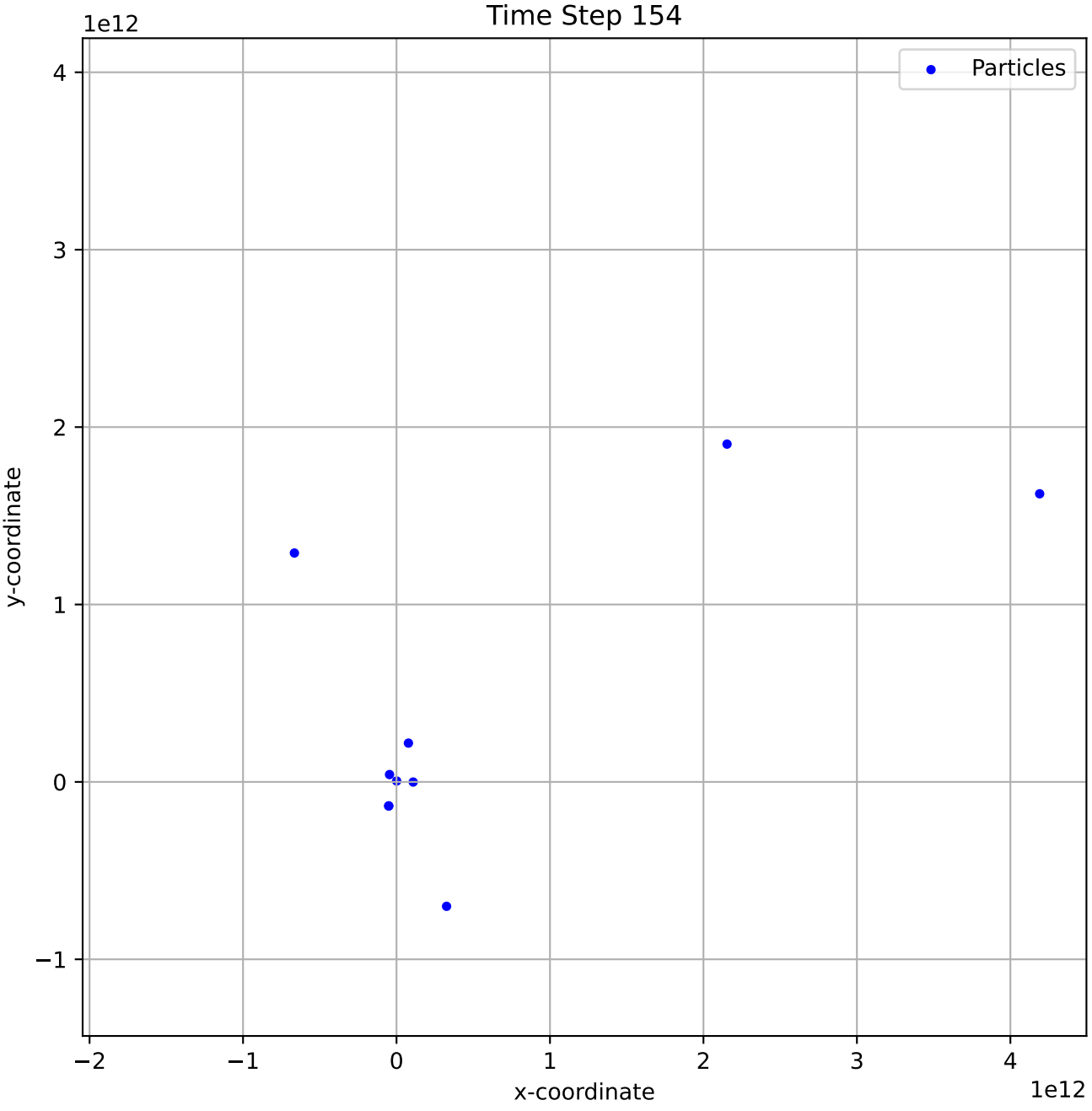

Time Step 149
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

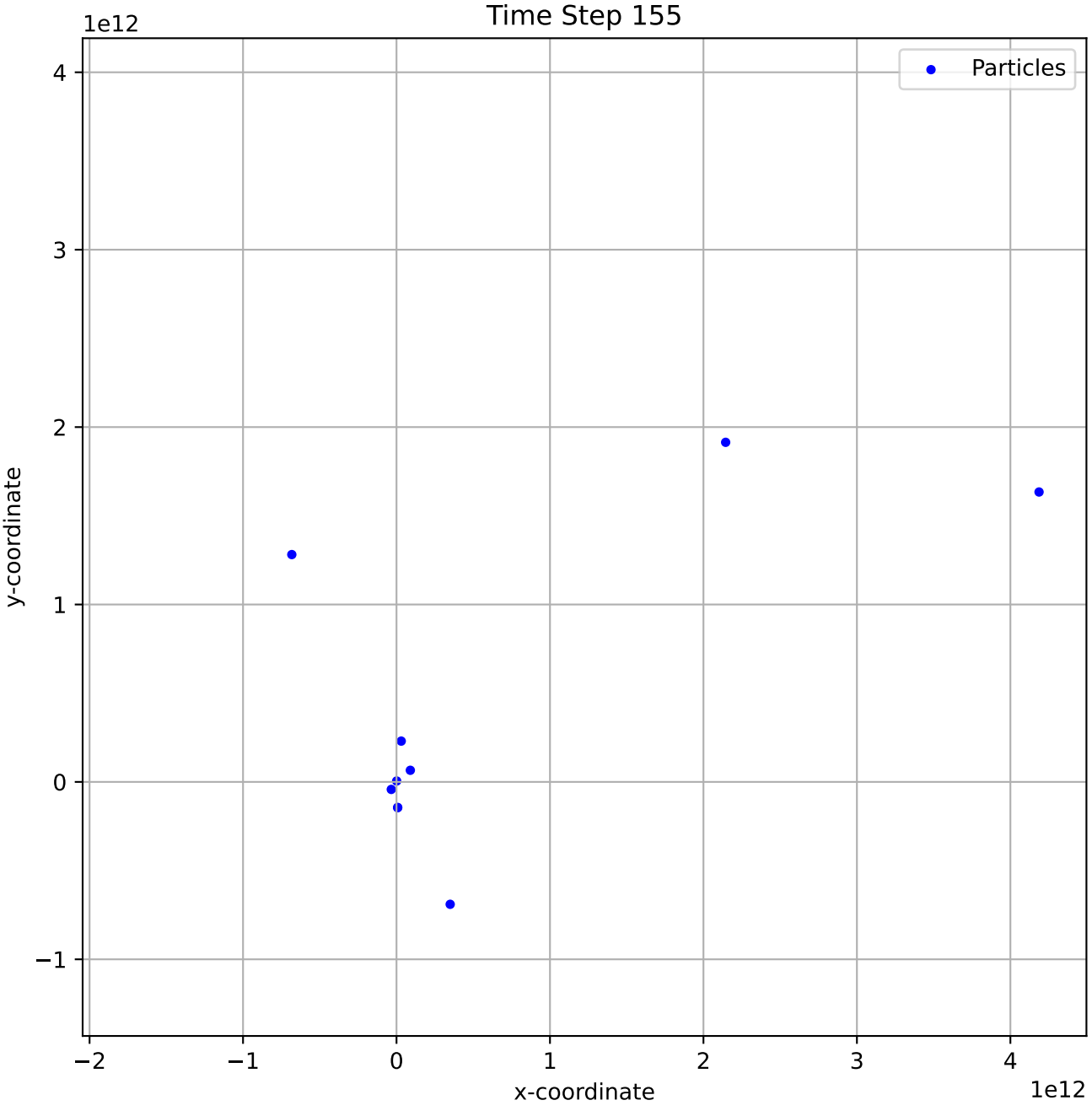

Time Step 150
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

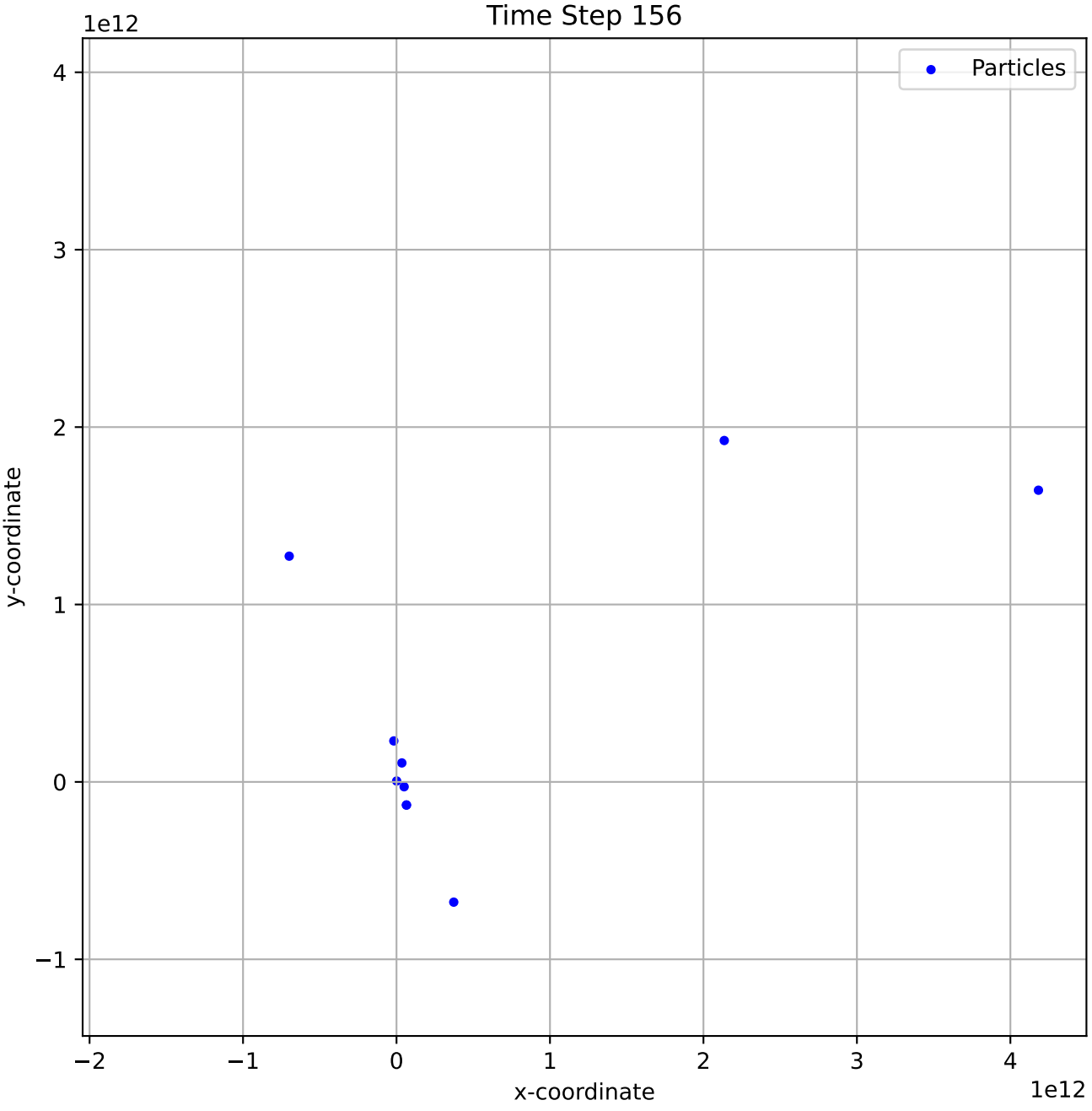

Time Step 151
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

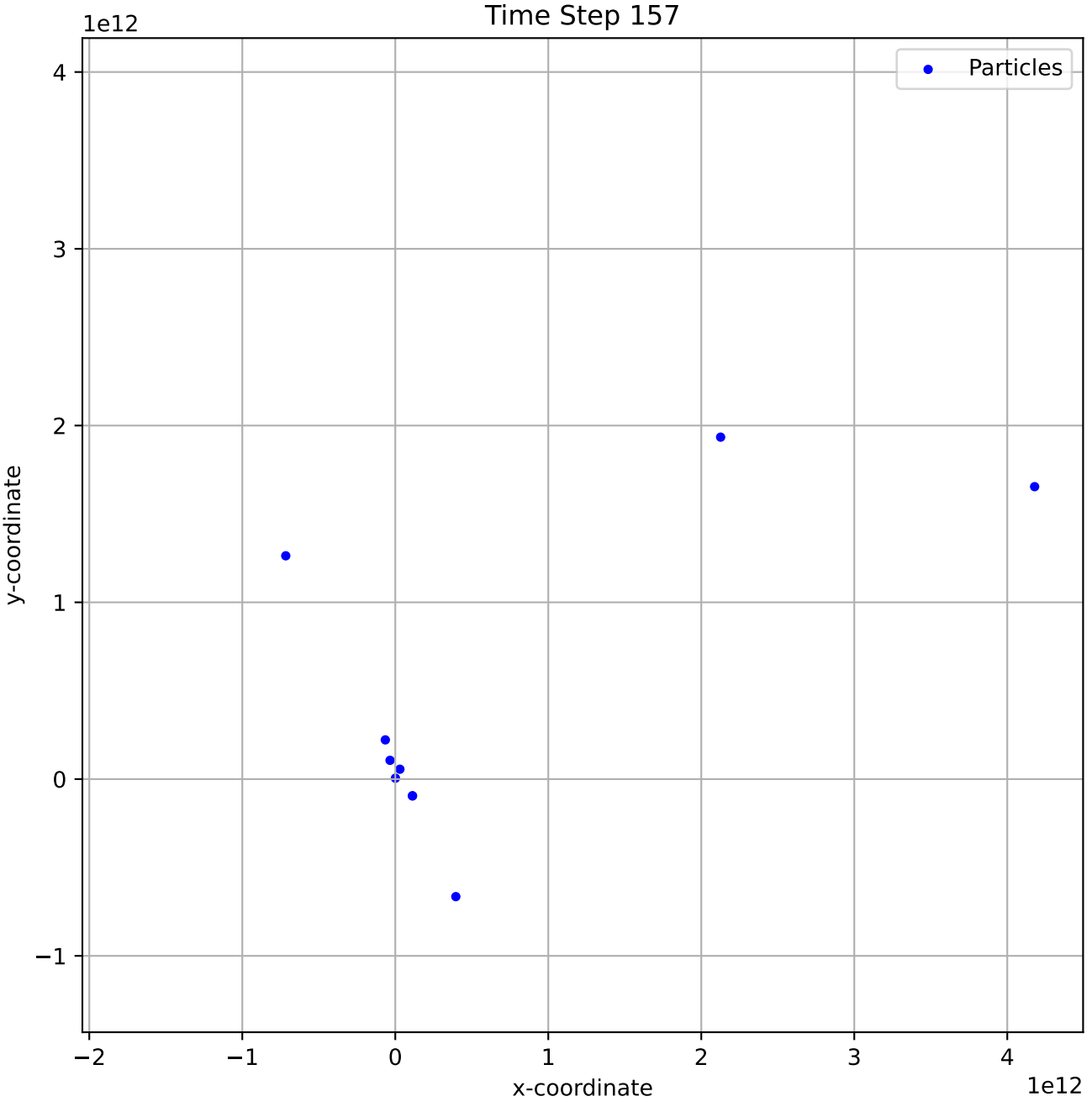

Time Step 152
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

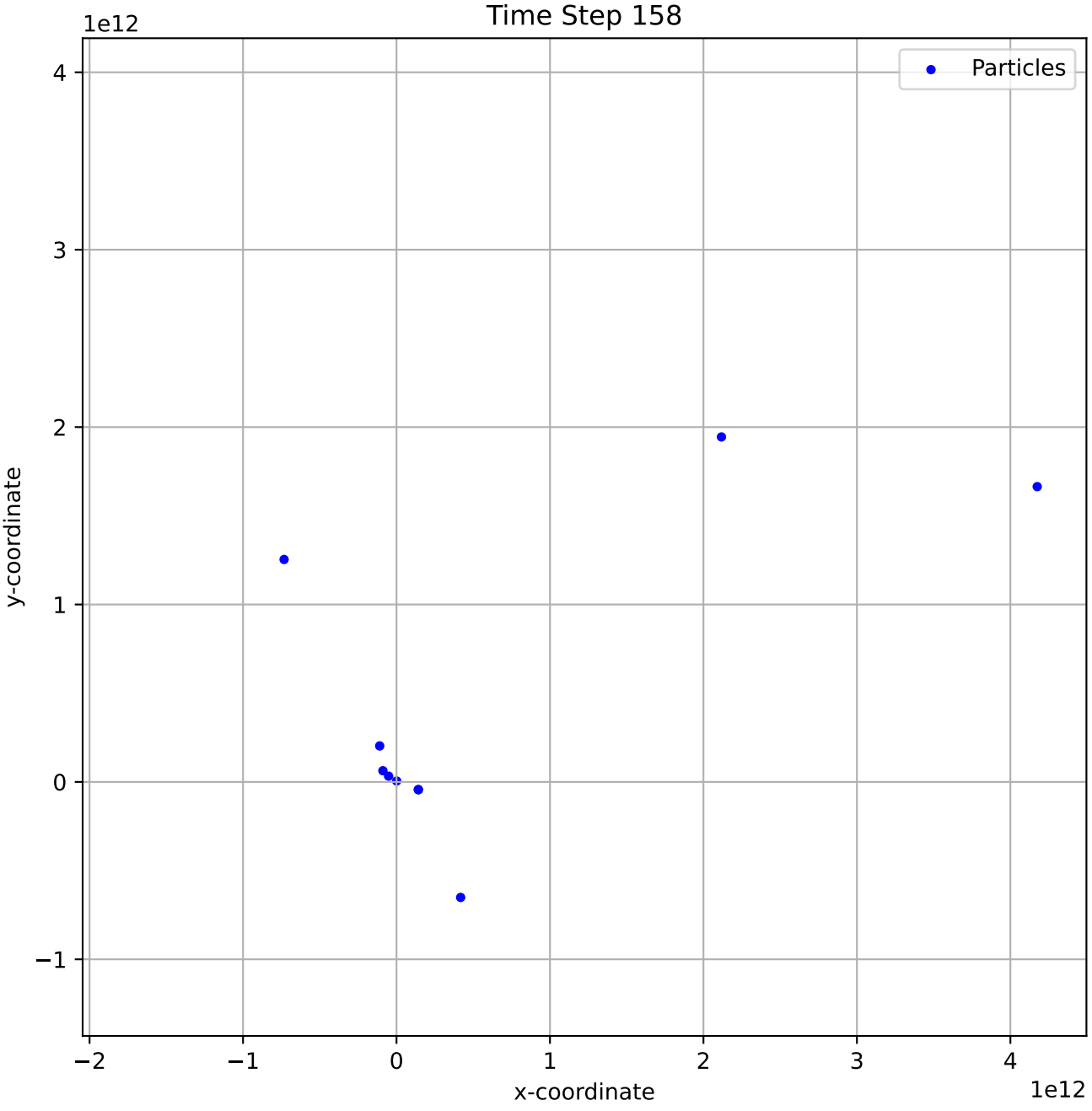

Time Step 153
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

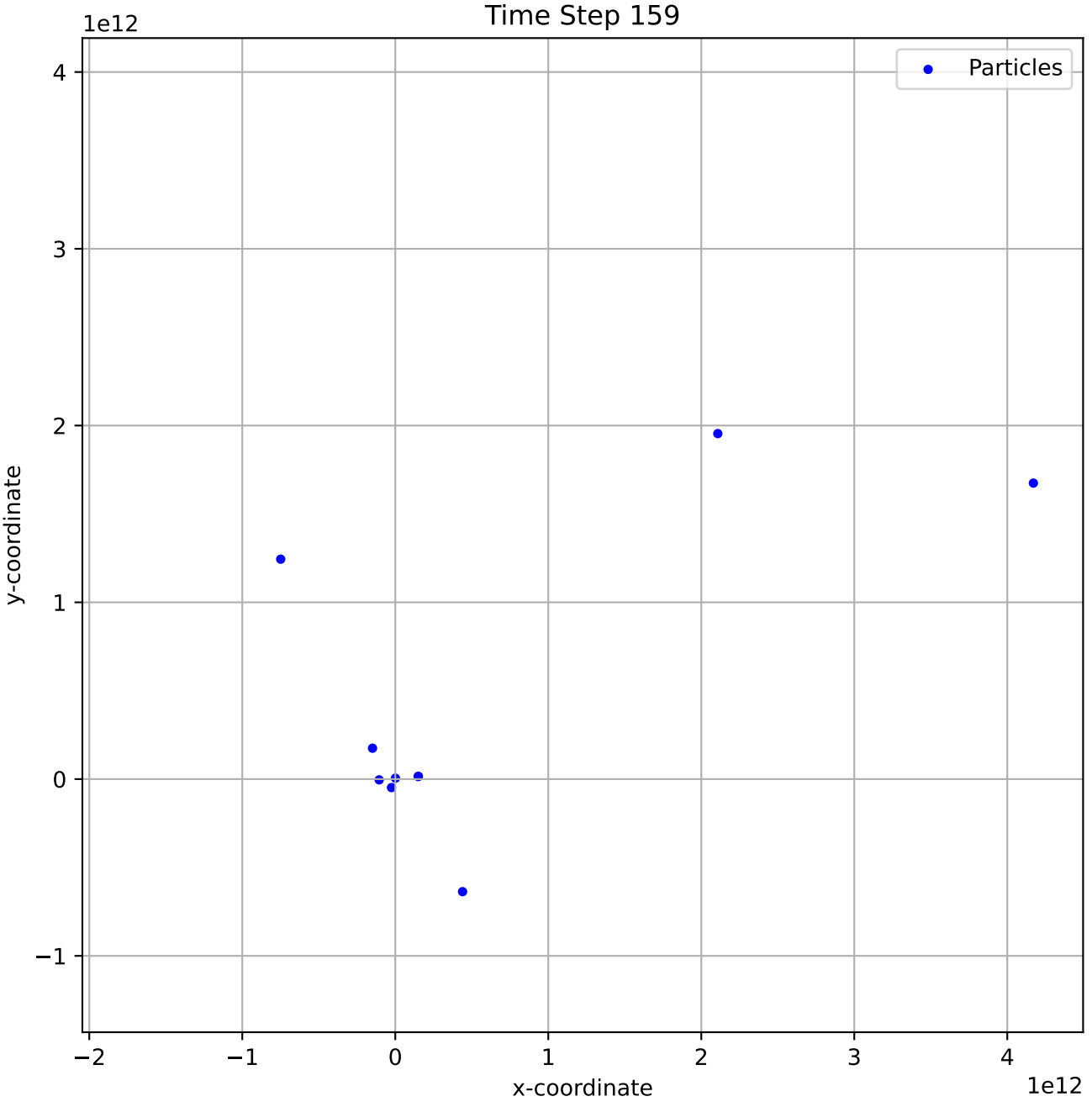

Time Step 154
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

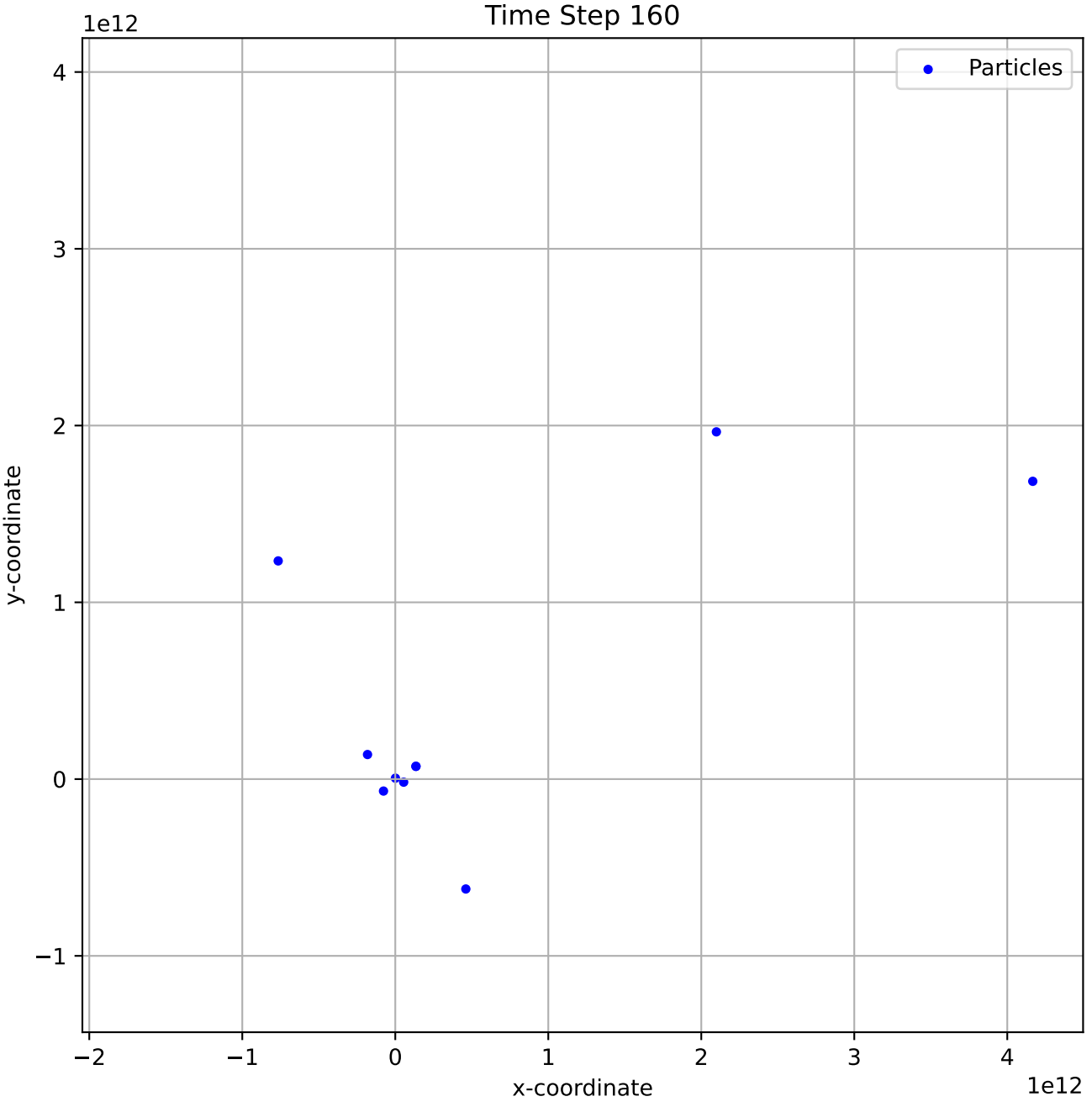

Time Step 155
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

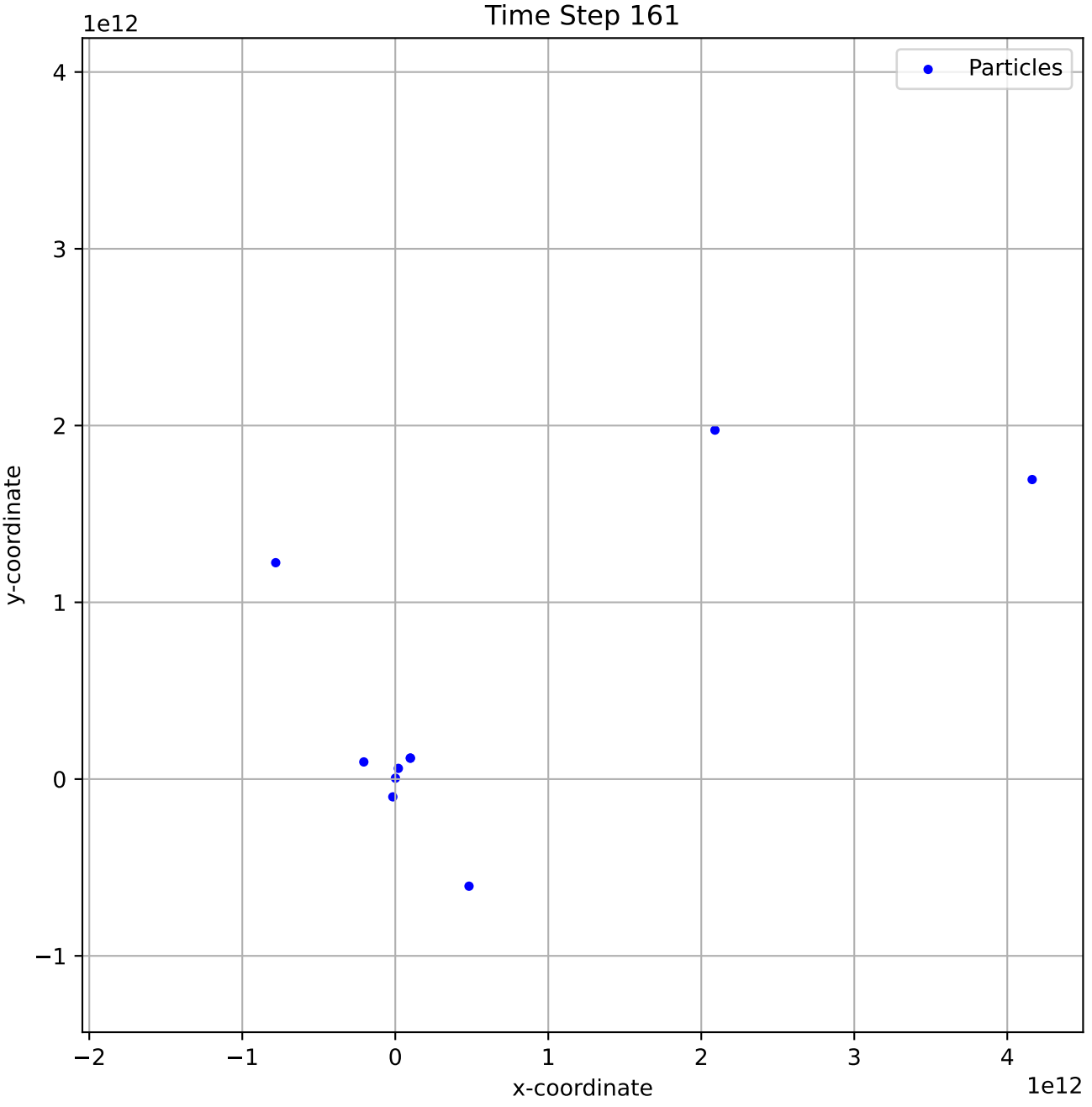

Time Step 156
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

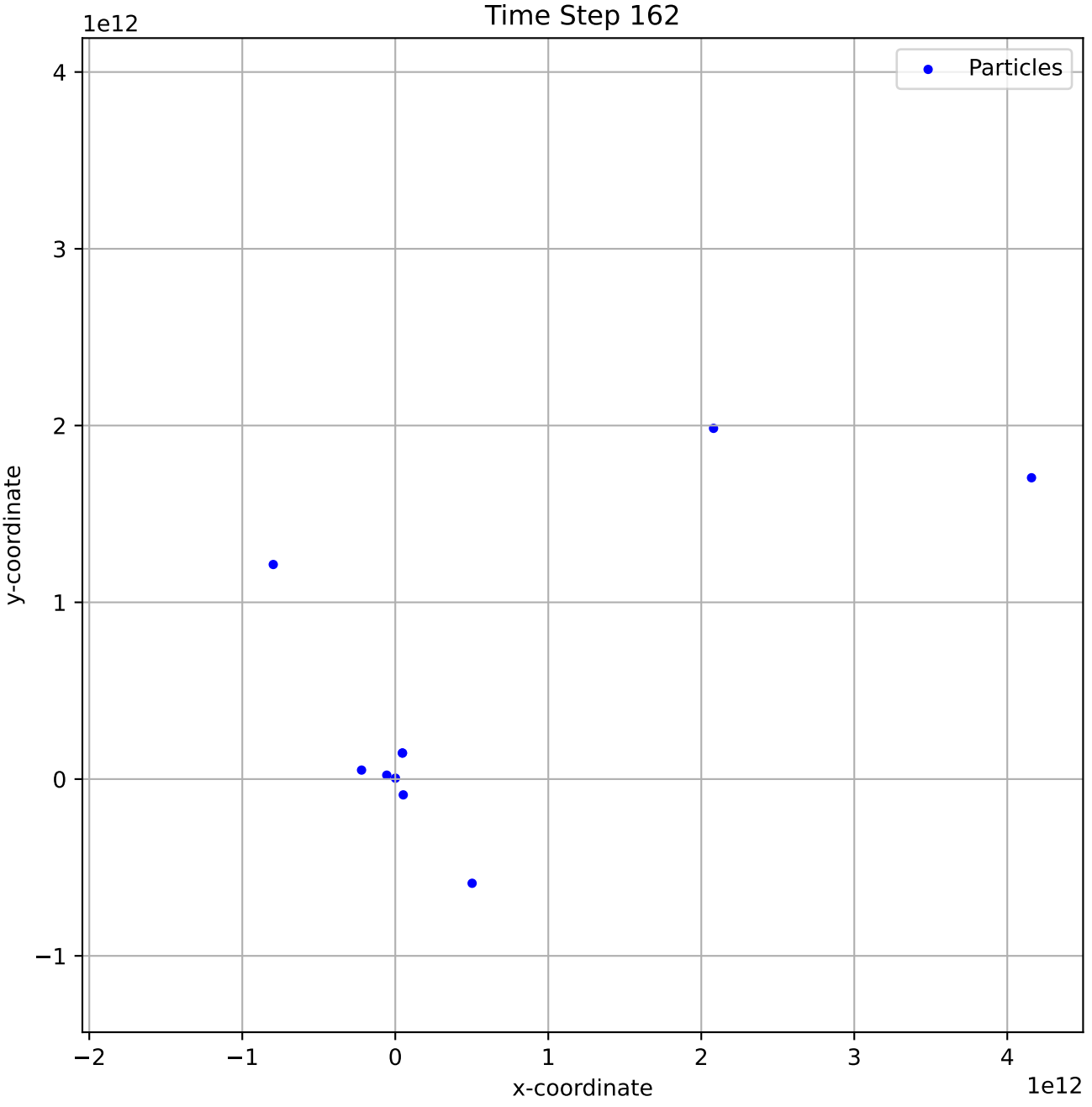

Time Step 157
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

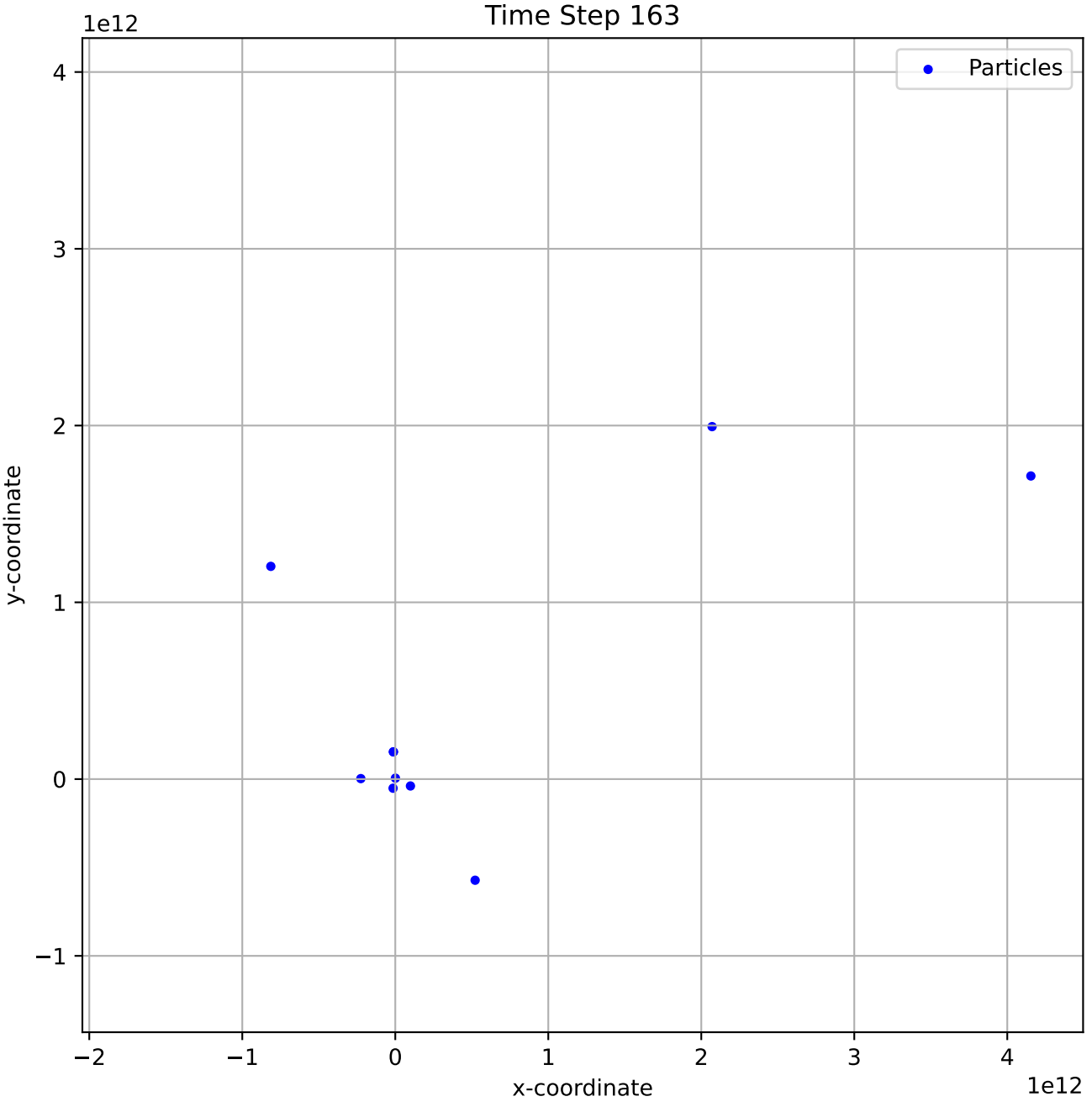

Time Step 158
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

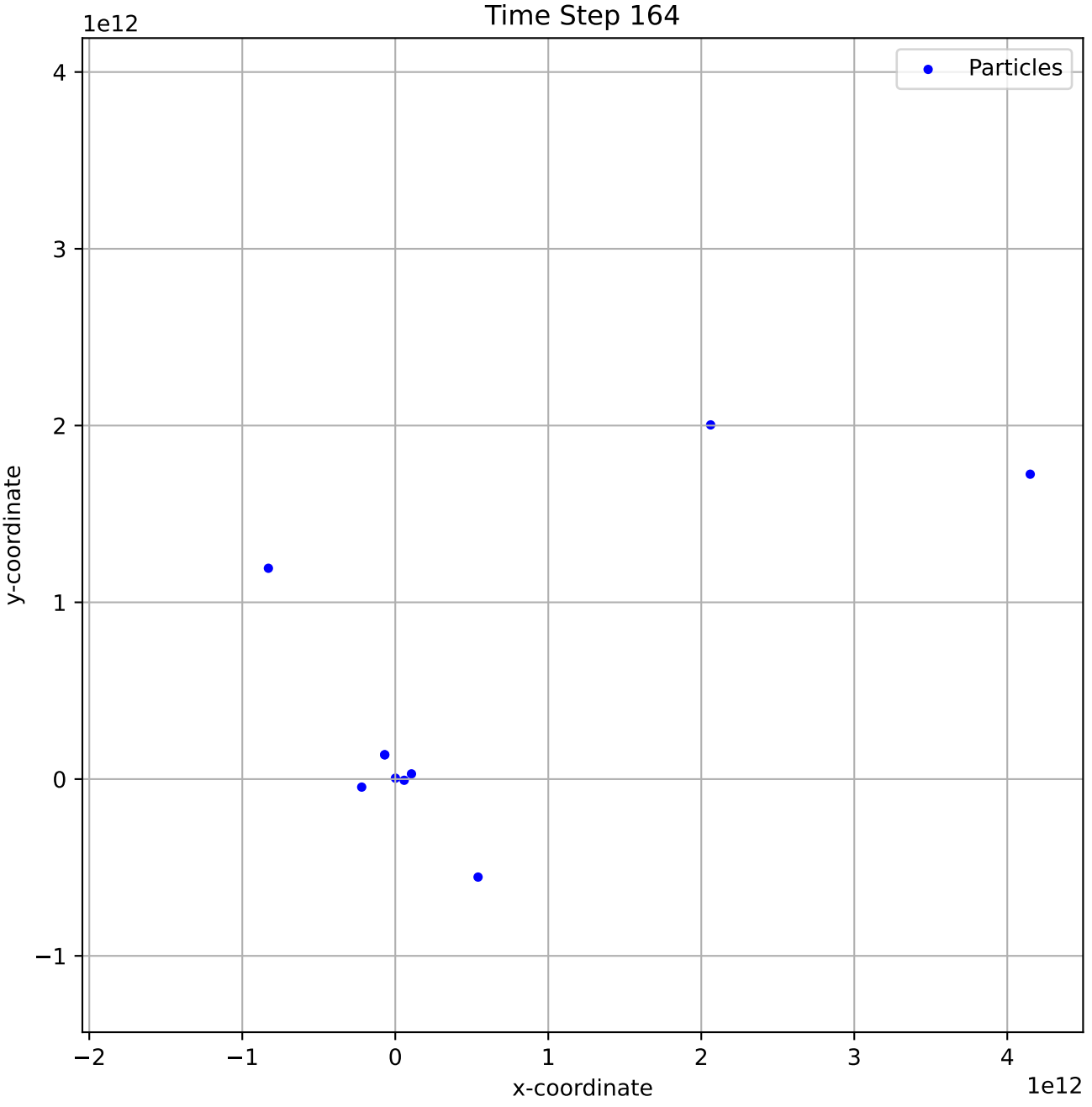

Time Step 159
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

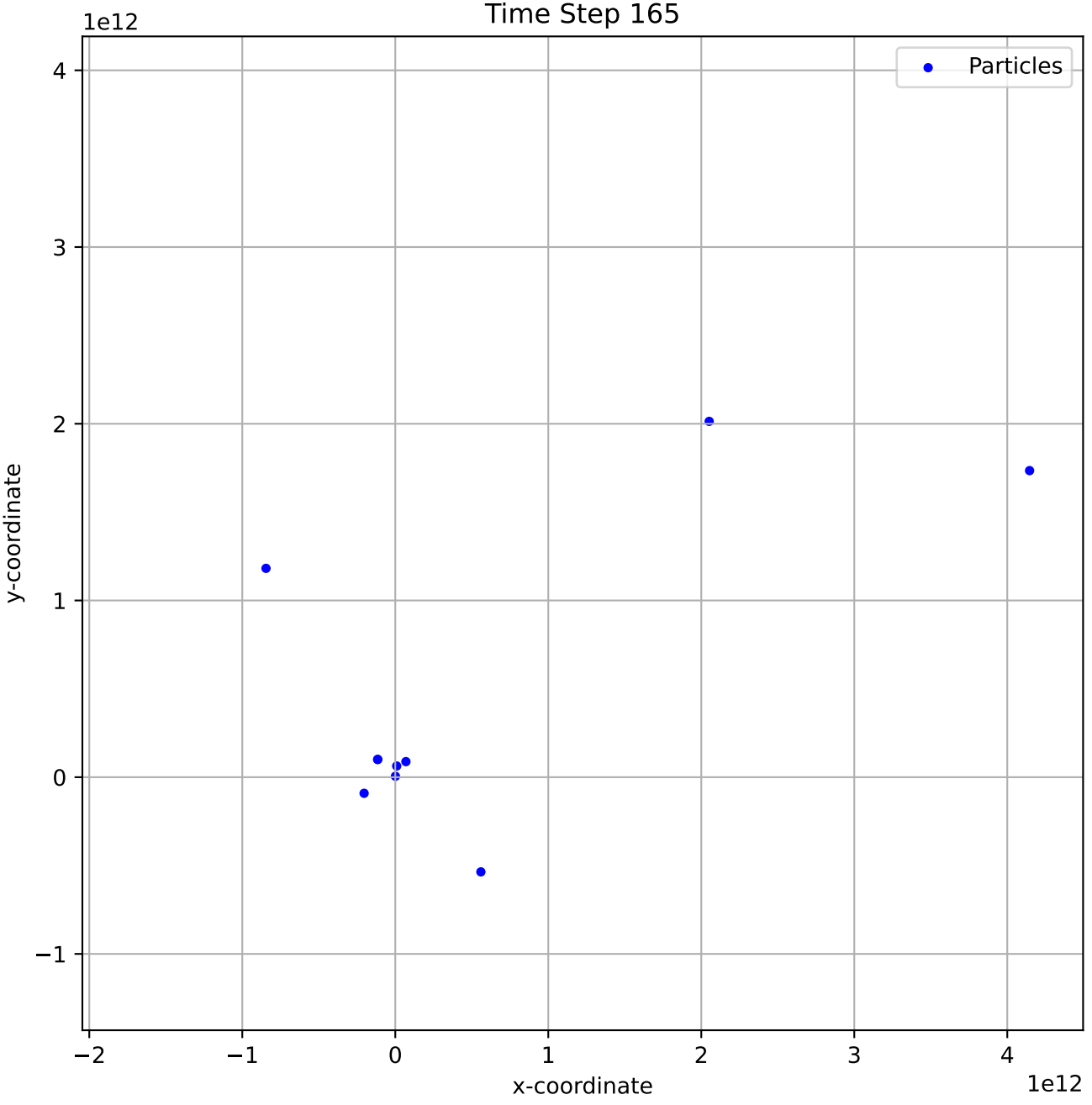

Time Step 160
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

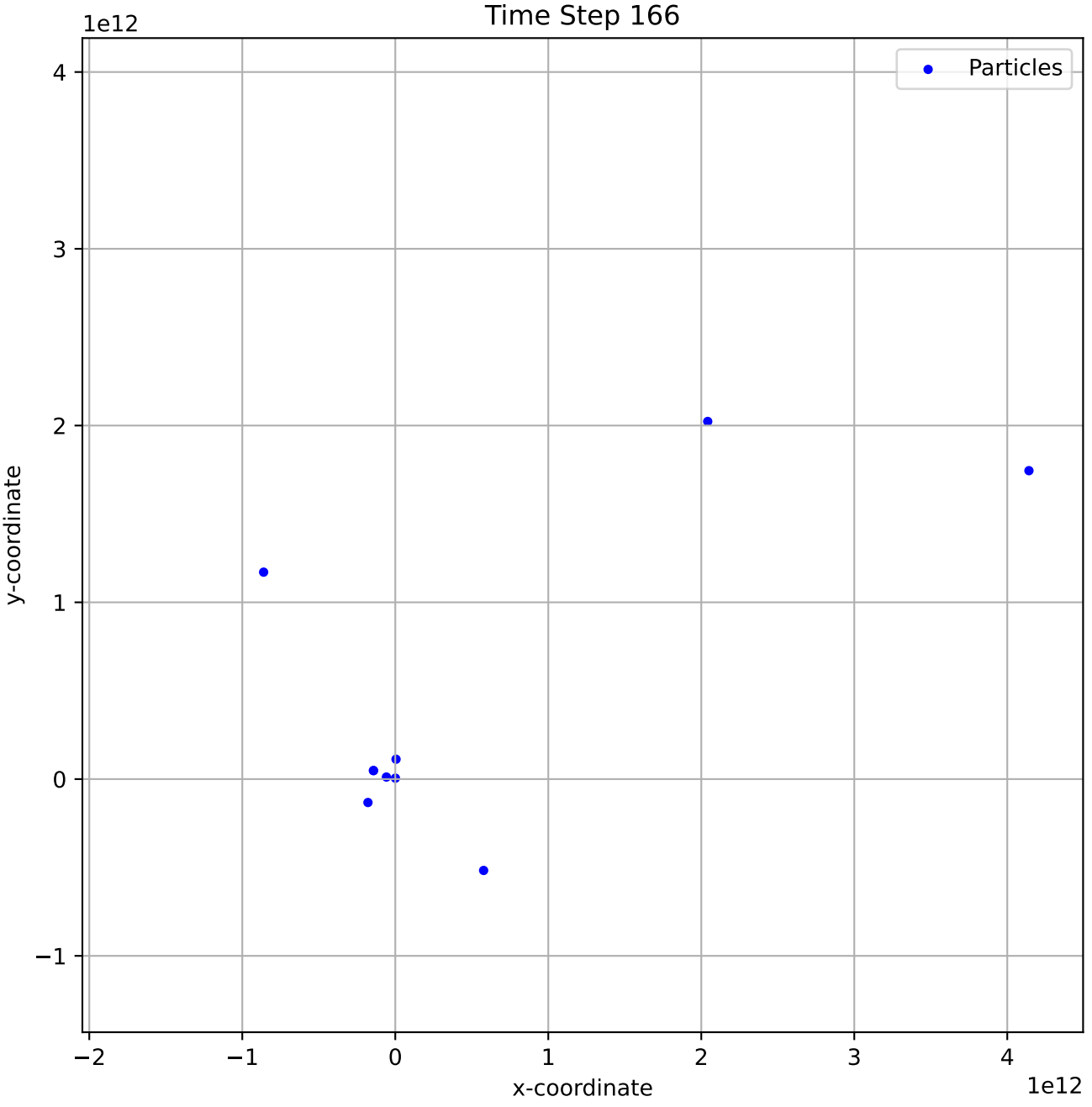

Time Step 161
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

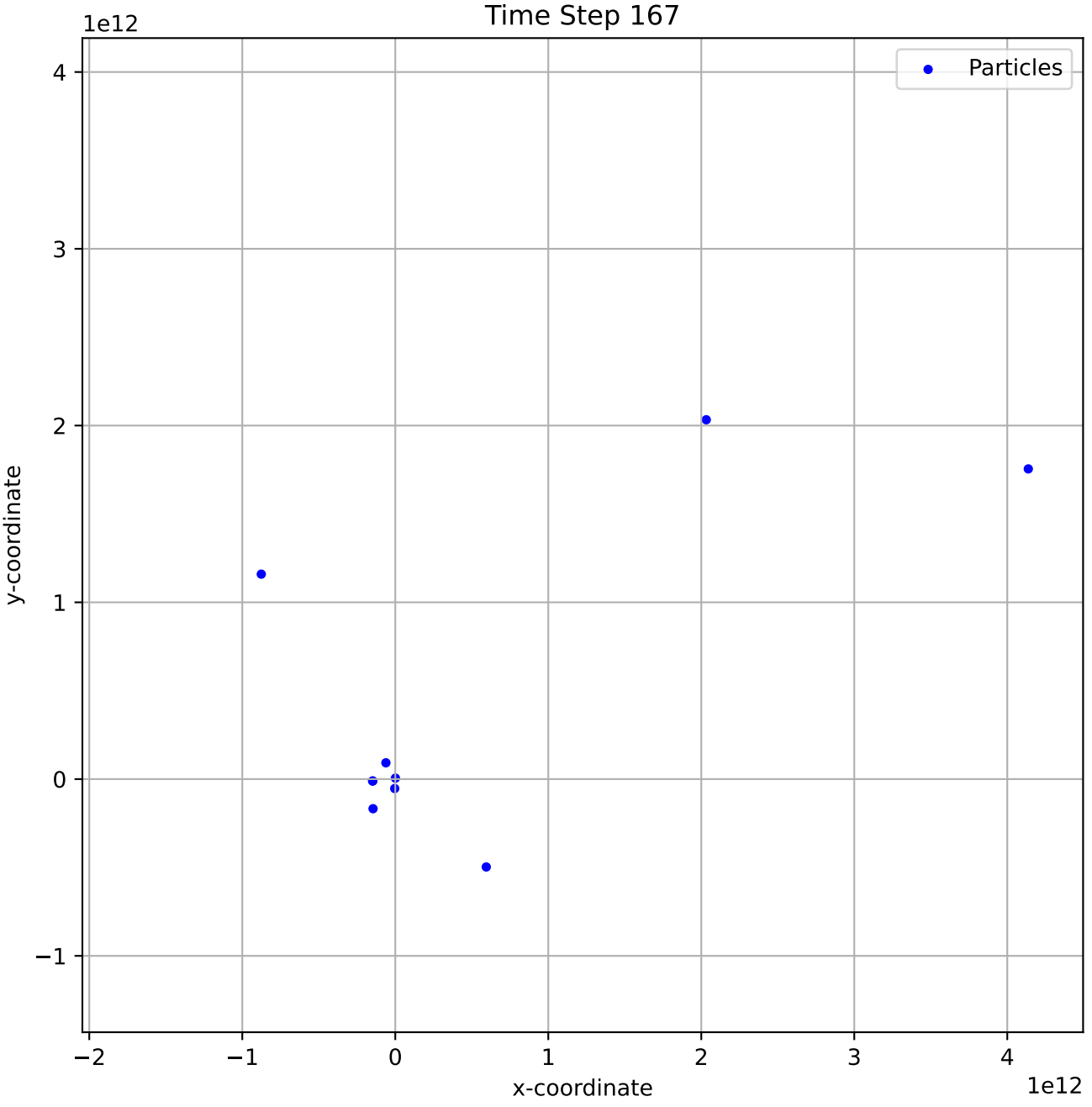

Time Step 162
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

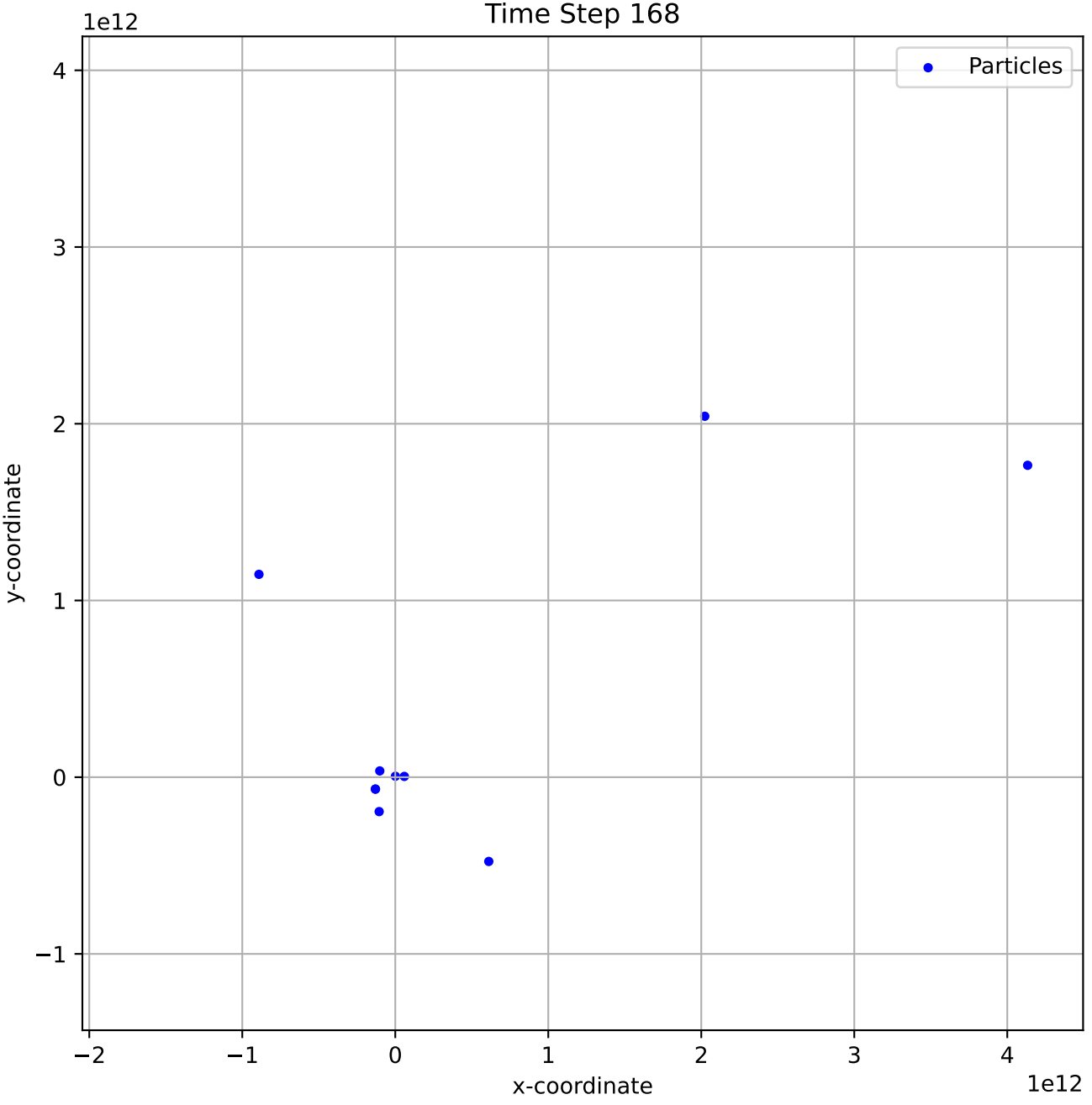

Time Step 163
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

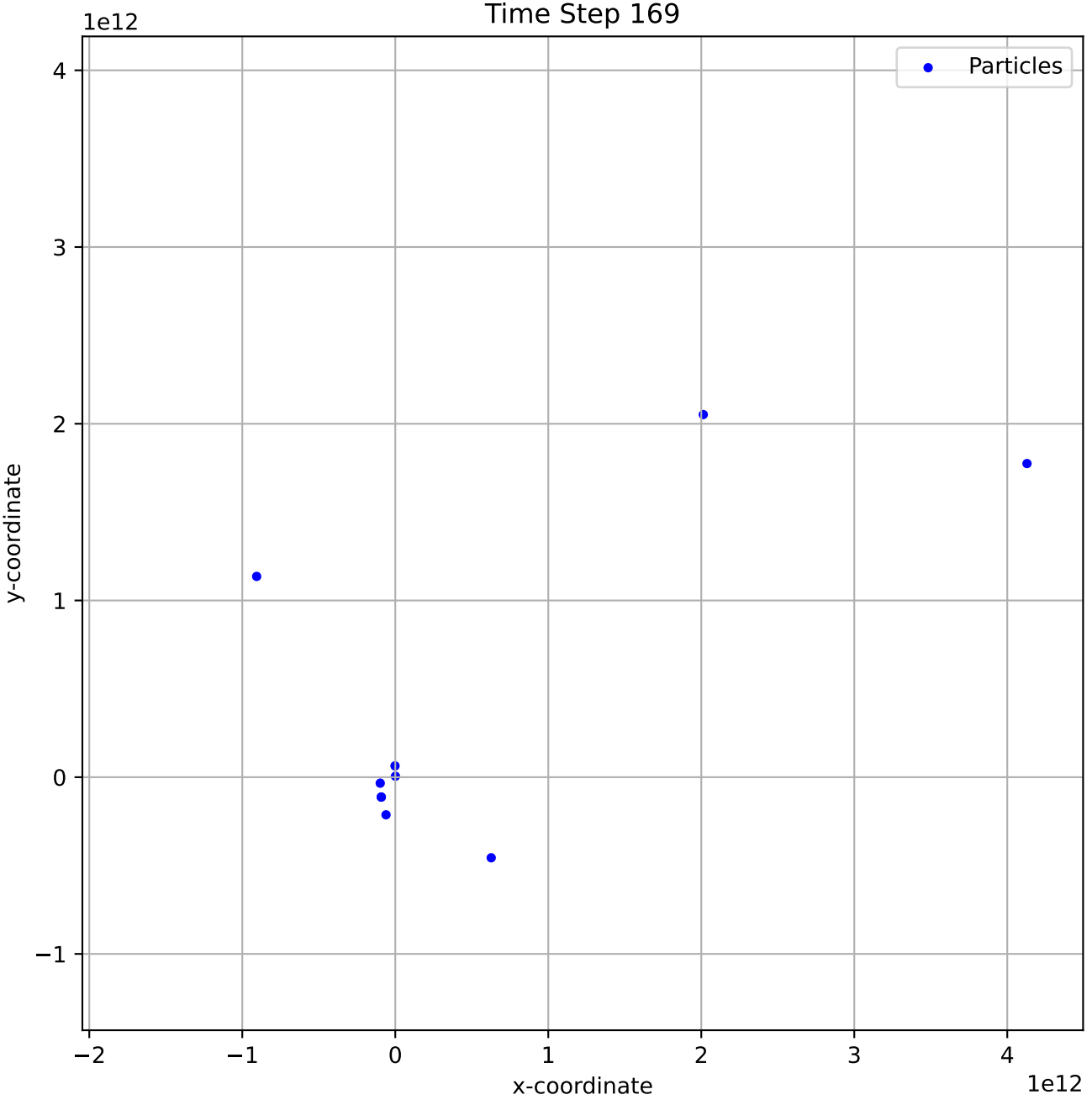

Time Step 164
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

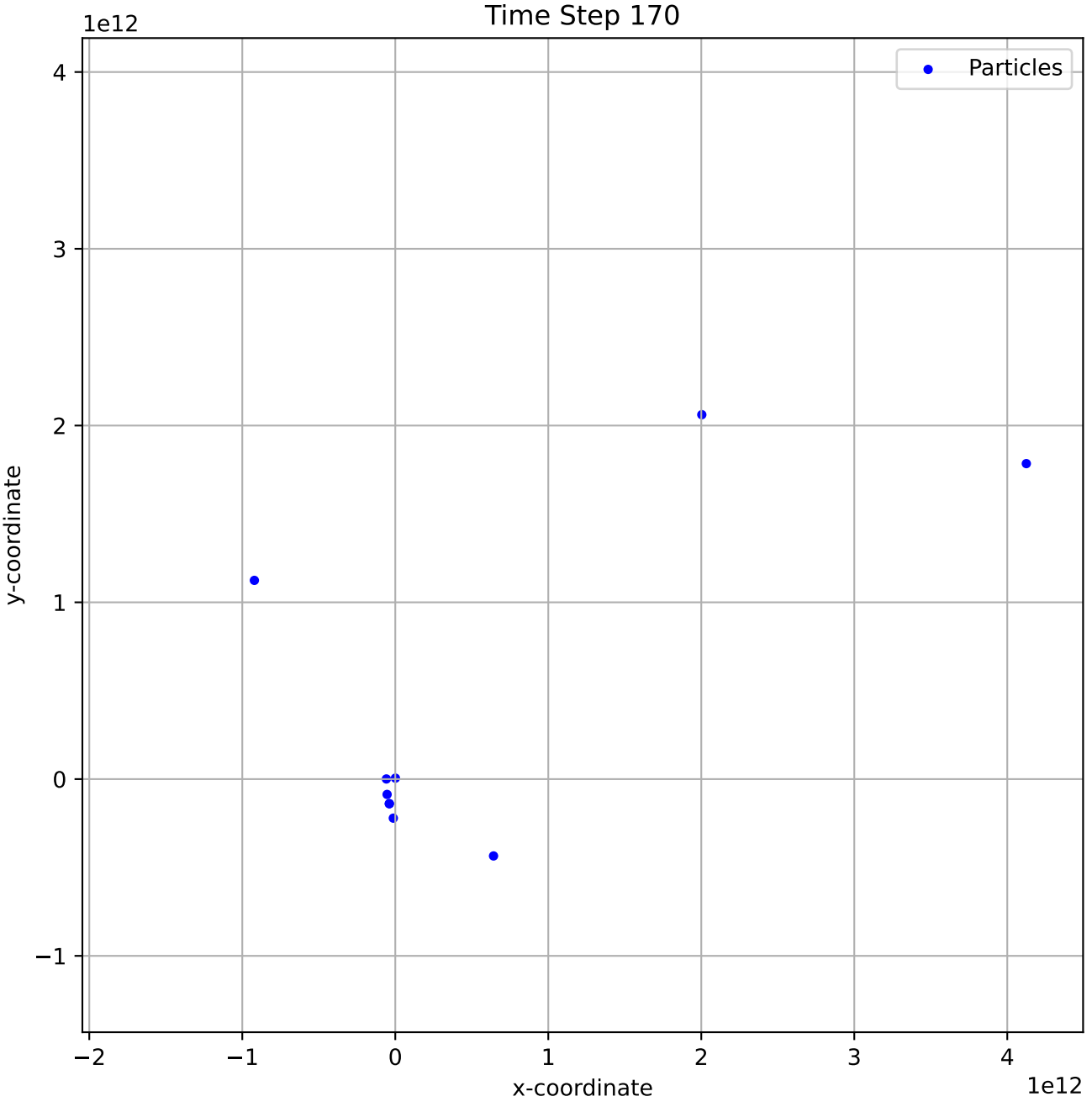

Time Step 165
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

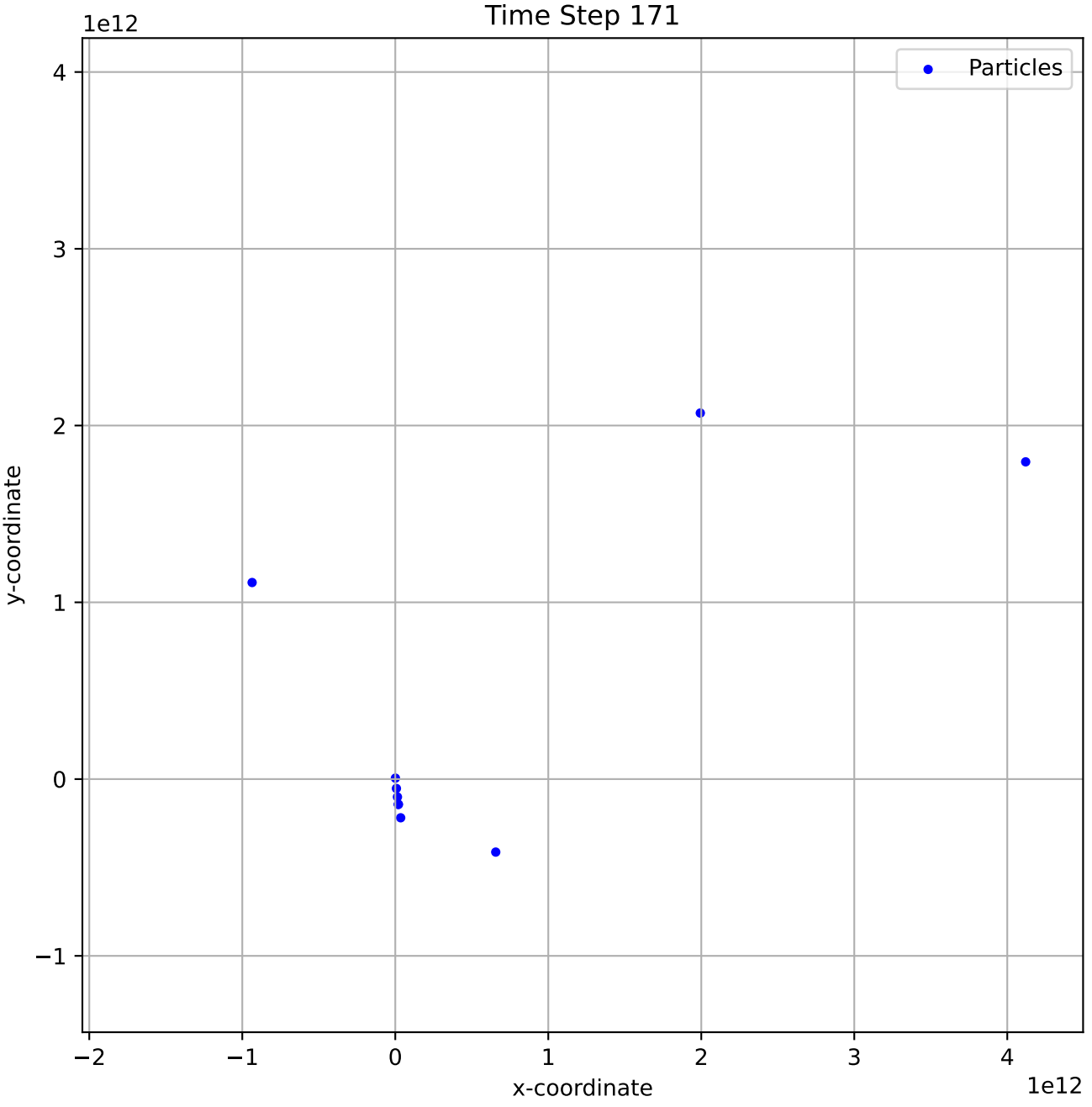

Time Step 166
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

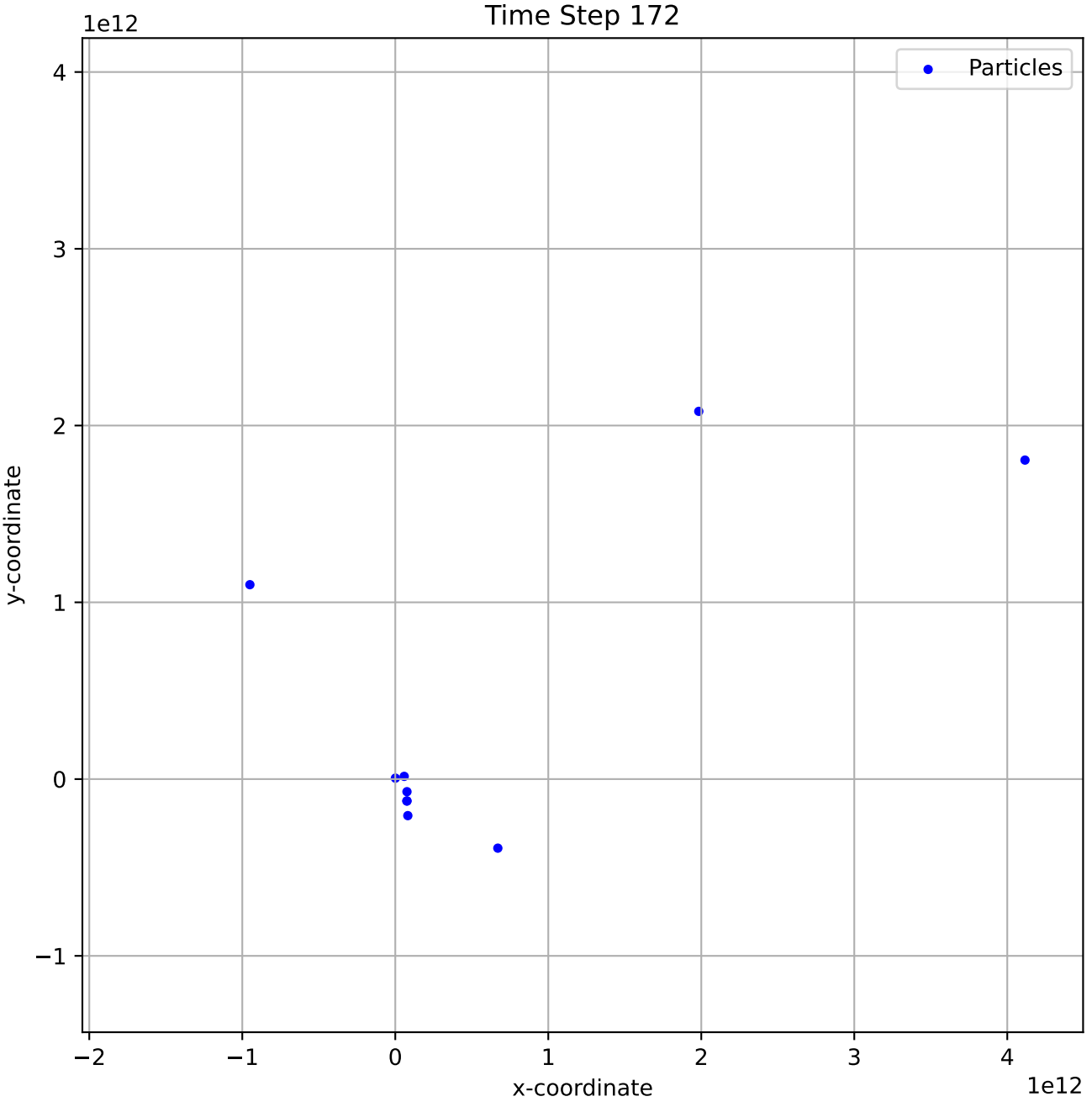

Time Step 167
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

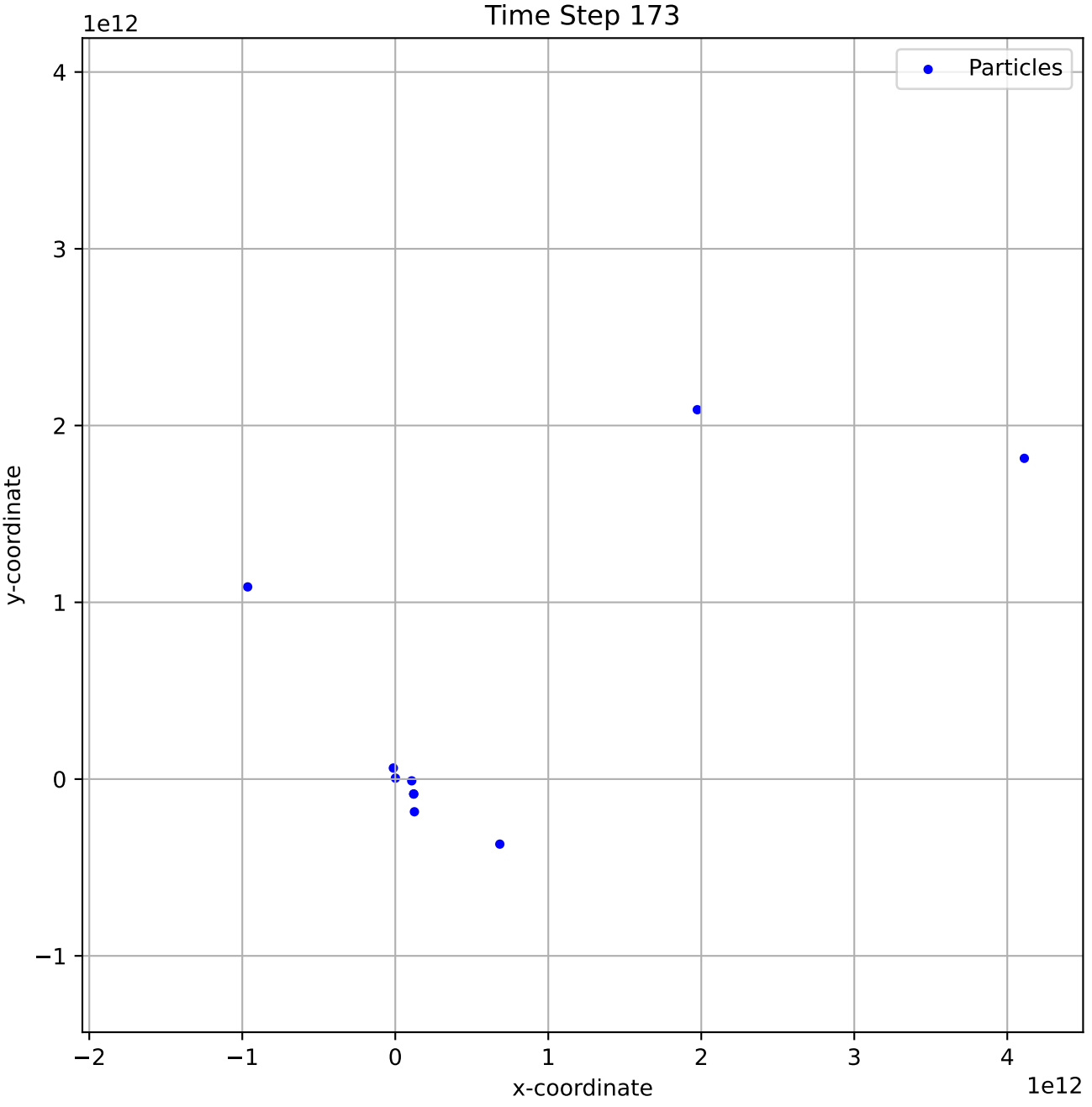

Time Step 168
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

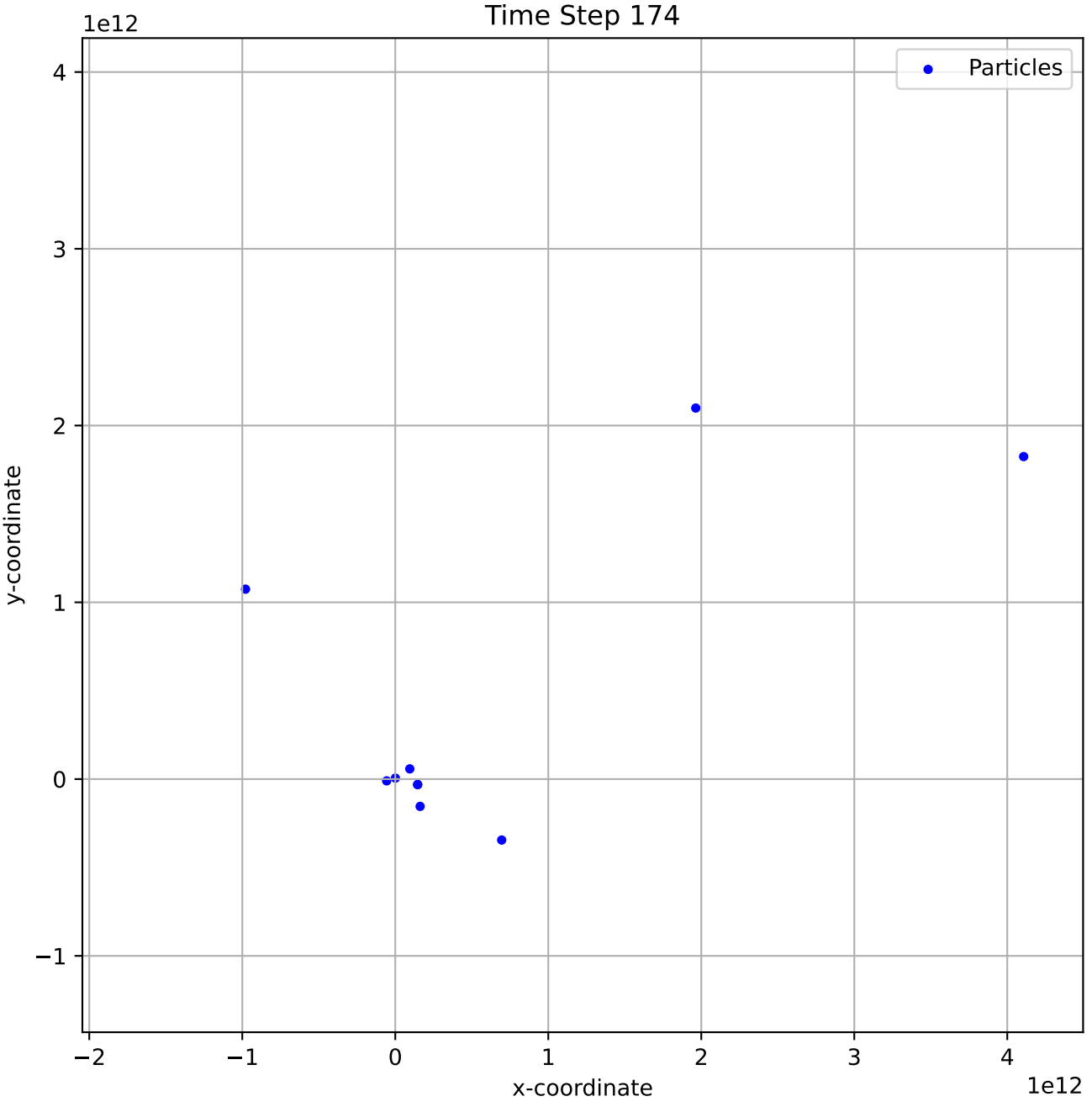

Time Step 169
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

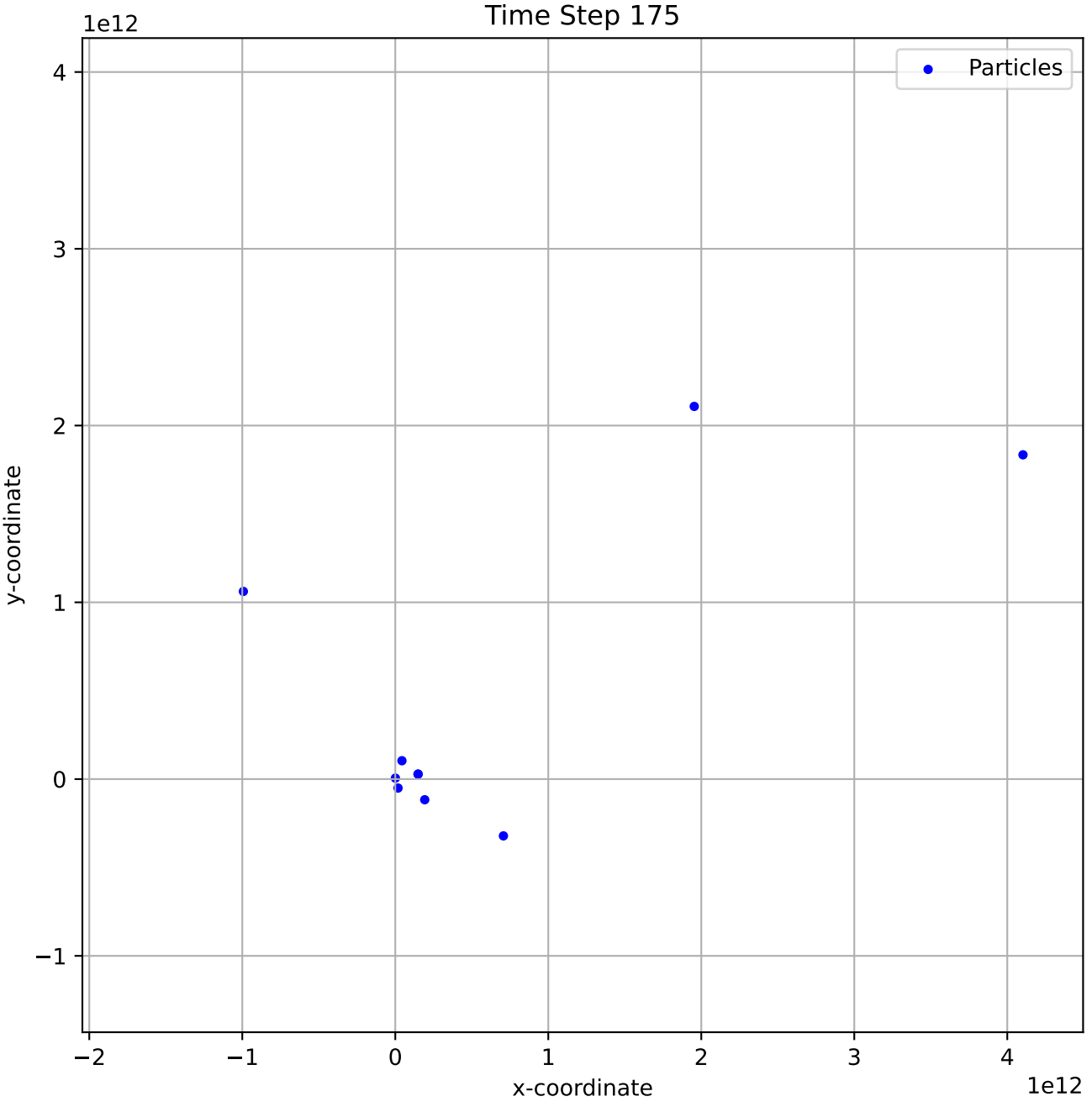

Time Step 170
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

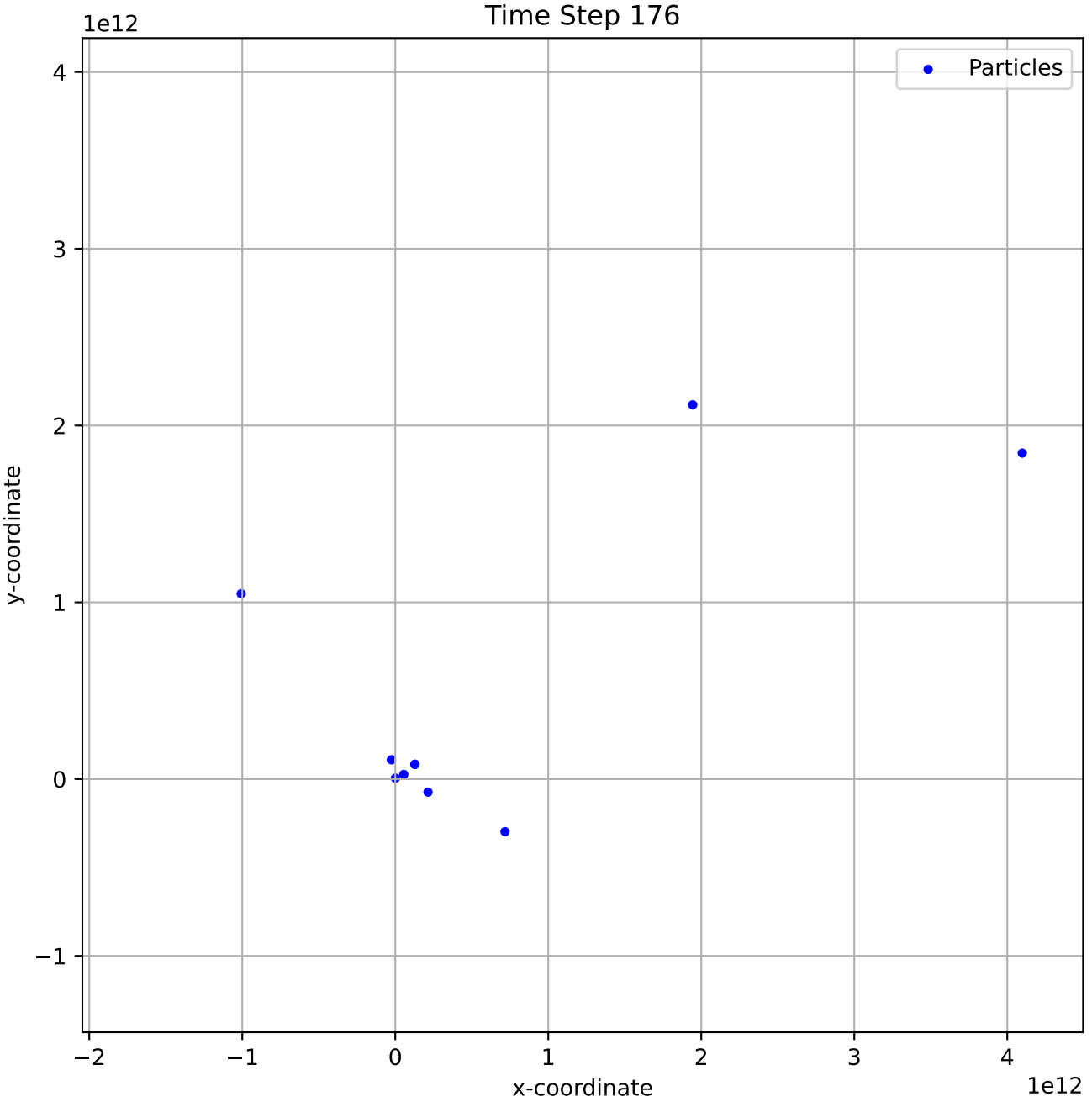

Time Step 171
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

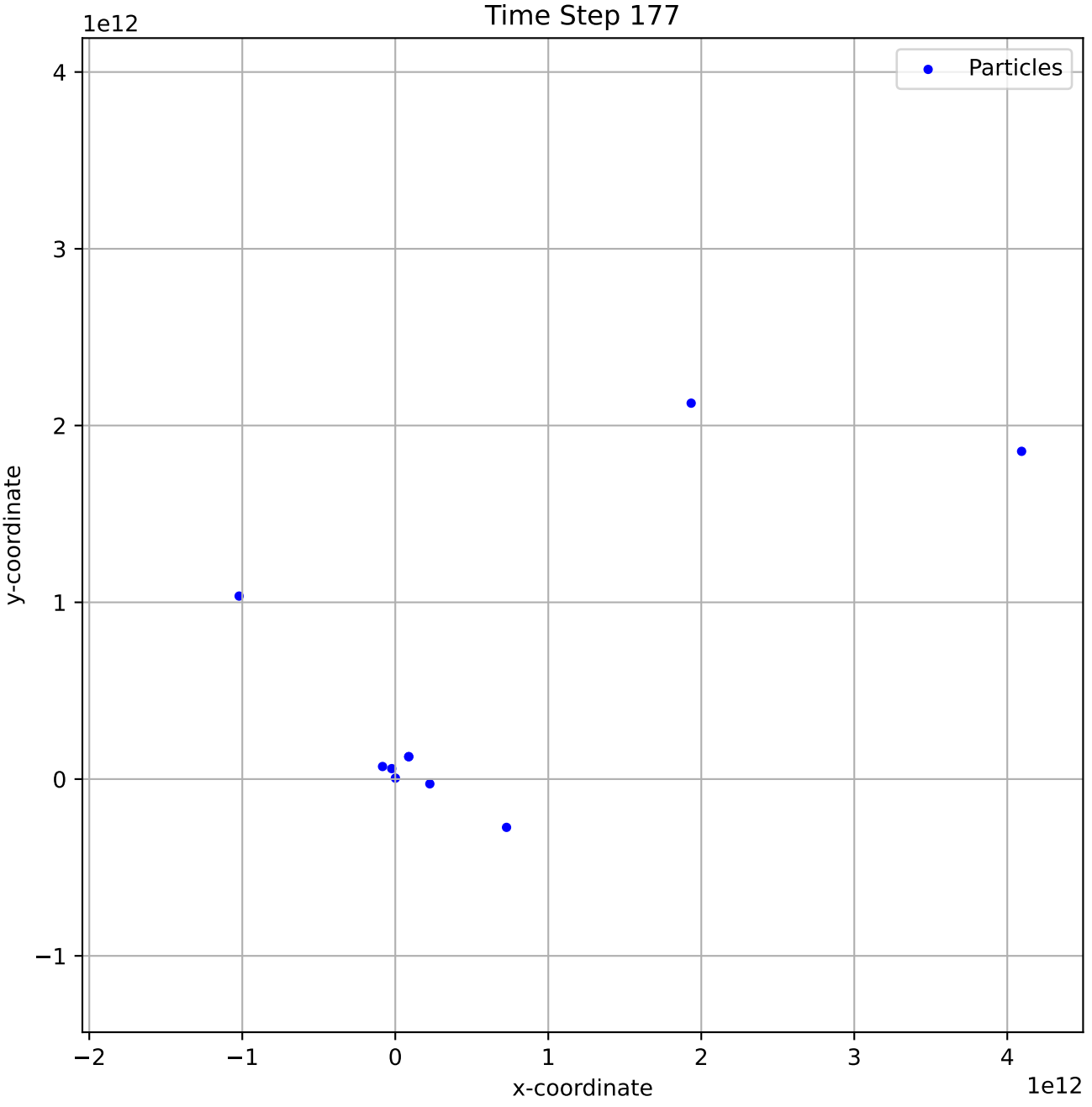

Time Step 172
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

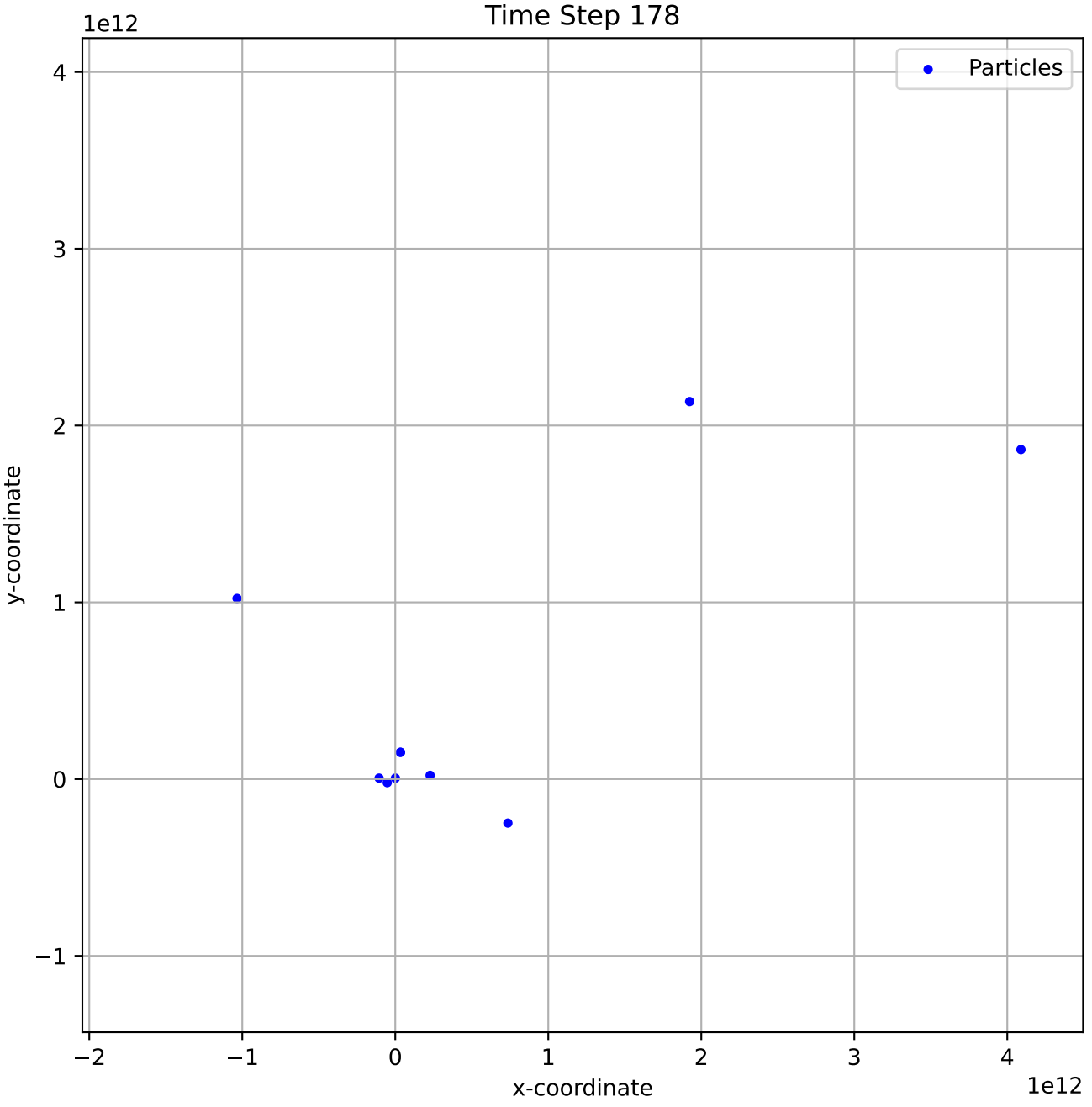

Time Step 173
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

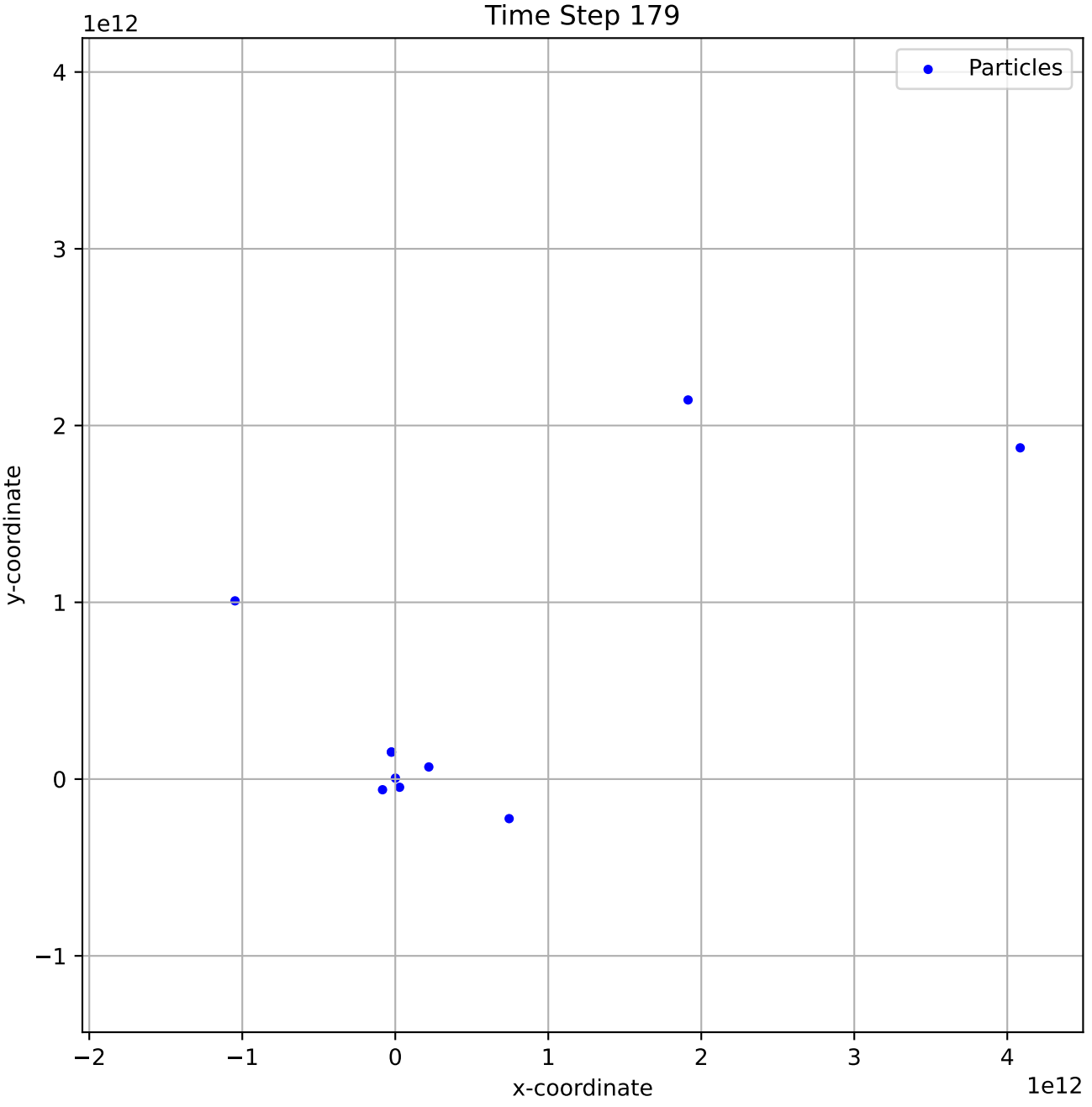

Time Step 174
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

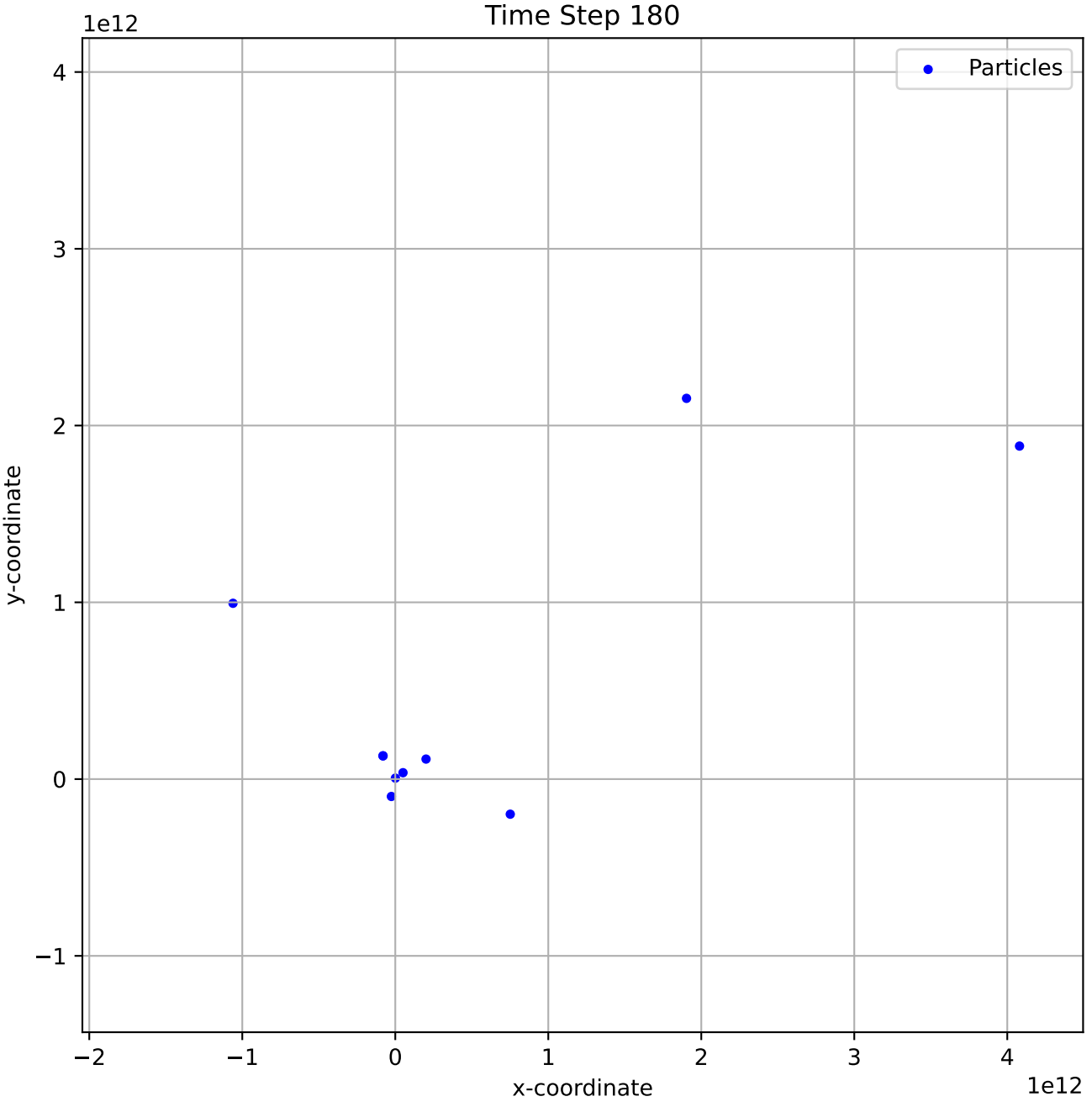

Time Step 175
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

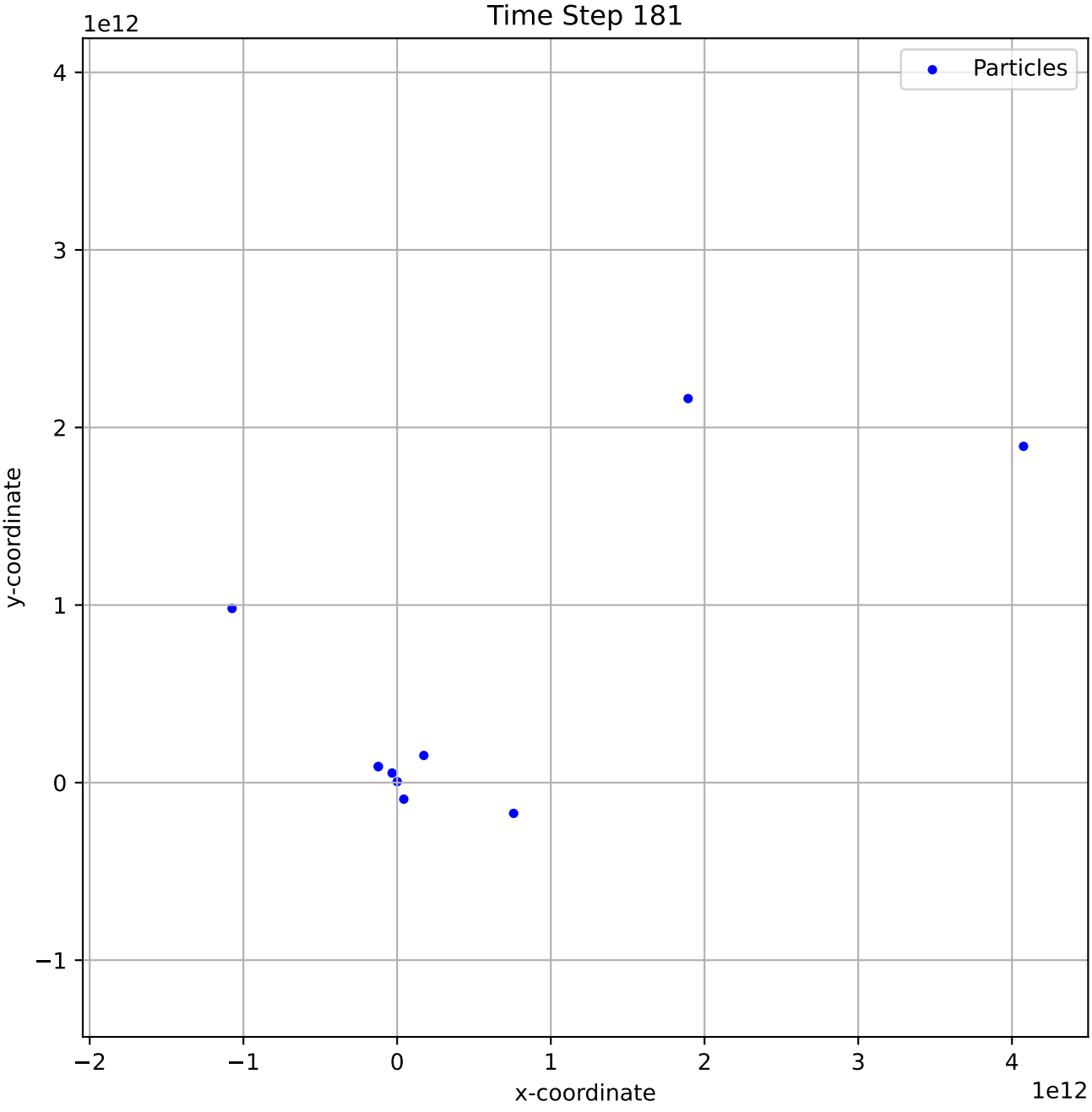

Time Step 176
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

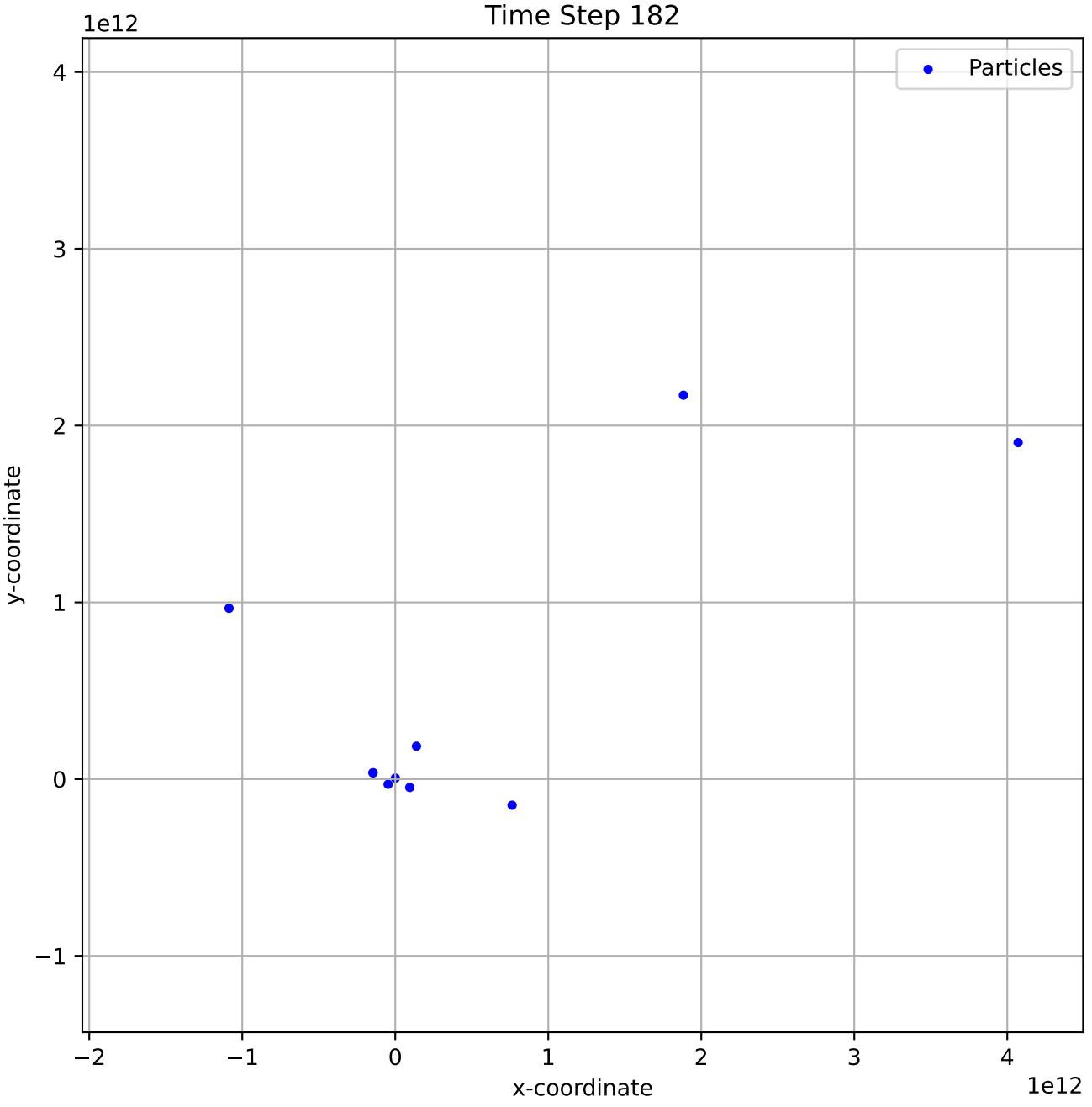

Time Step 177
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

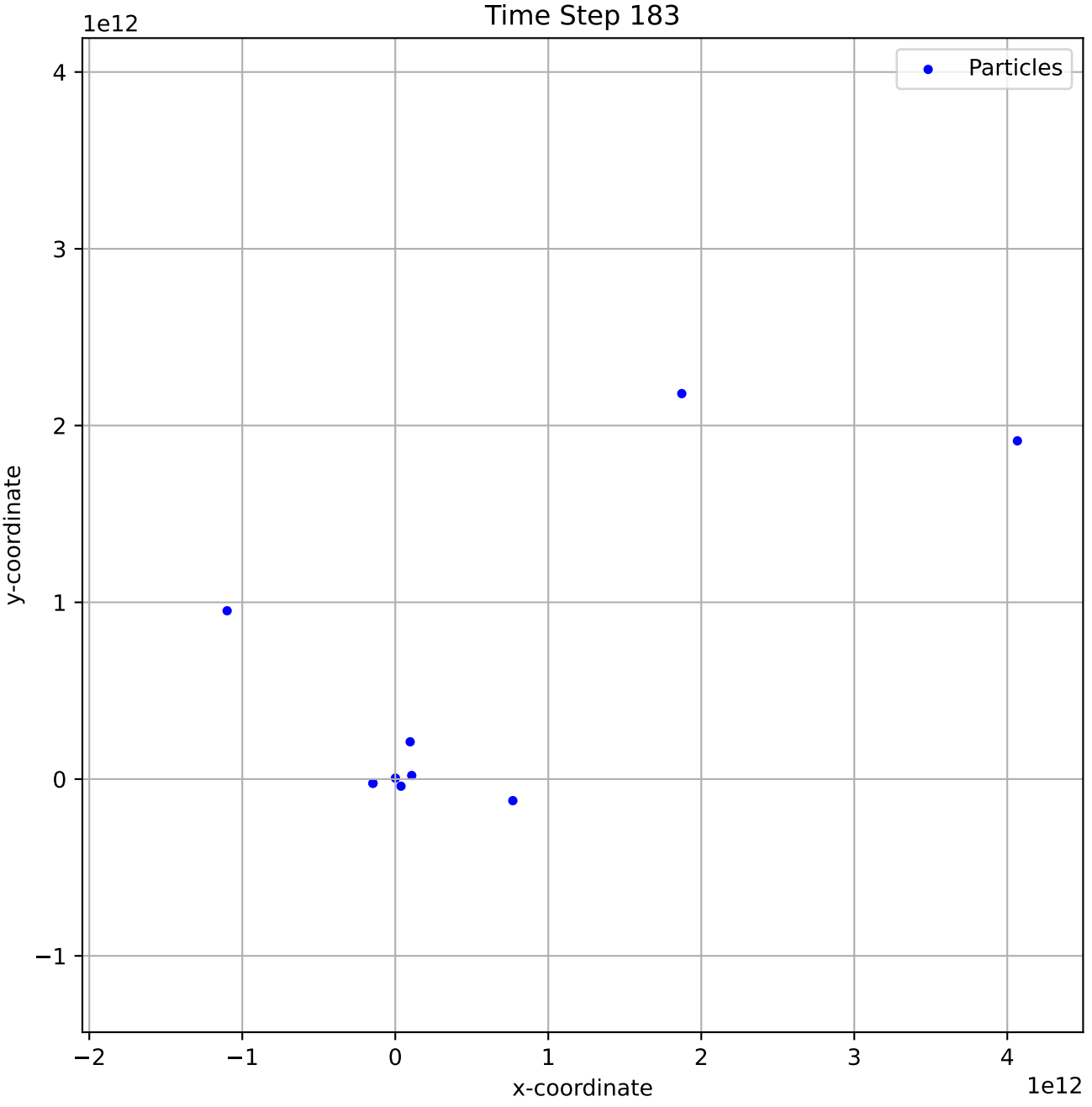

Time Step 178
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

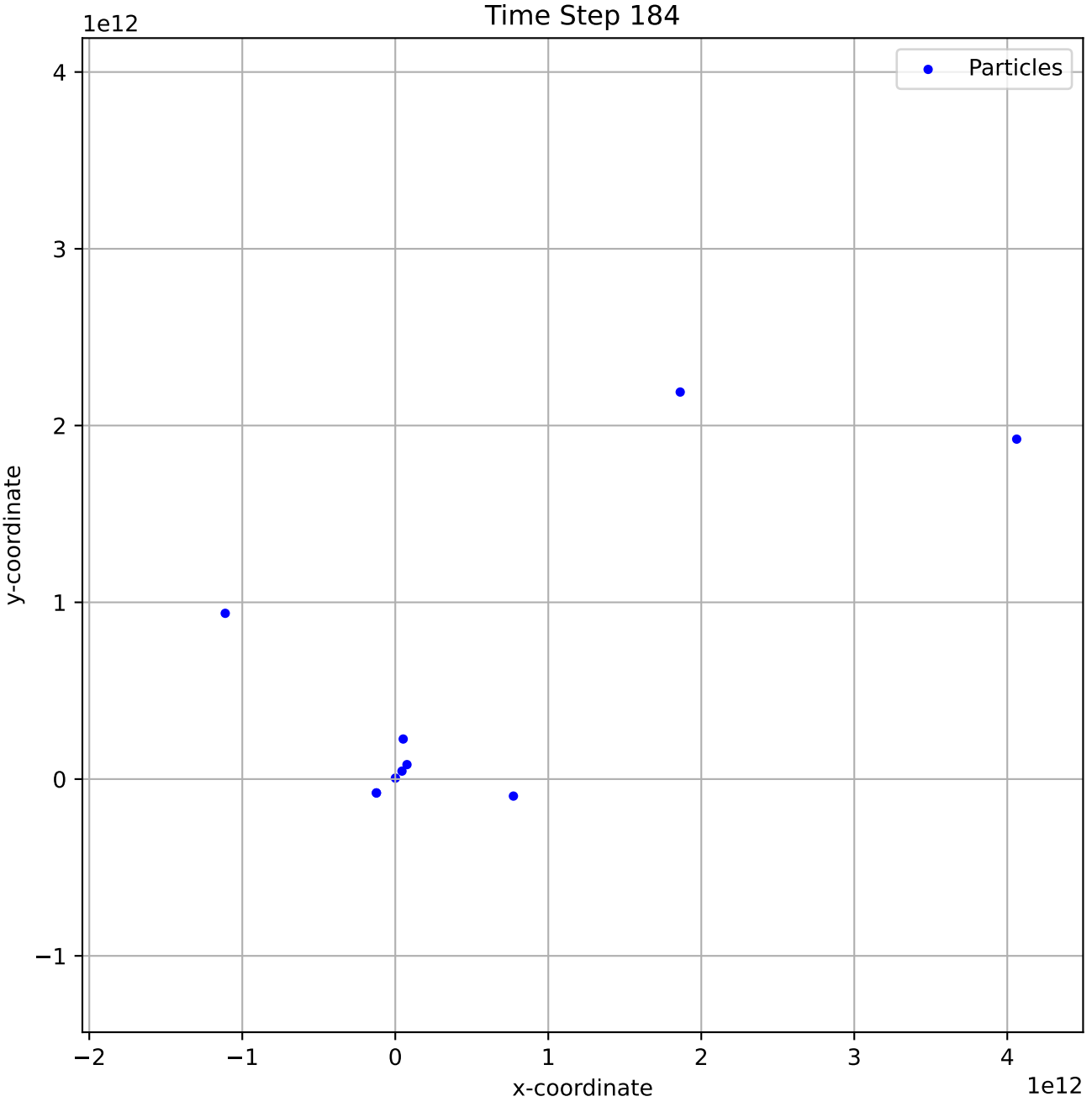

Time Step 179
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

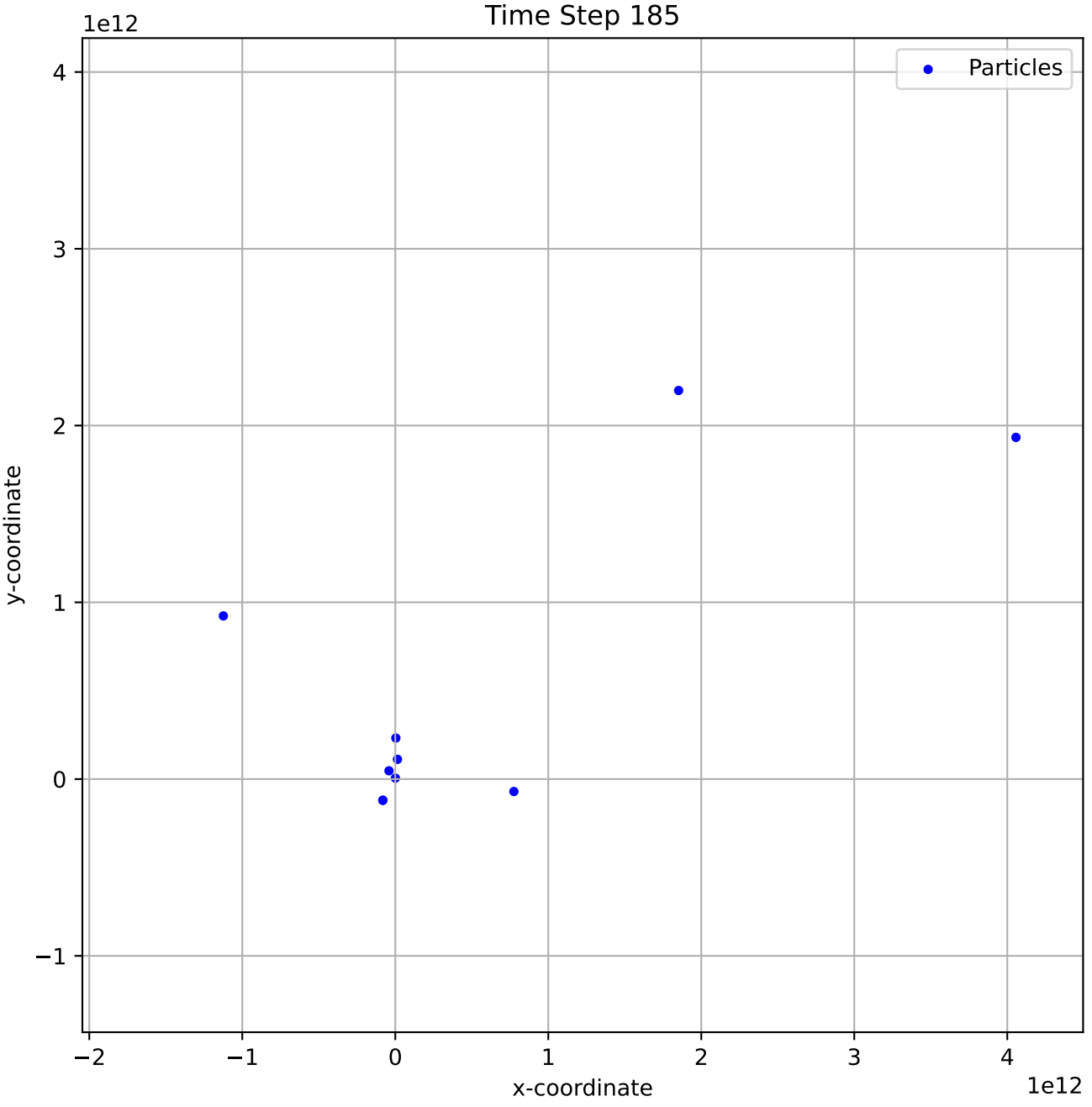

Time Step 180
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

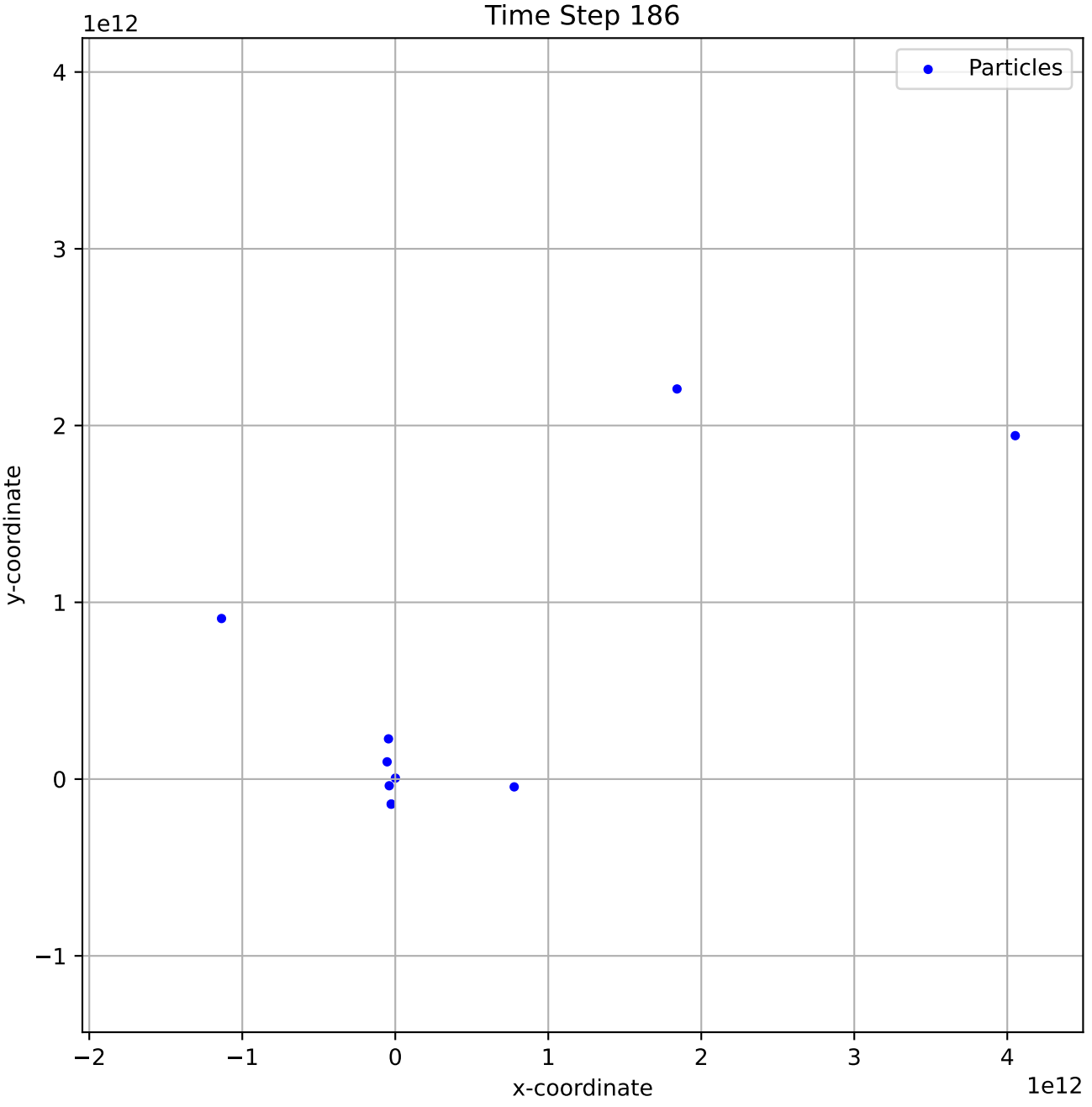

Time Step 181
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

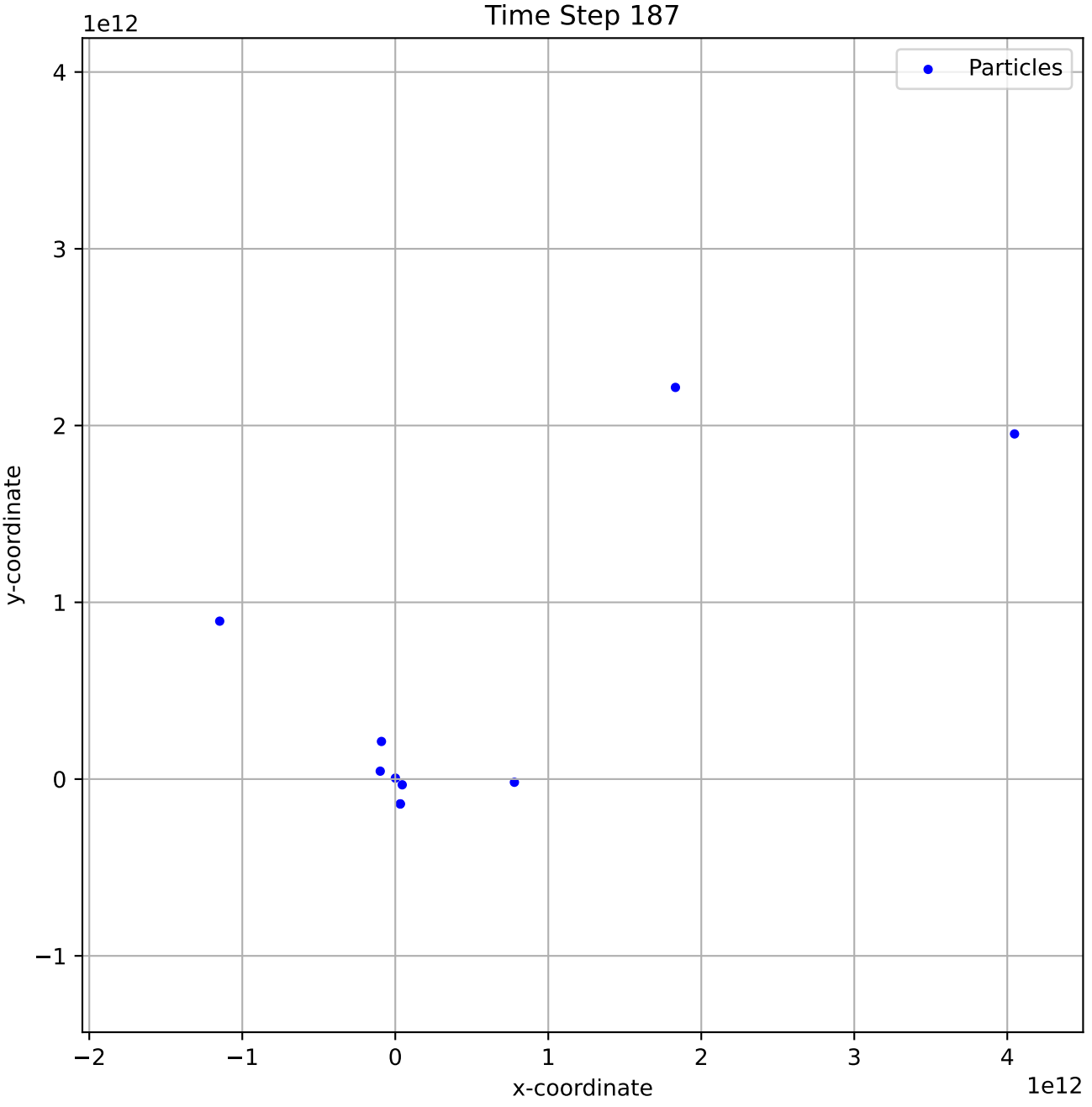

Time Step 182
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

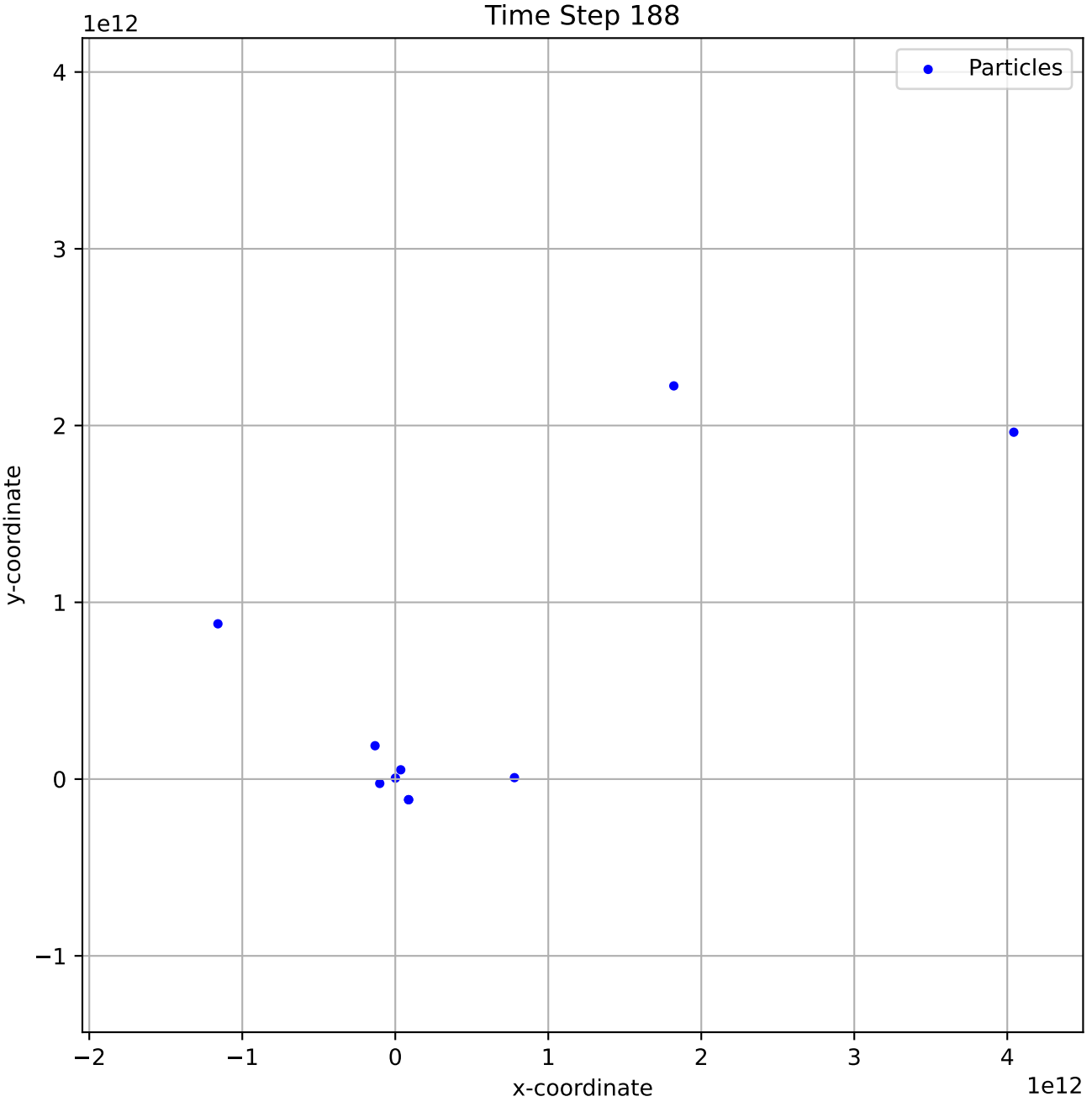

Time Step 183
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

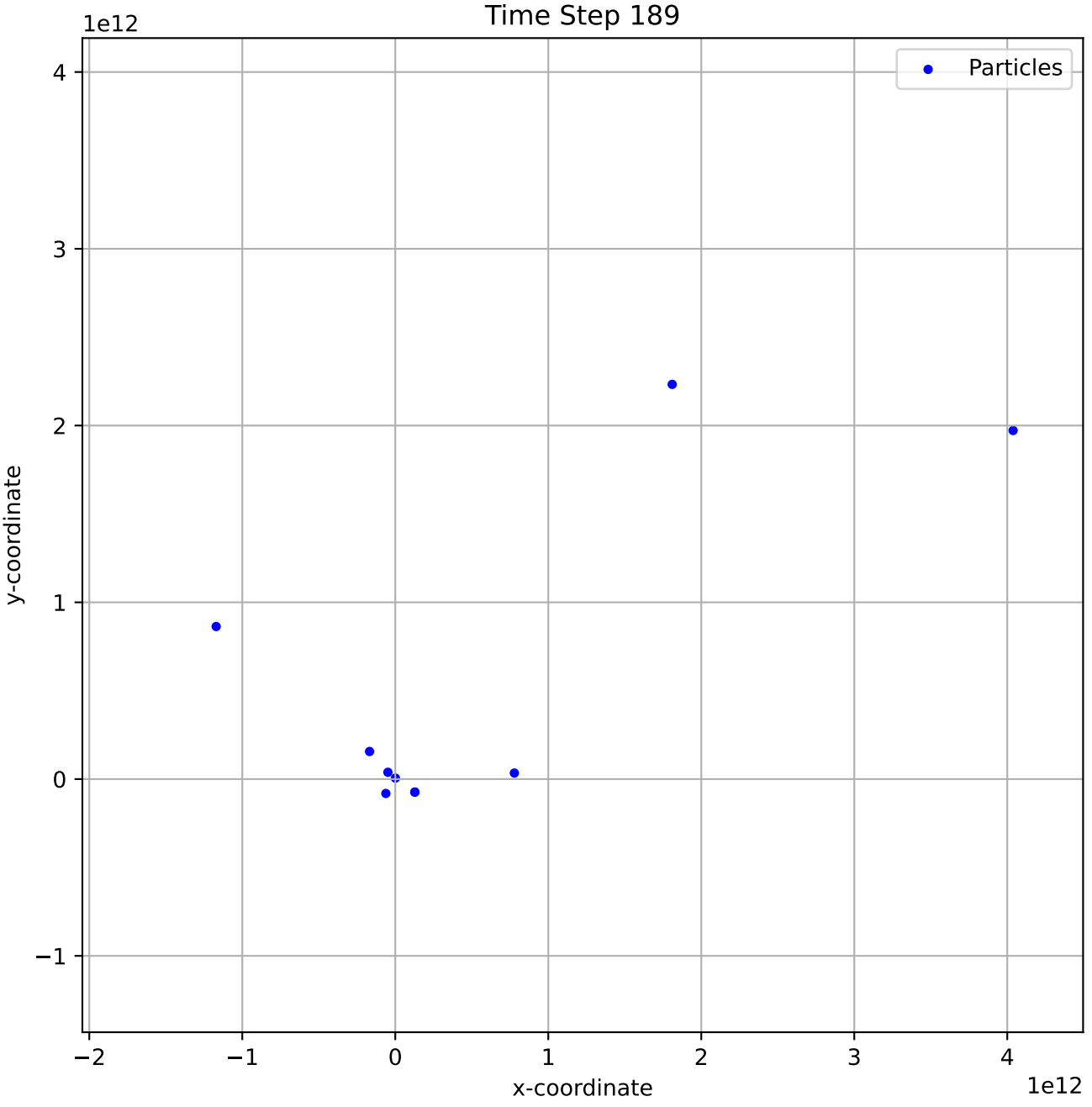

Time Step 184
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

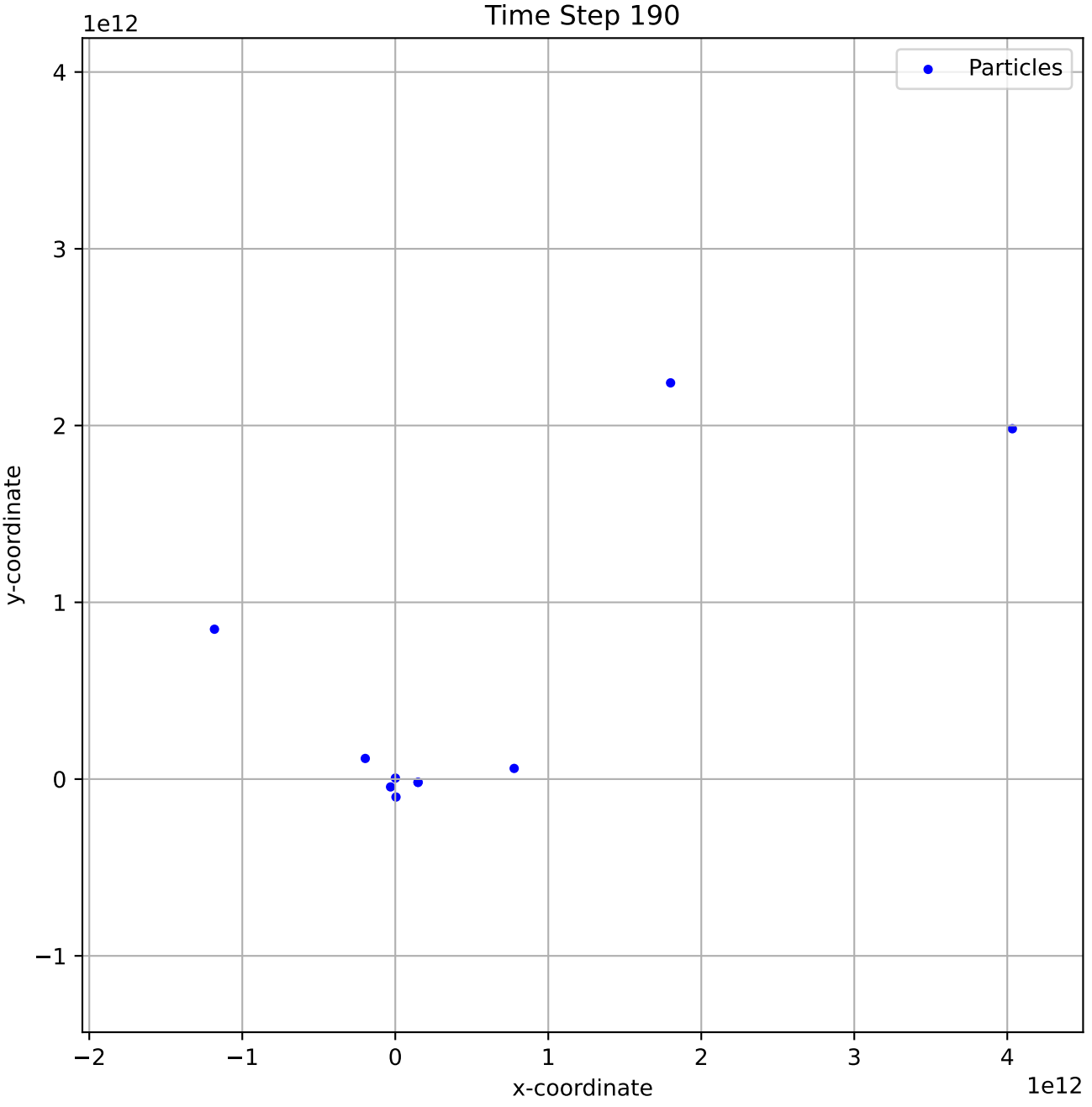

Time Step 185
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

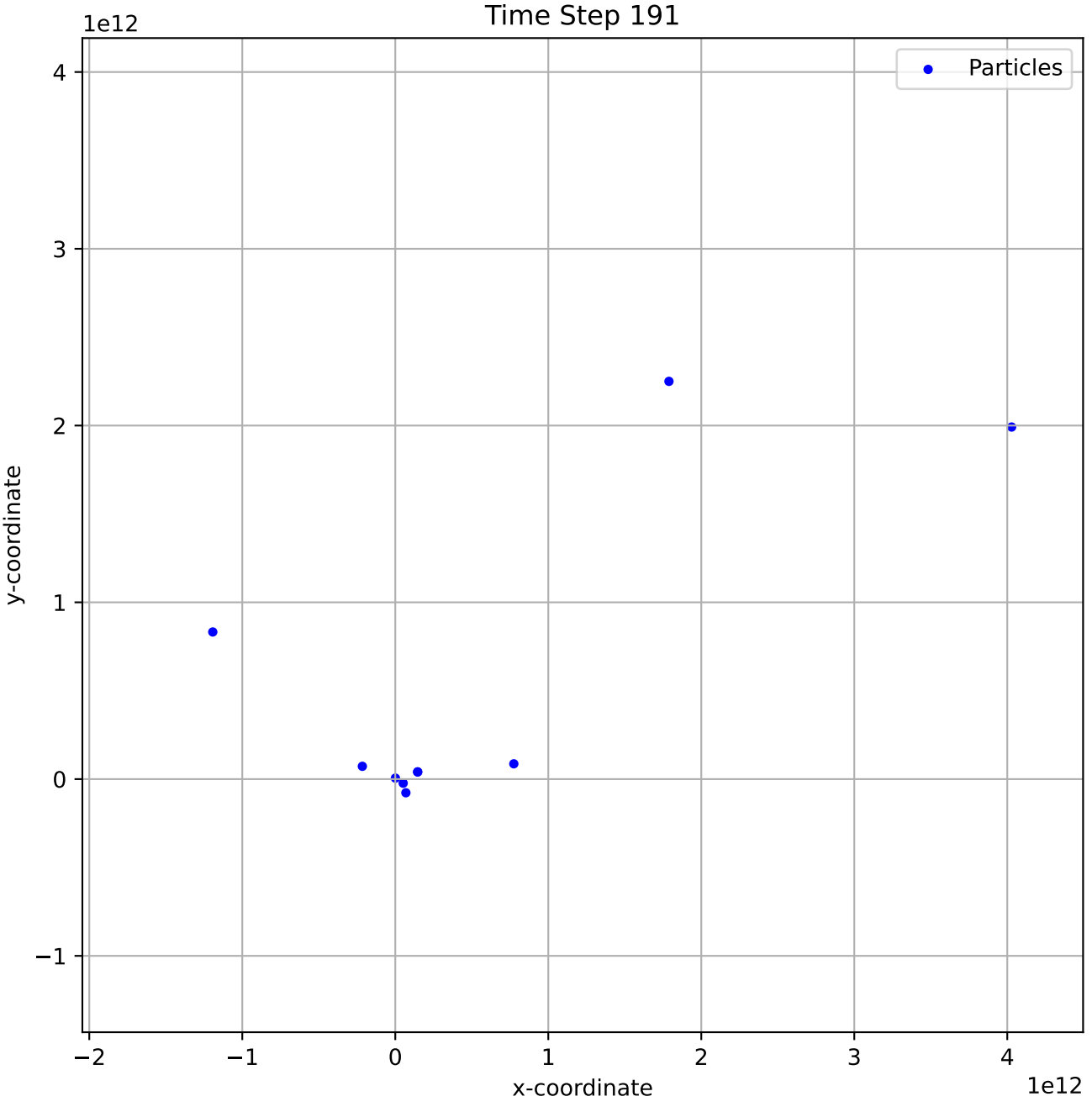

Time Step 186
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

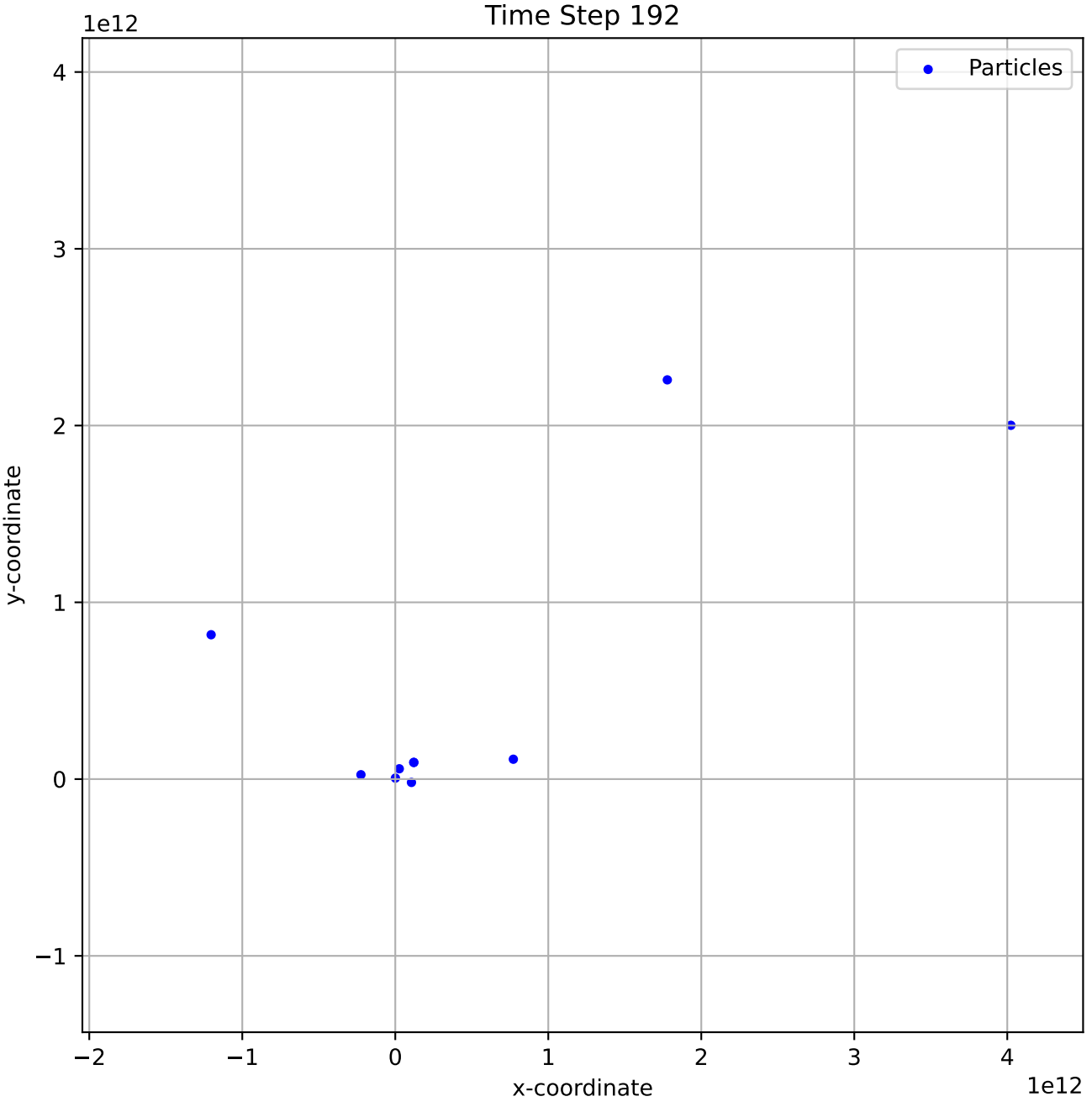

Time Step 187
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

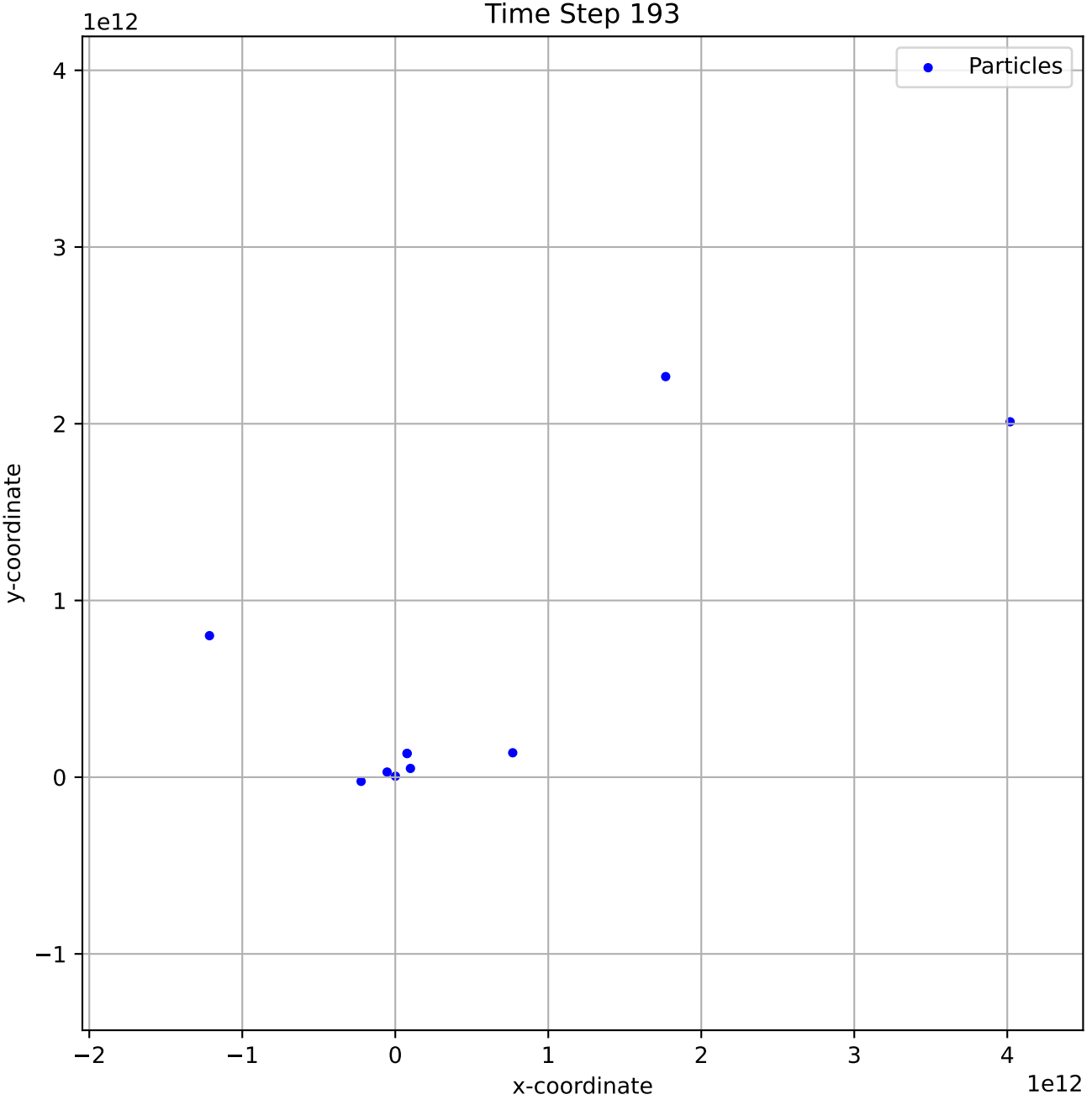

Time Step 188
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

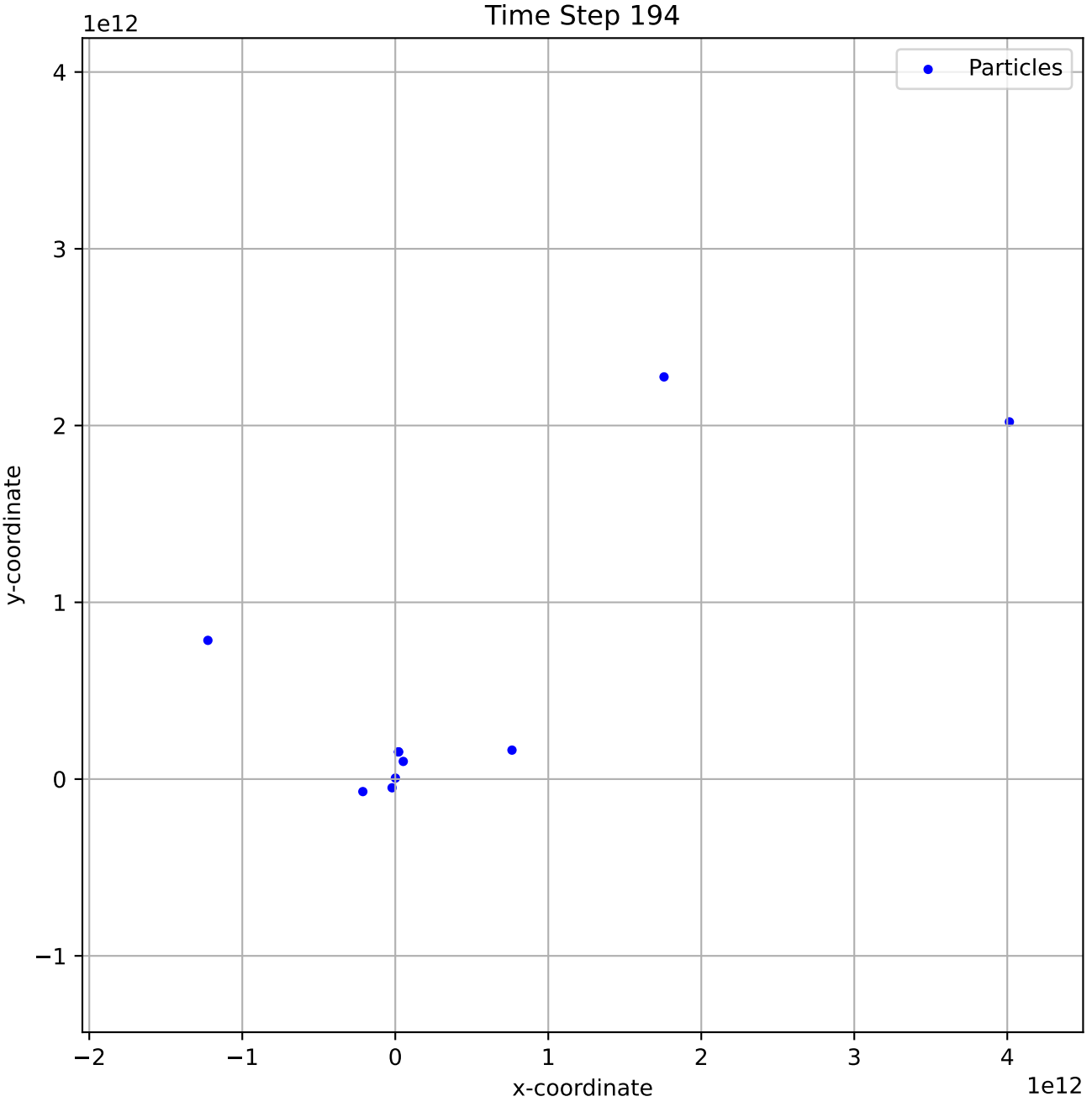

Time Step 189
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

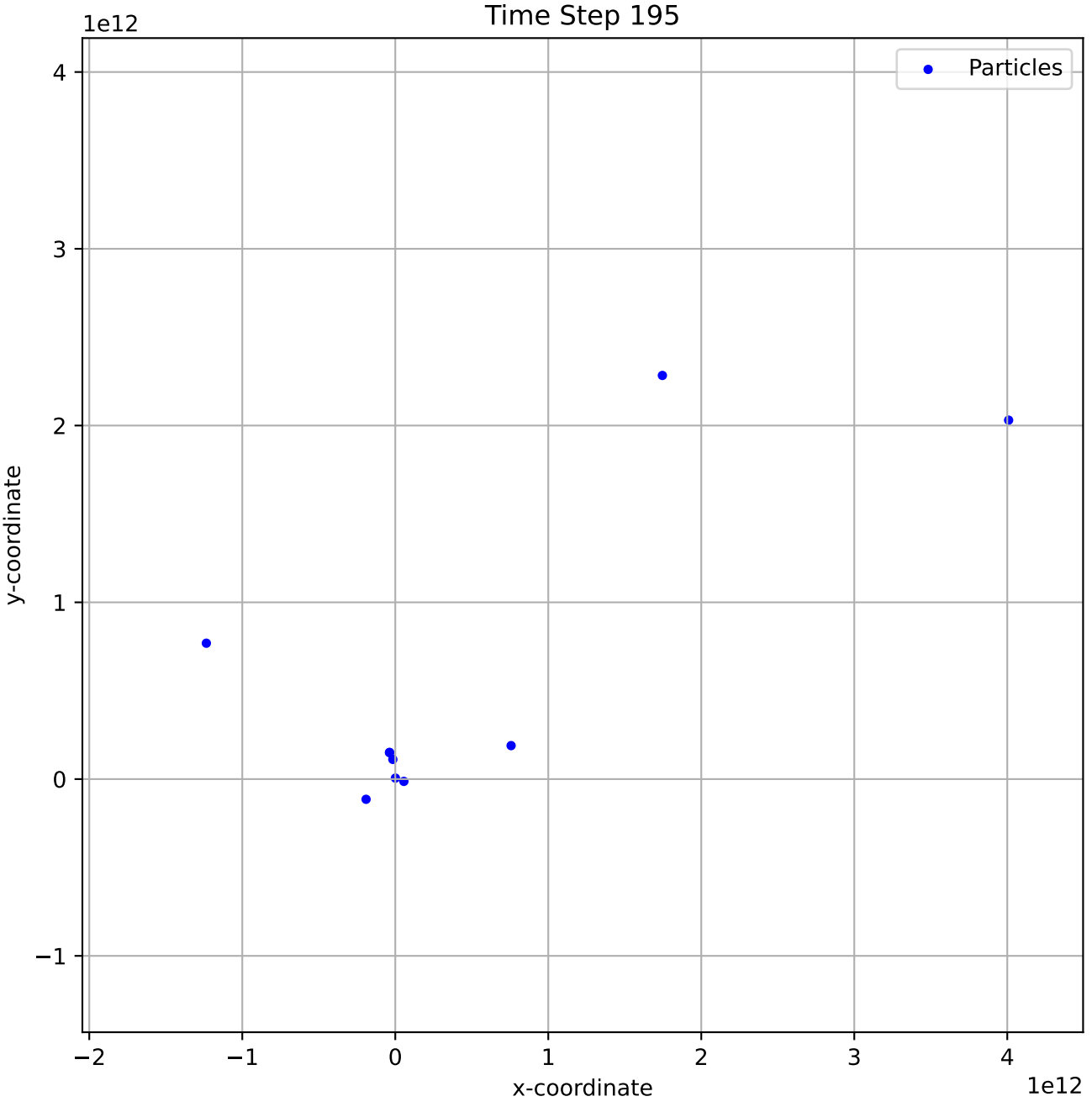

Time Step 190
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

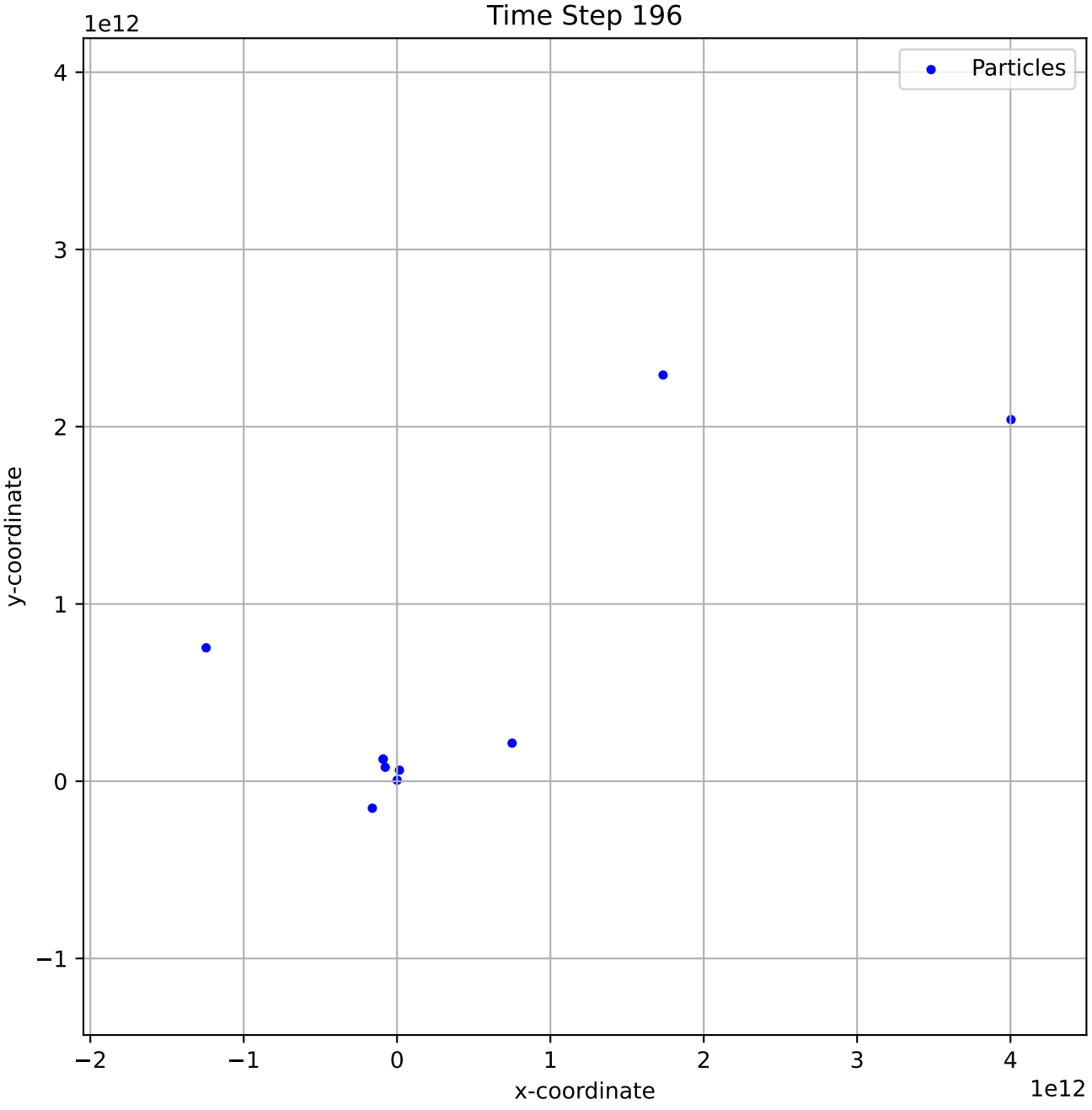

Time Step 191
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

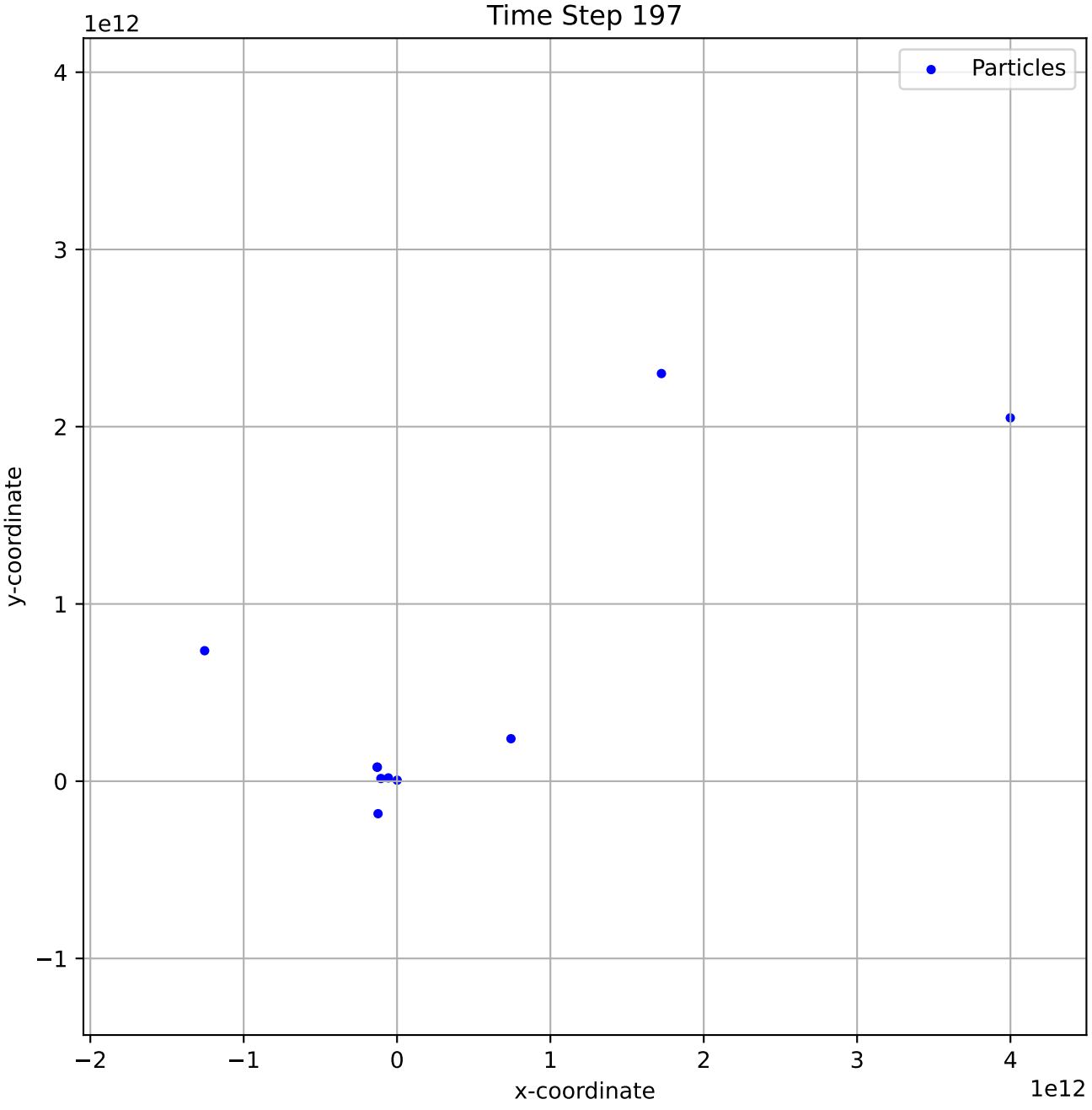

Time Step 192
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

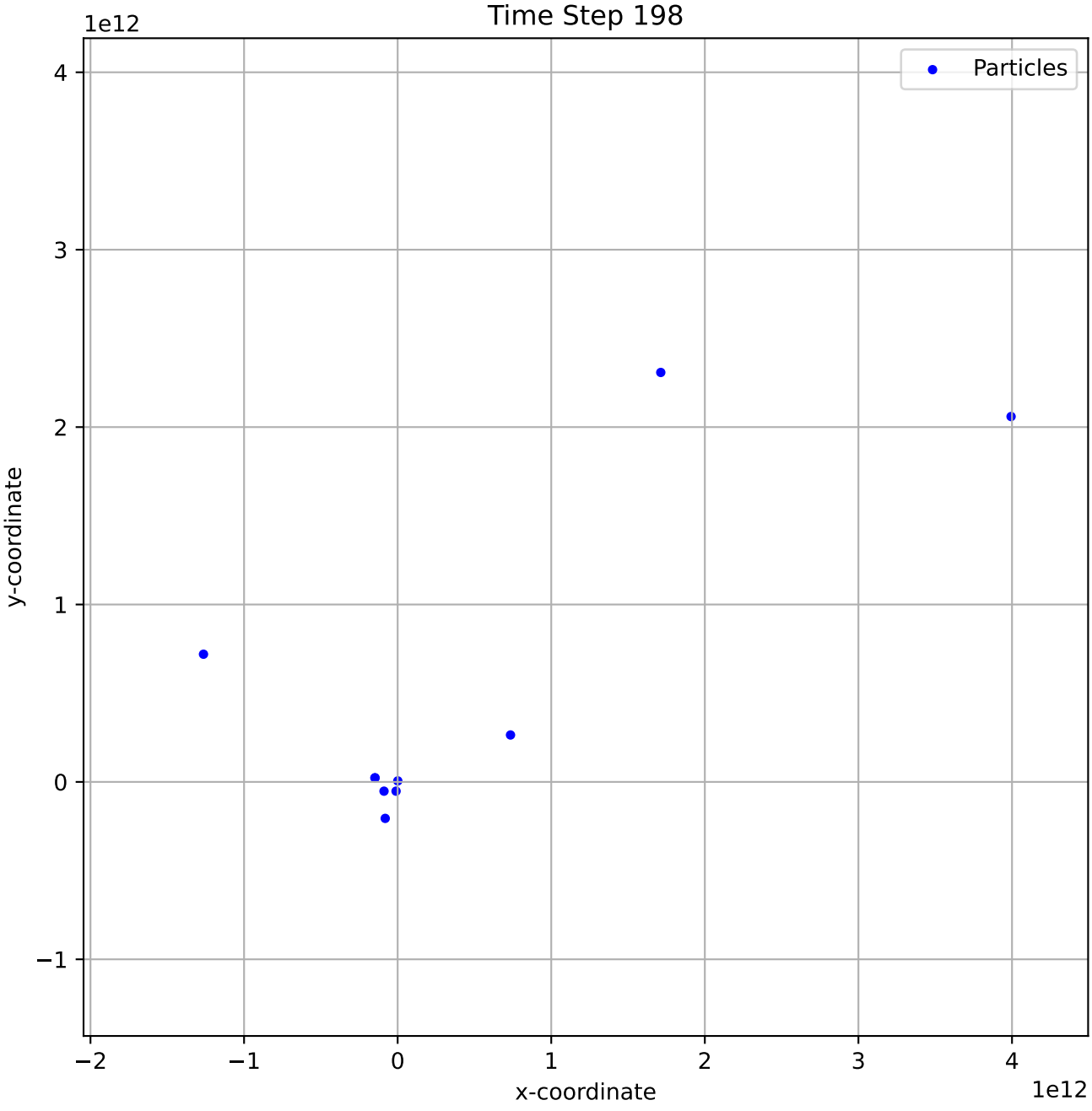

Time Step 193
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

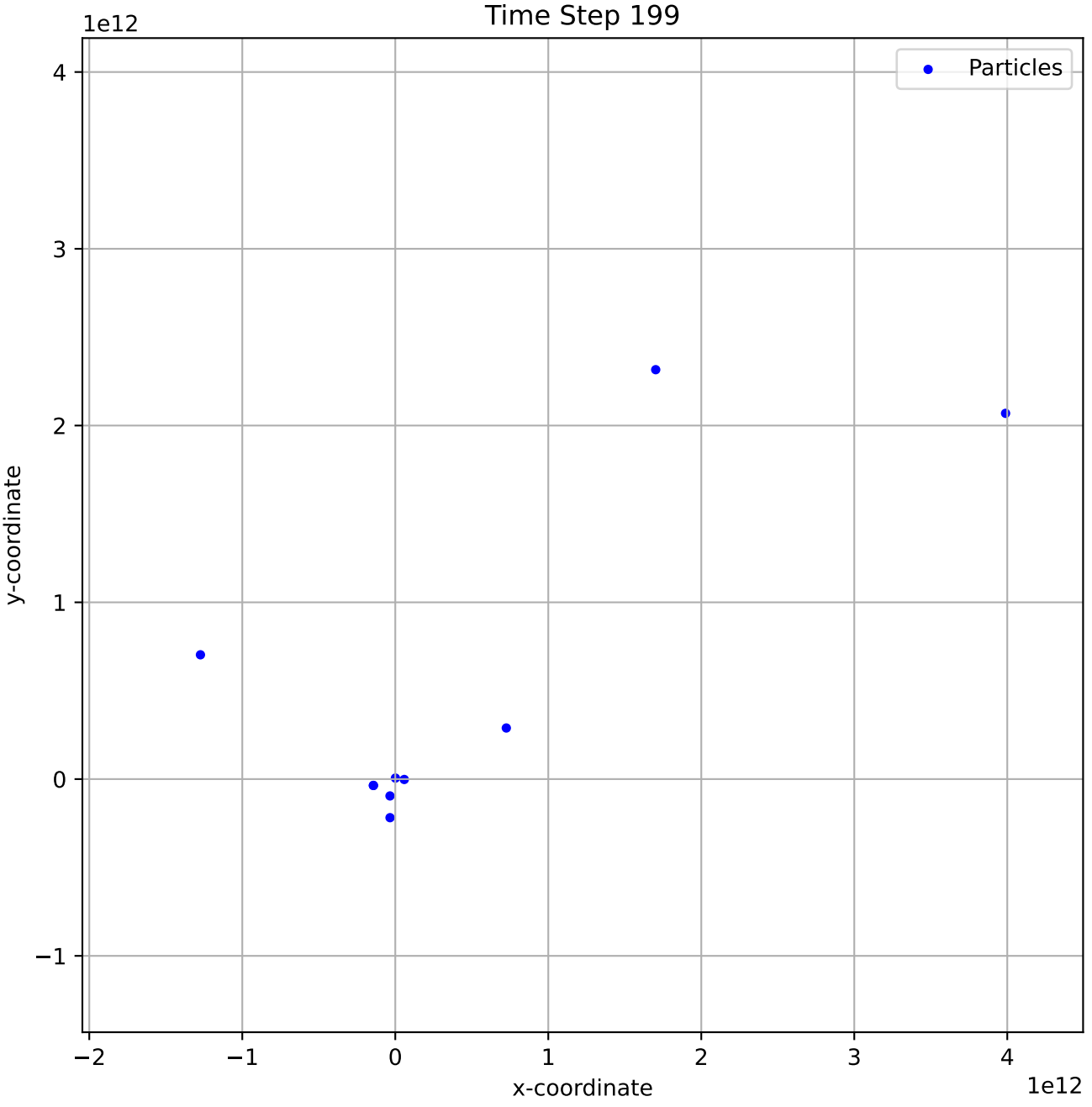

Time Step 194
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

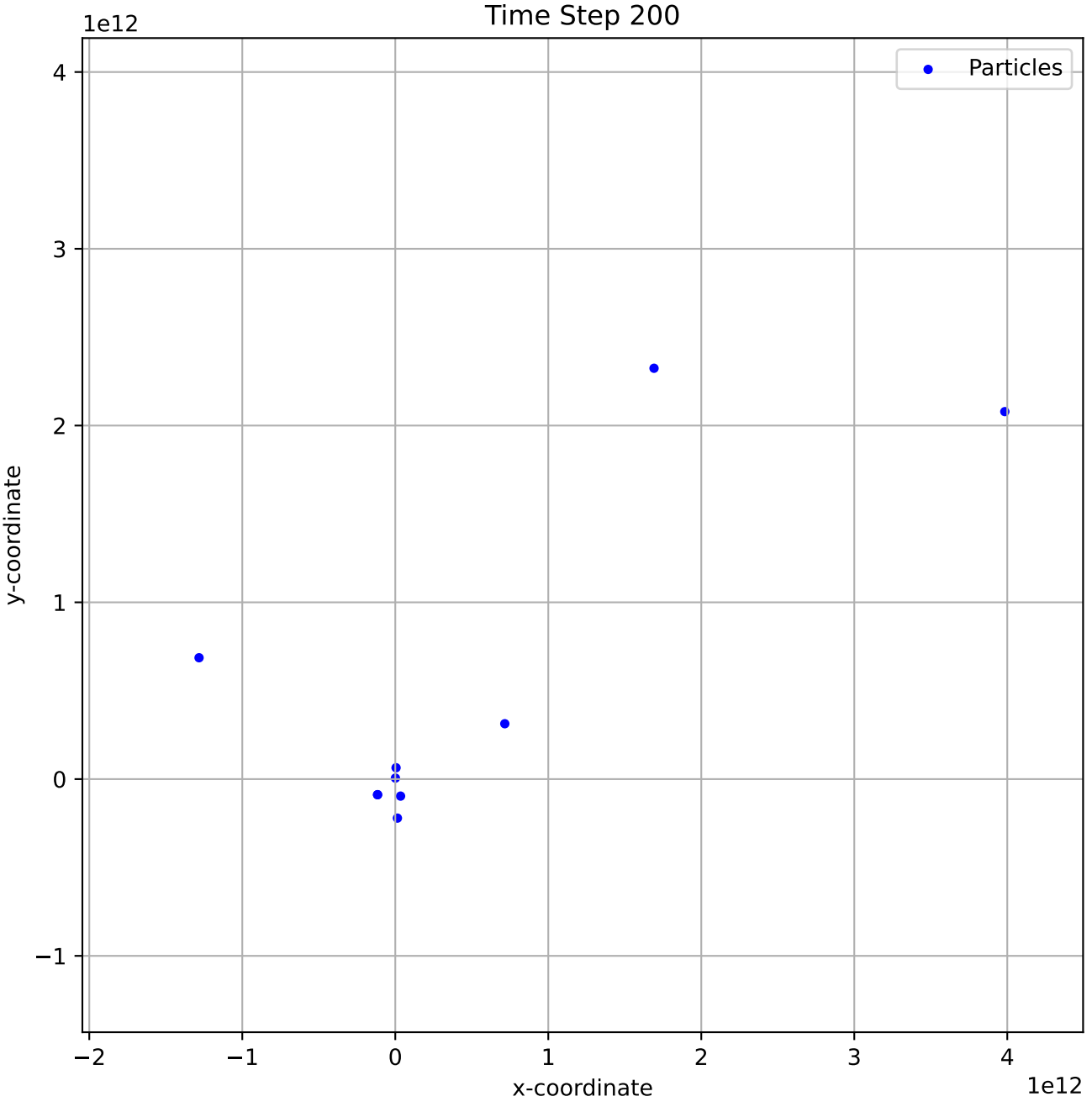

Time Step 195
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

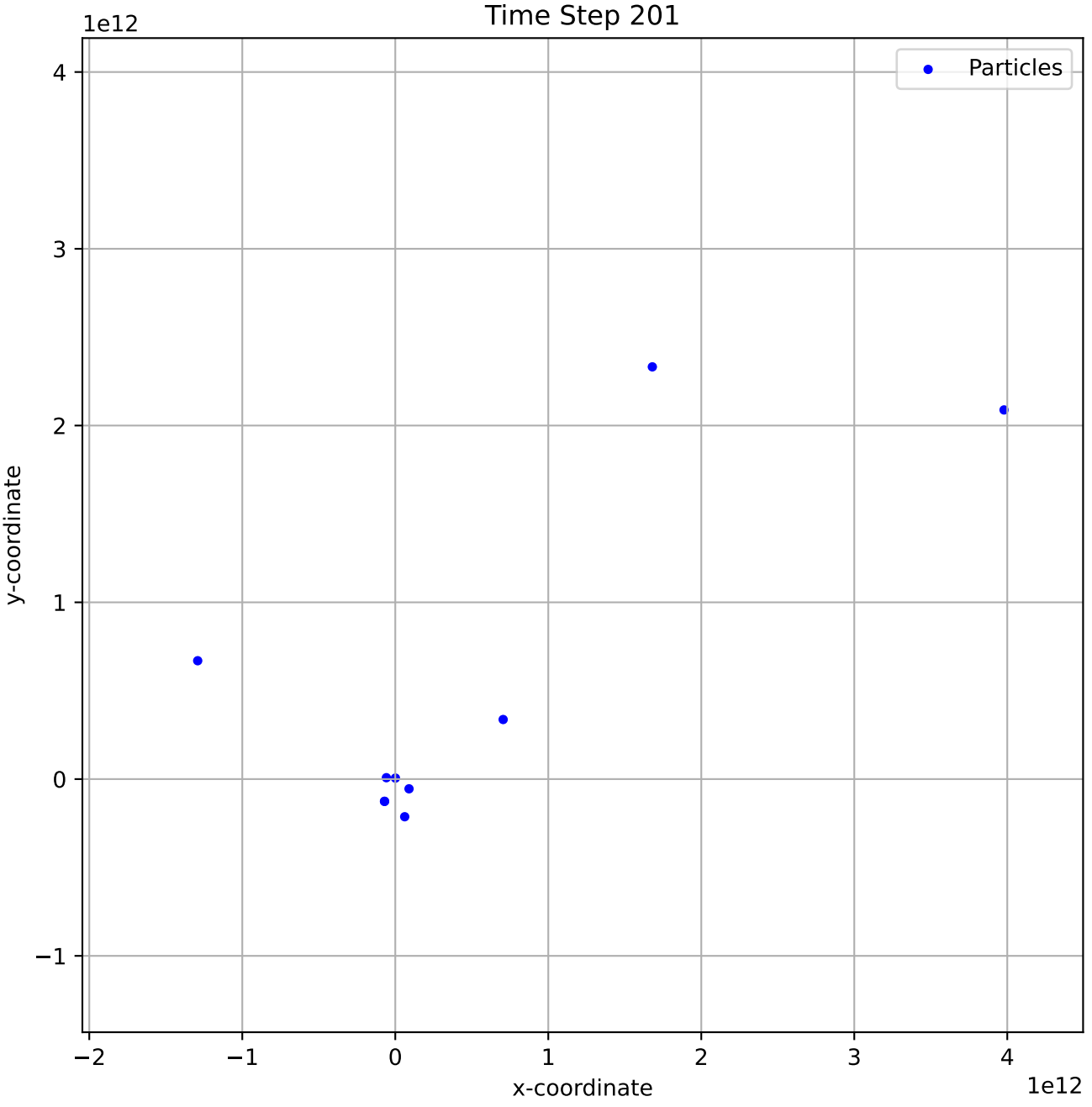

Time Step 196
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

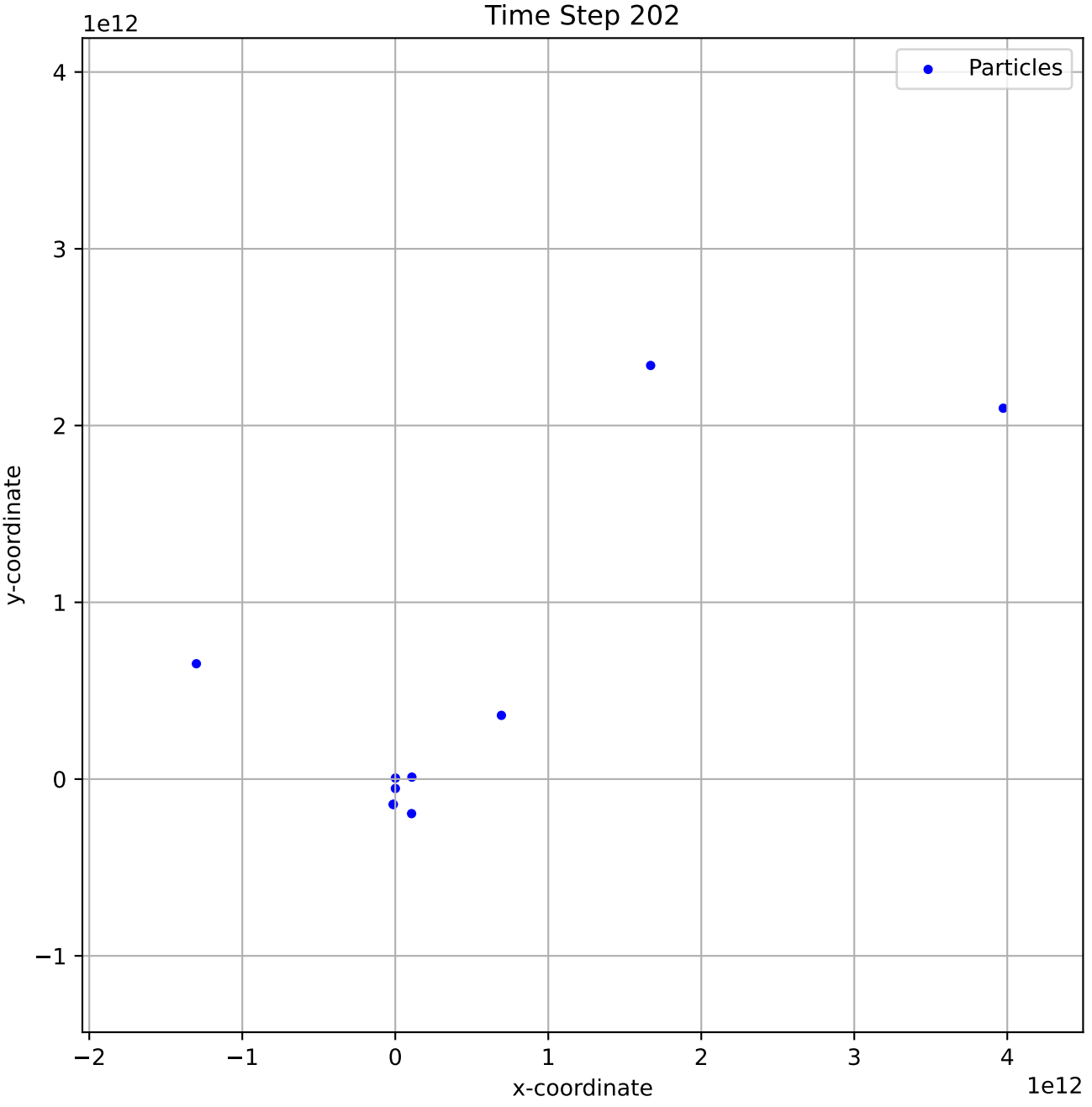

Time Step 197
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

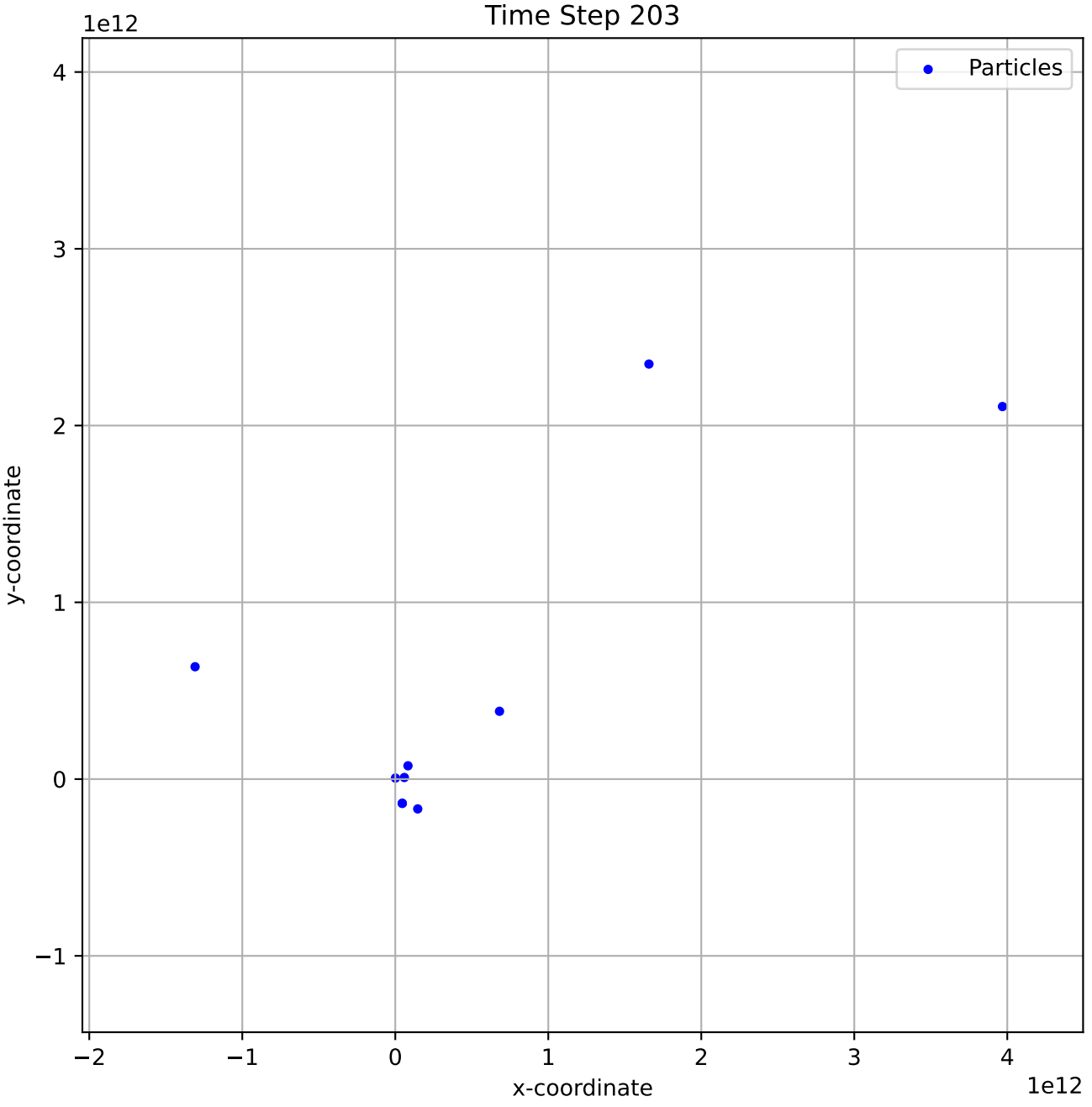

Time Step 198
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

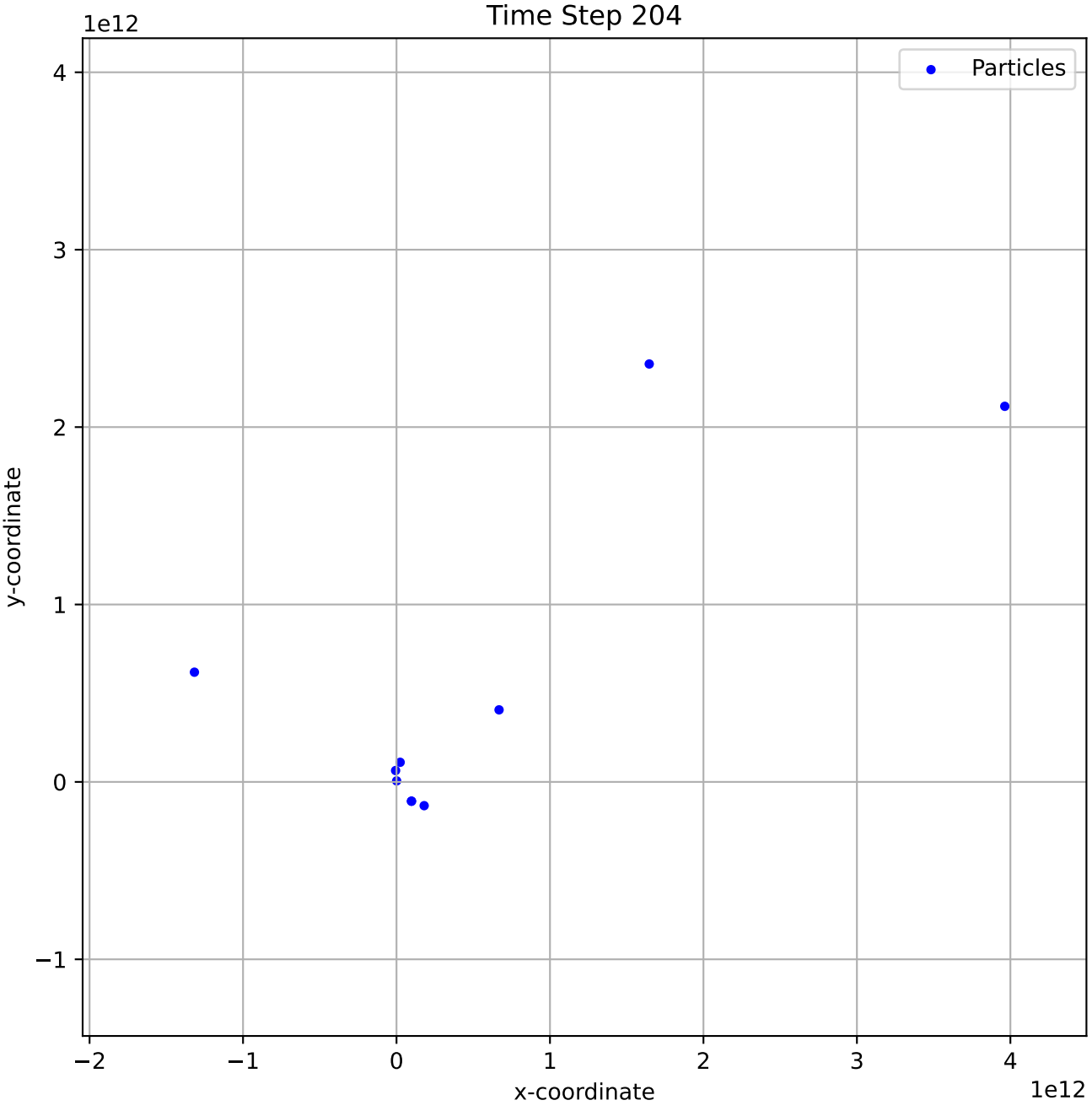

Time Step 199
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

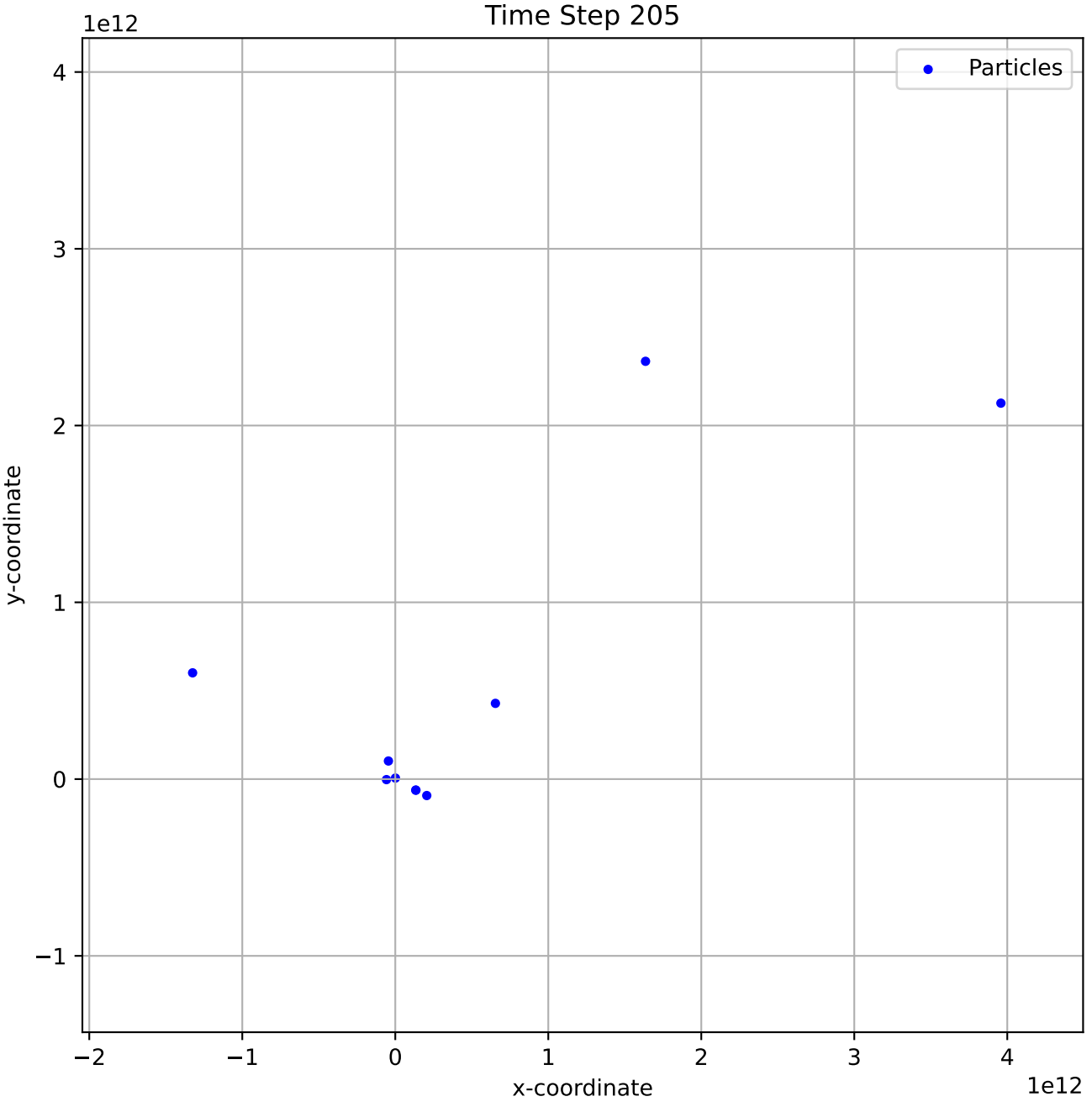

Time Step 200
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

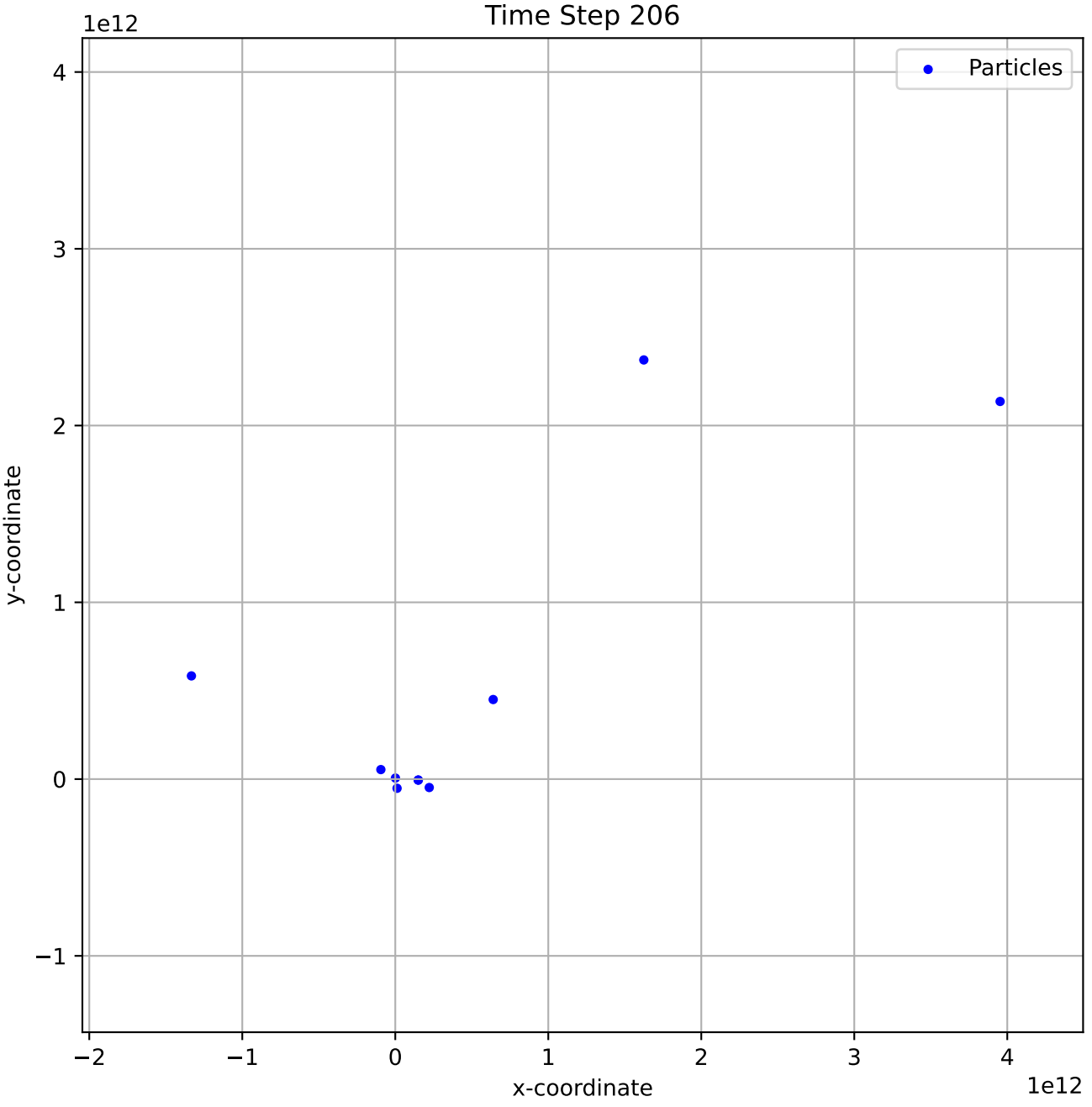

Time Step 201
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

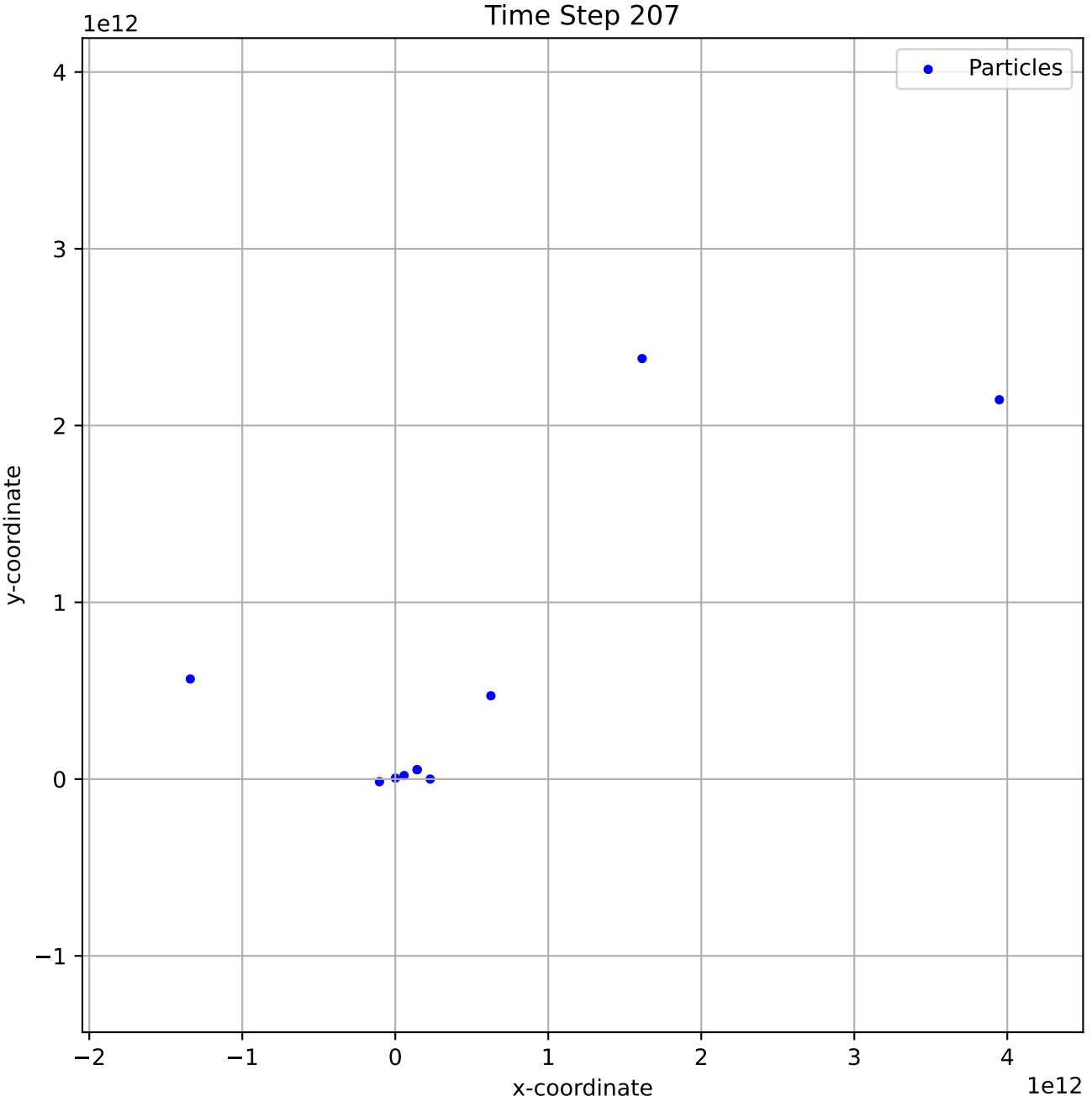

Time Step 202
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

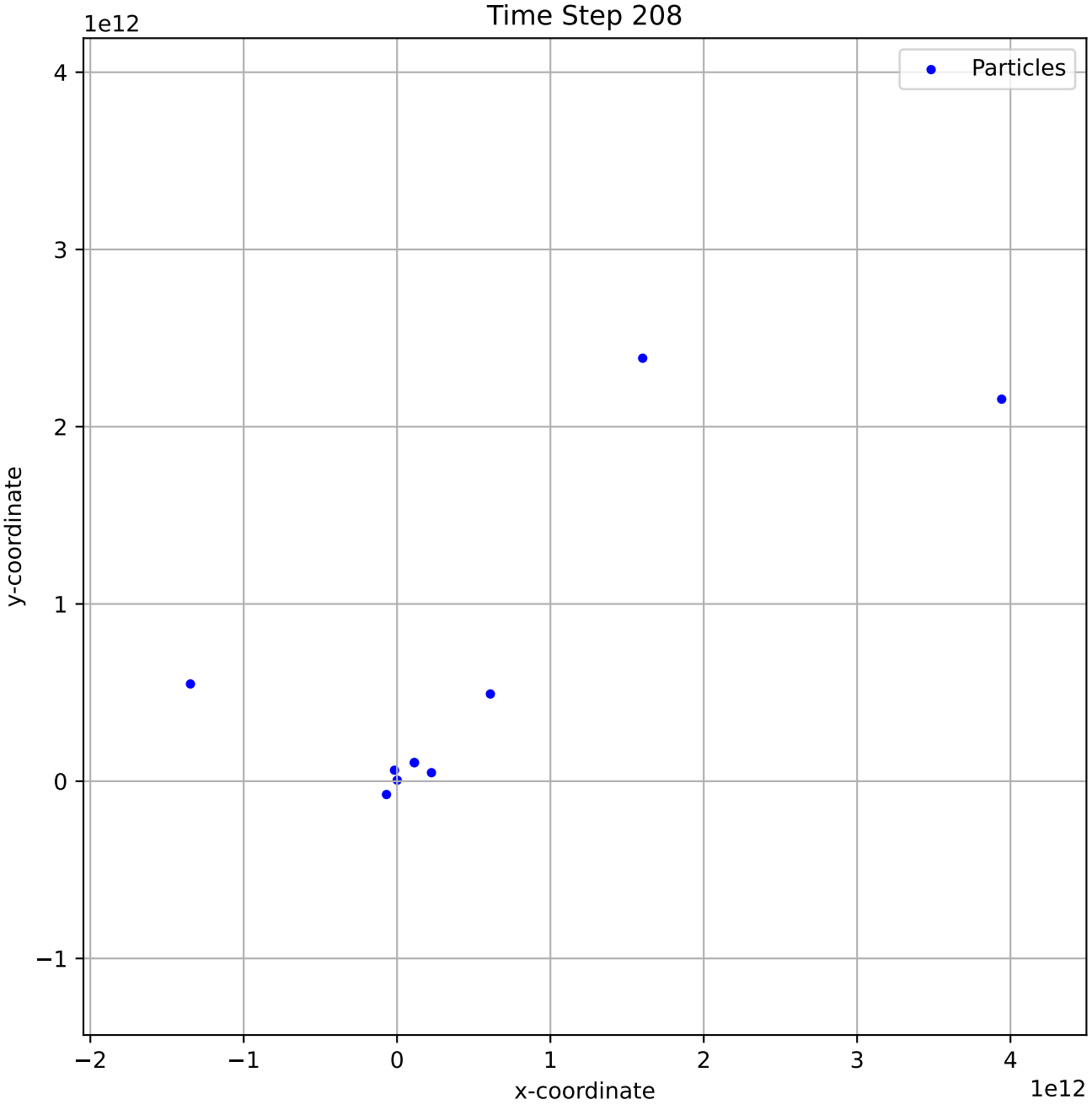

Time Step 203
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

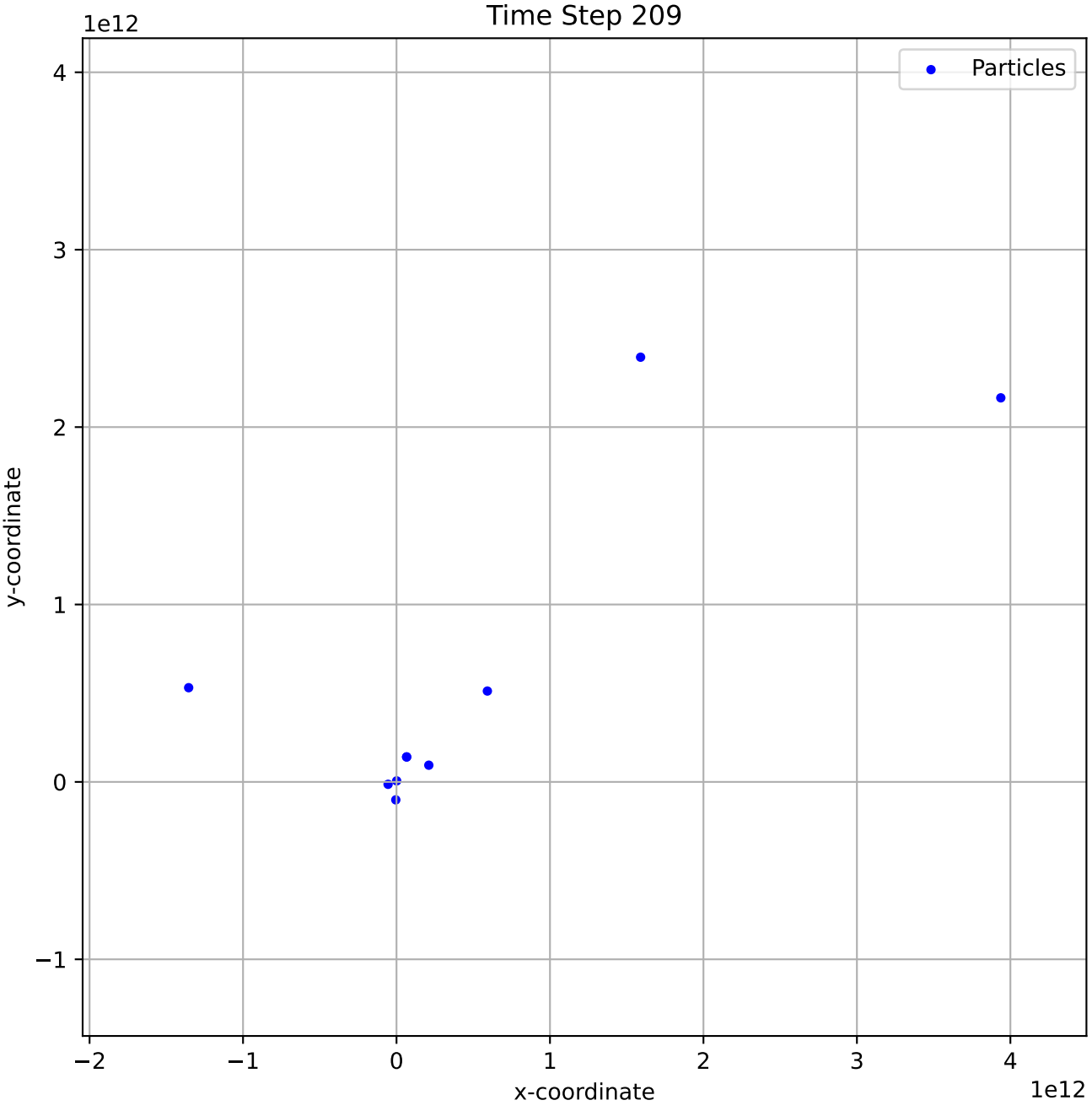

Time Step 204
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

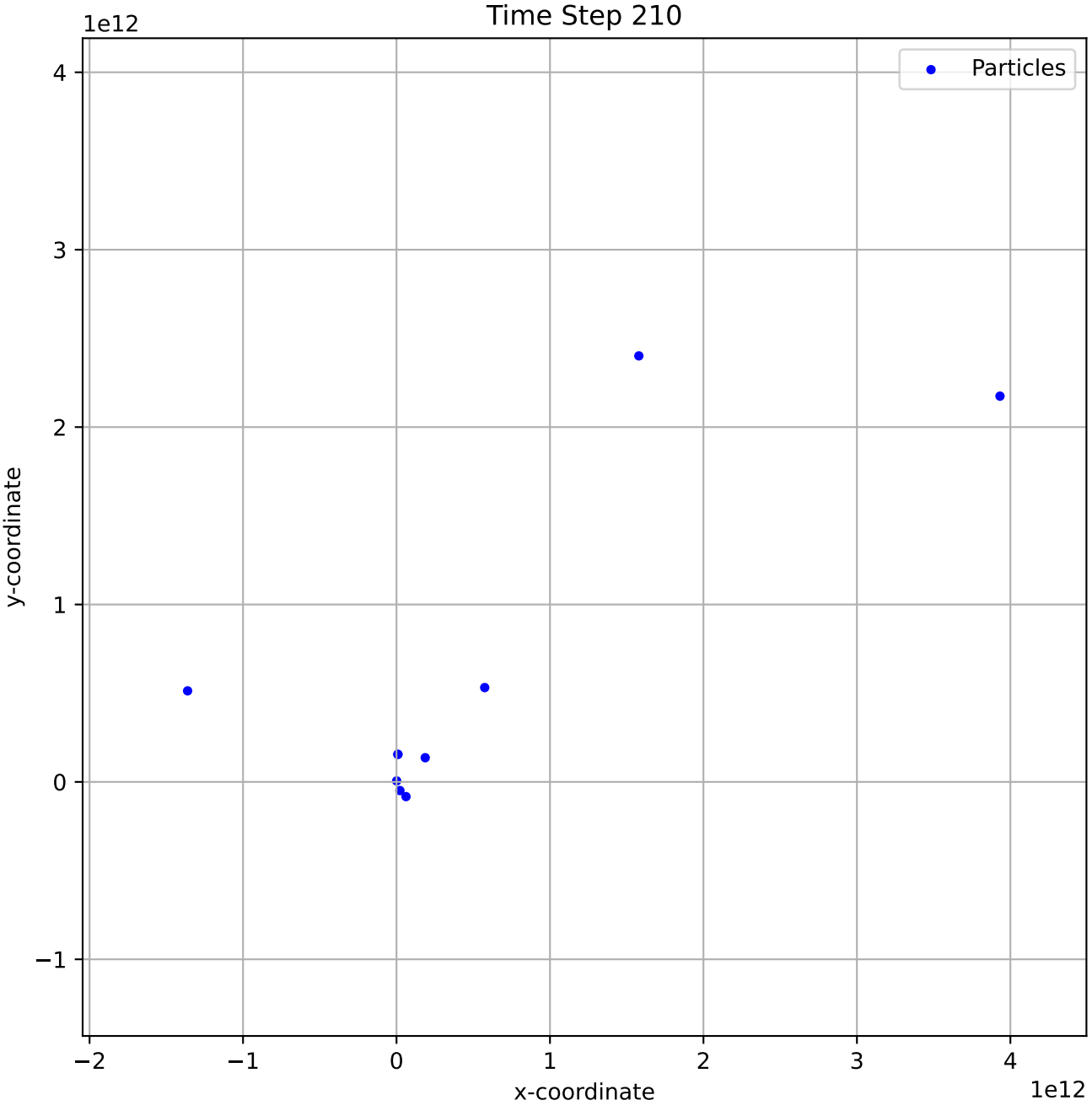

Time Step 205
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

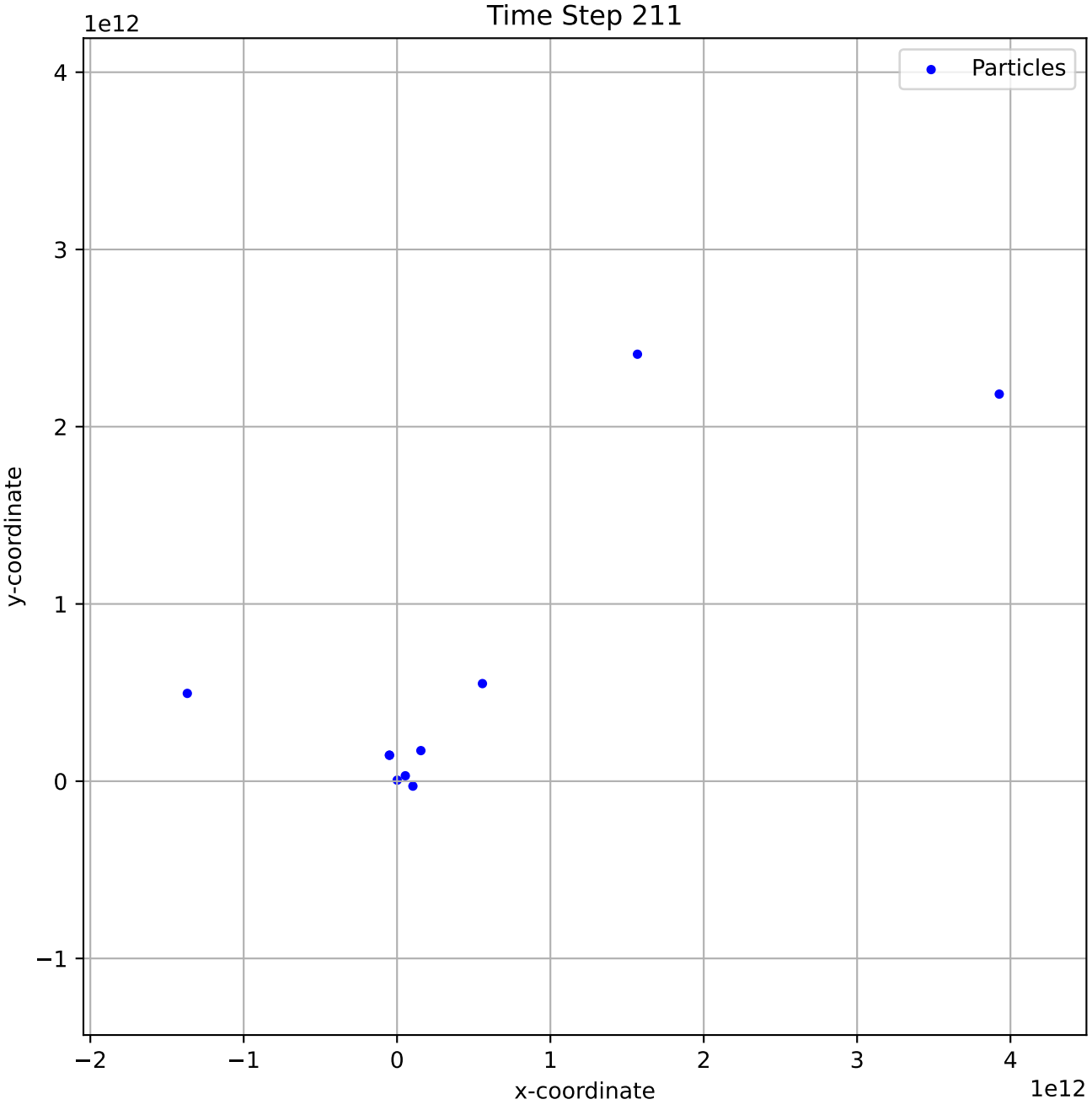

Time Step 206
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

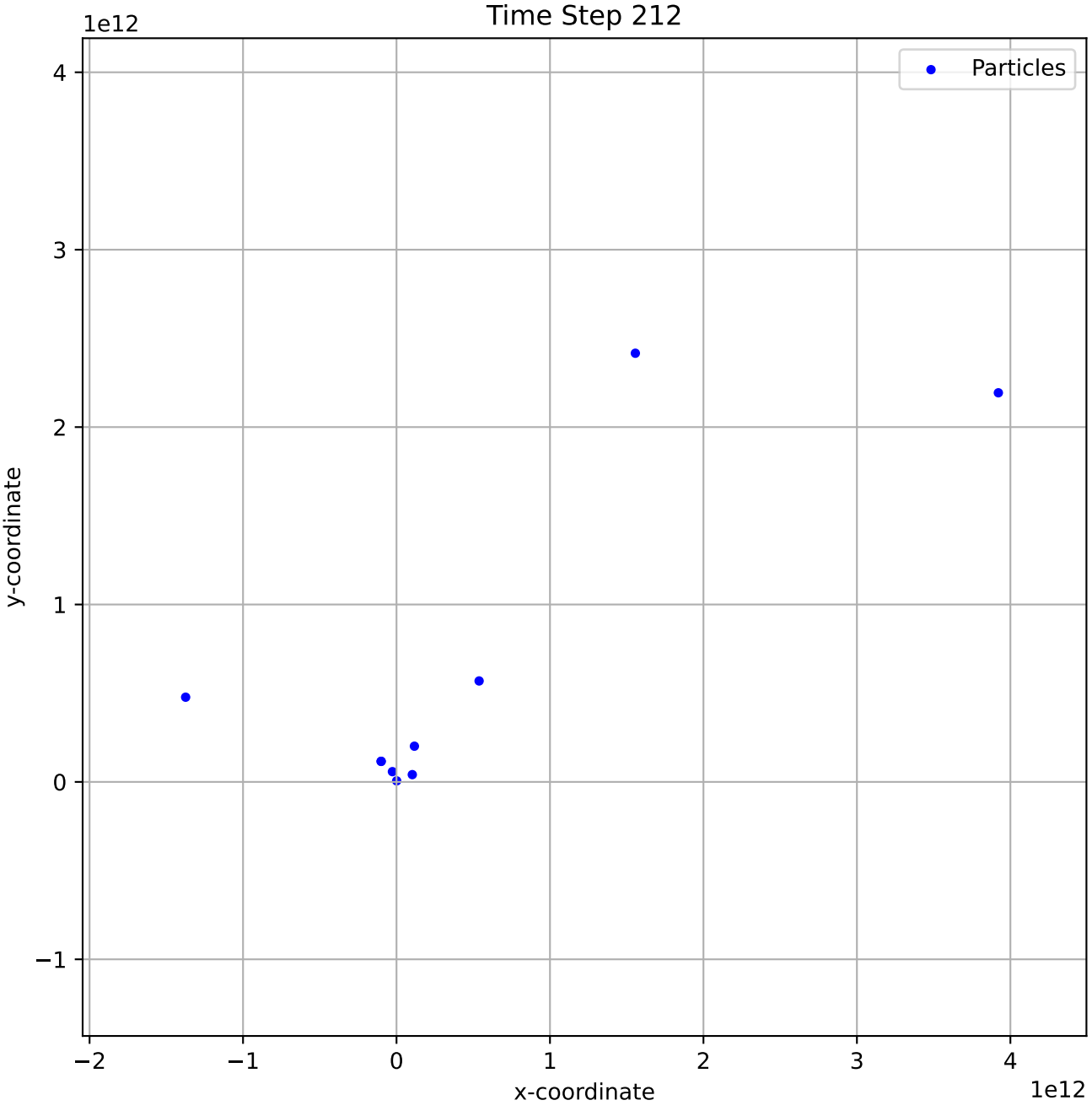

Time Step 207
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

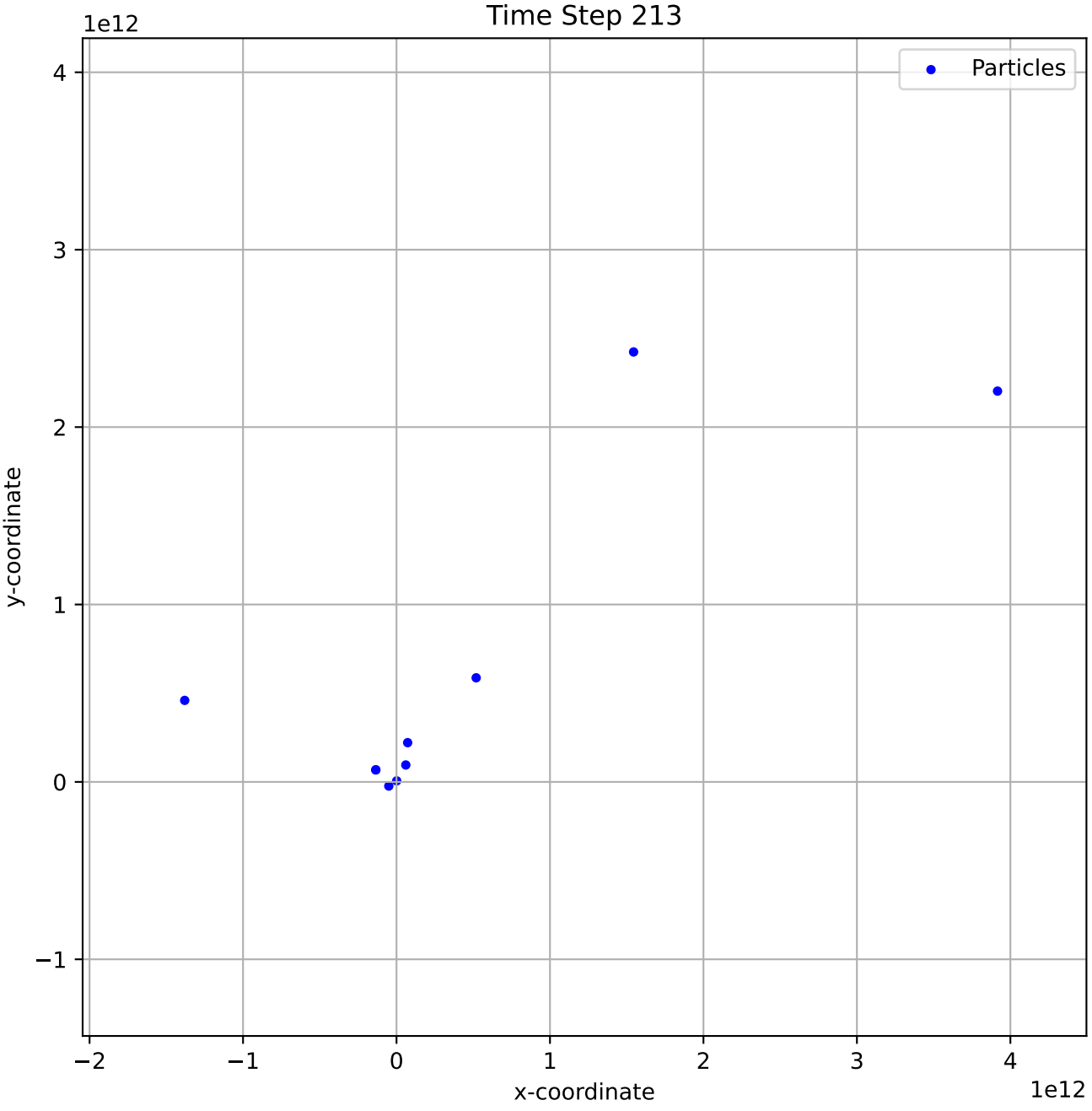

Time Step 208
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

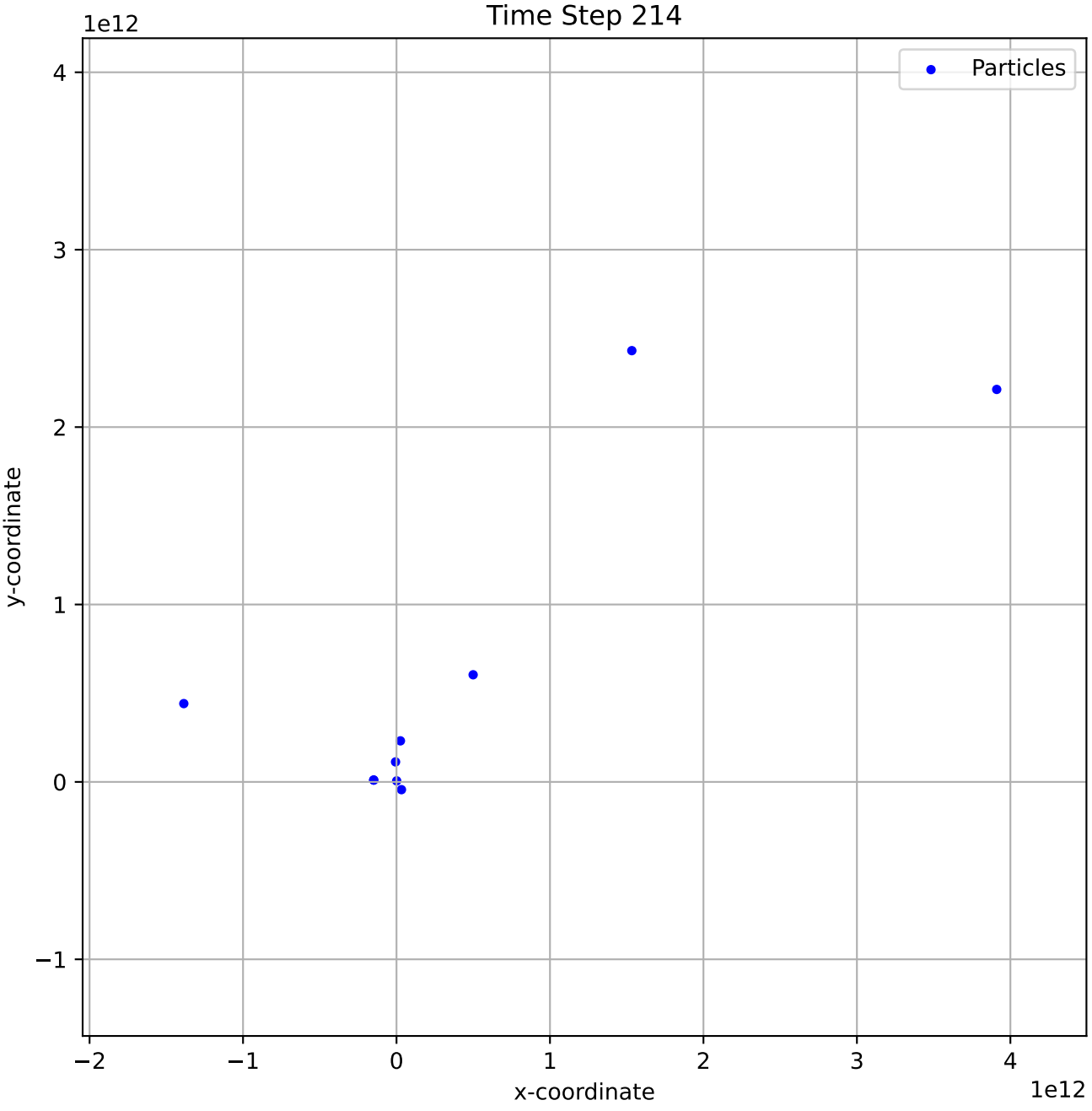

Time Step 209
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

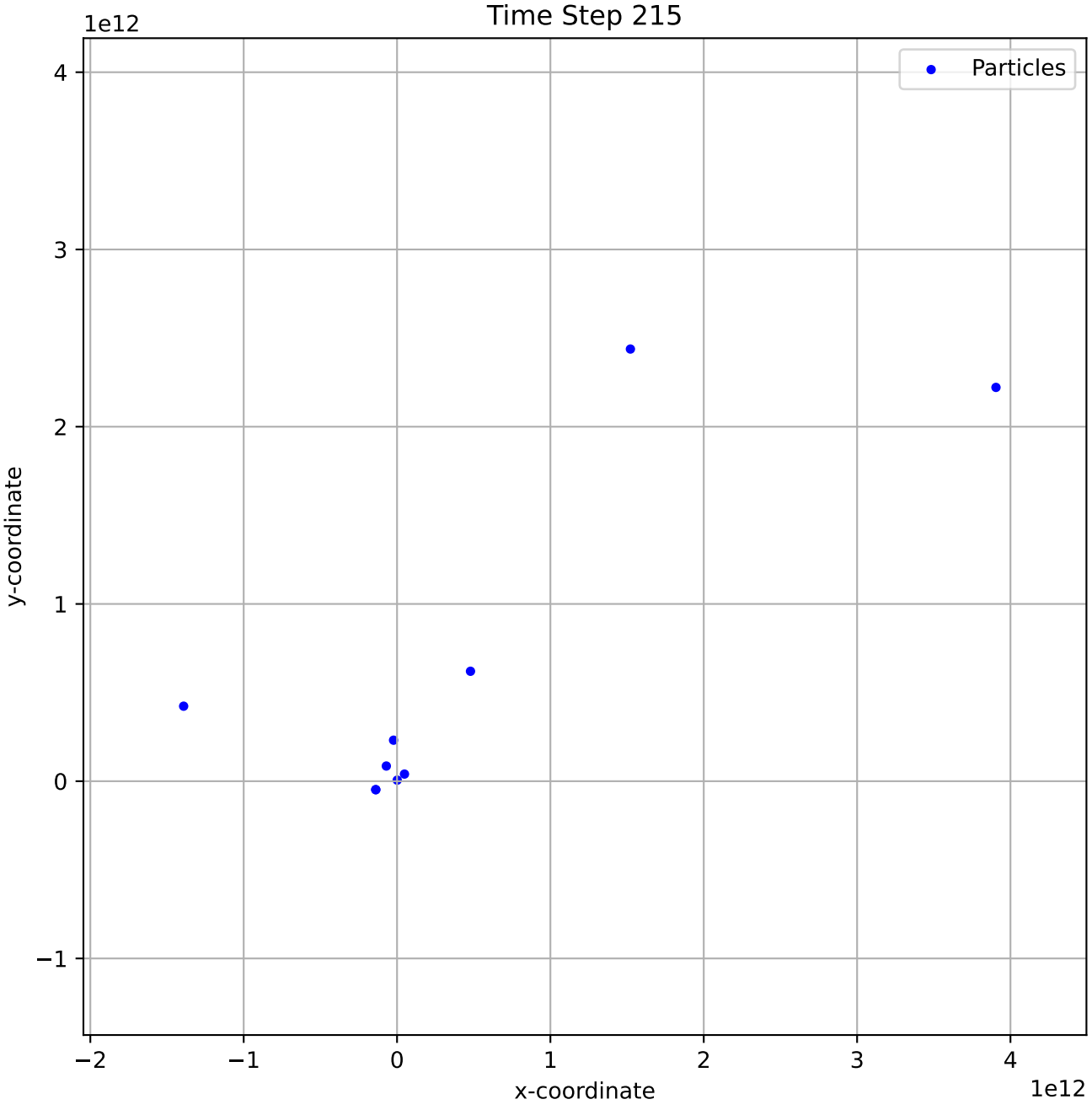

Time Step 210
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

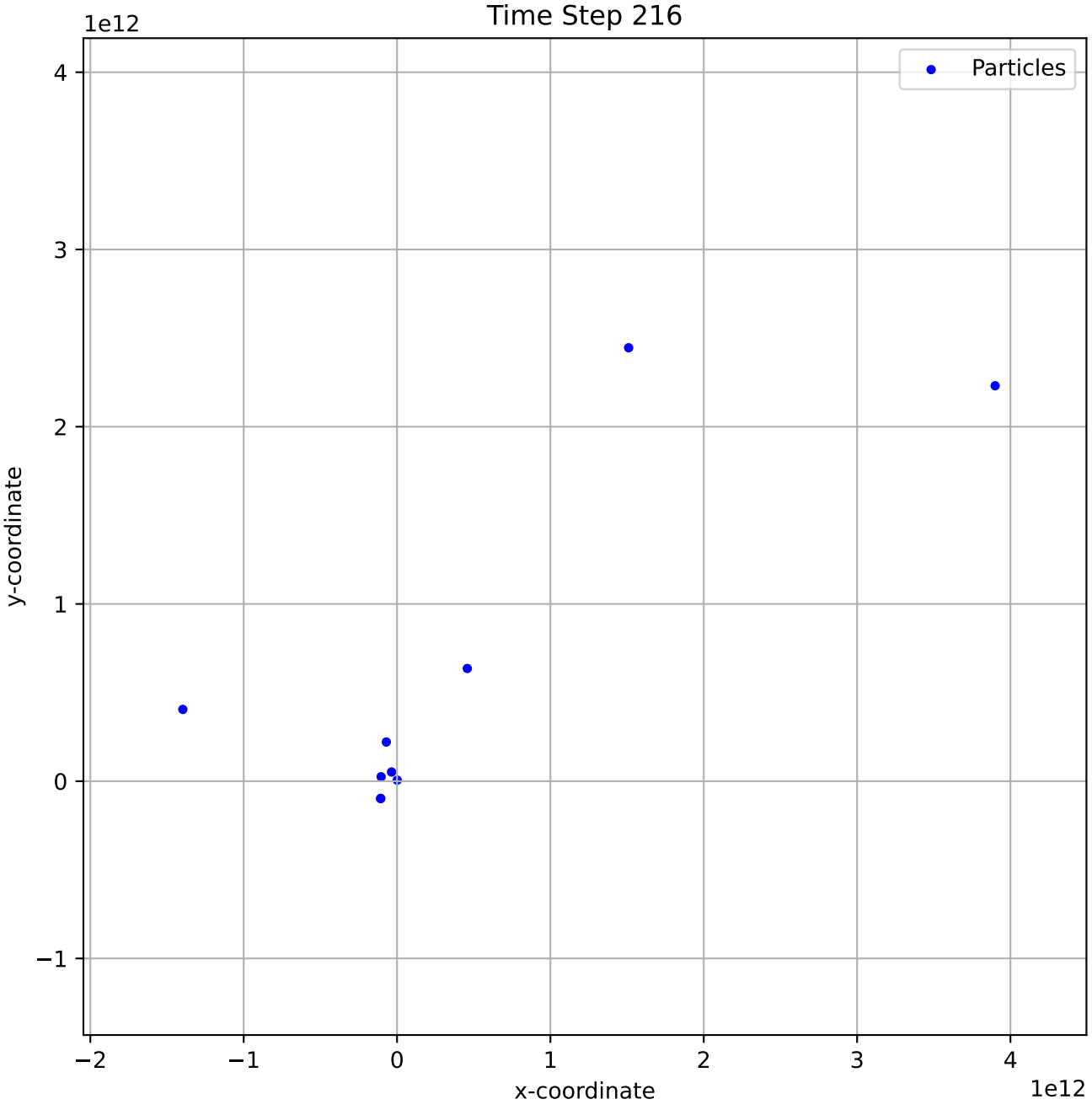

Time Step 211
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

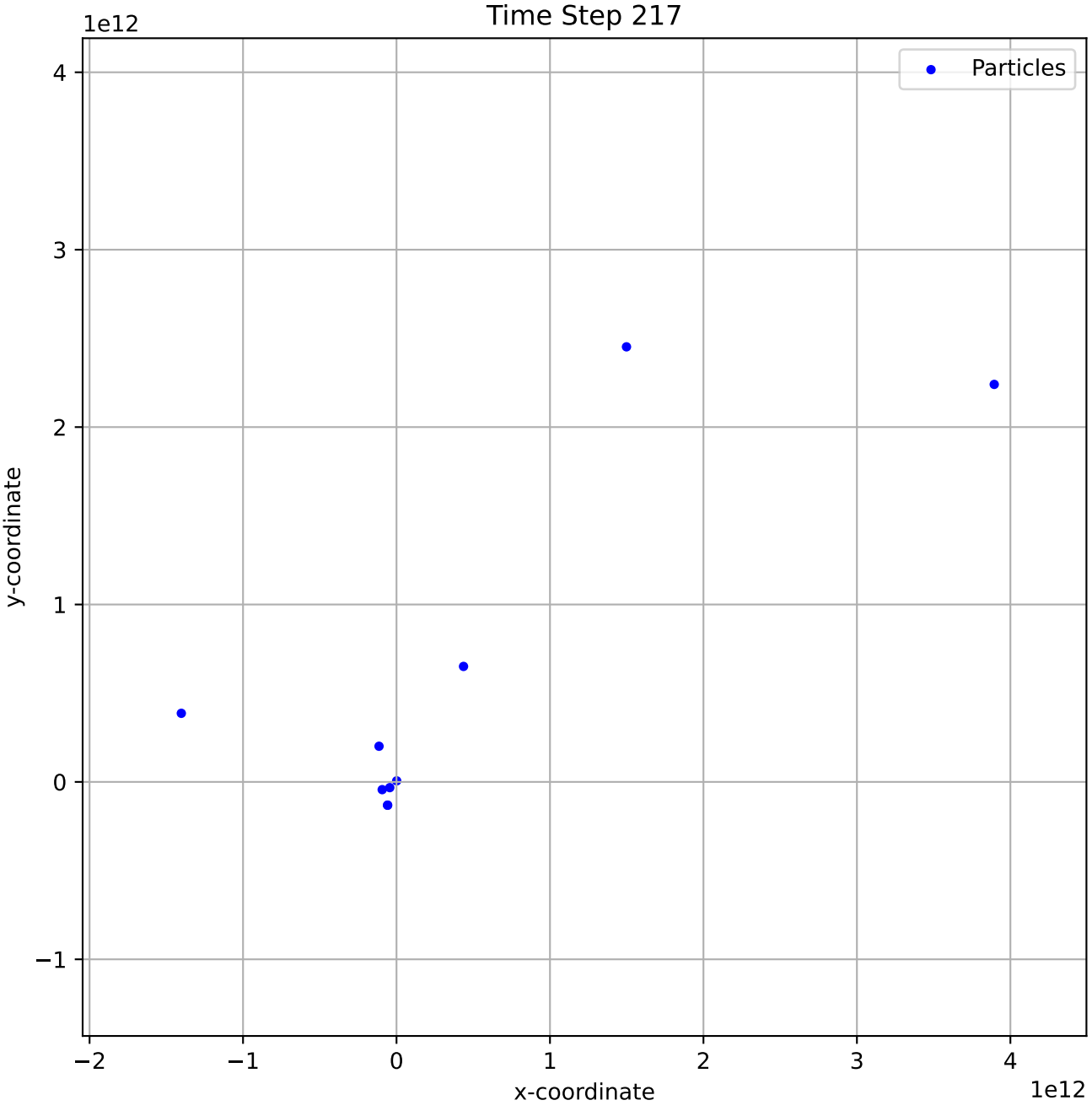

Time Step 212
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

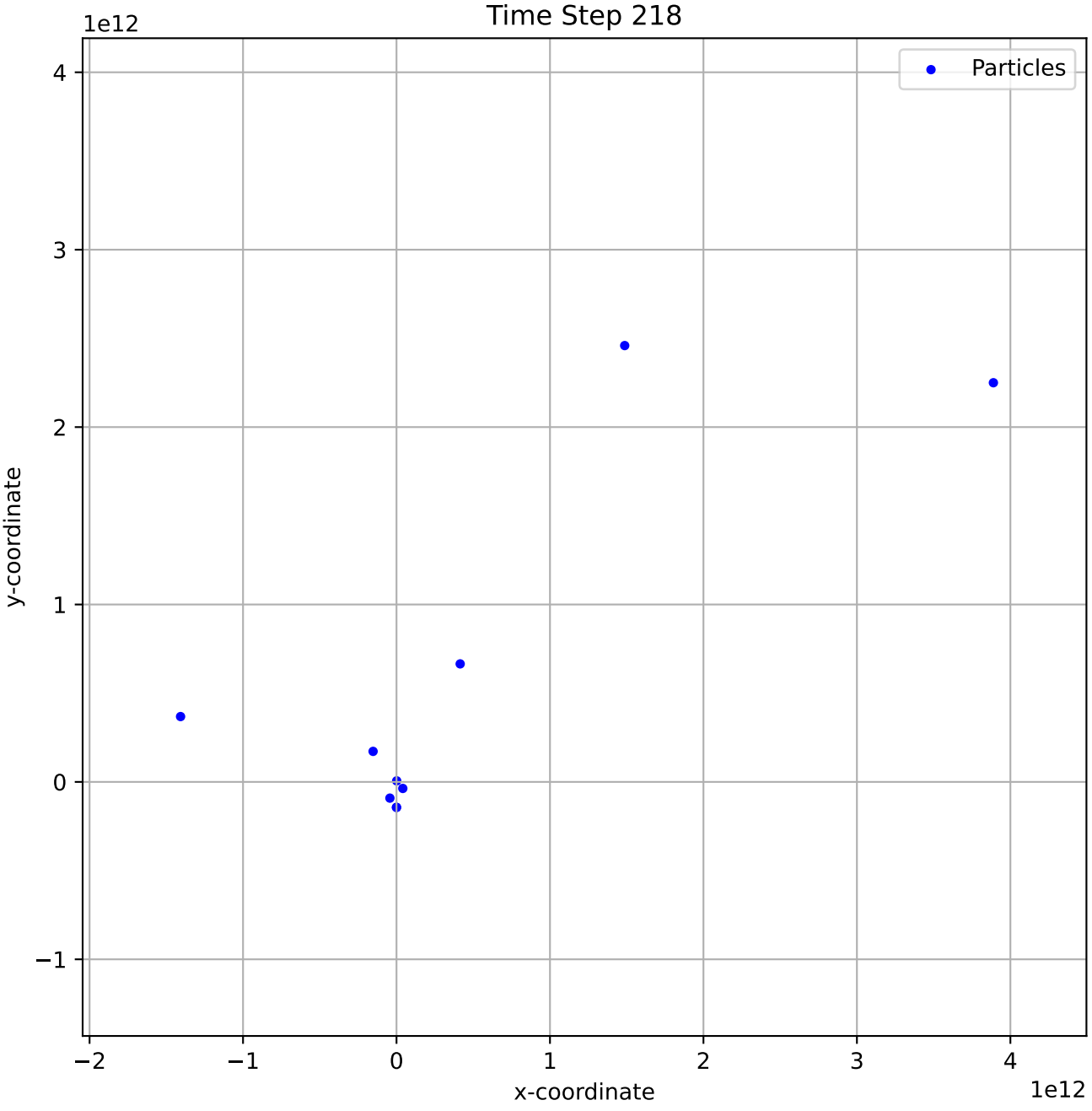

Time Step 213
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

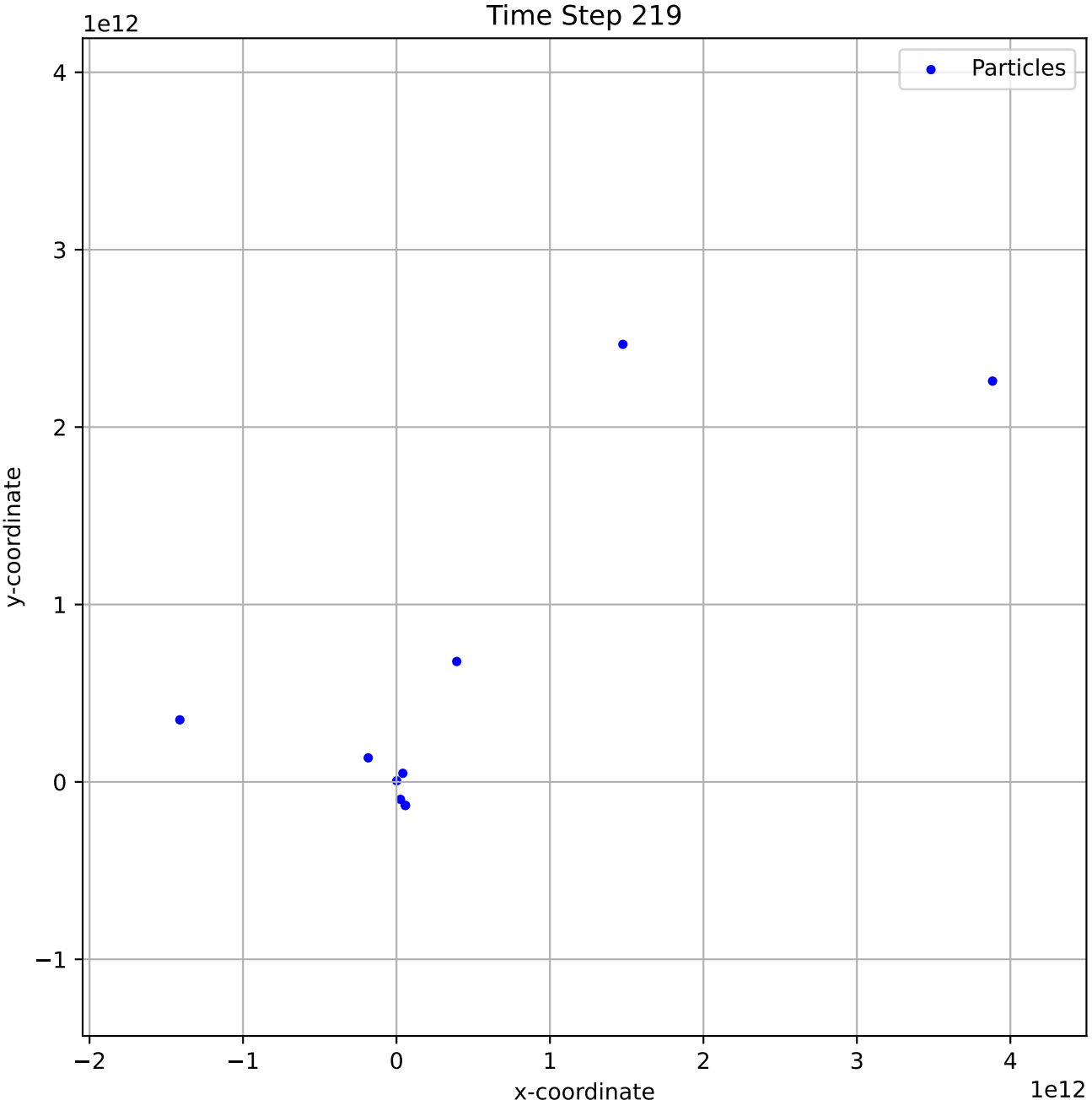

Time Step 214
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

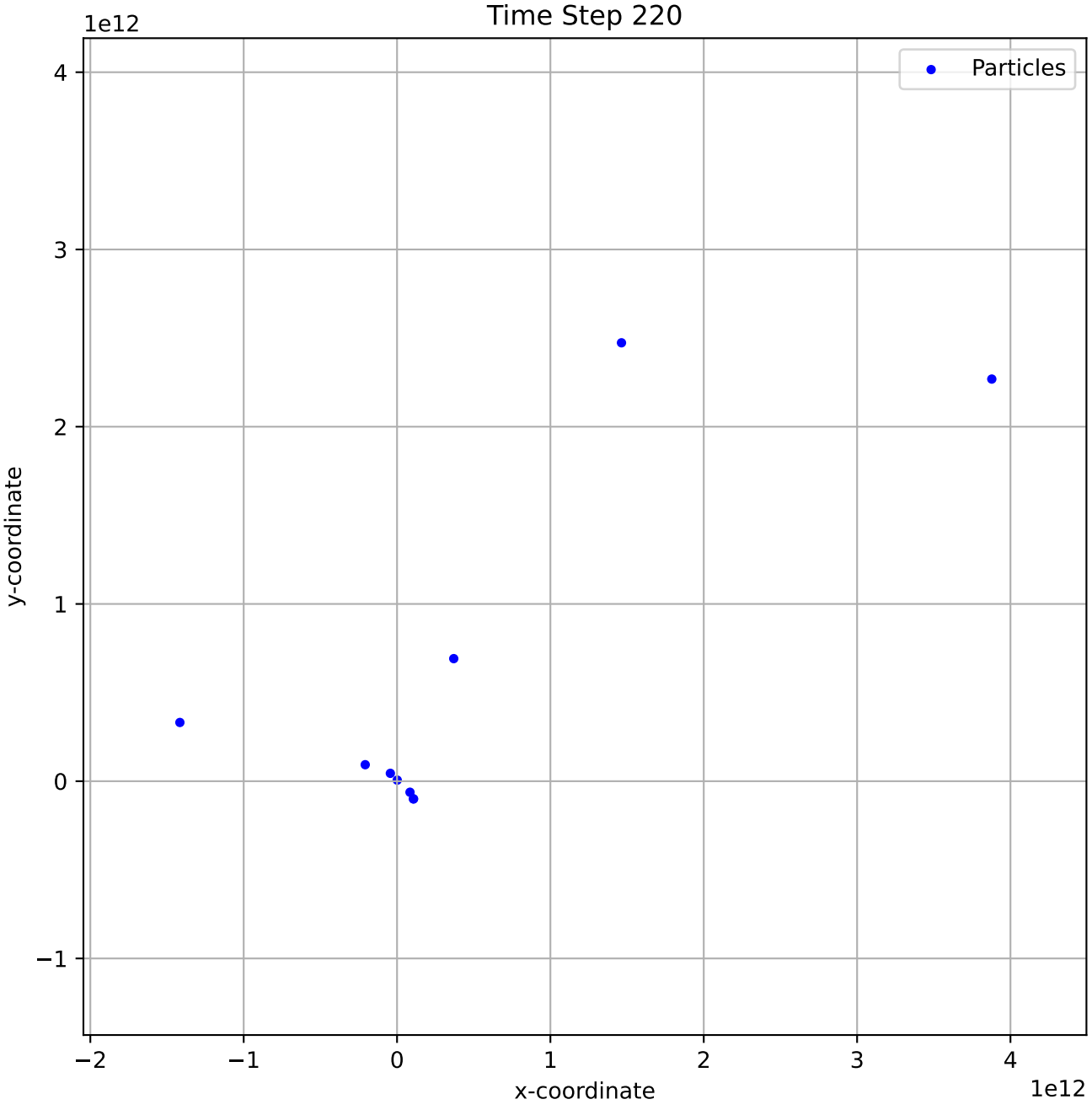

Time Step 215
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

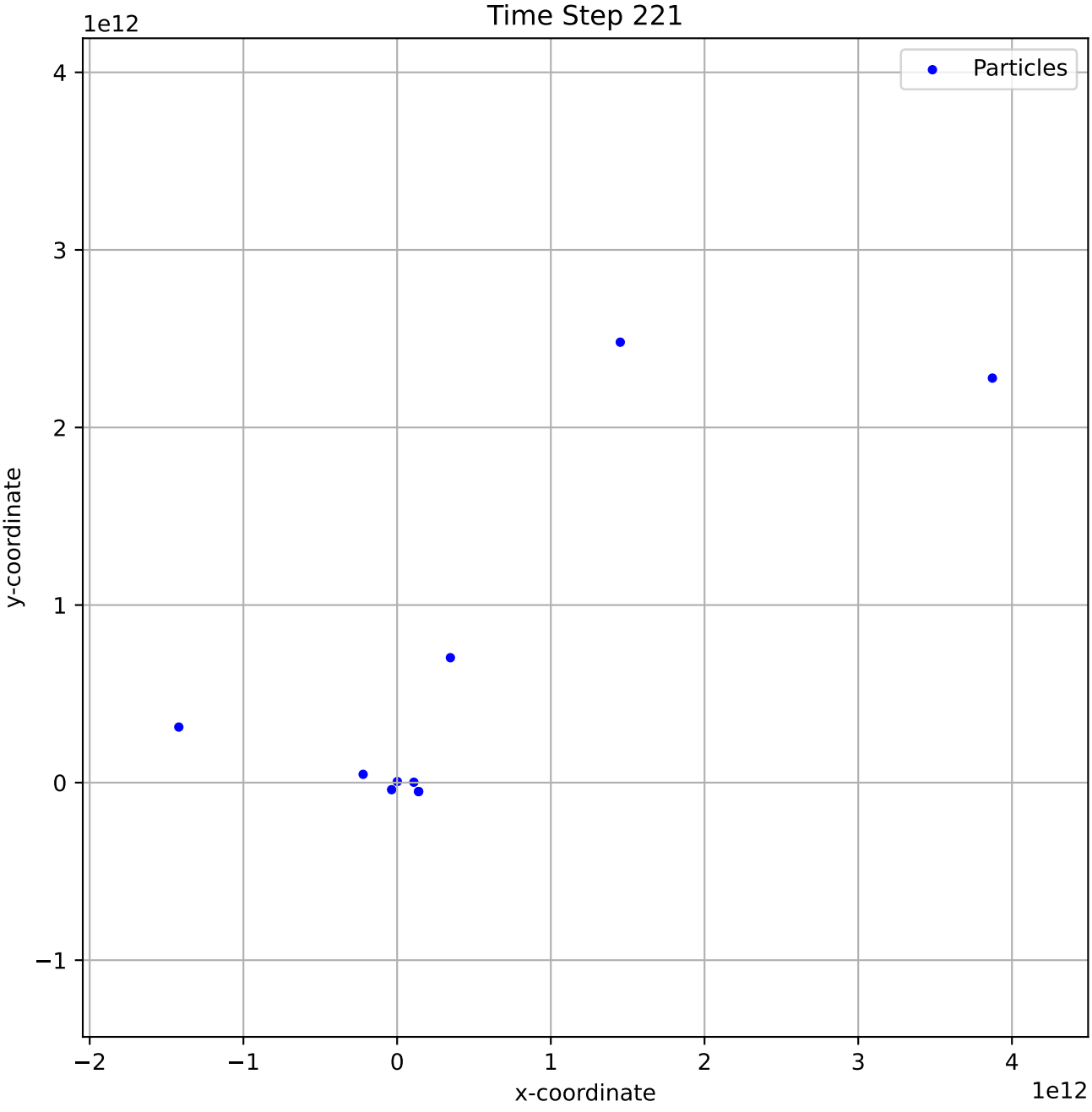

Time Step 216
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

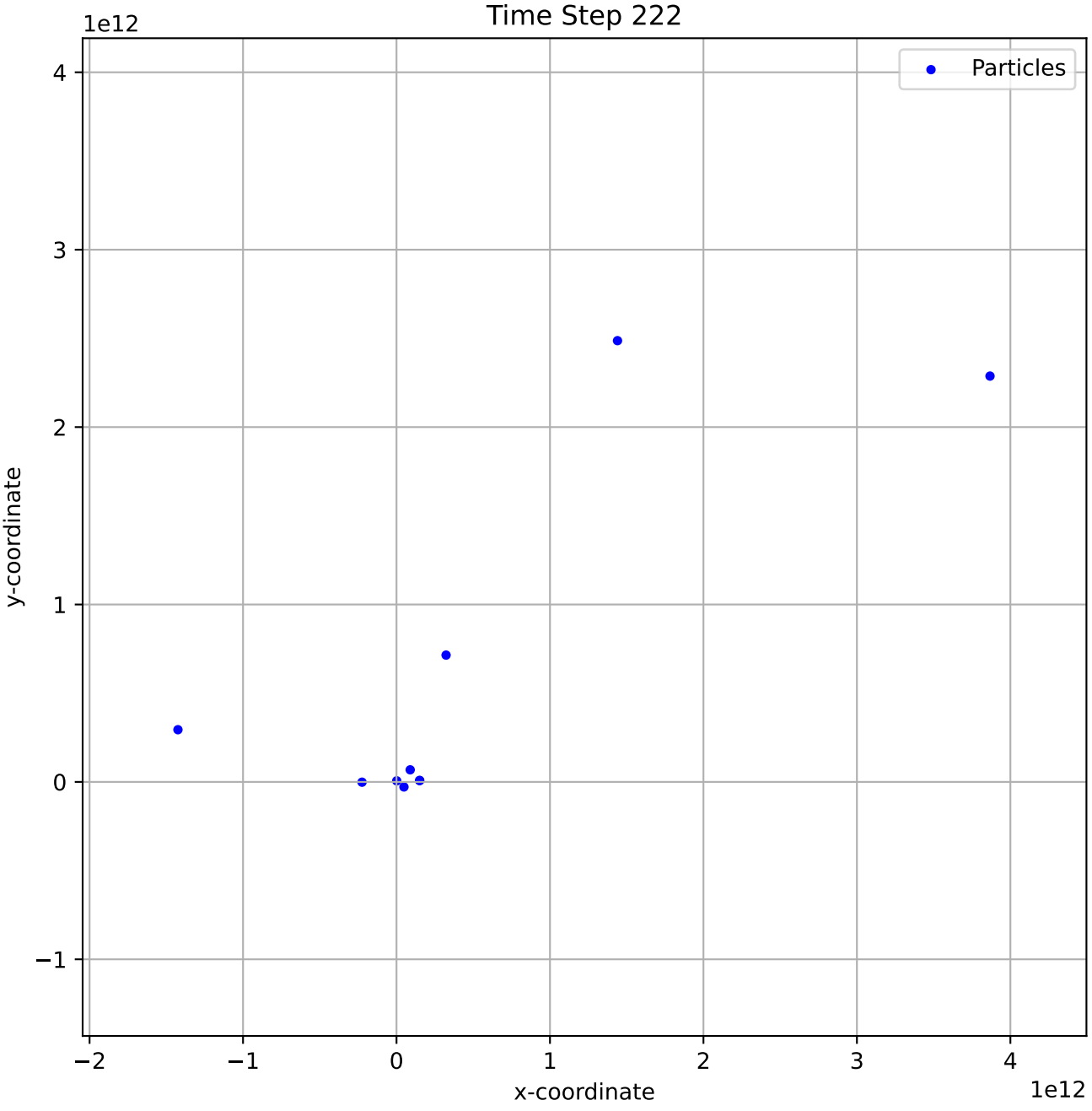

Time Step 217
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

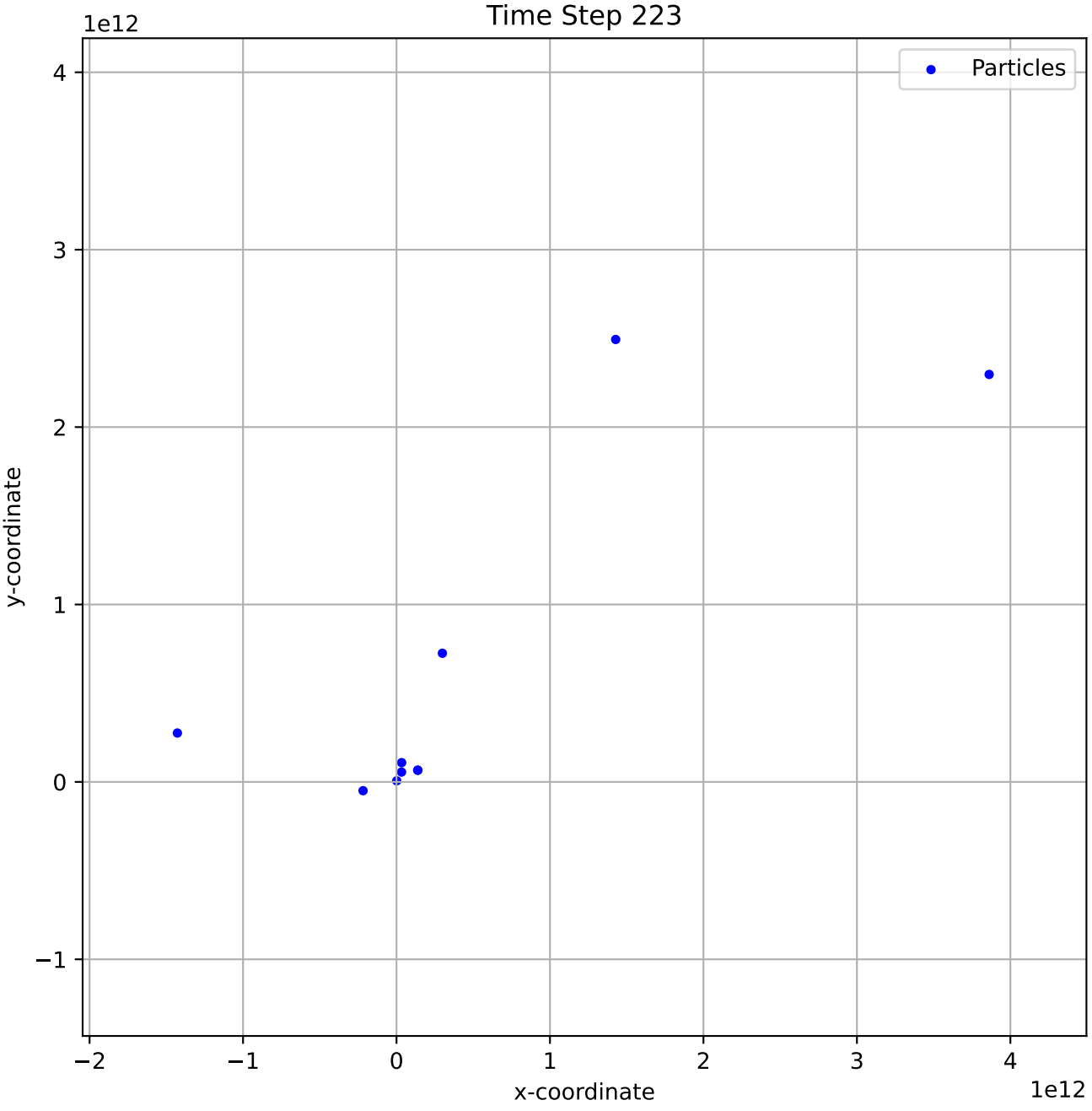

Time Step 218
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

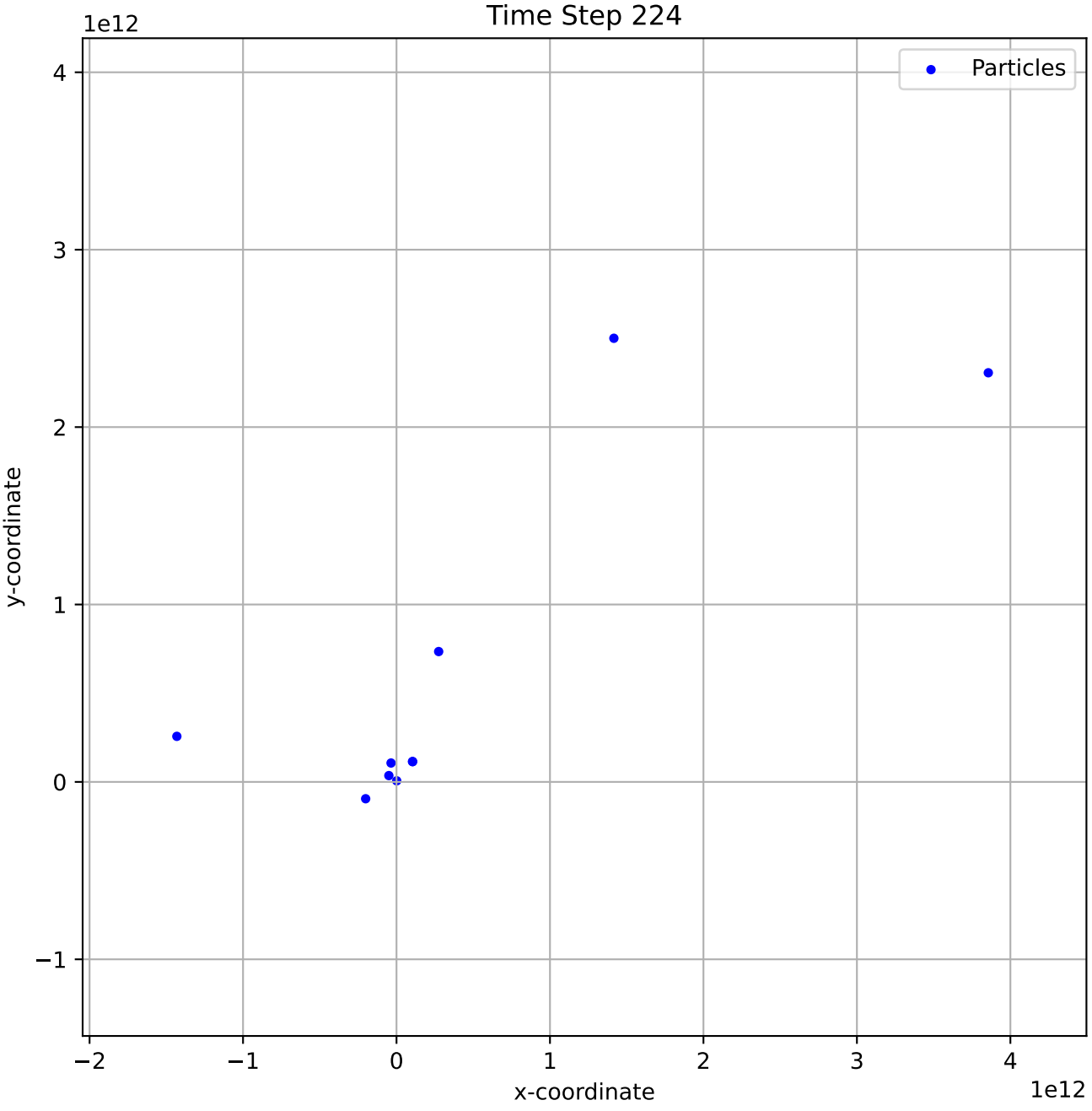

Time Step 219
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

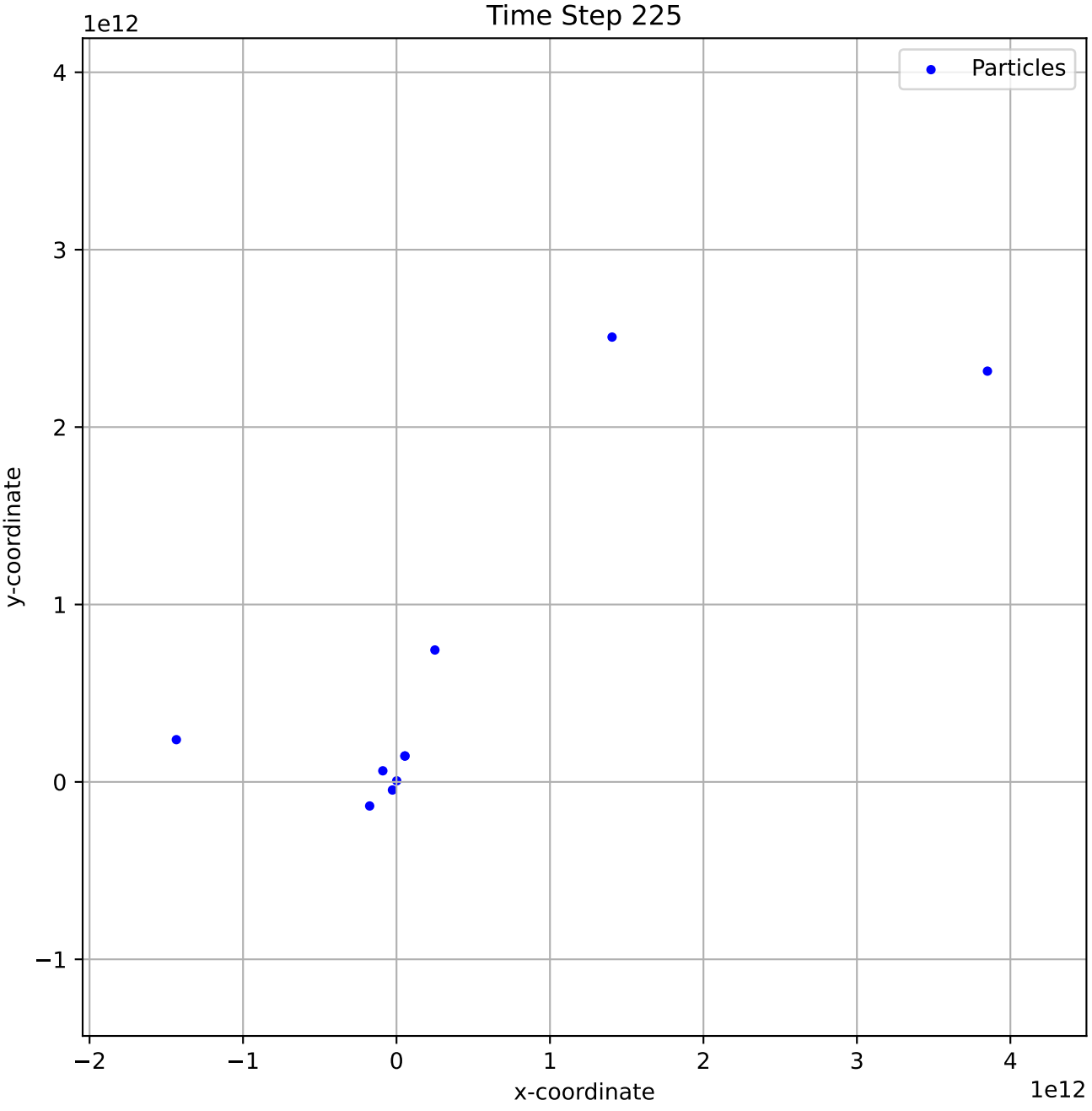

Time Step 220
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

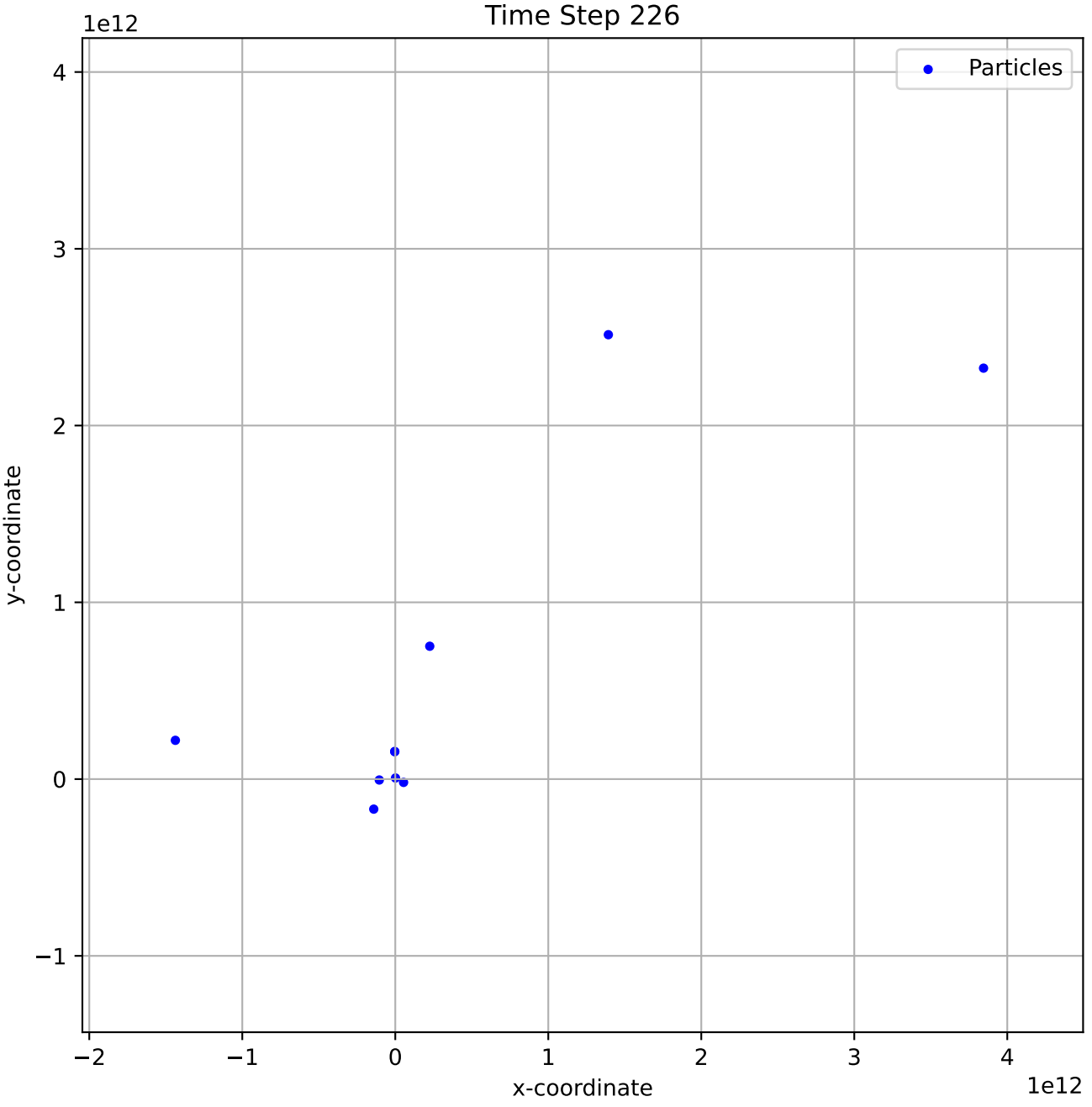

Time Step 221
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

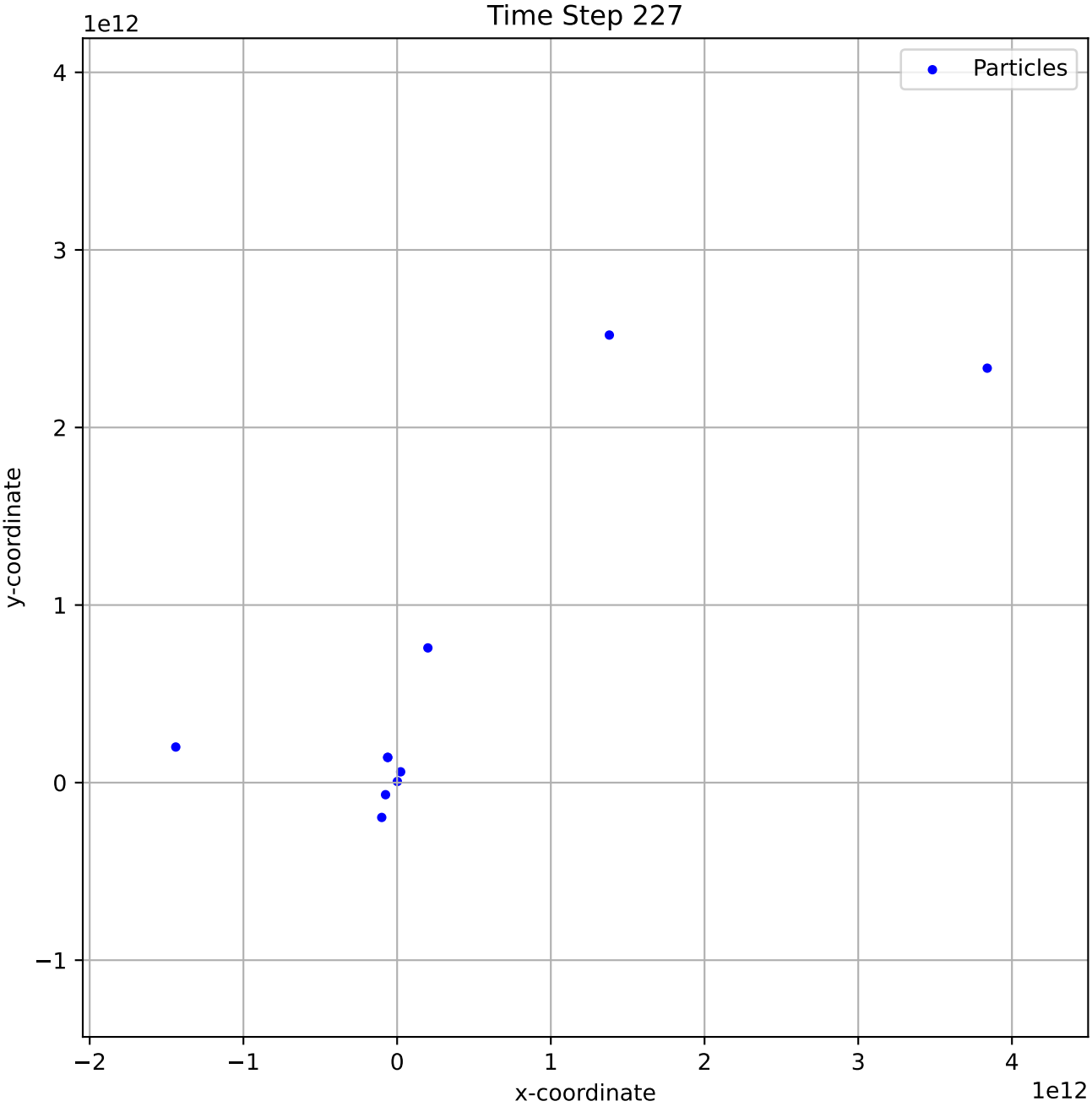

Time Step 222
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

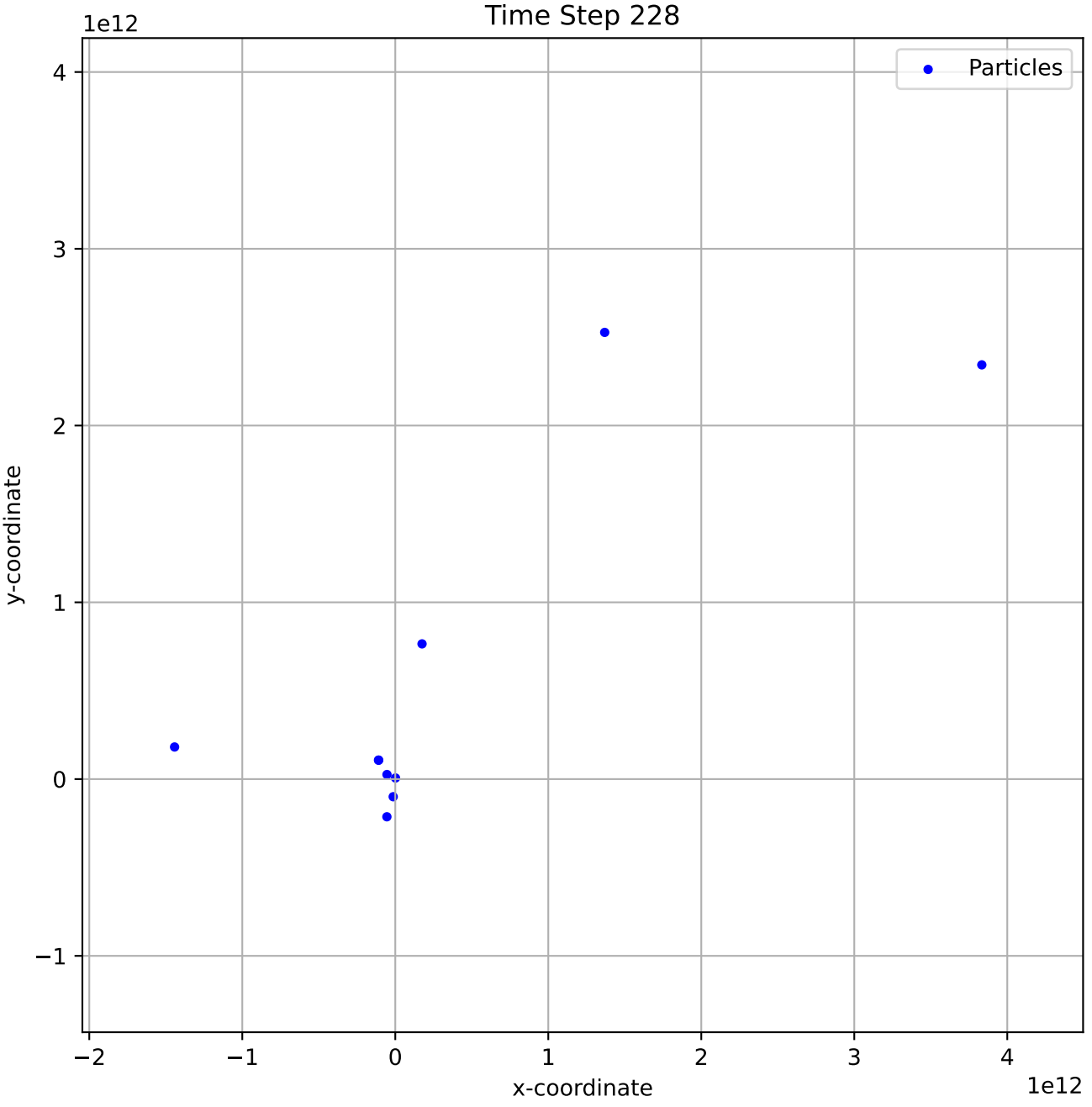

Time Step 223
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

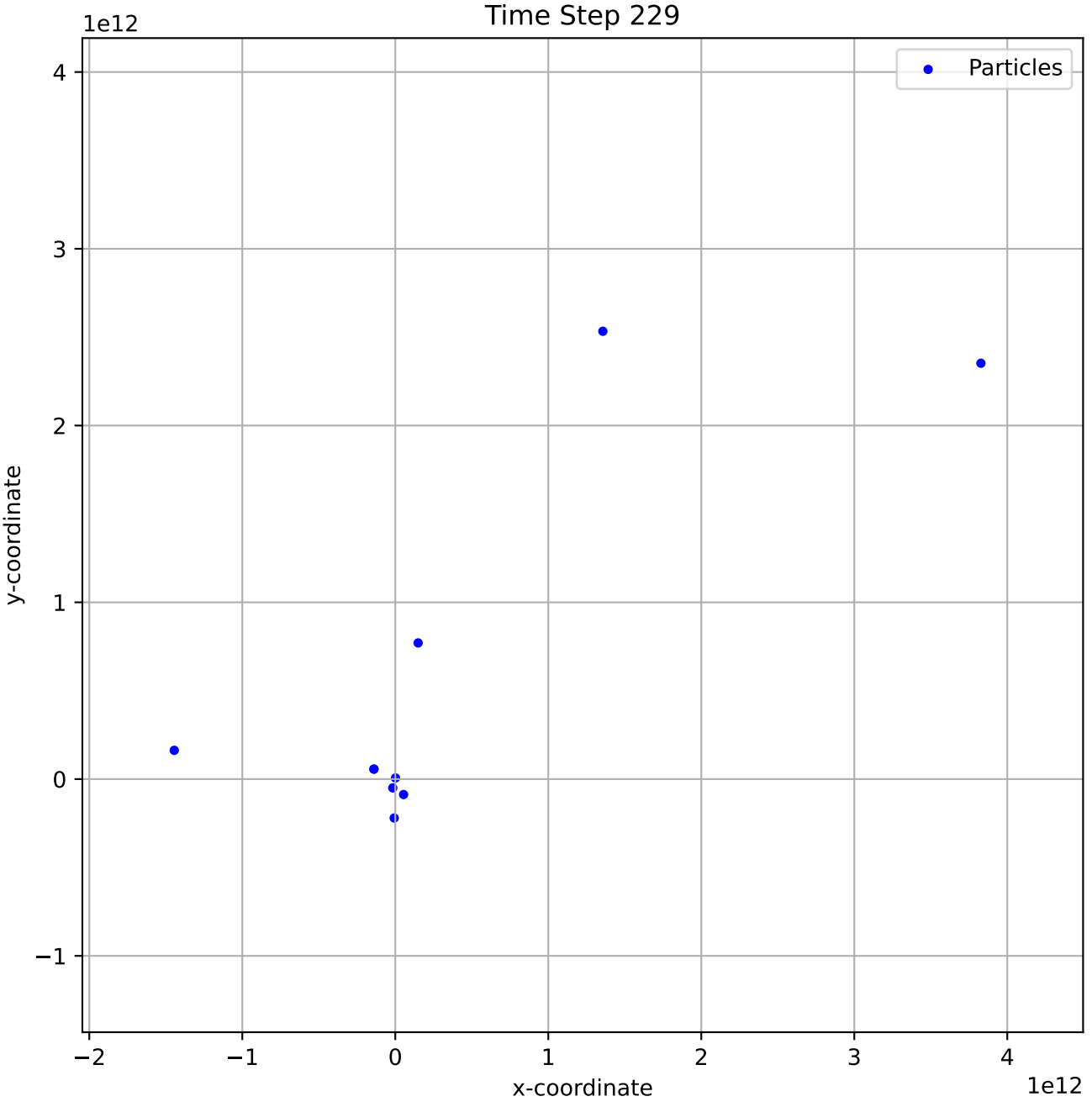

Time Step 224
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

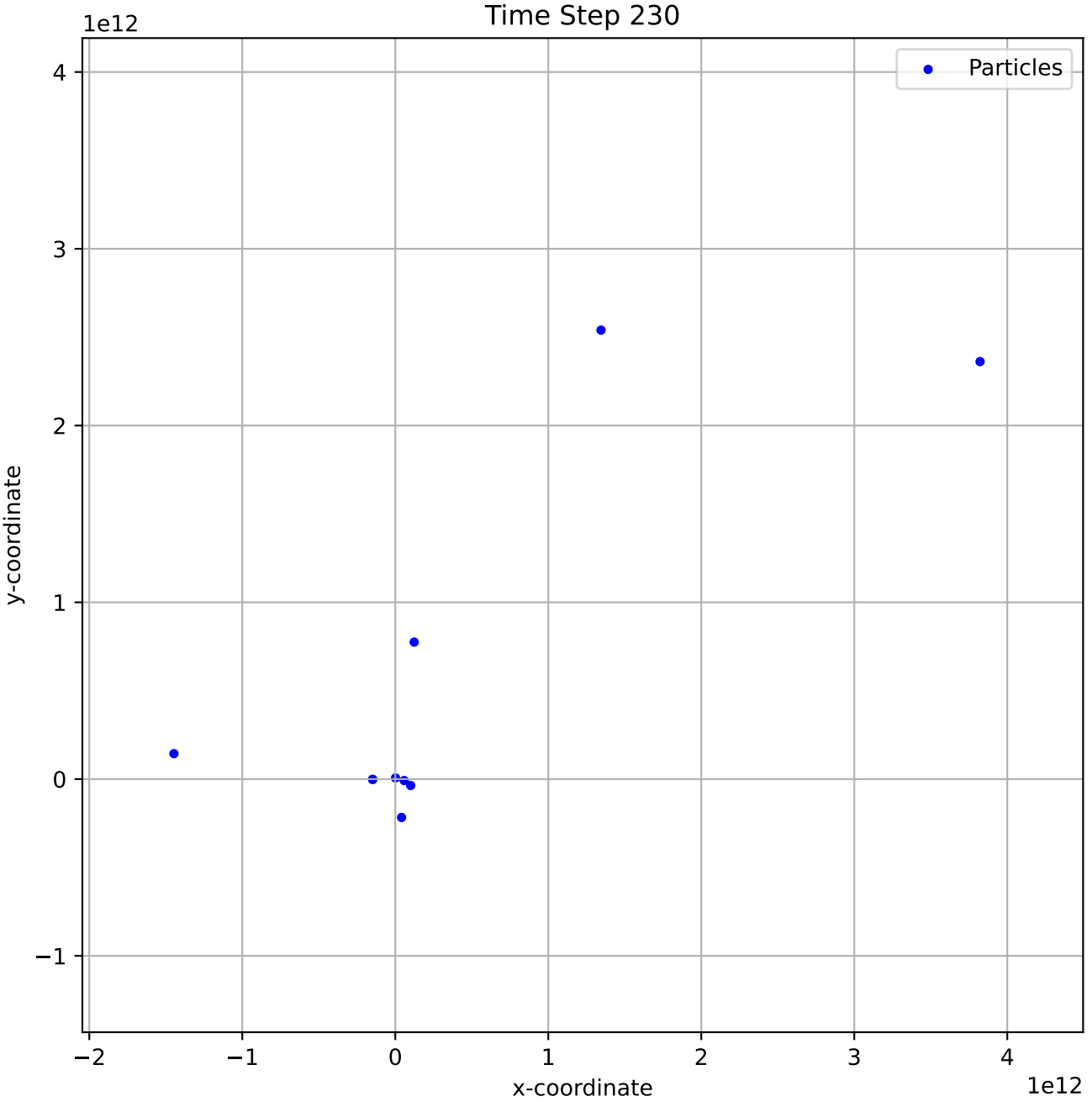

Time Step 225
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

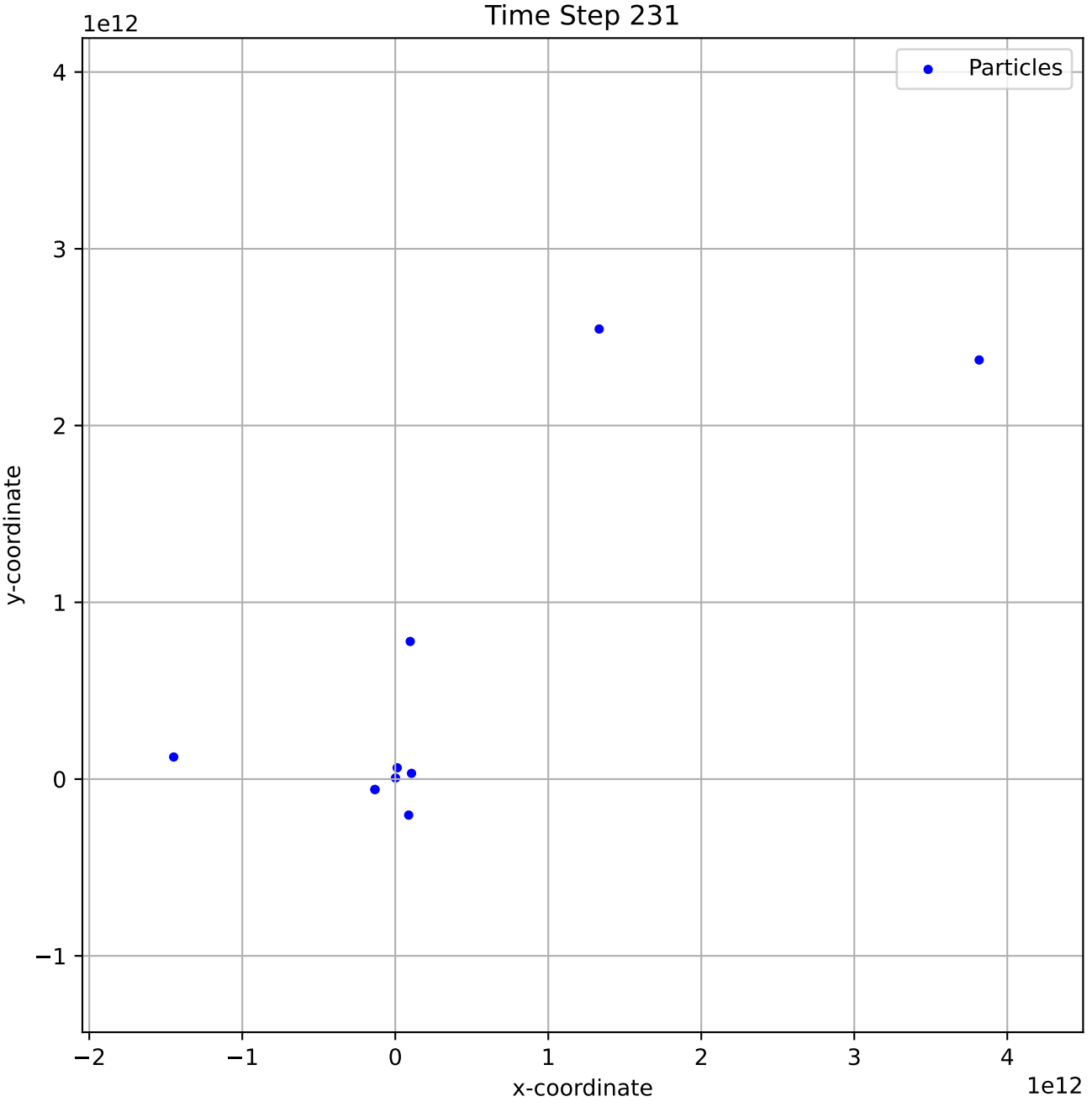

Time Step 226
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

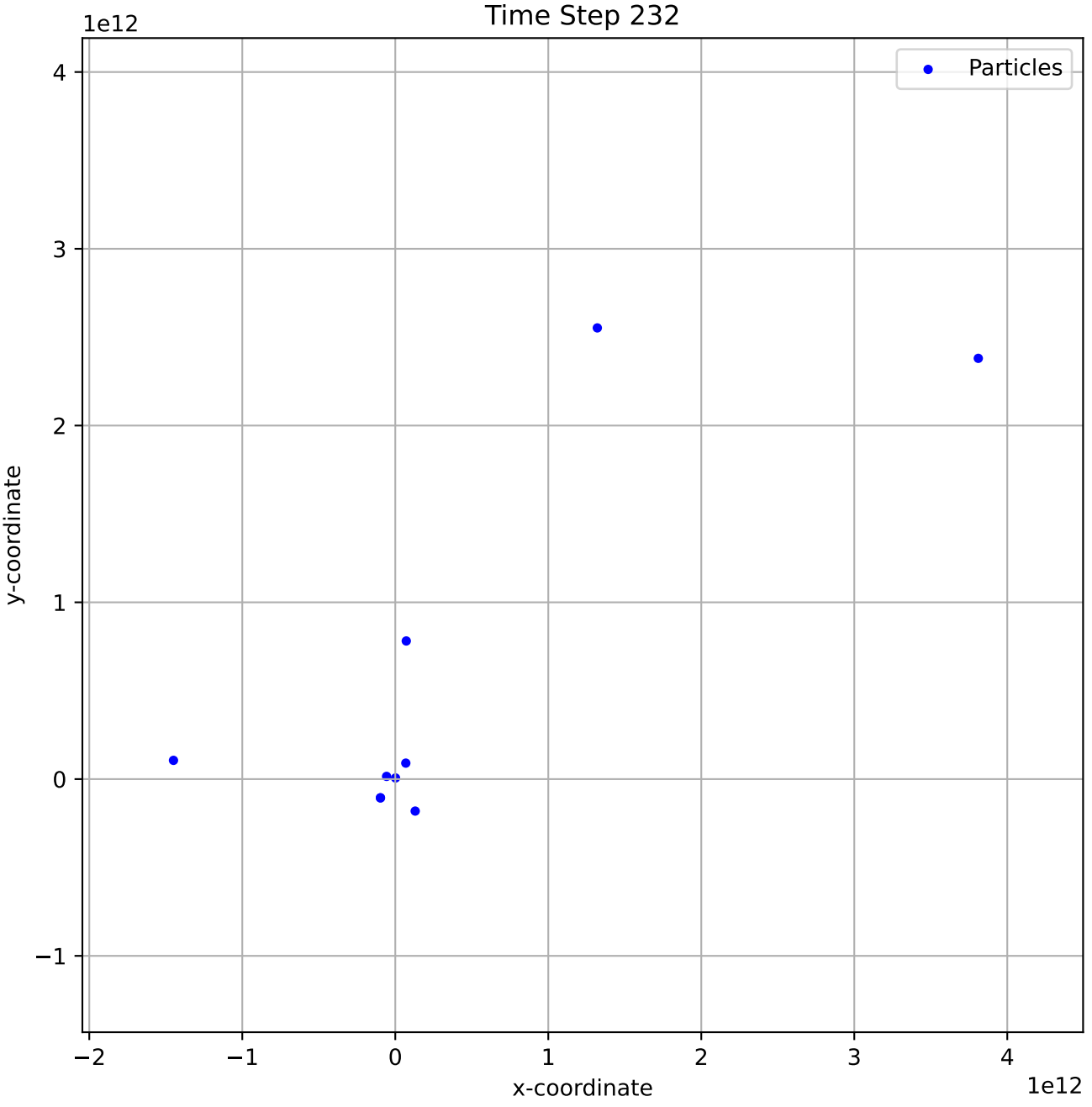

Time Step 227
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

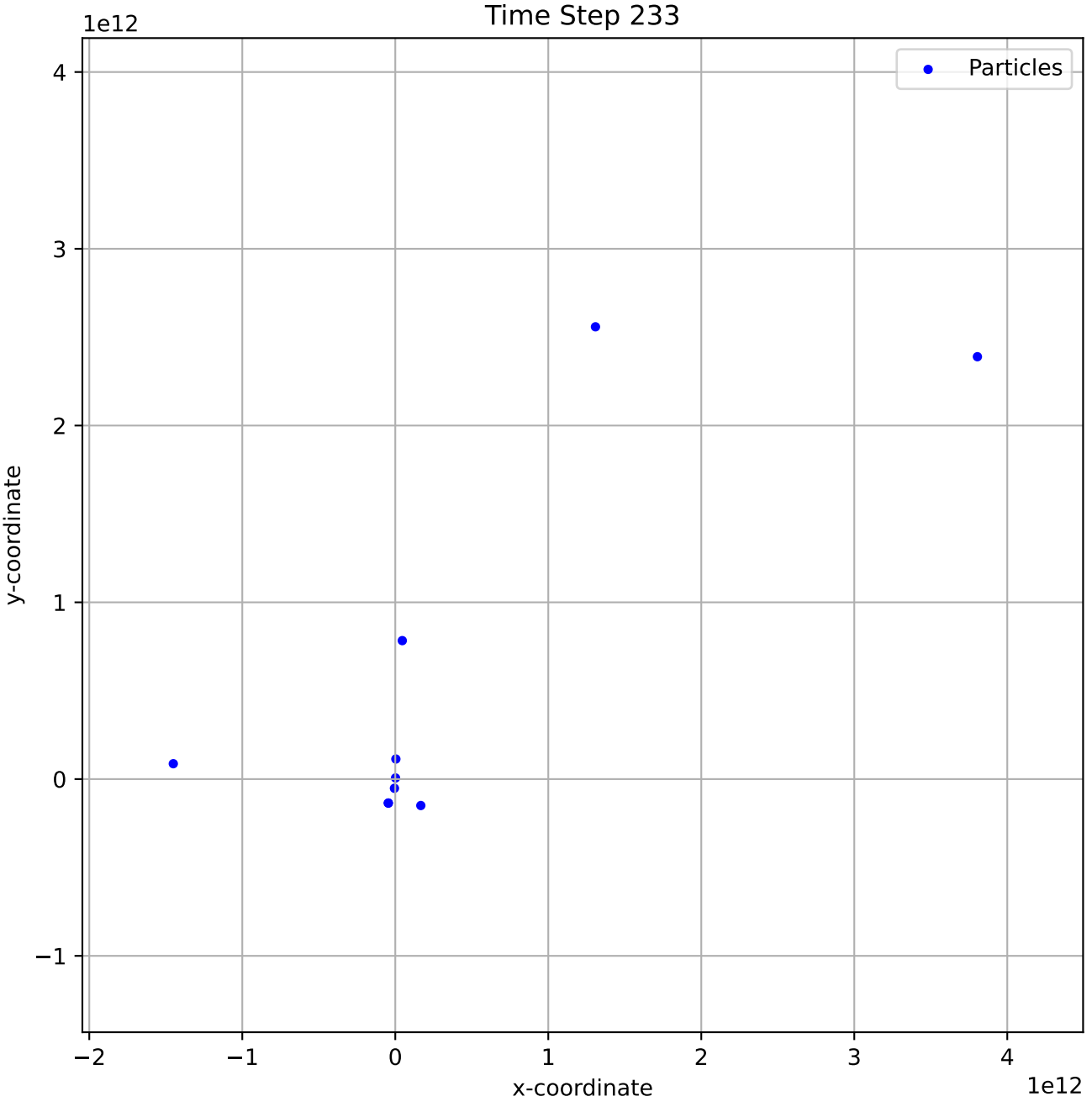

Time Step 228
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

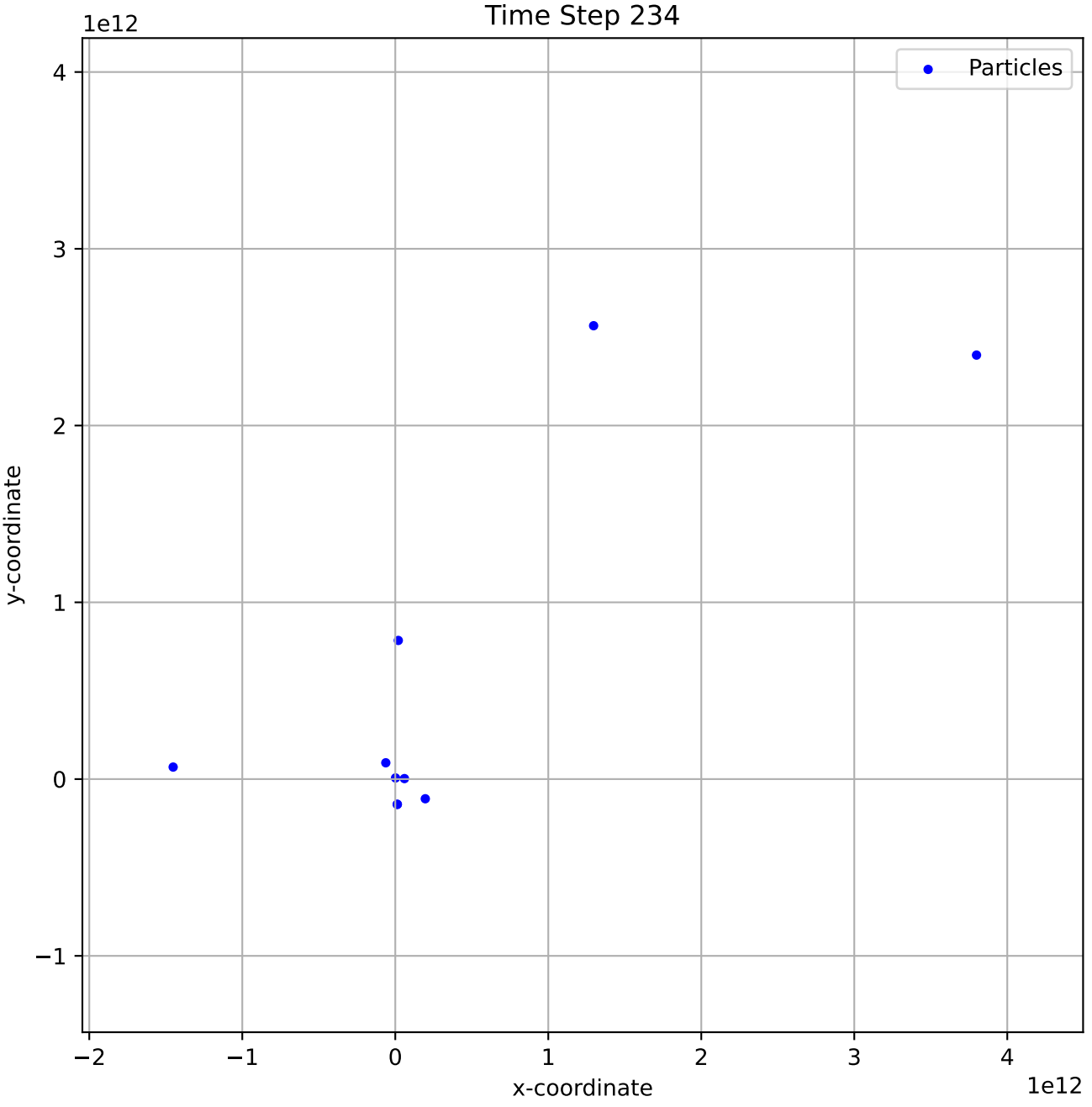

Time Step 229
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

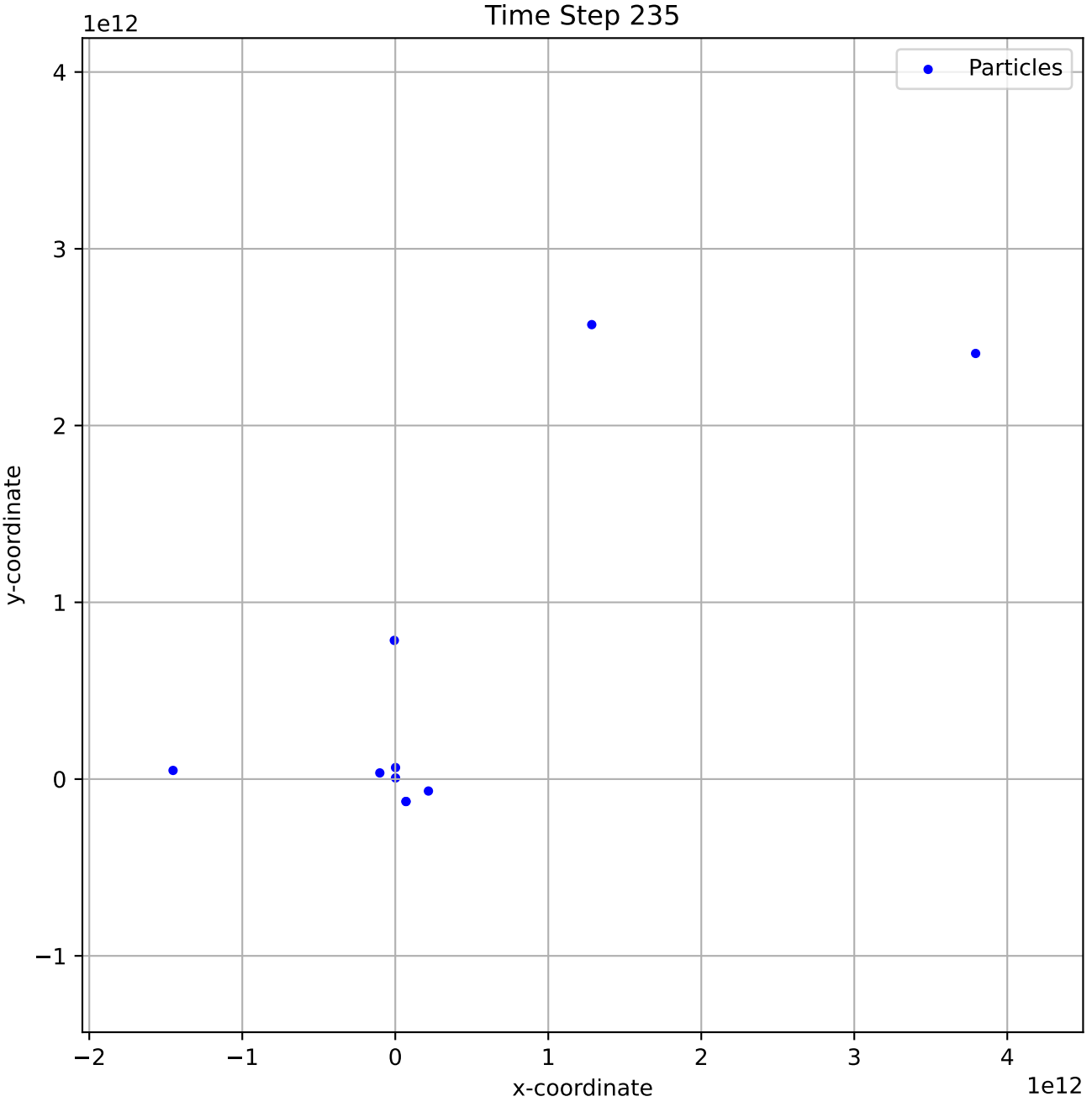

Time Step 230
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

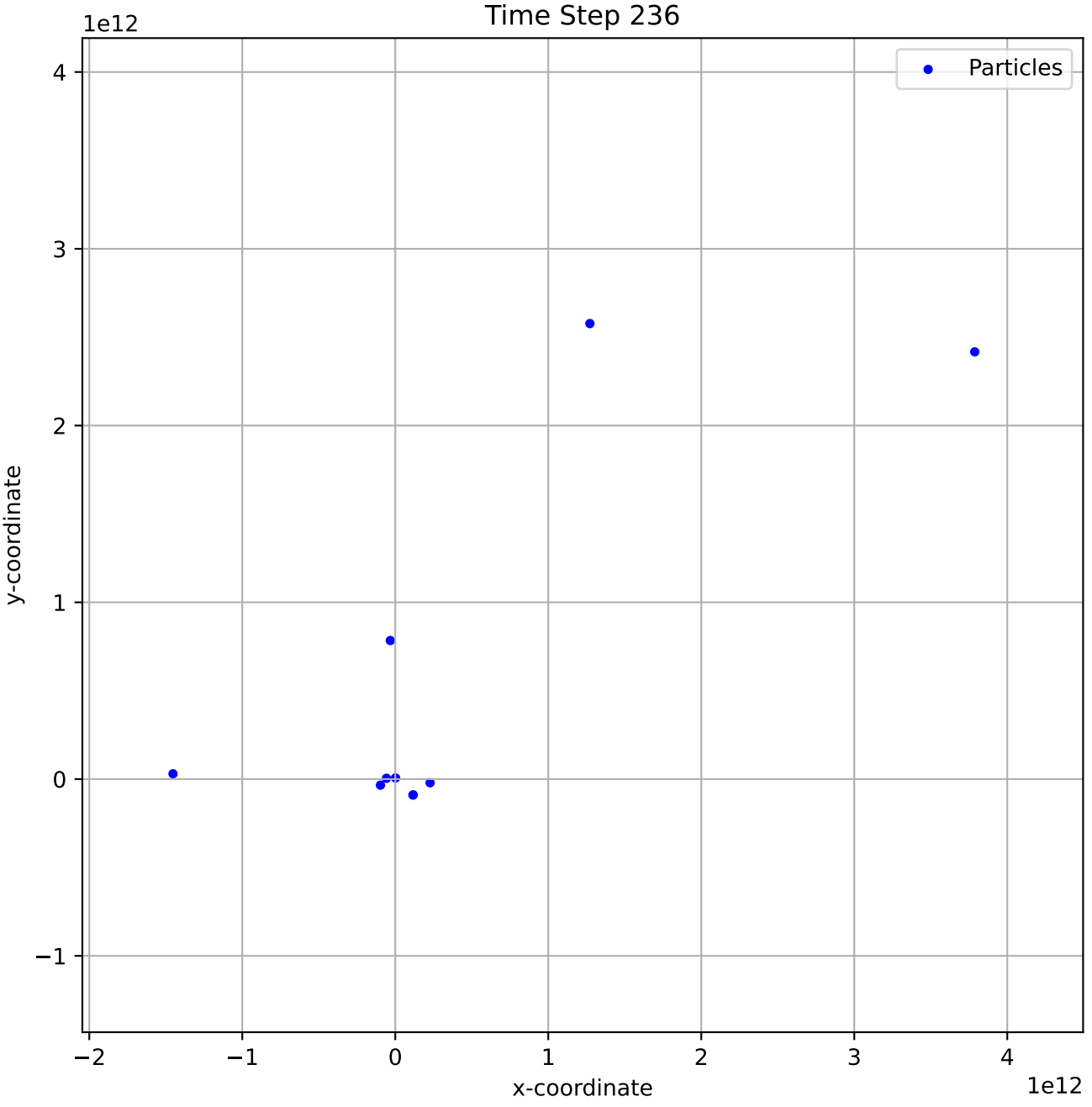

Time Step 231
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

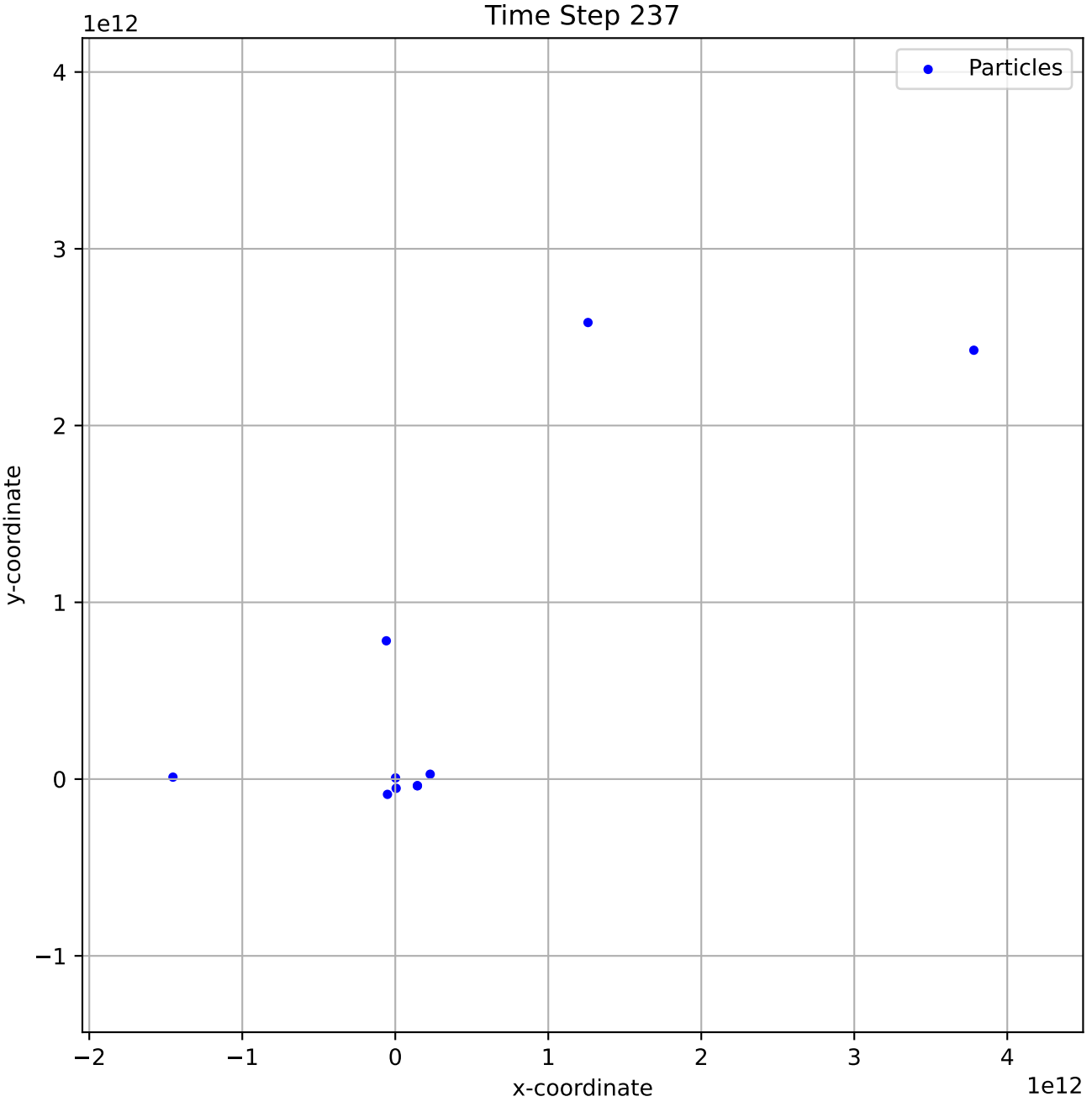

Time Step 232
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

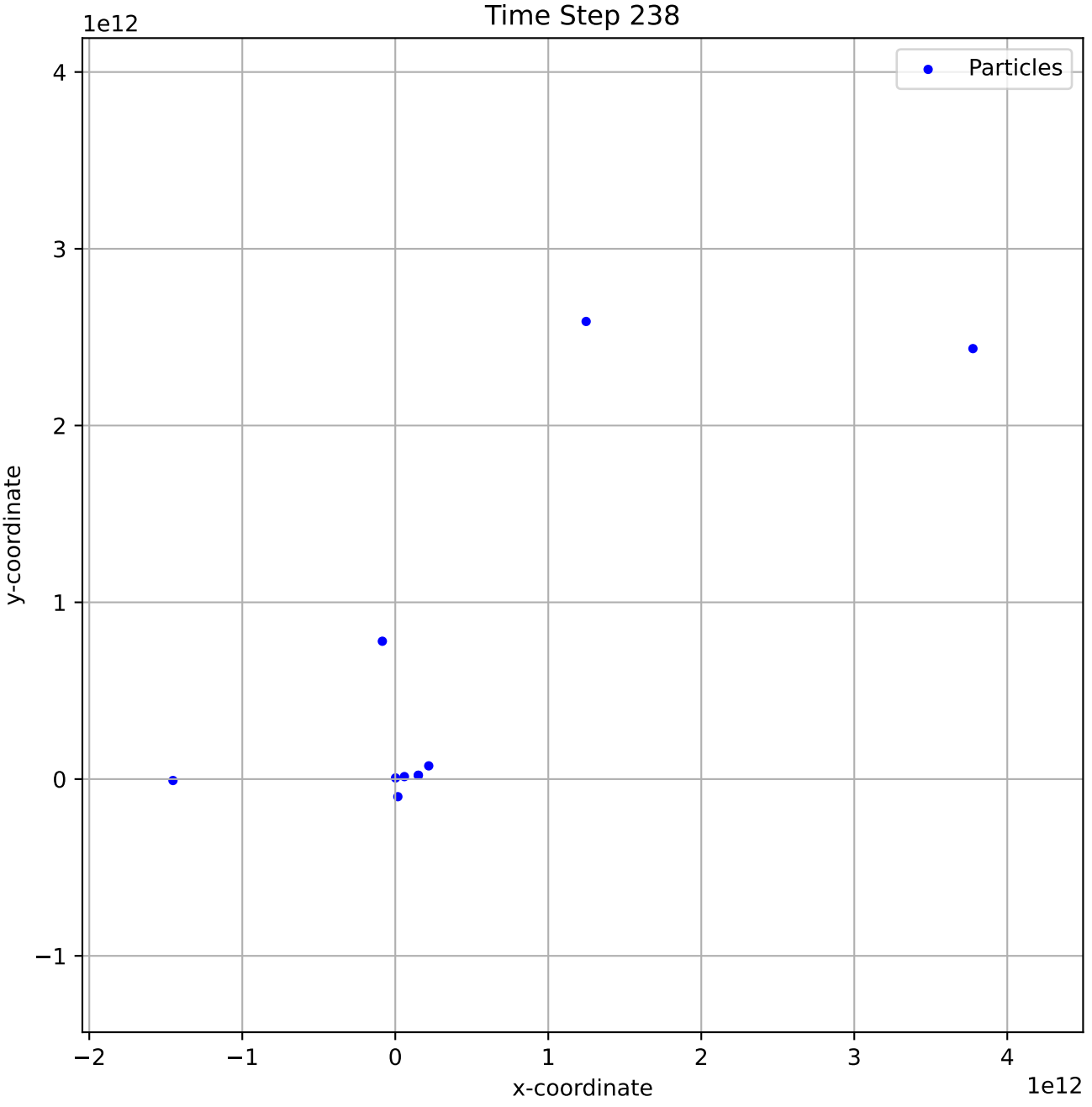

Time Step 233
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

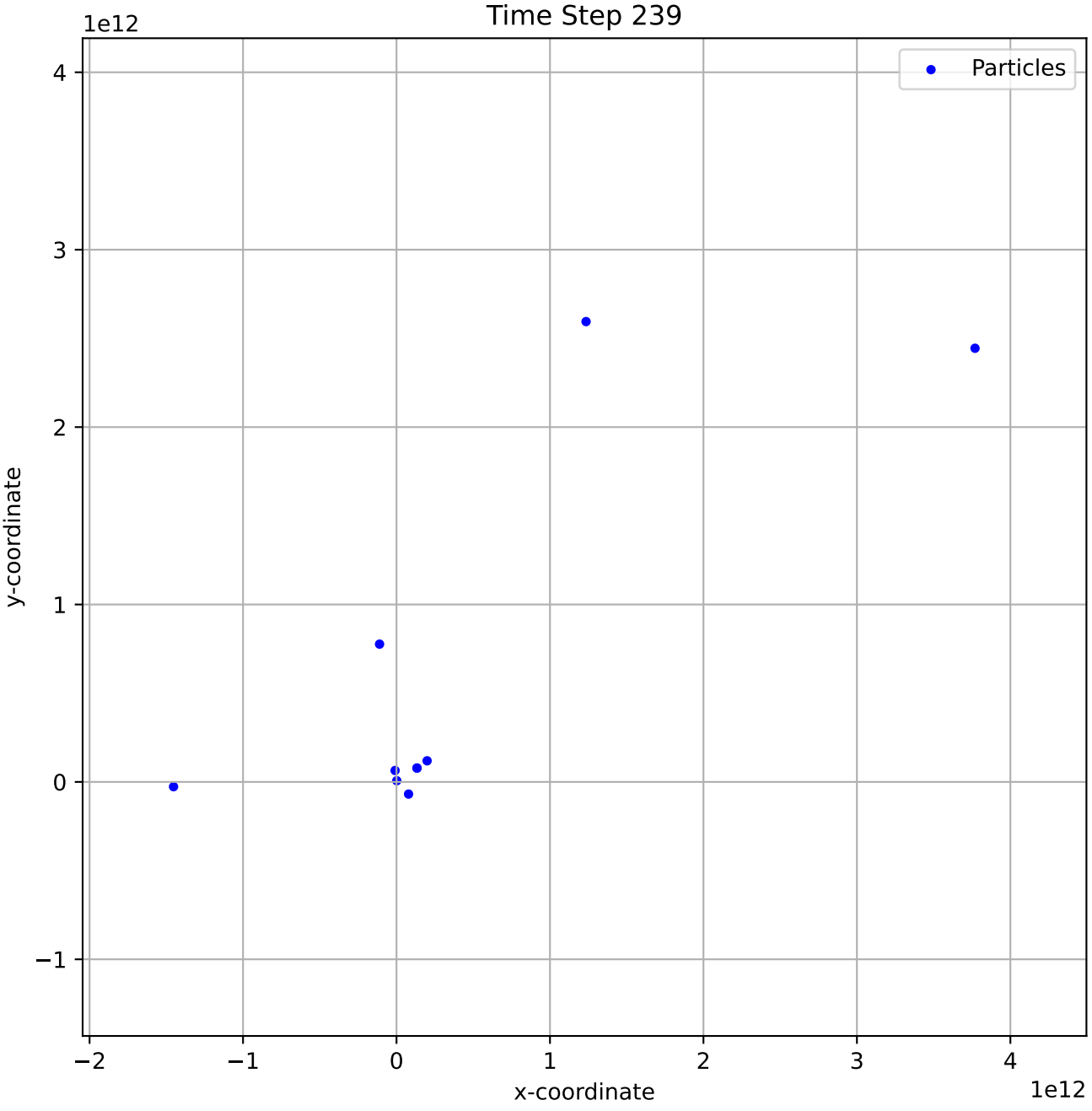

Time Step 234
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

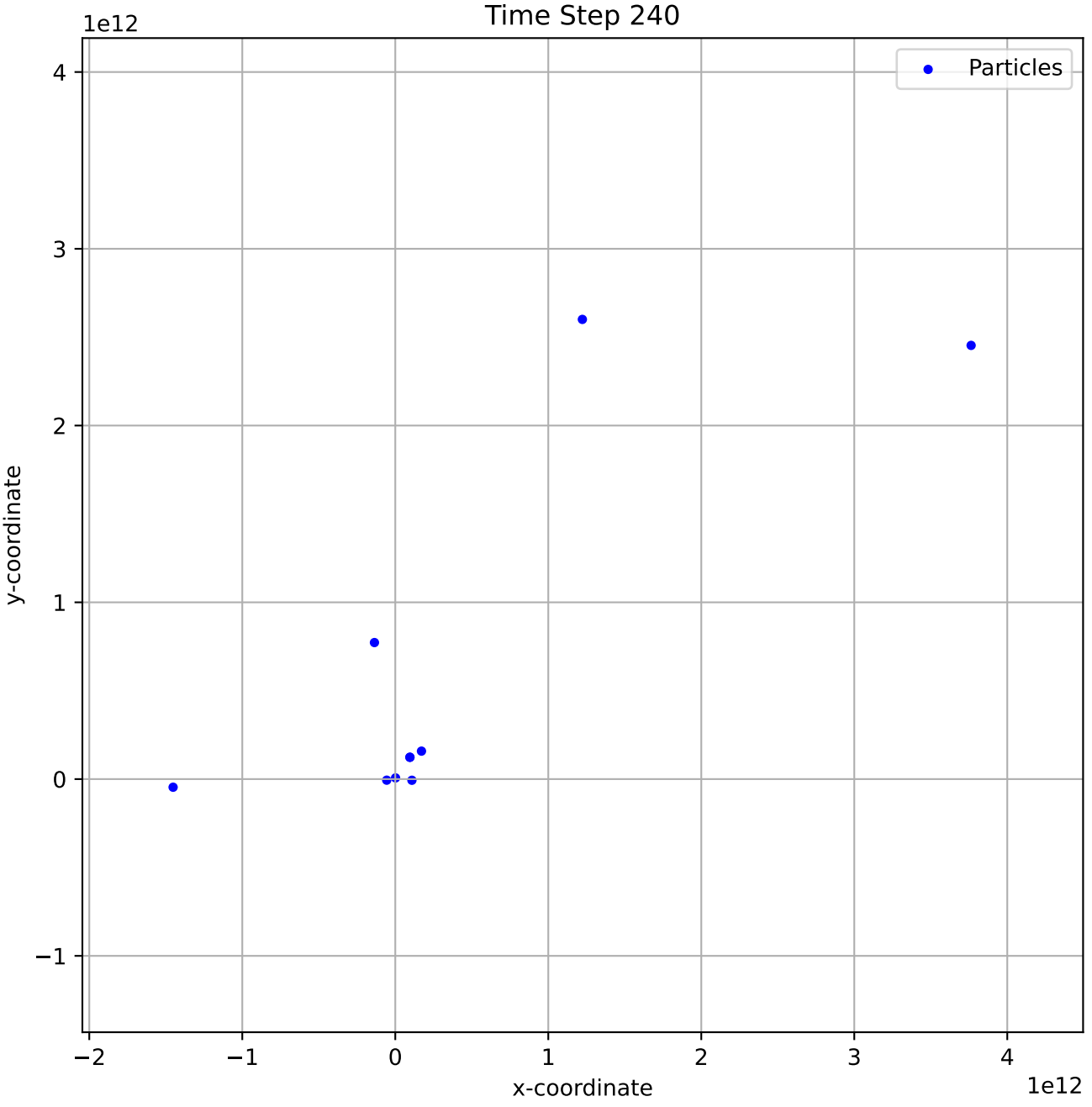

Time Step 235
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

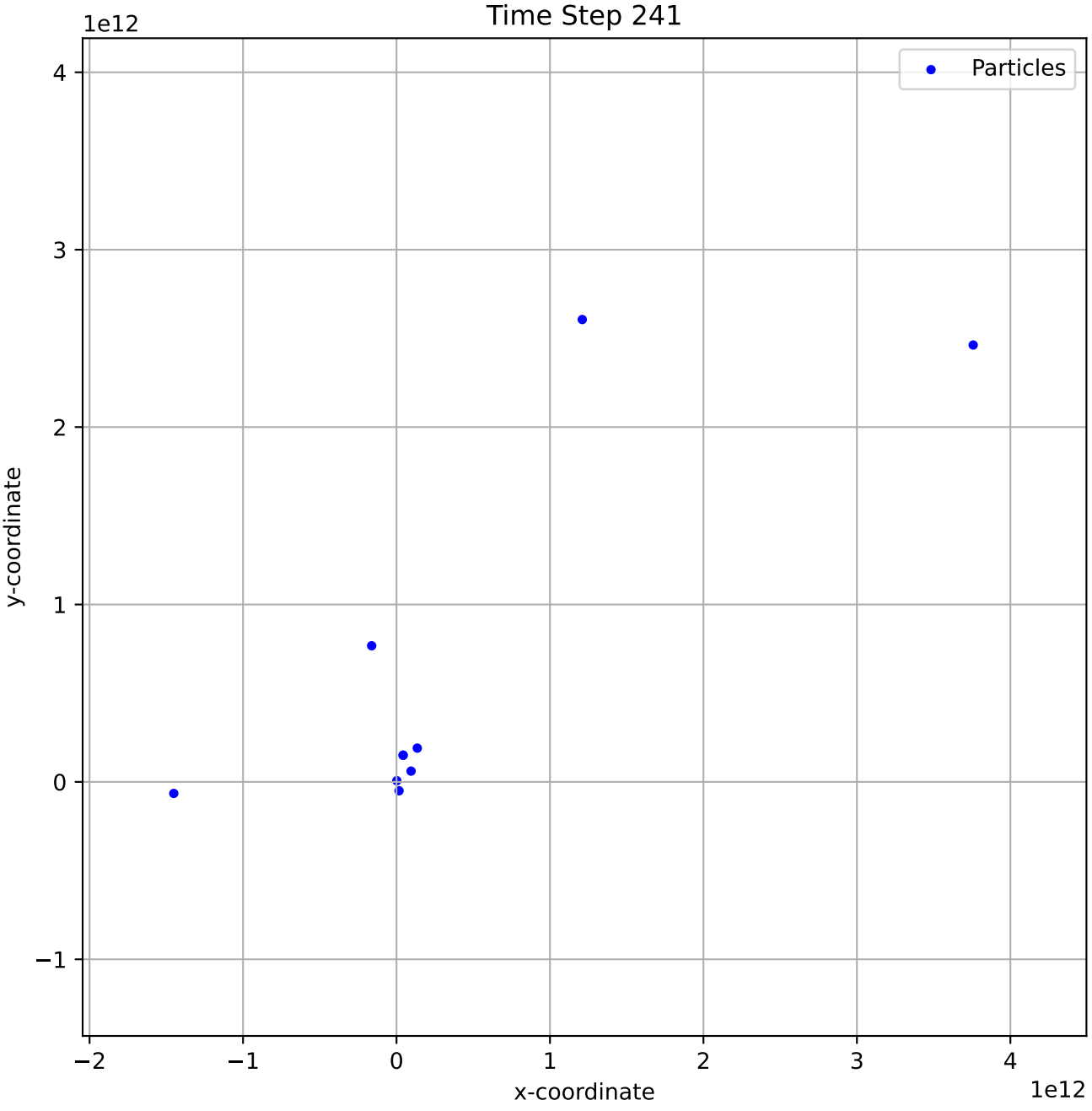

Time Step 236
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

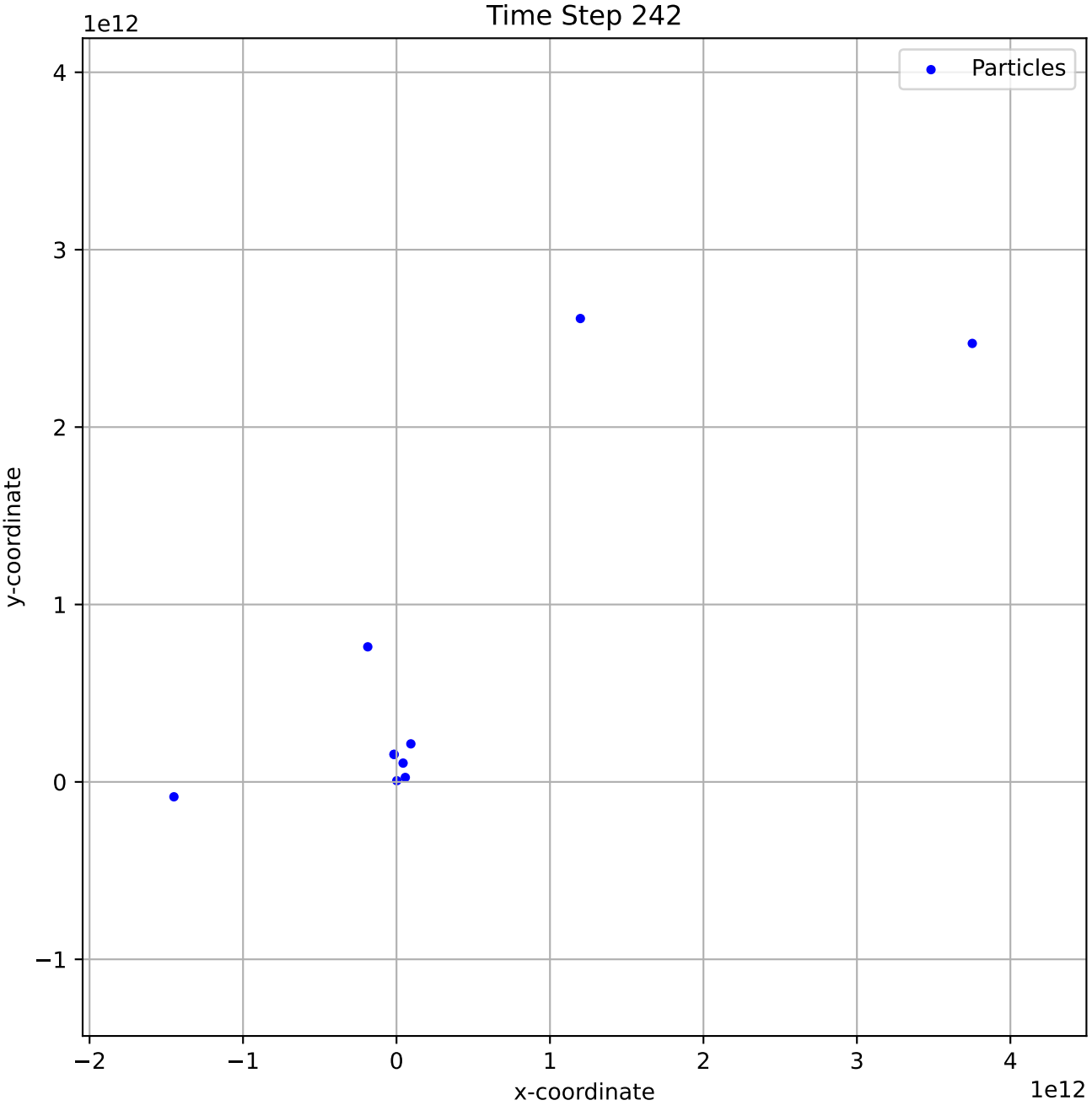

Time Step 237
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

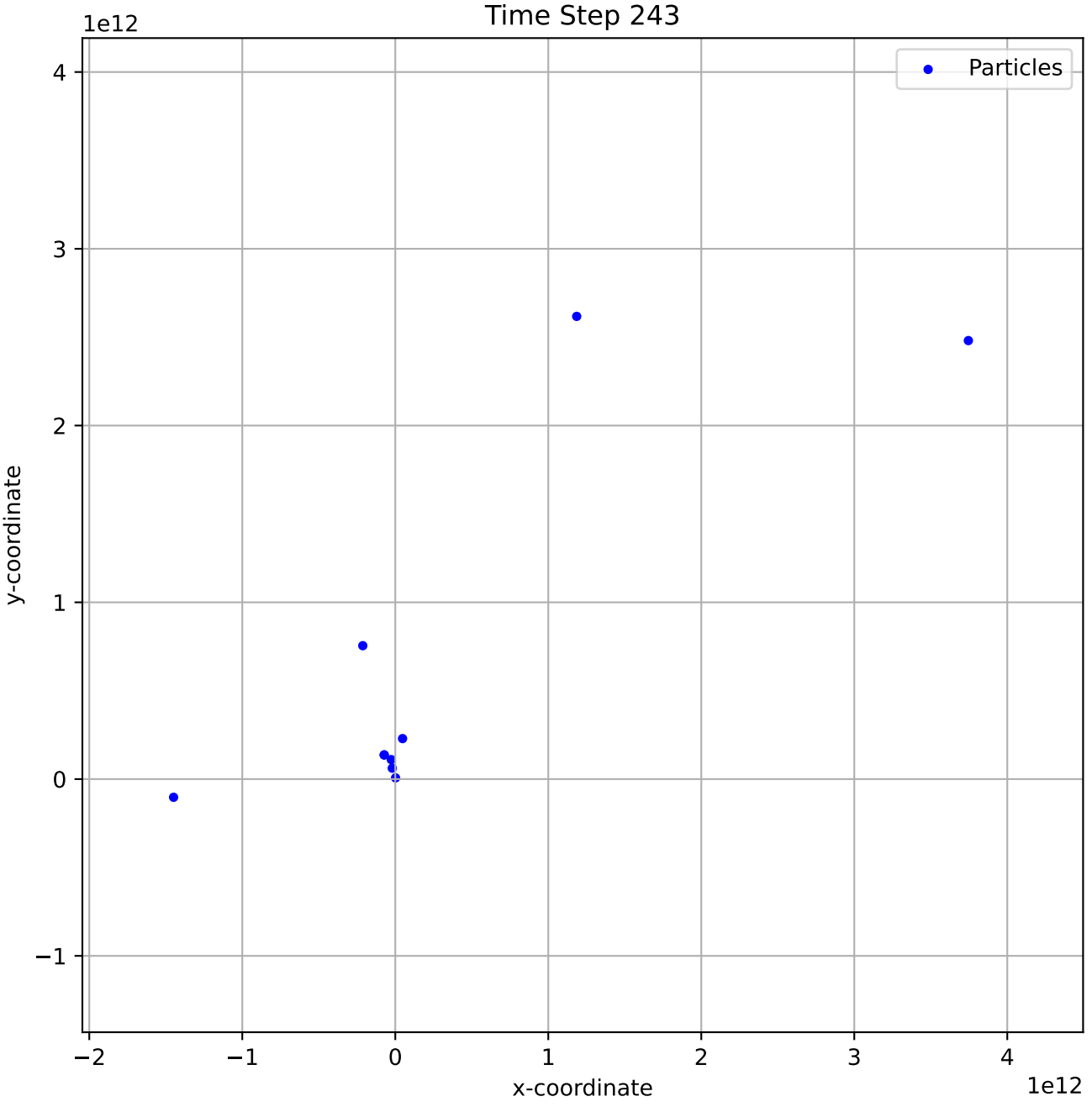

Time Step 238
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

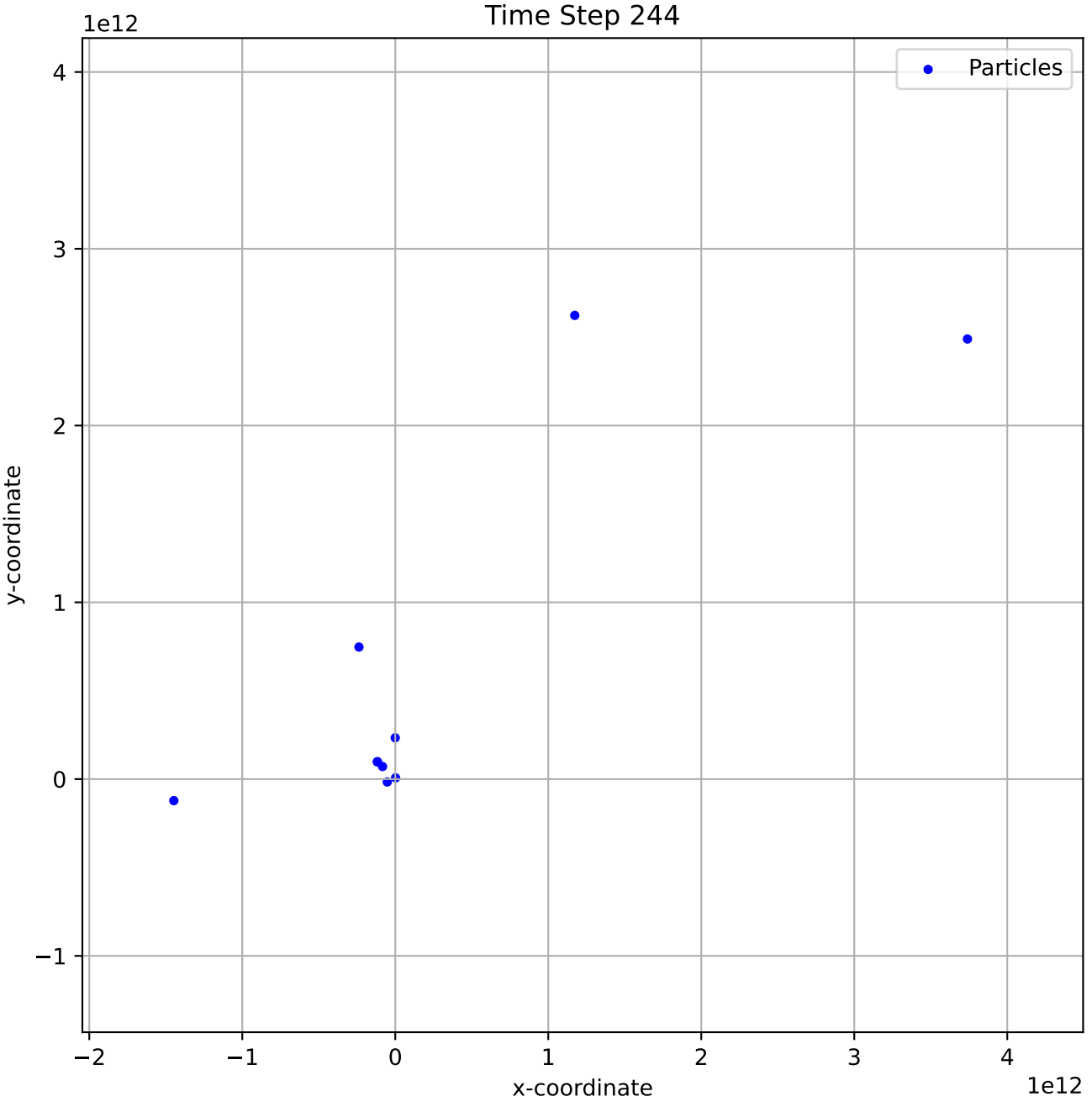

Time Step 239
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

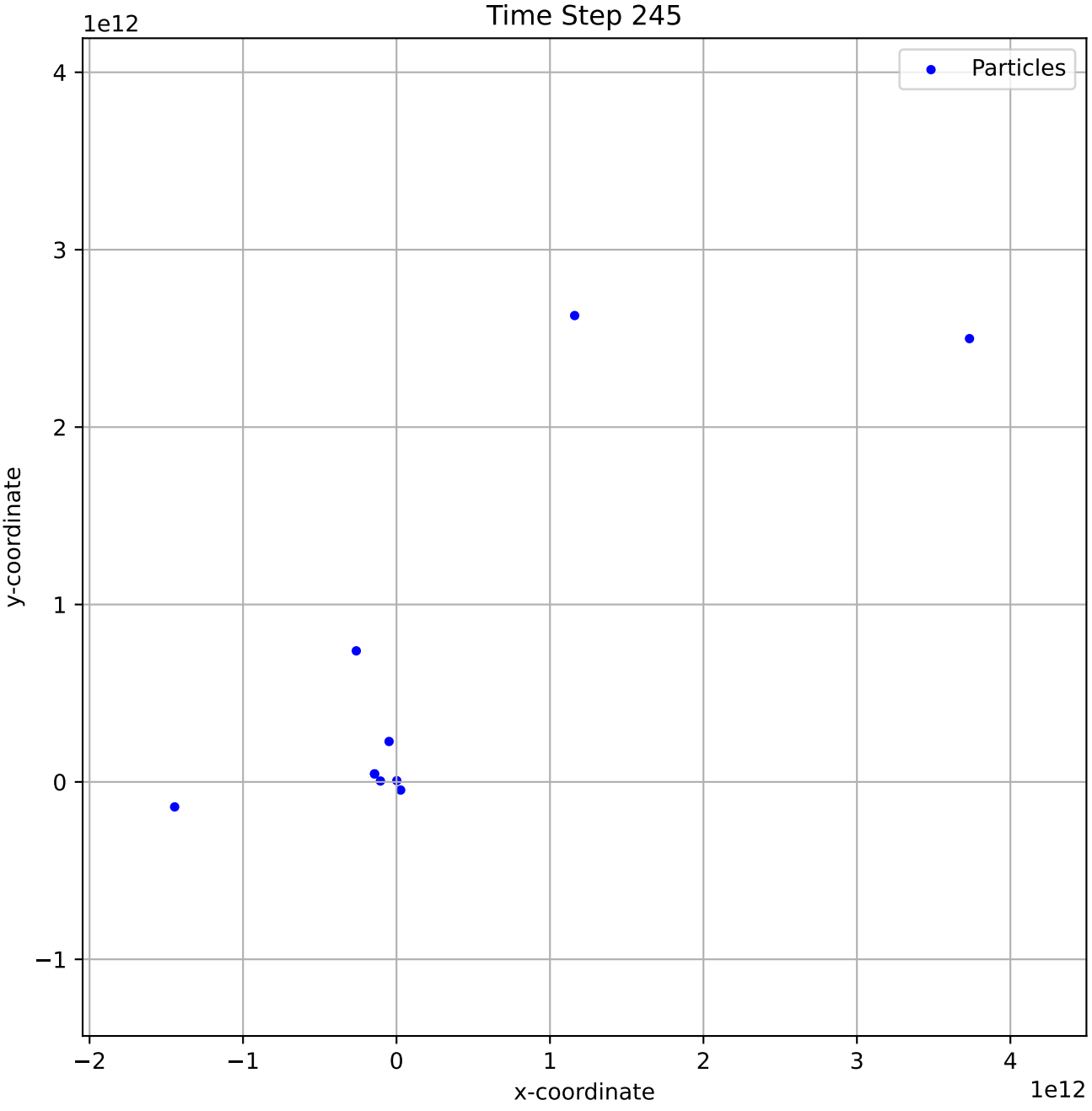

Time Step 240
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

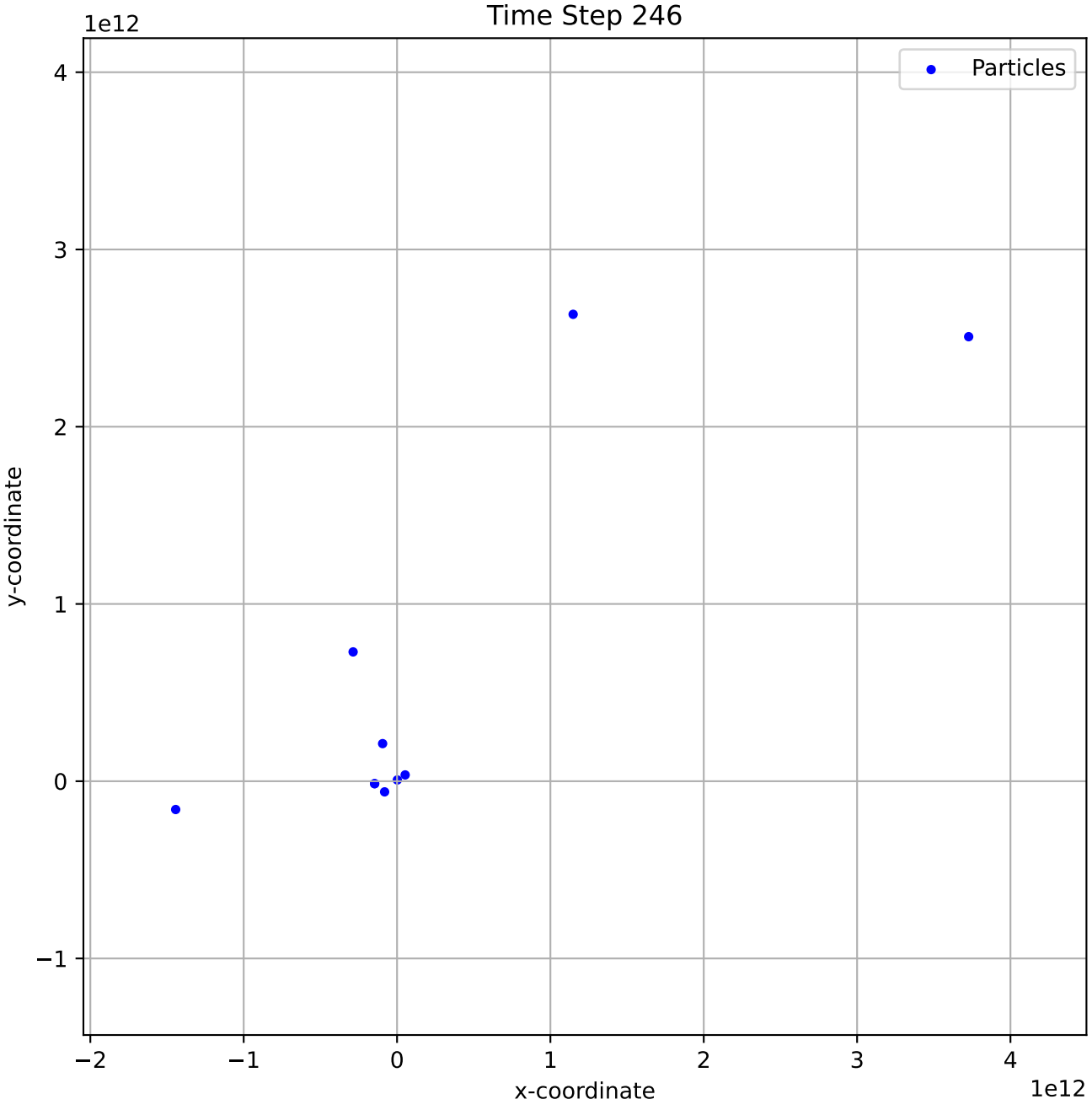

Time Step 241
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

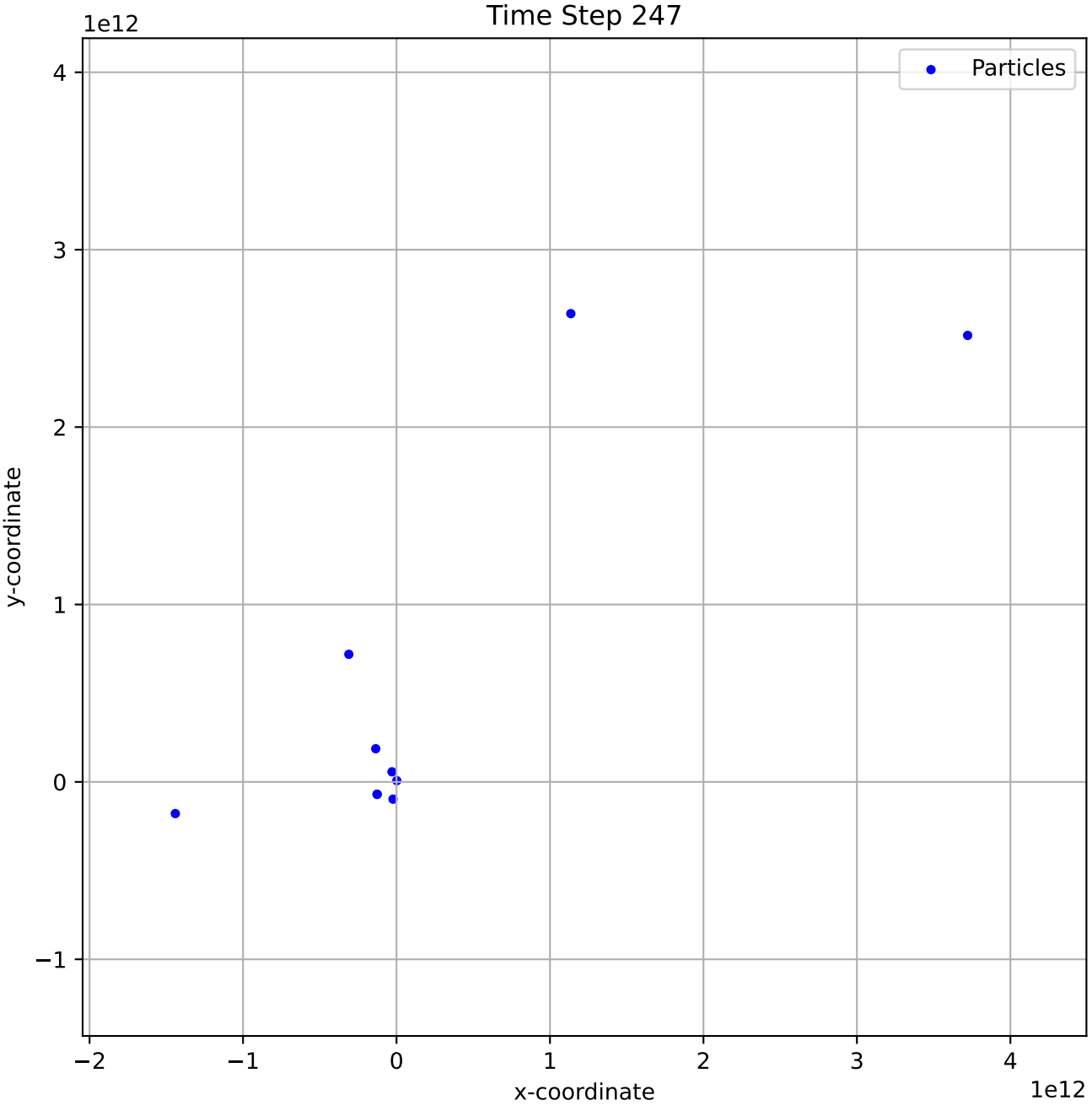

Time Step 242
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

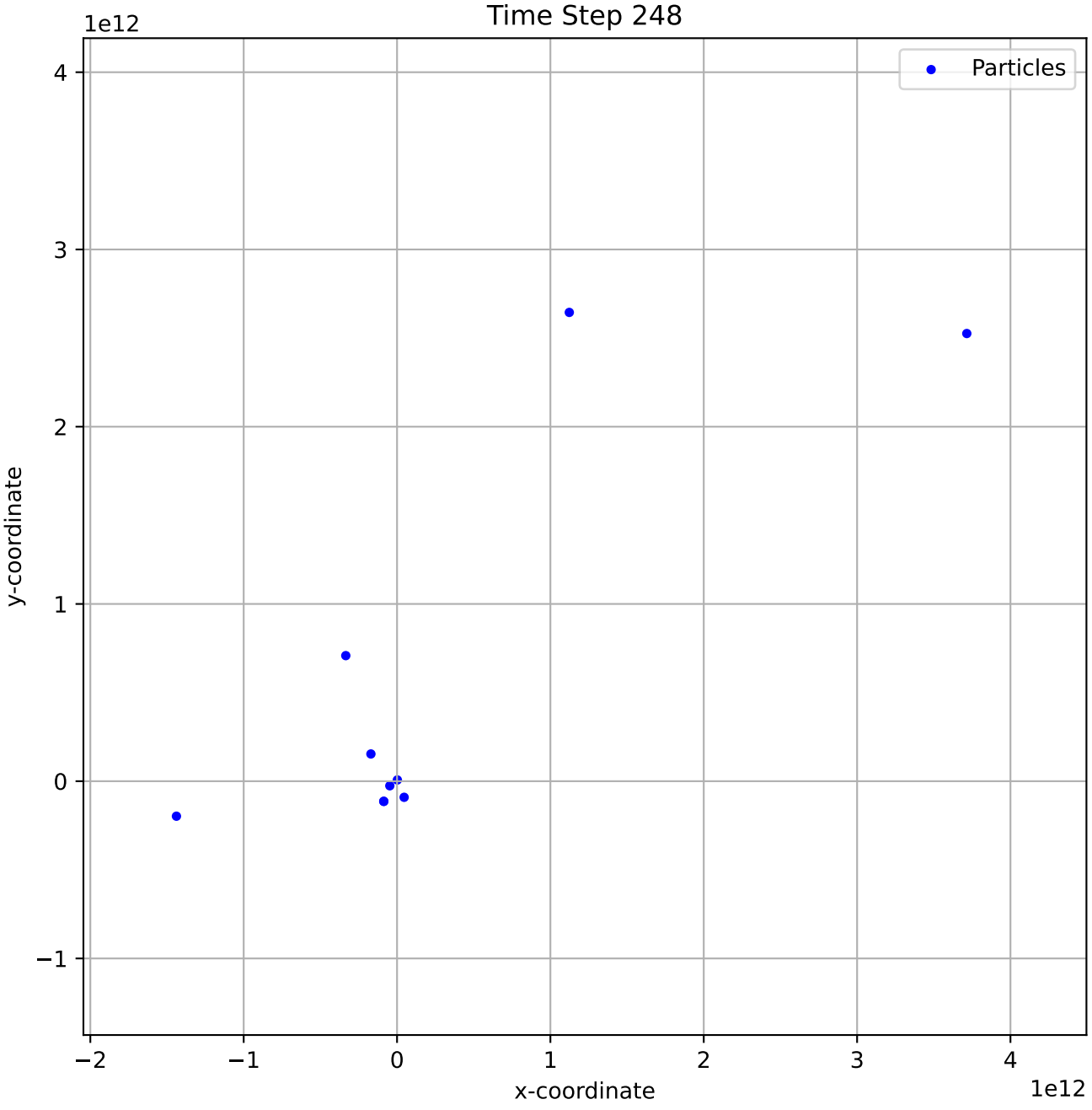

Time Step 243
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

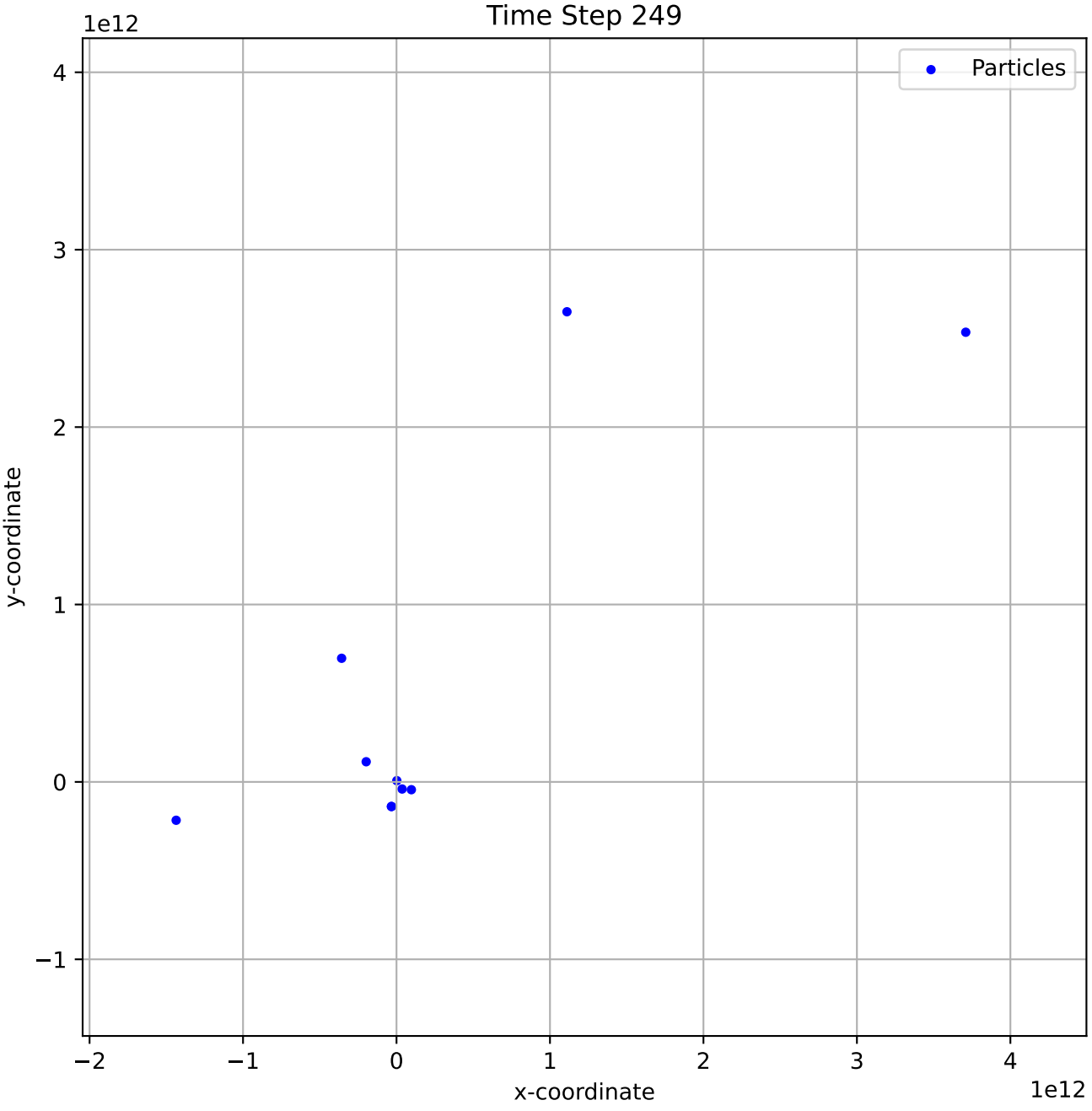

Time Step 244
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

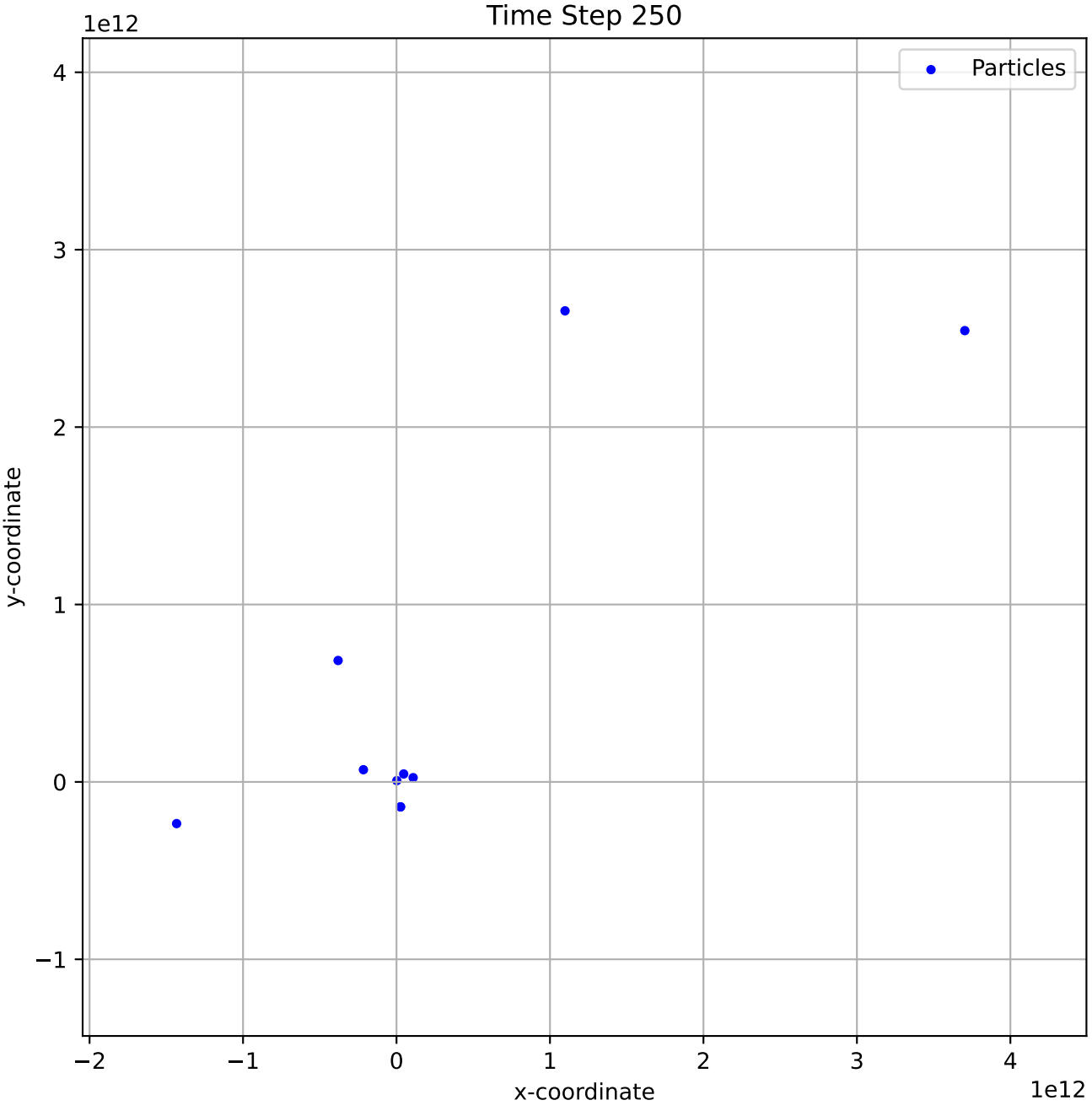

Time Step 245
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

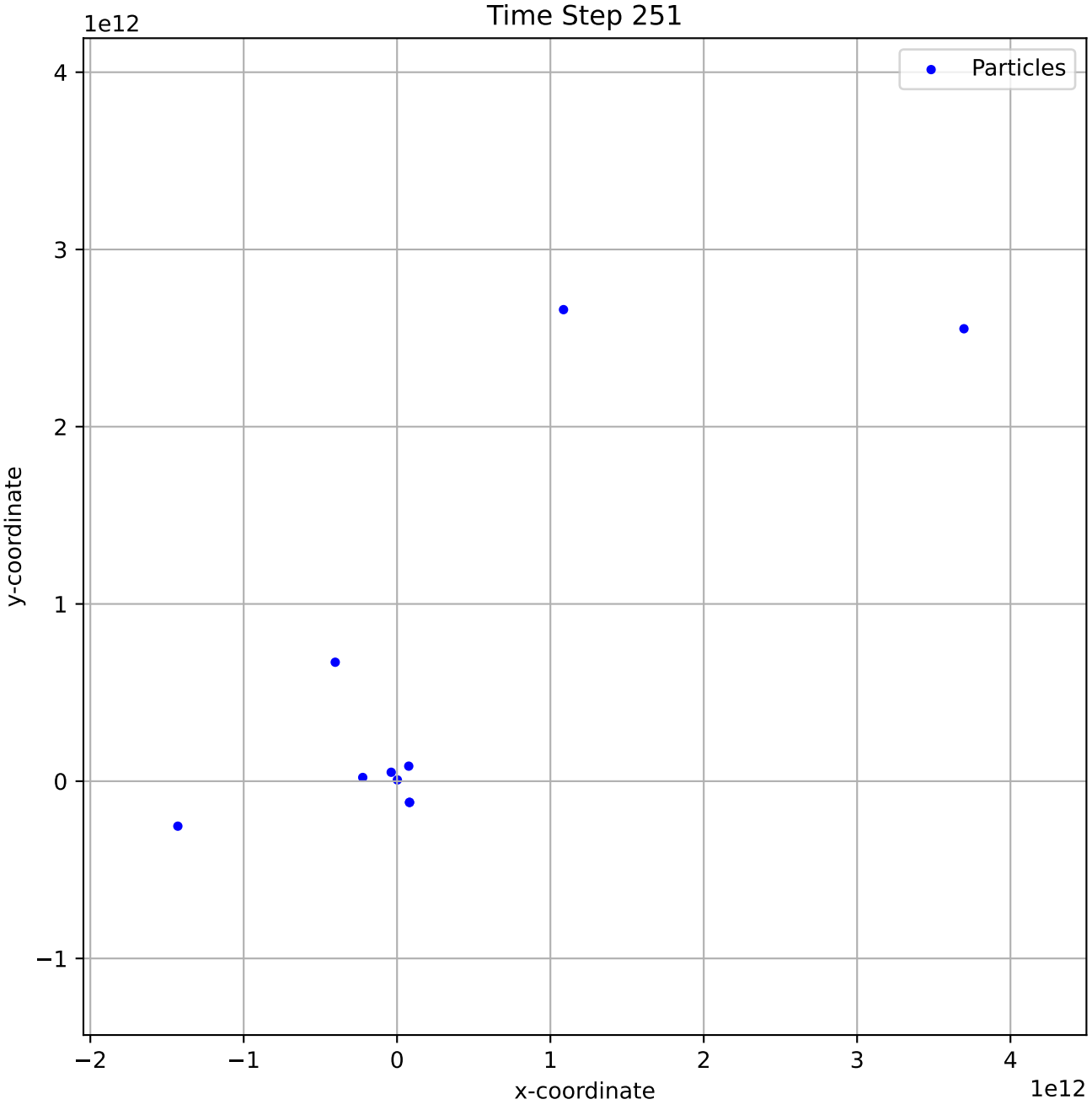

Time Step 246
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

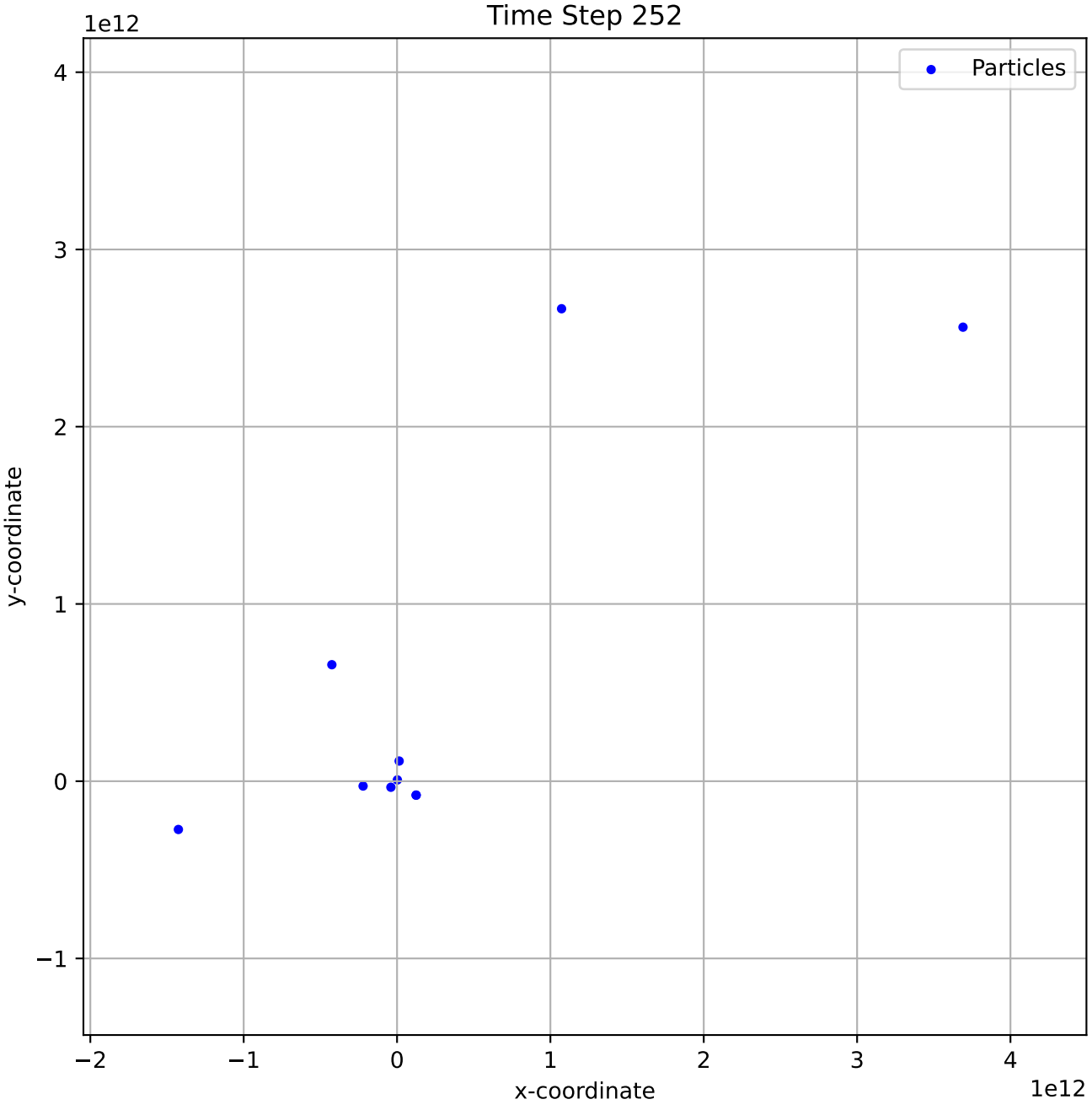

Time Step 247
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

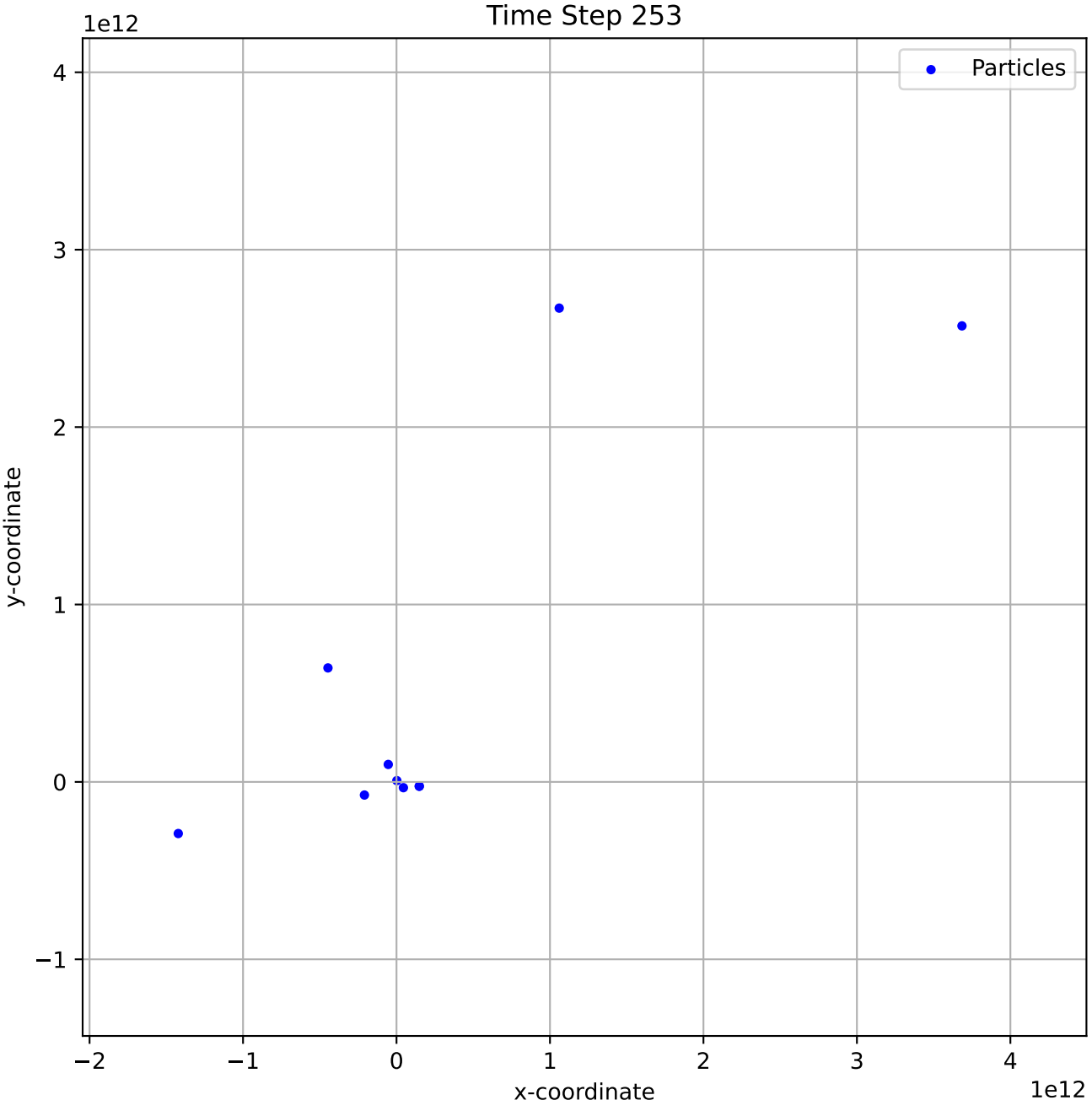

Time Step 248
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

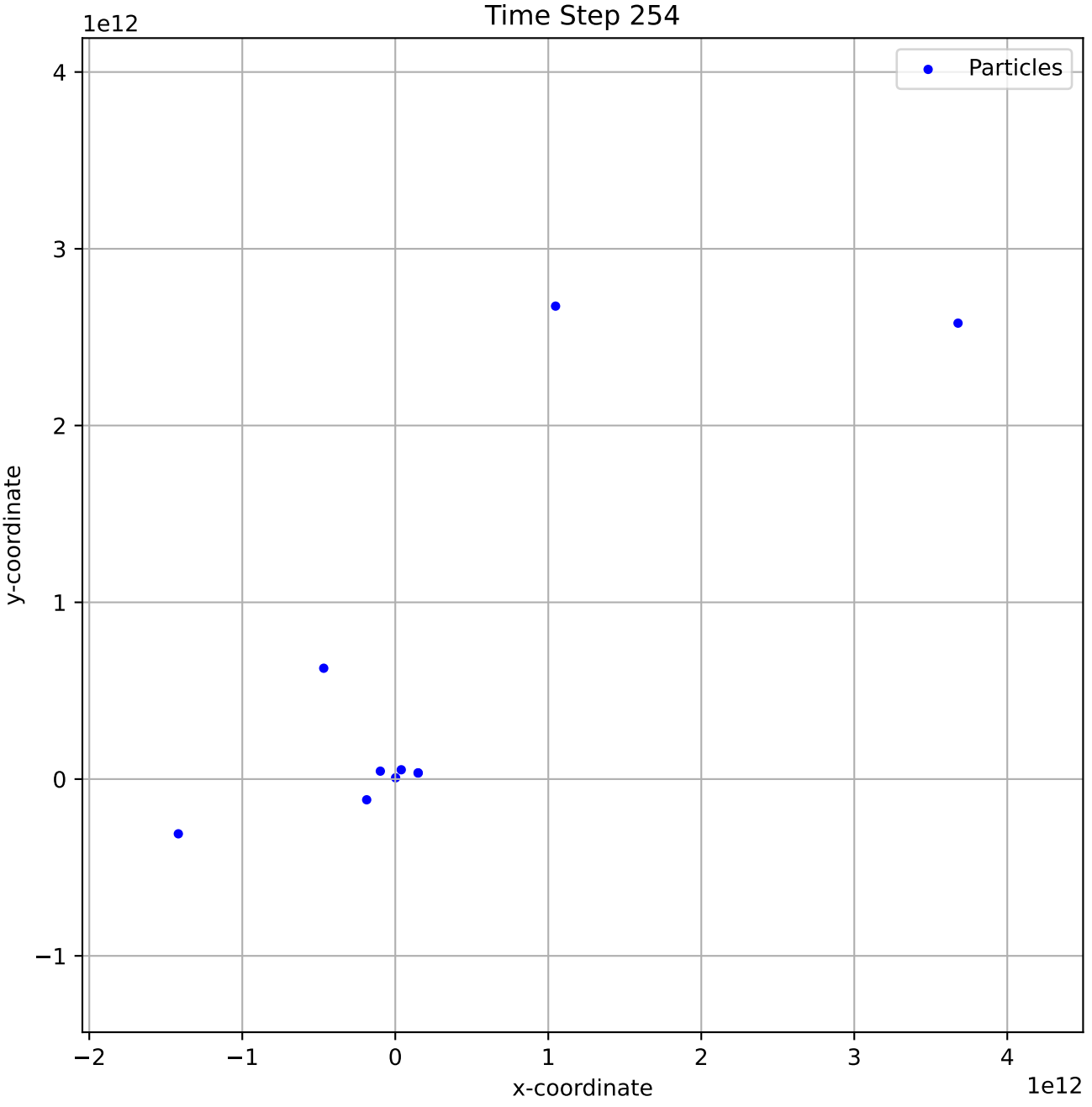

Time Step 249
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

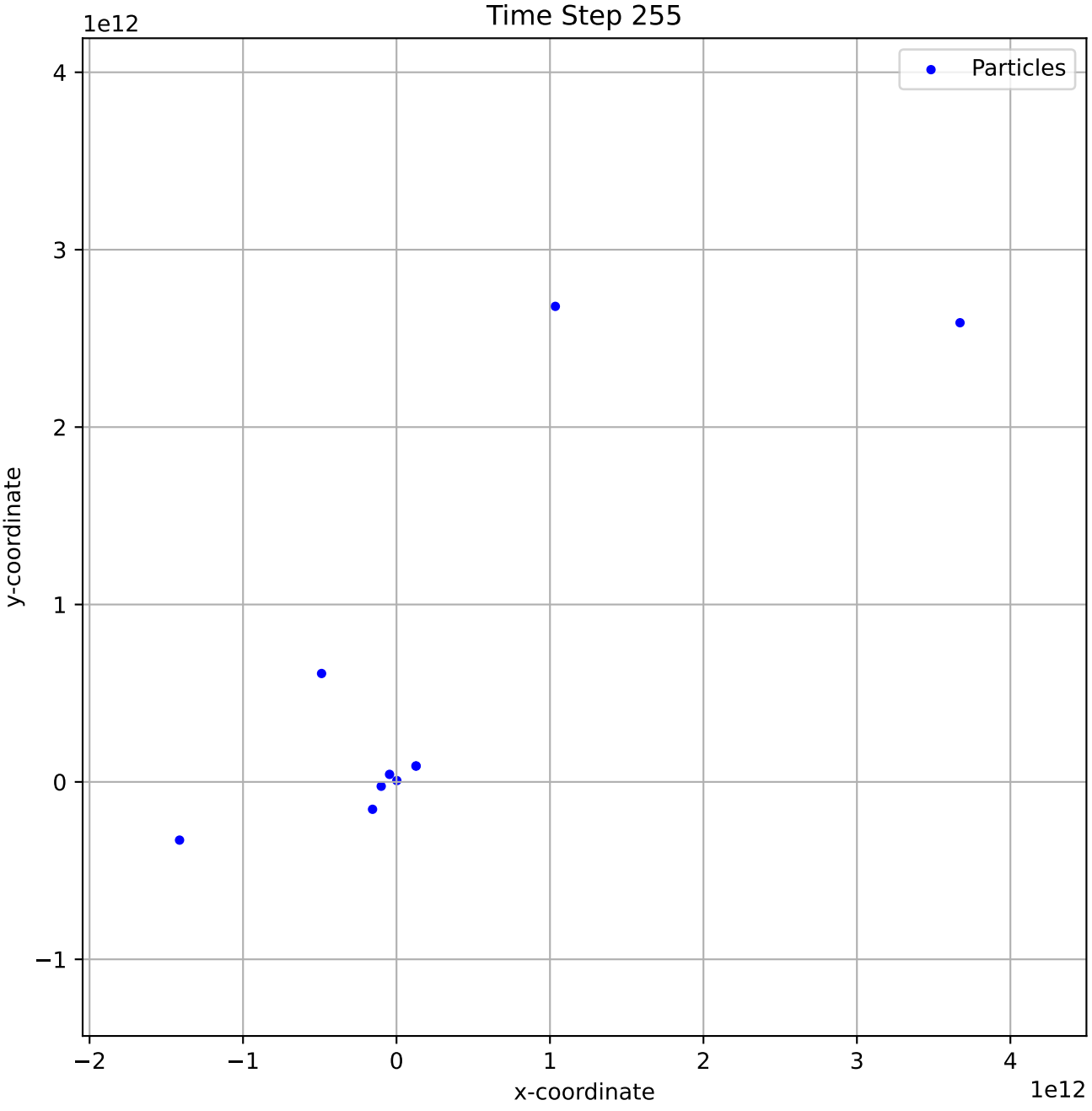

Time Step 250
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

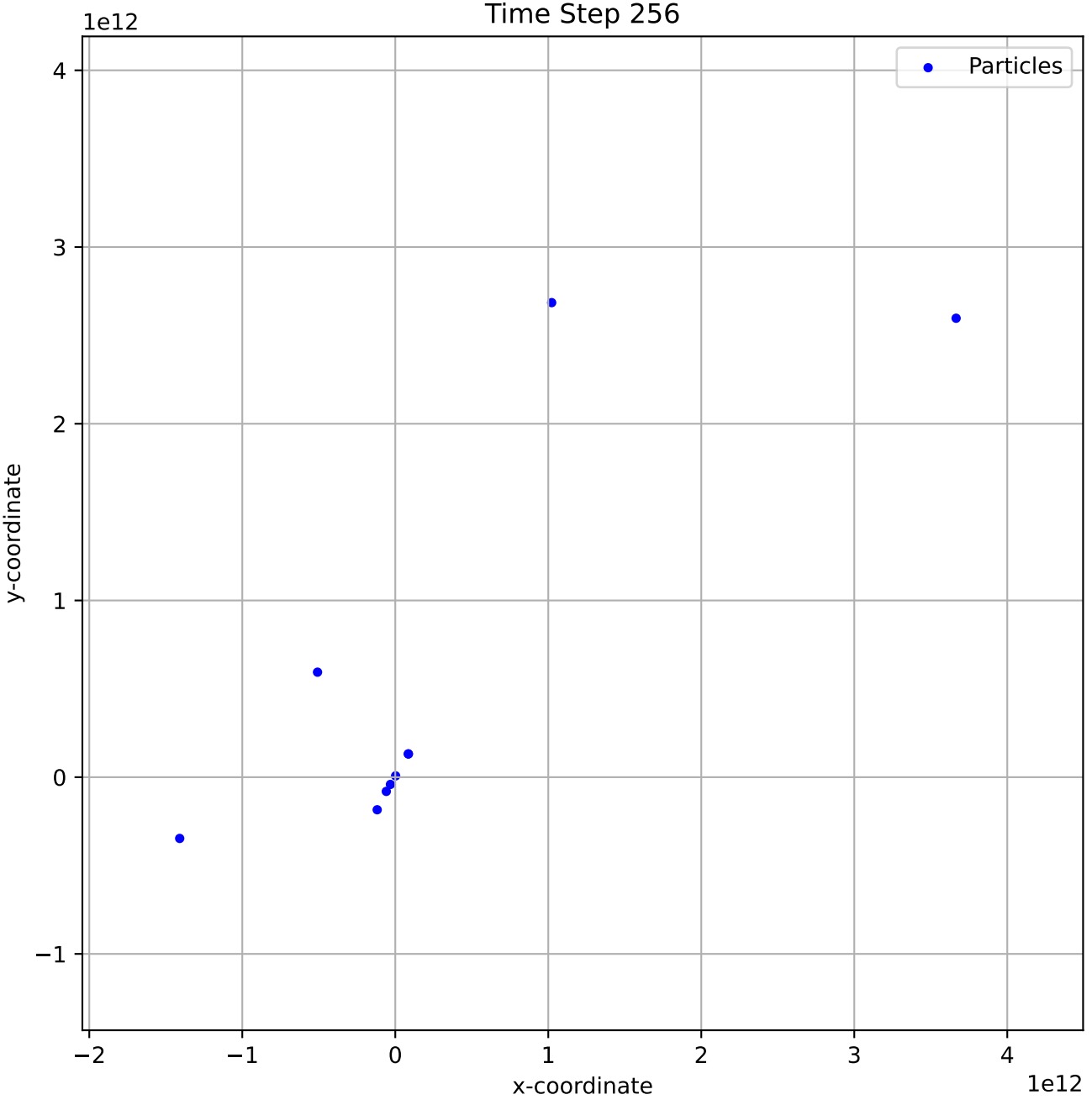

Time Step 251
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

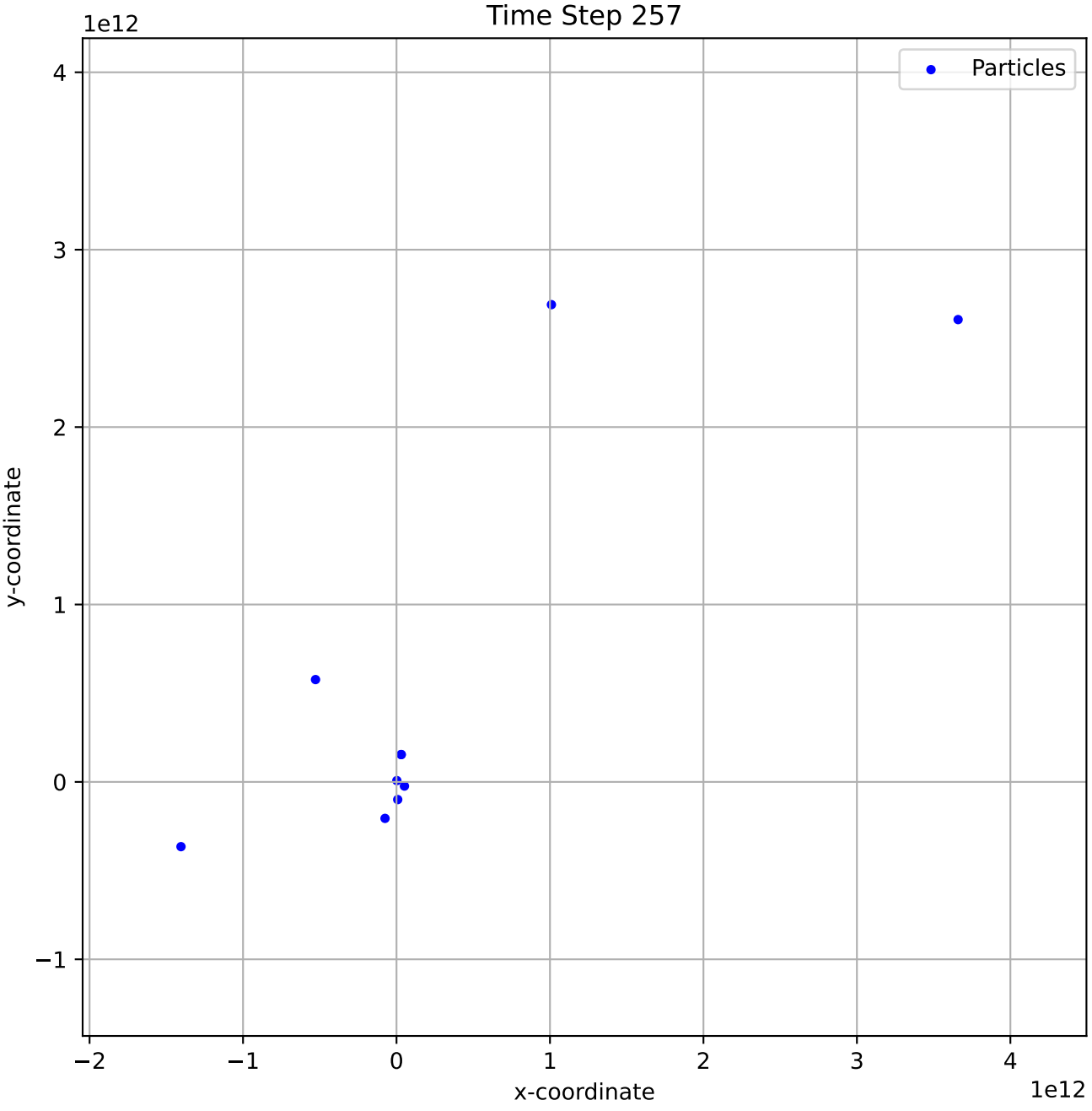

Time Step 252
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

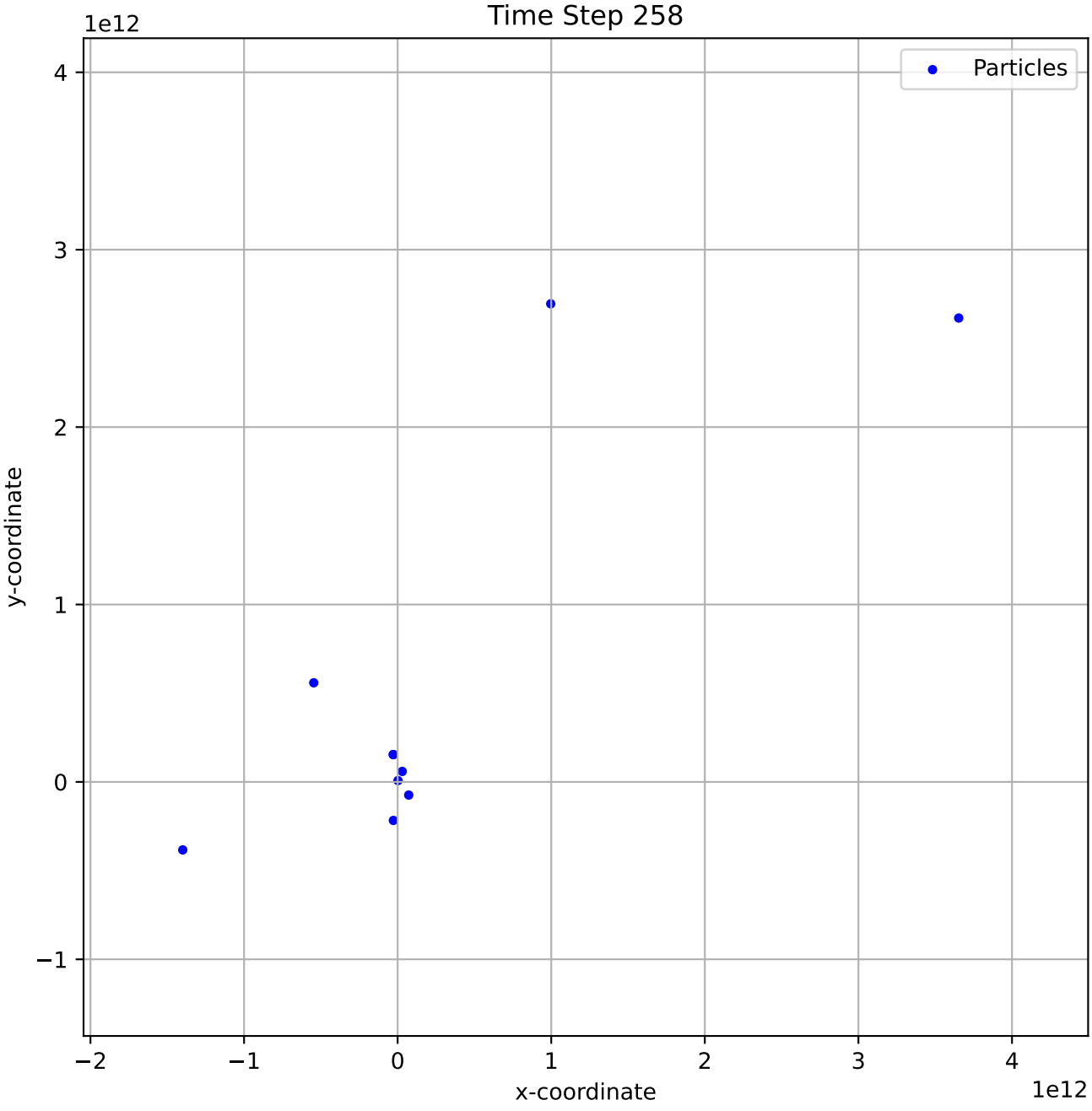

Time Step 253
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

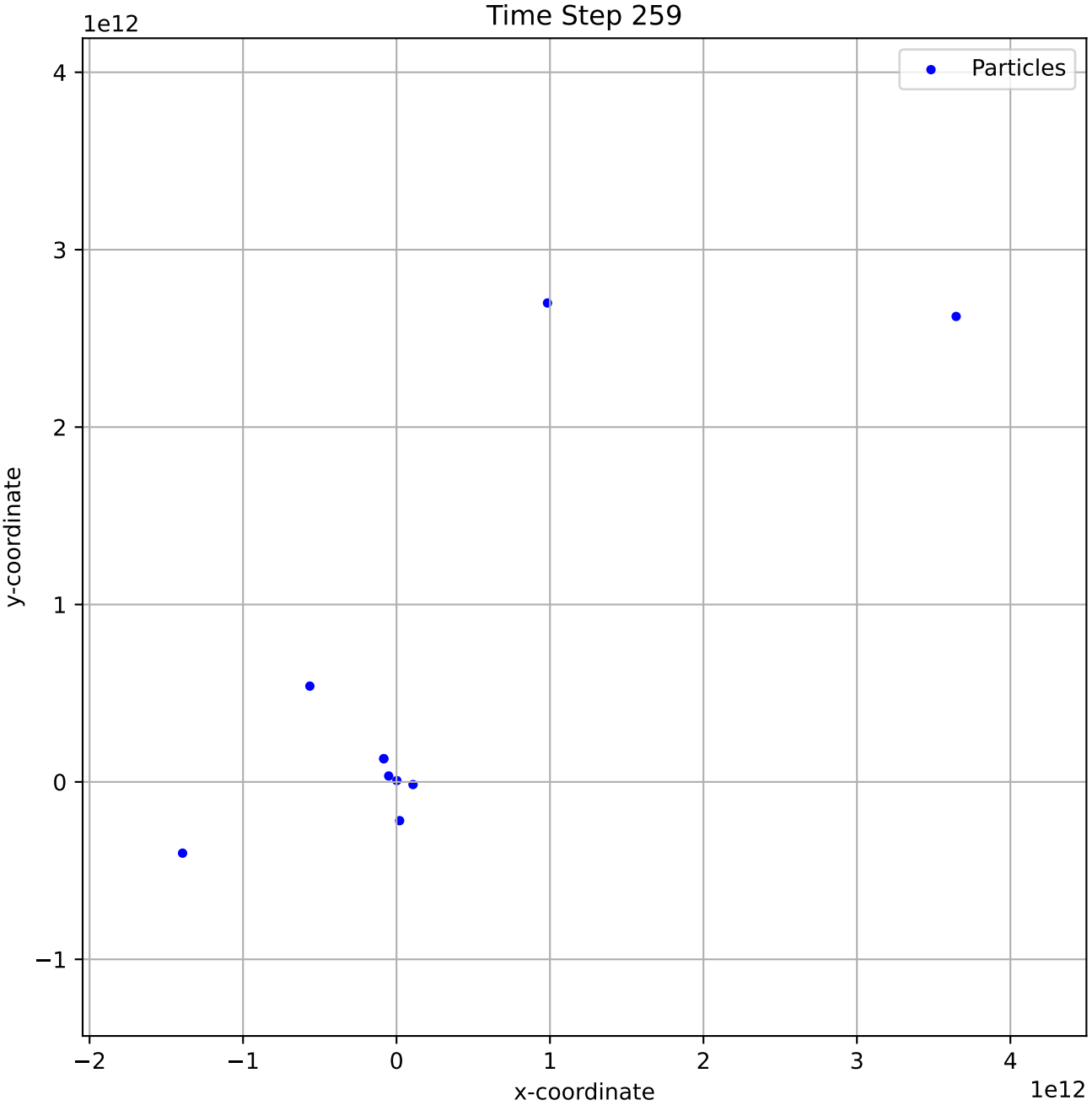

Time Step 254
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

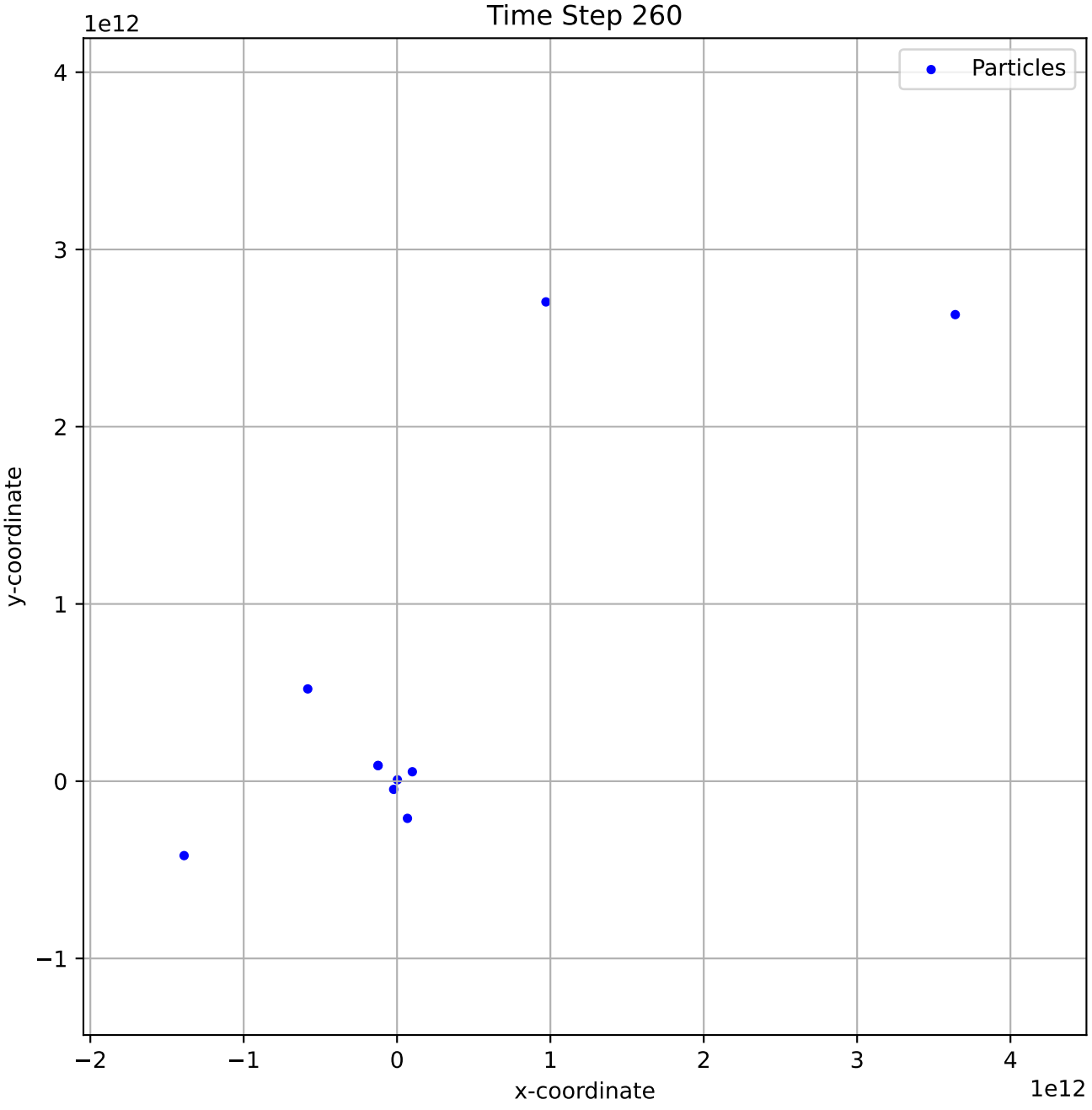

Time Step 255
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

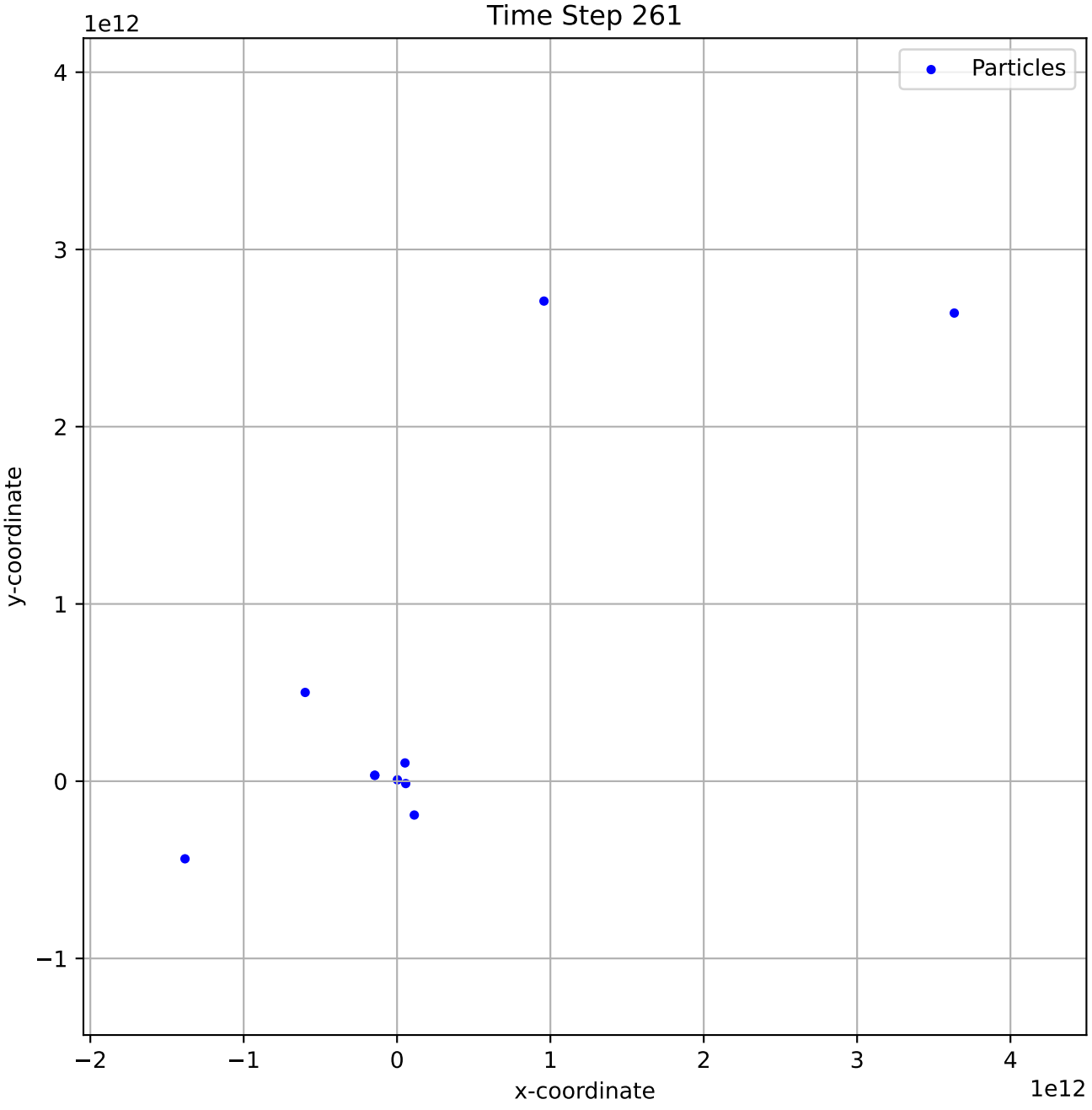

Time Step 256
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

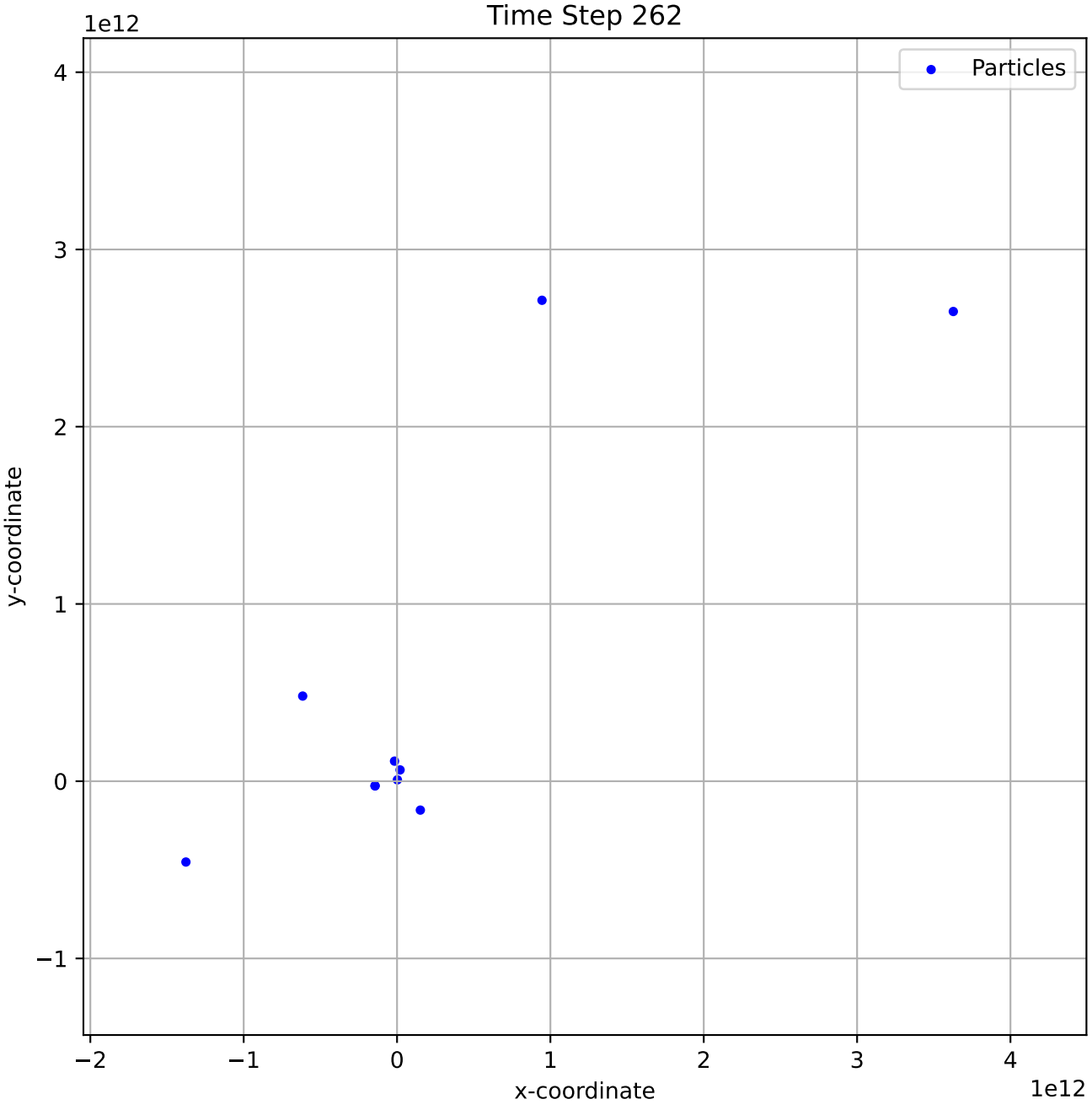

Time Step 257
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

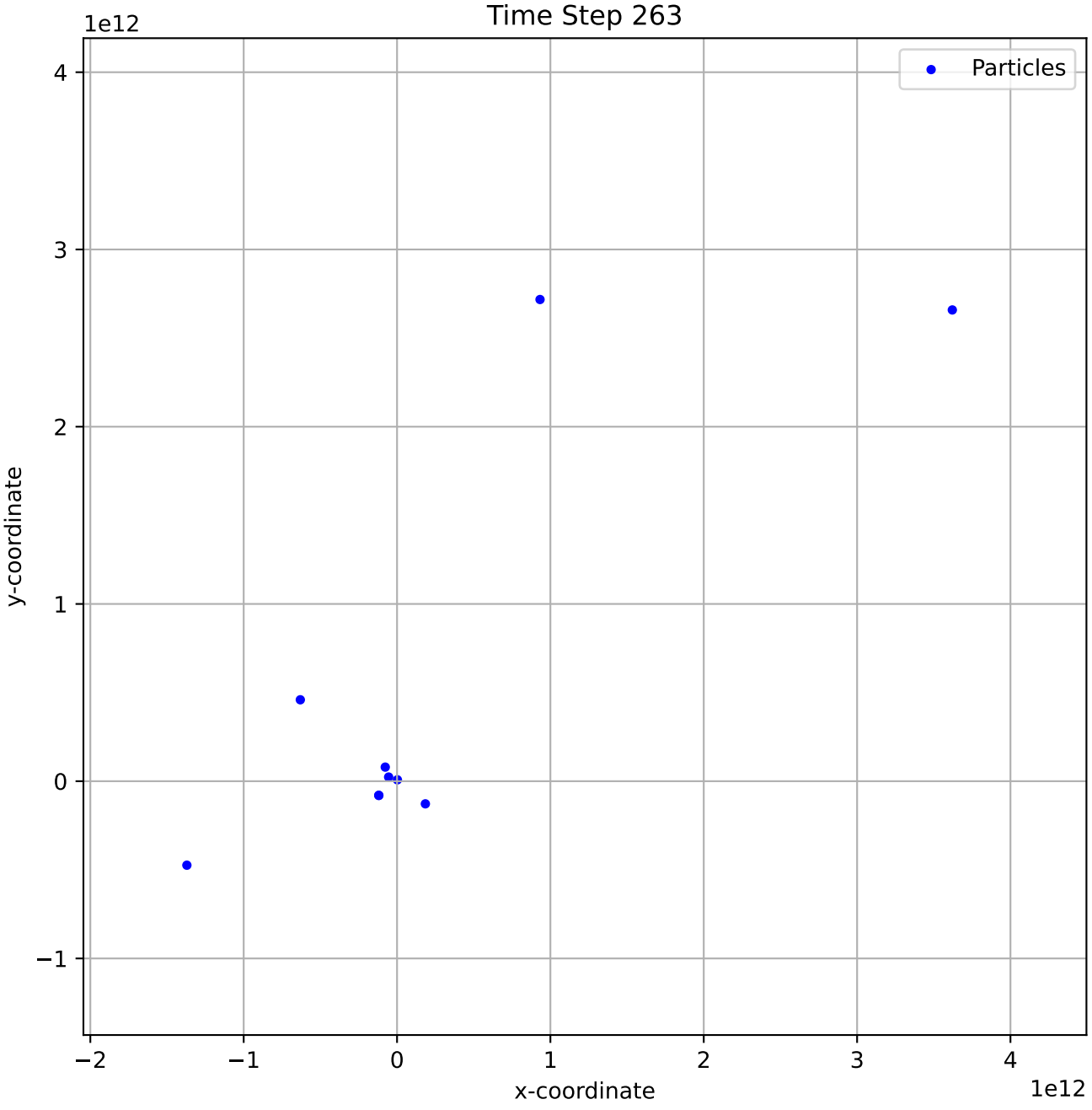

Time Step 258
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

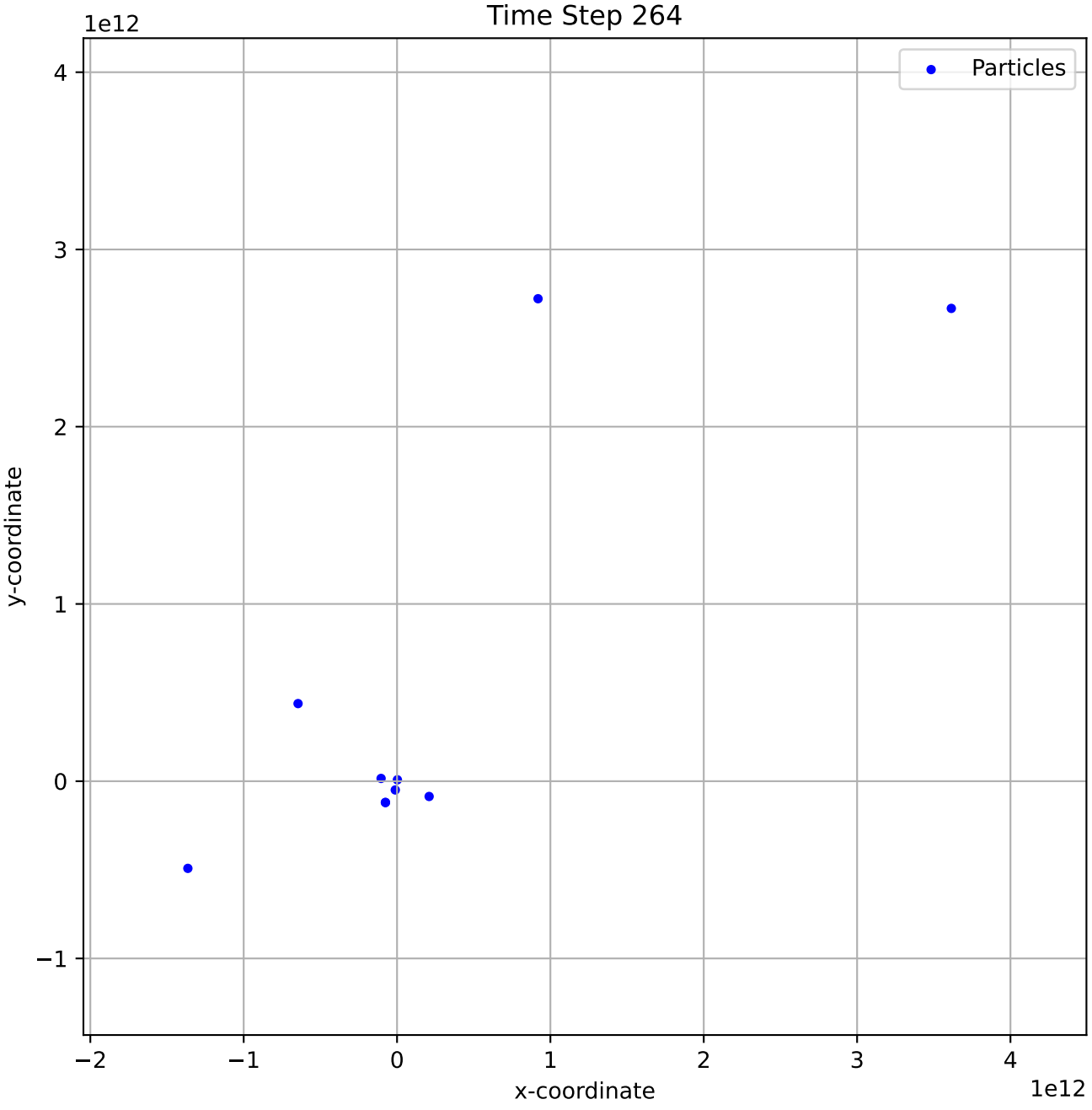

Time Step 259
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

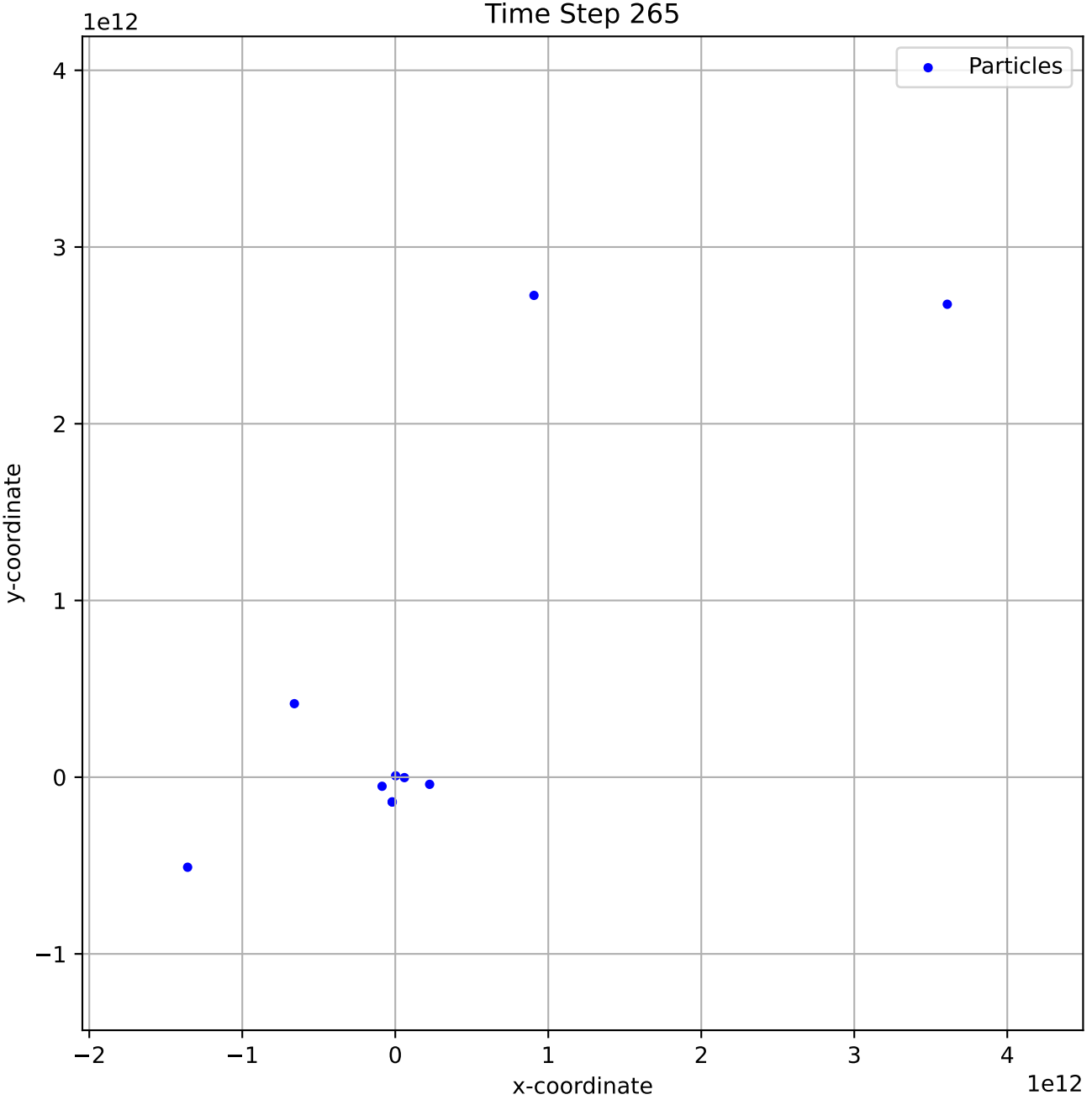

Time Step 260
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

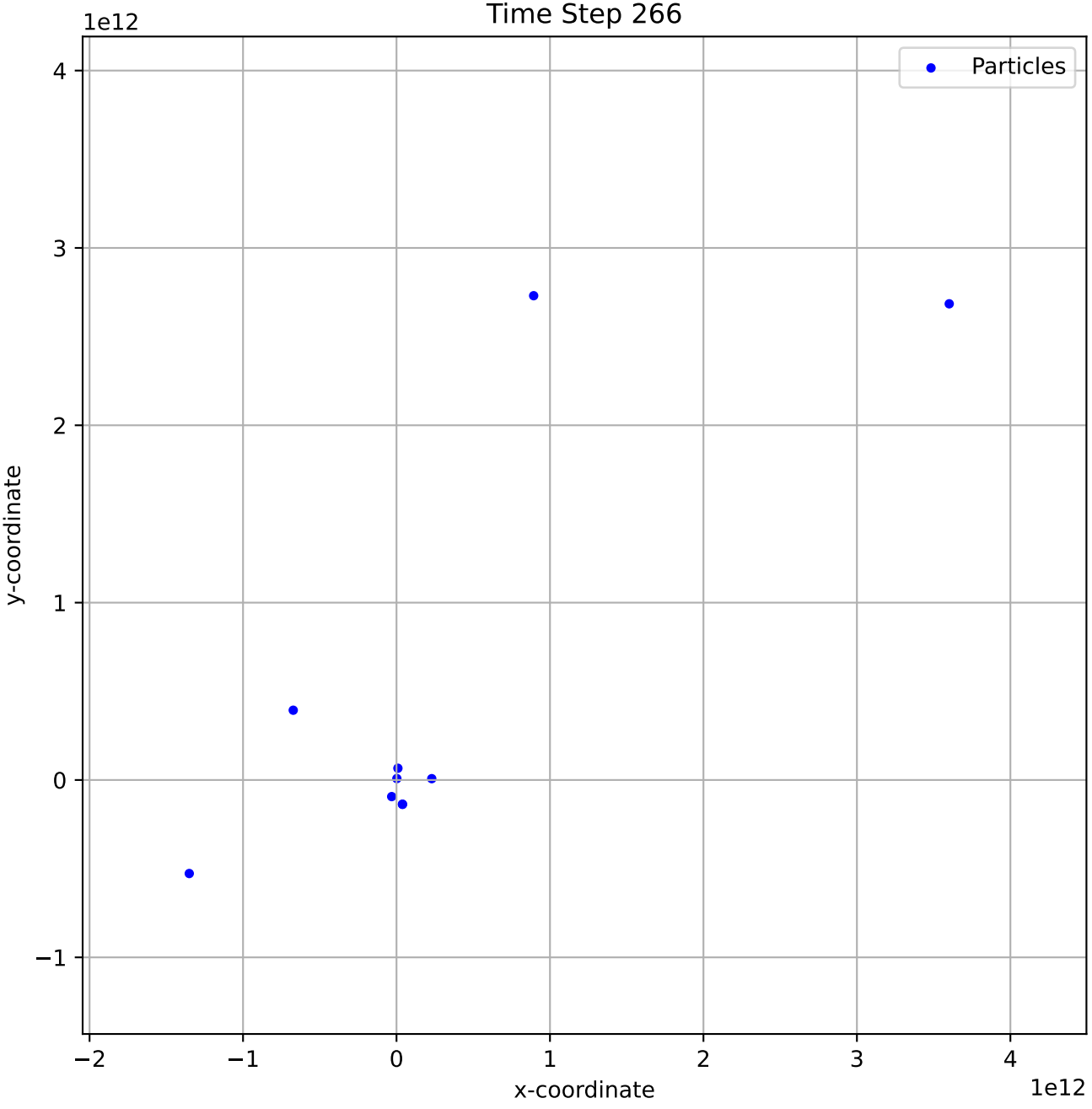

Time Step 261
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

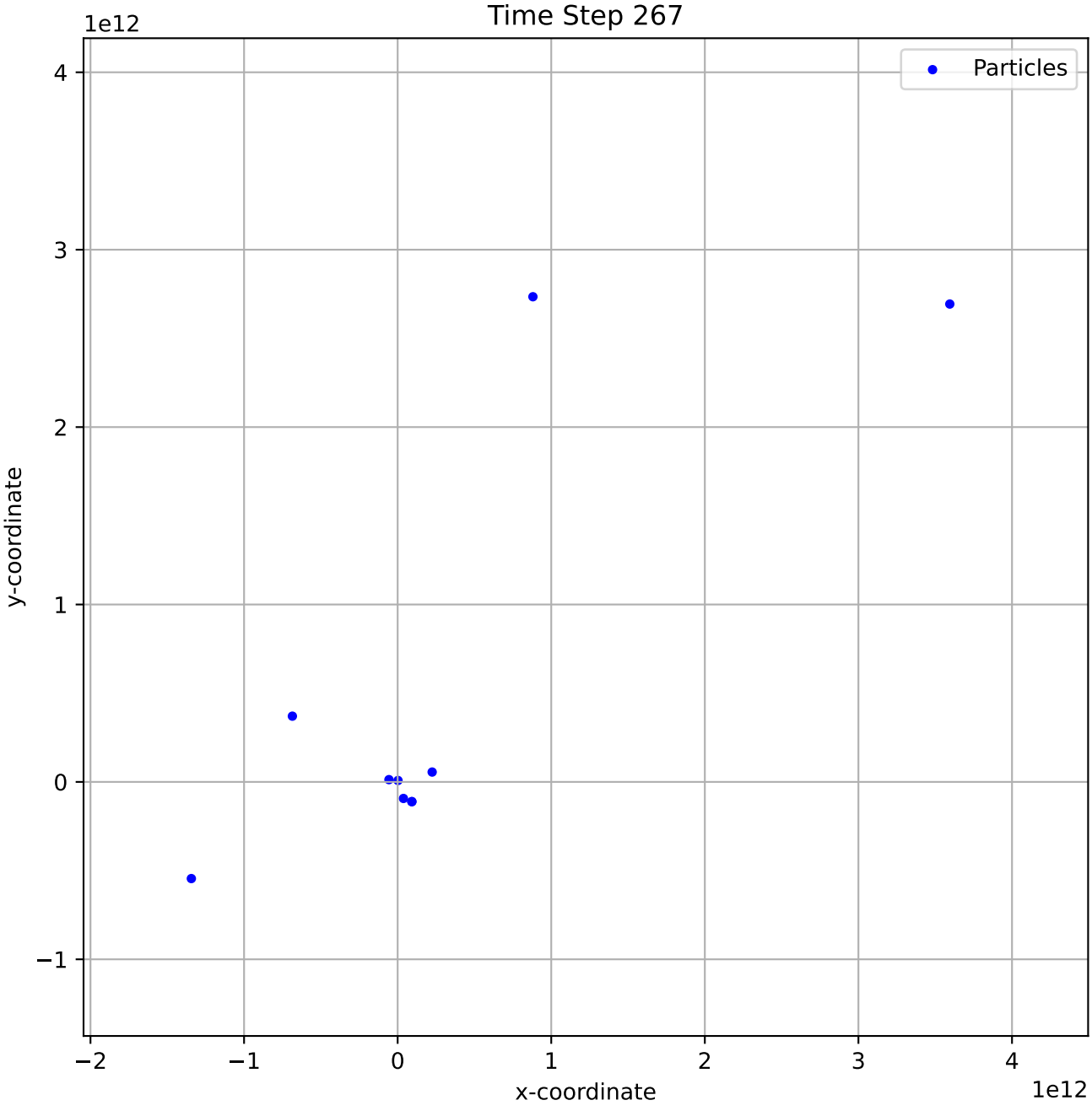

Time Step 262
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

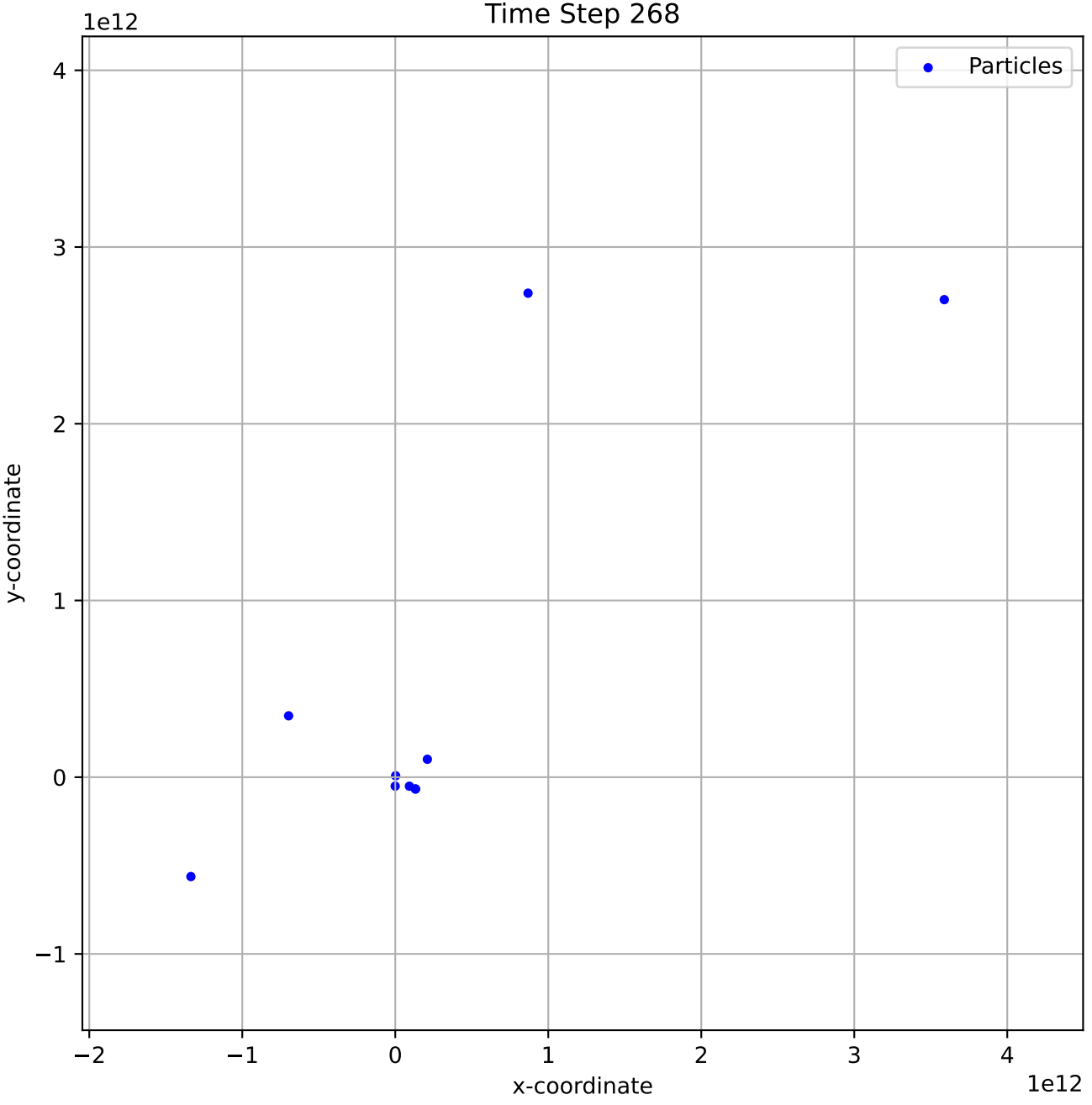

Time Step 263
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

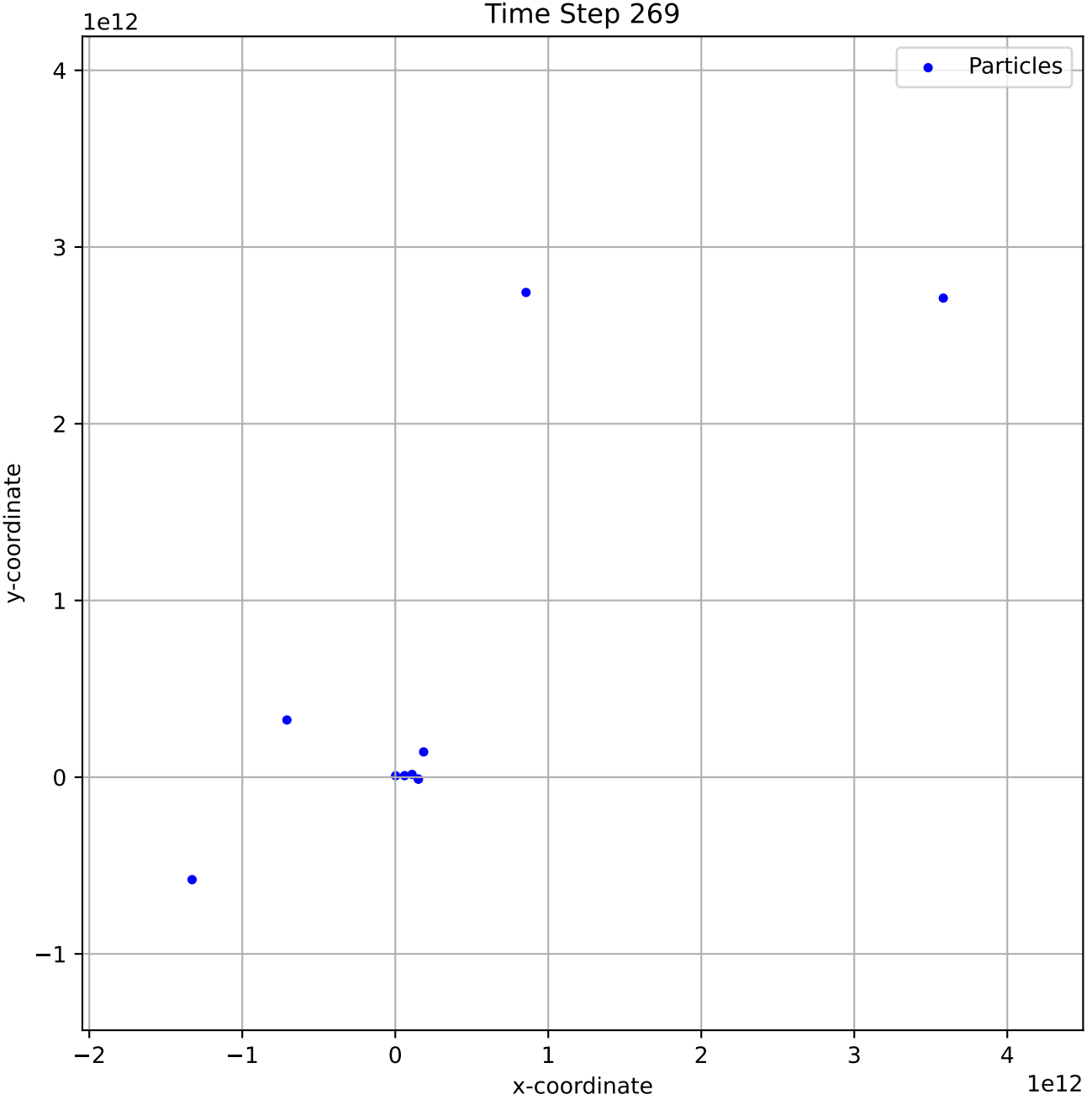

Time Step 264
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

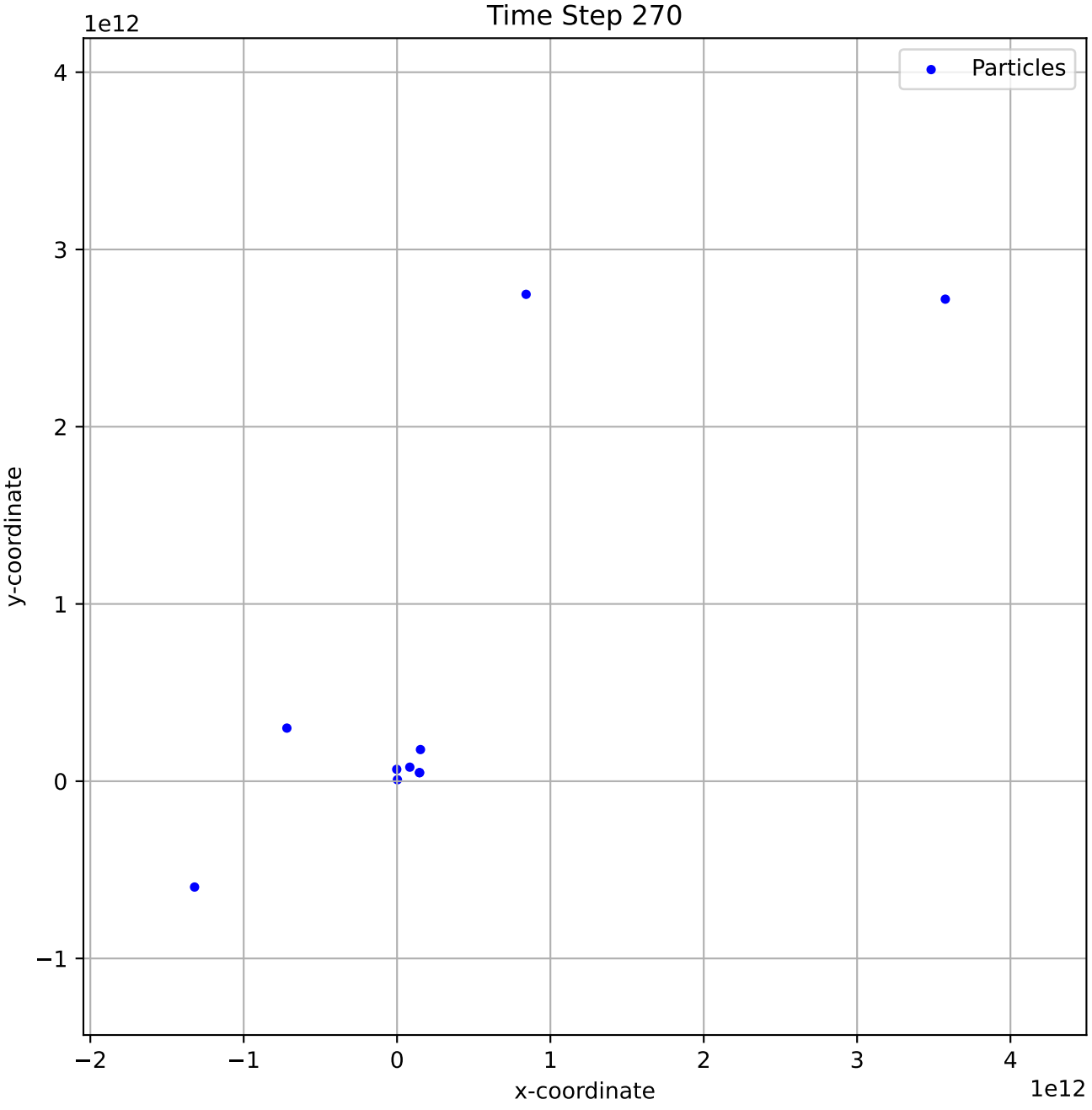

Time Step 265
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

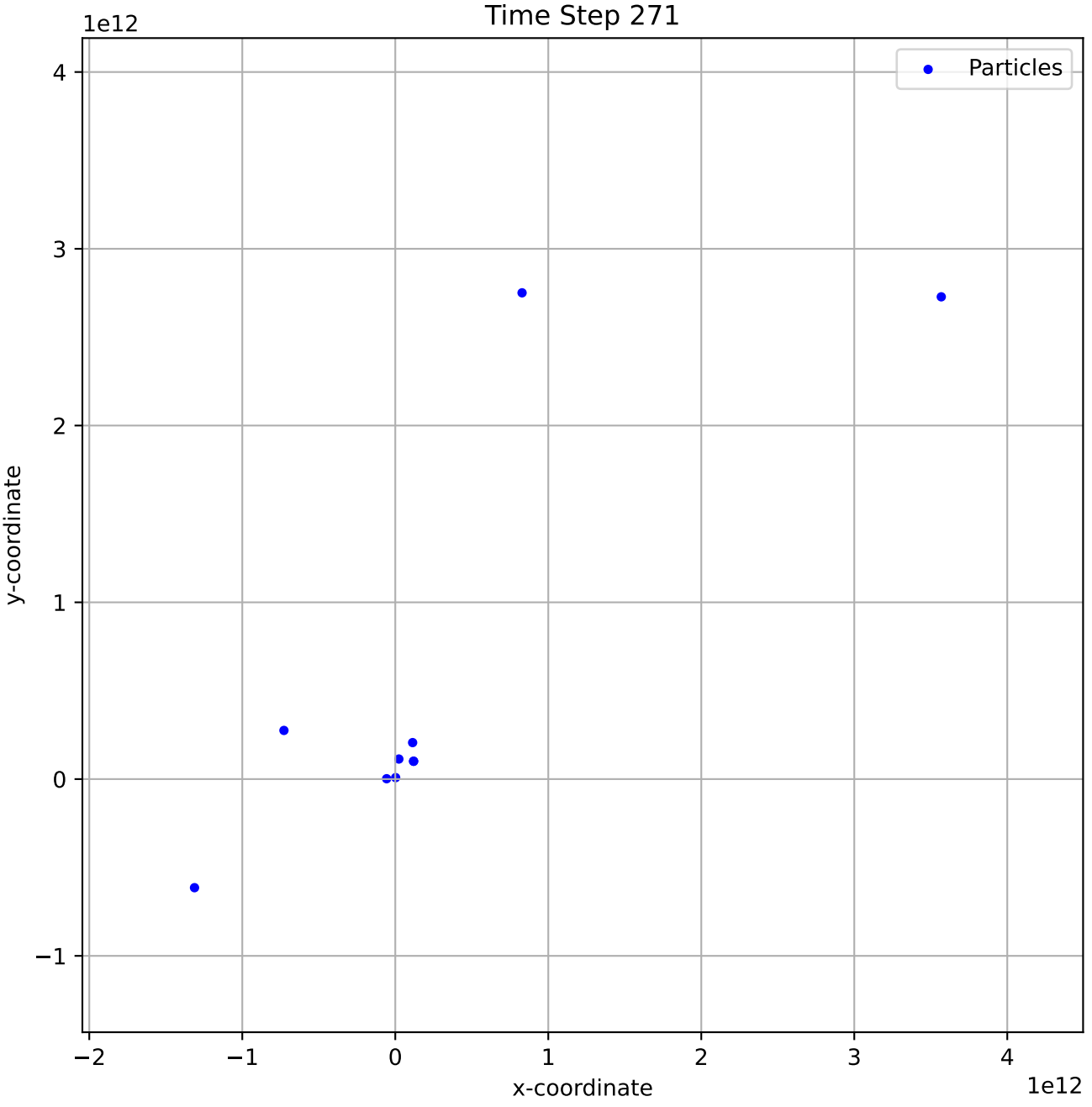

Time Step 266
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

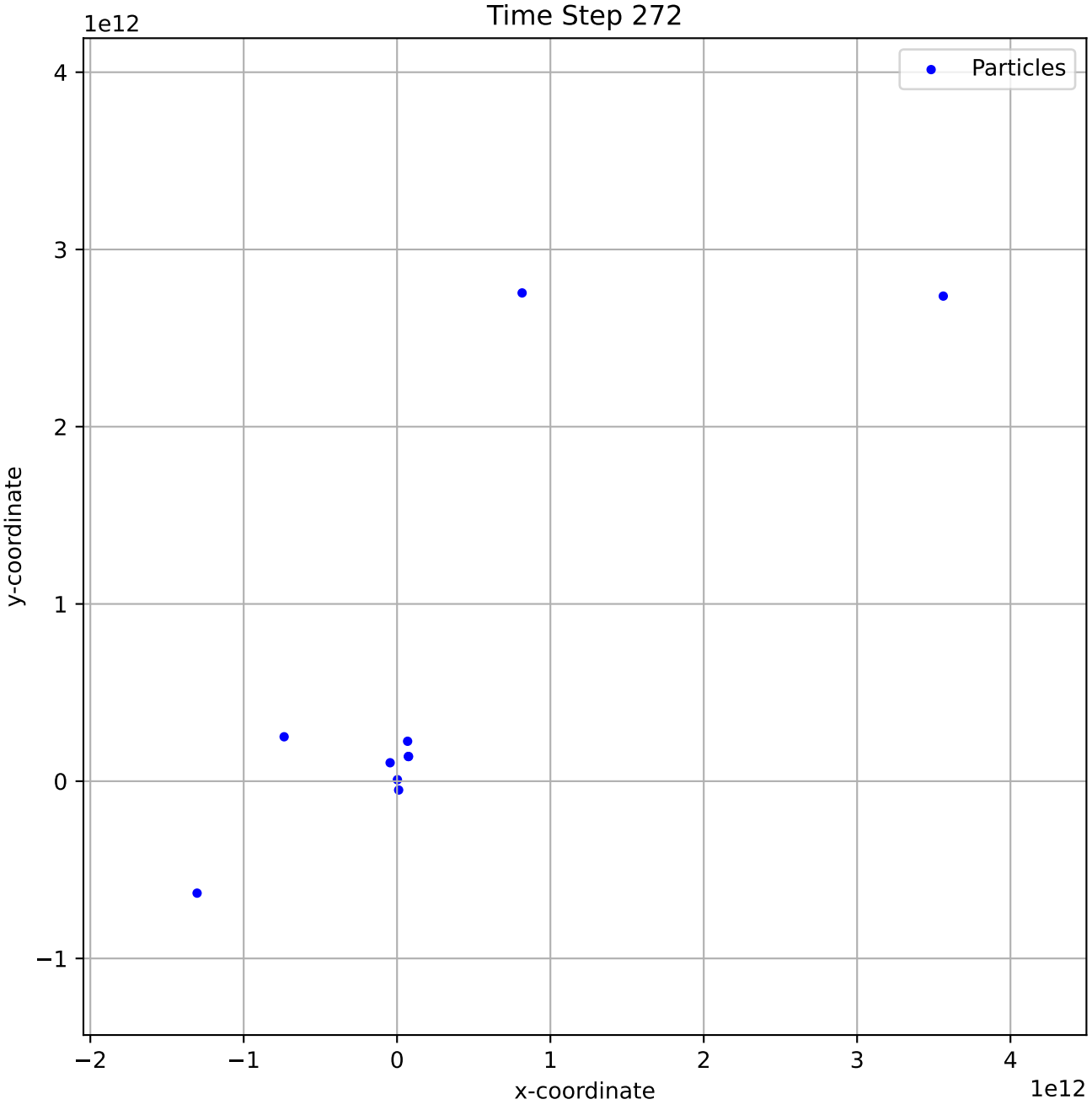

Time Step 267
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

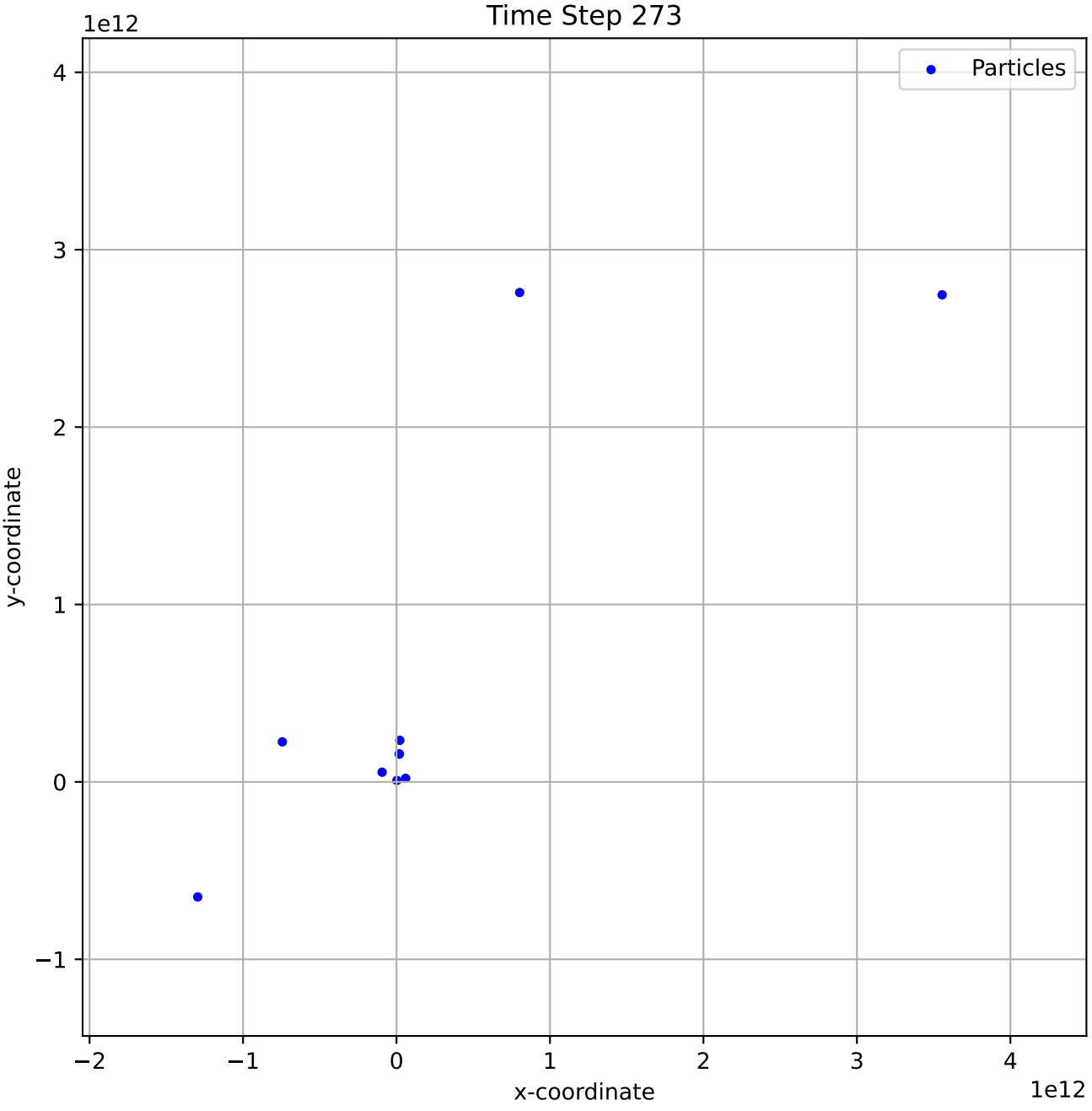

Time Step 268
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

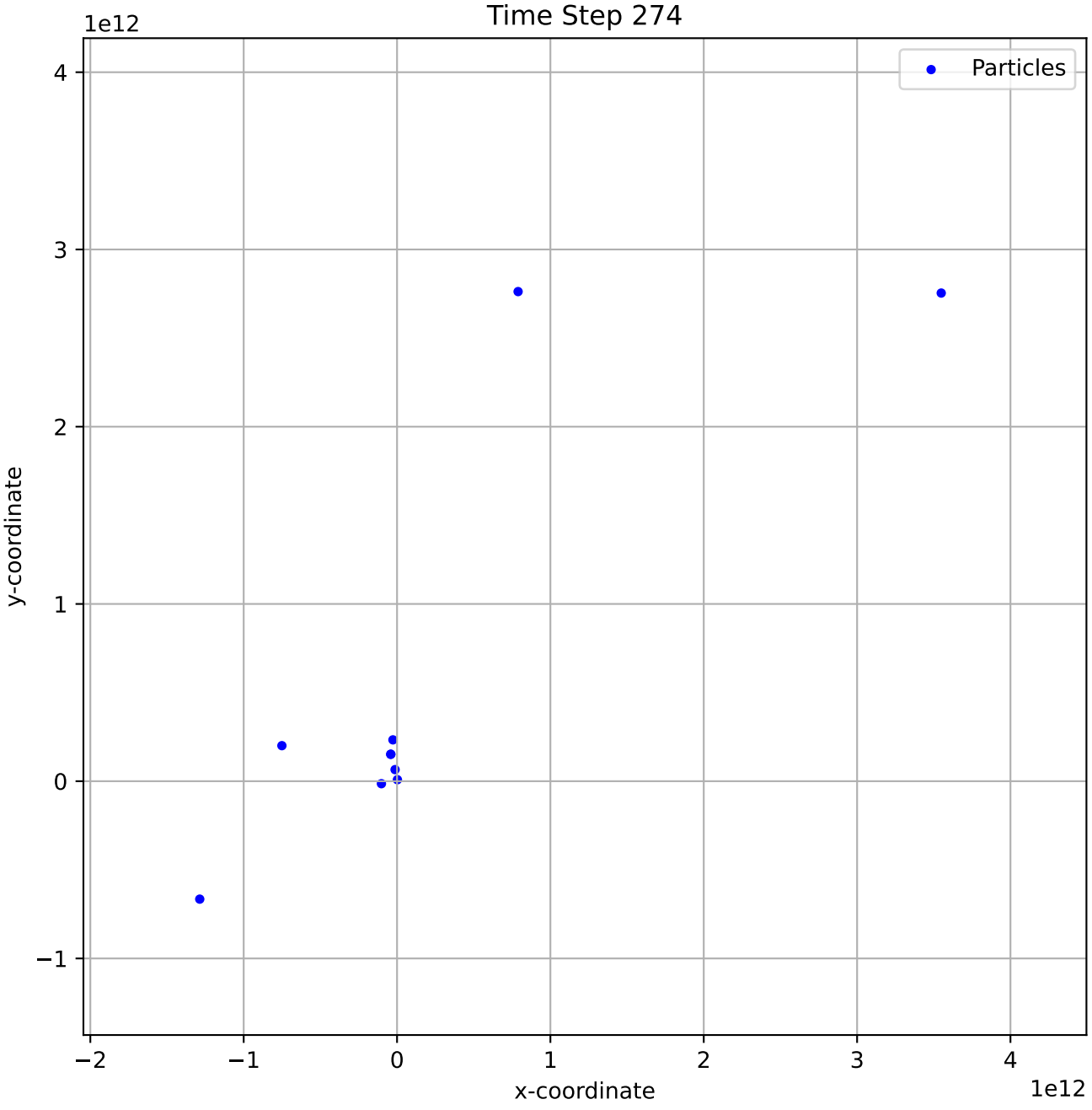

Time Step 269
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

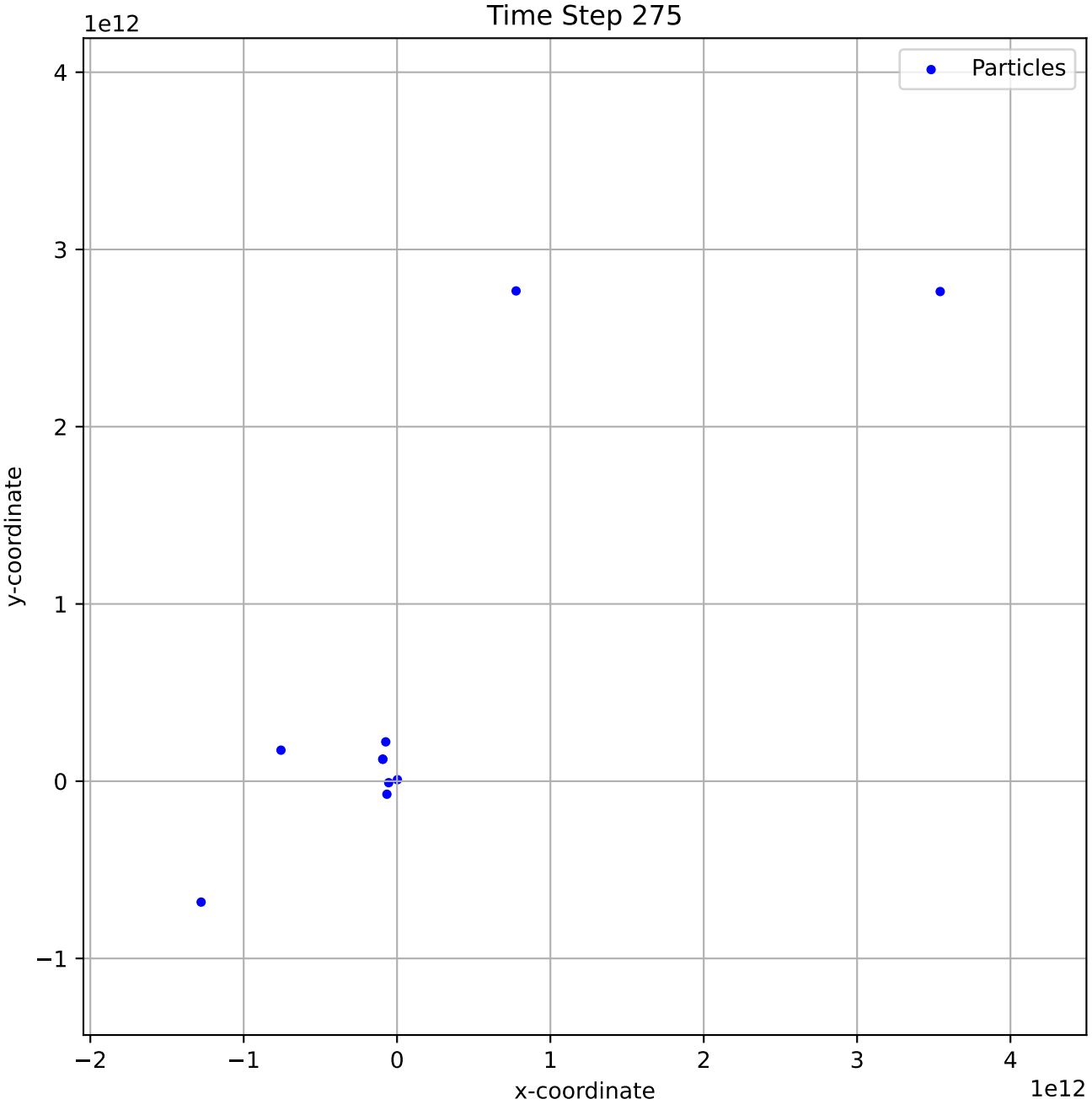

Time Step 270
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

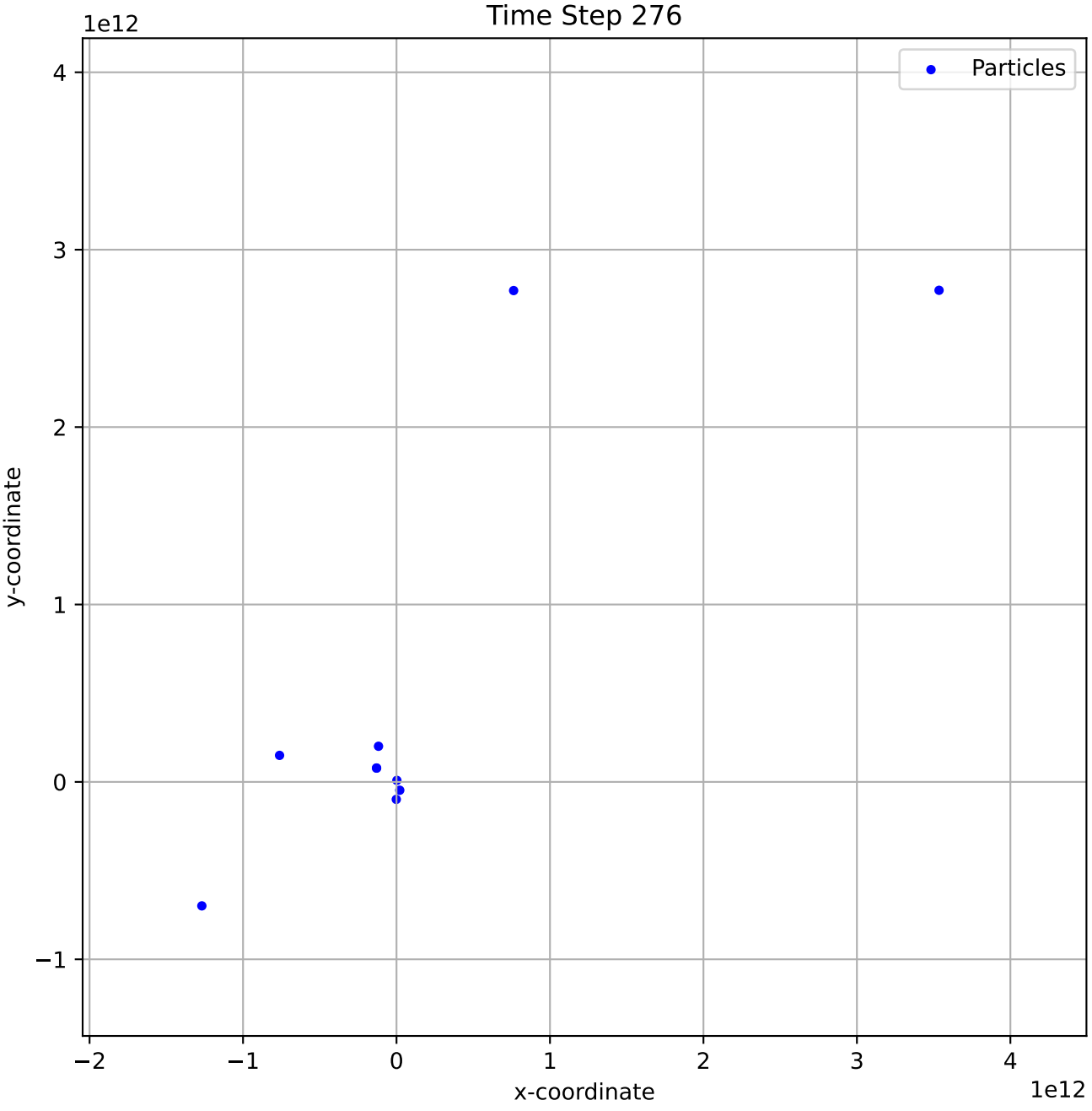

Time Step 271
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

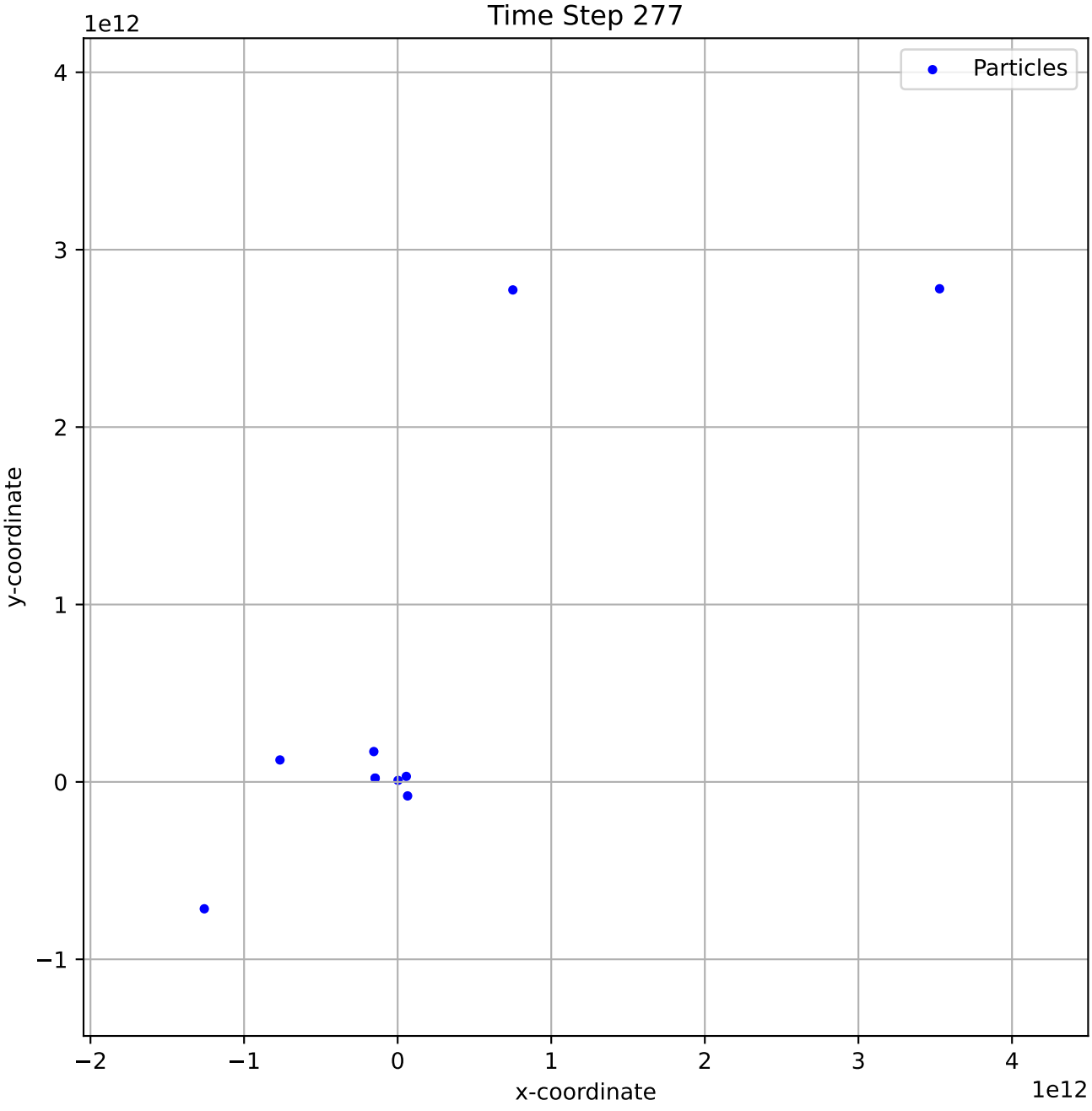

Time Step 272
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

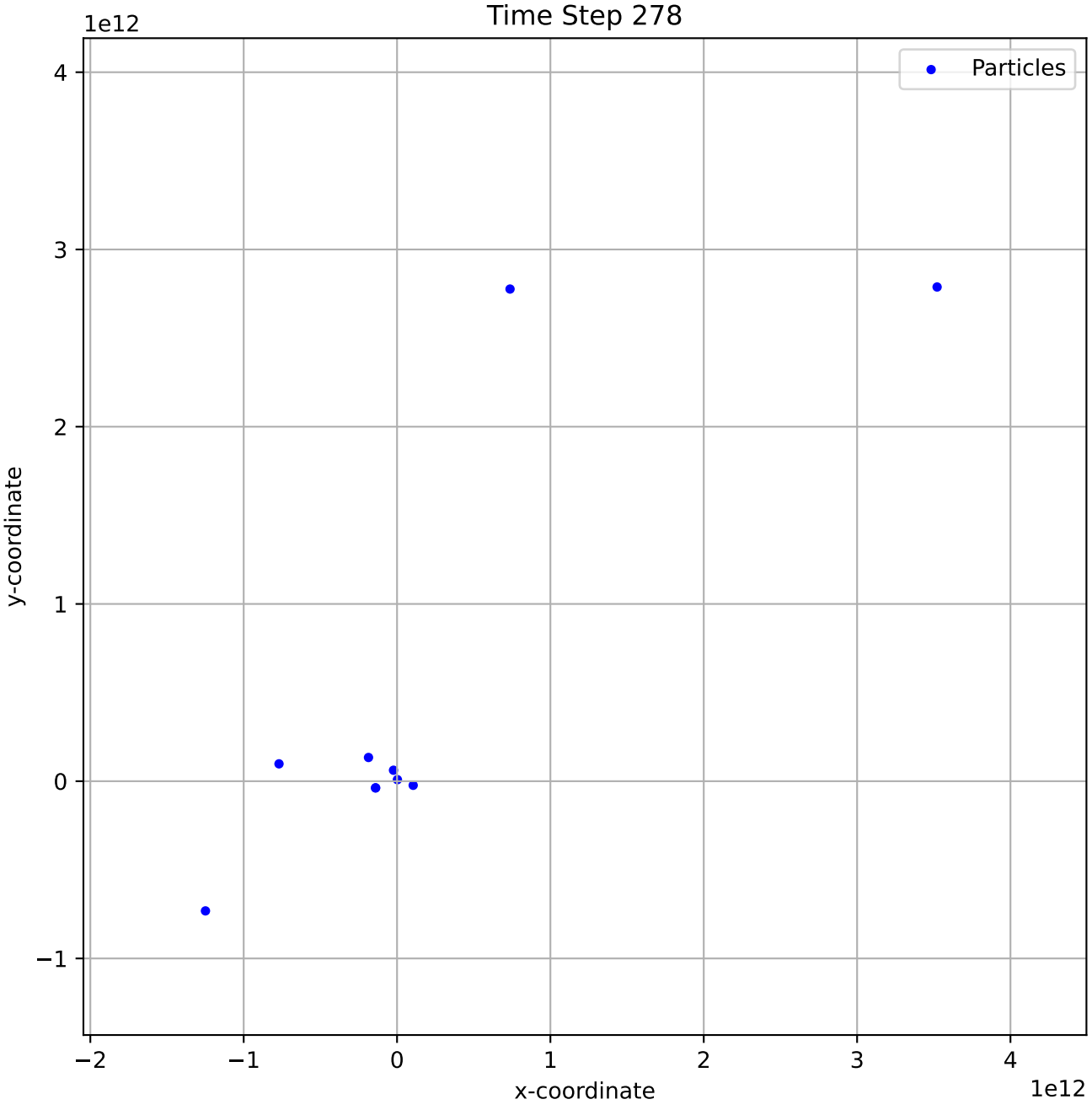

Time Step 273
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

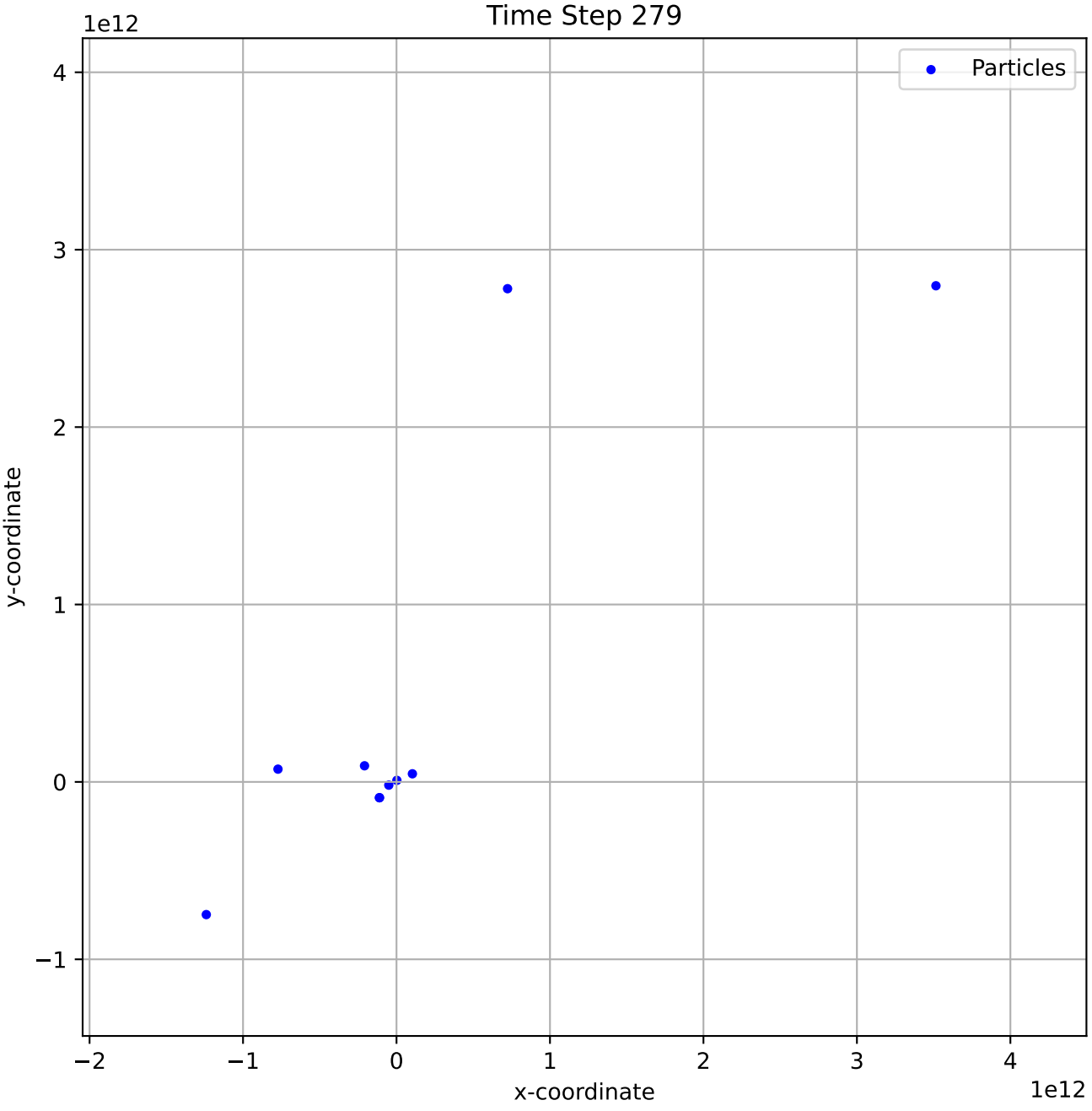

Time Step 274
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

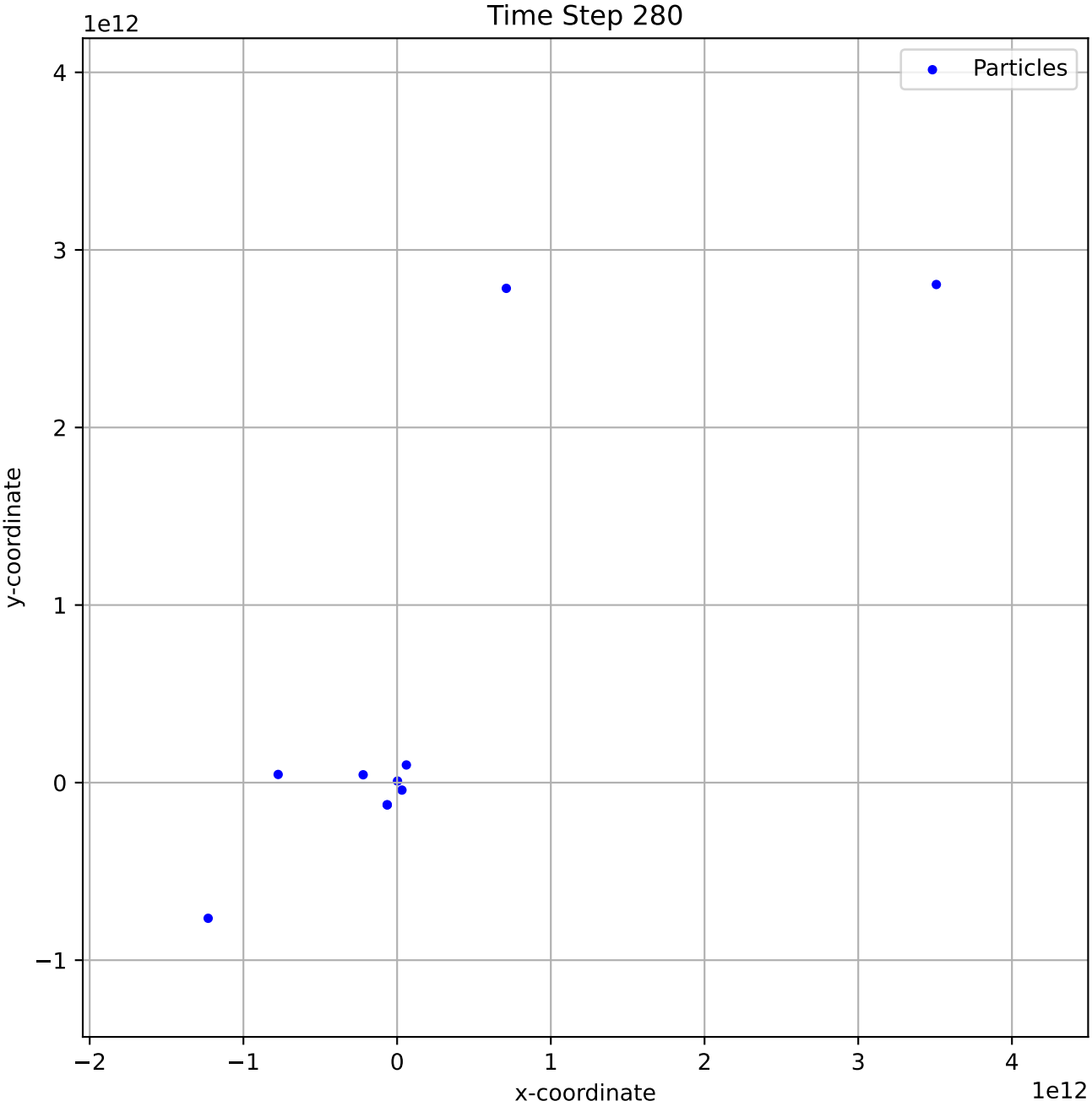

Time Step 275
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

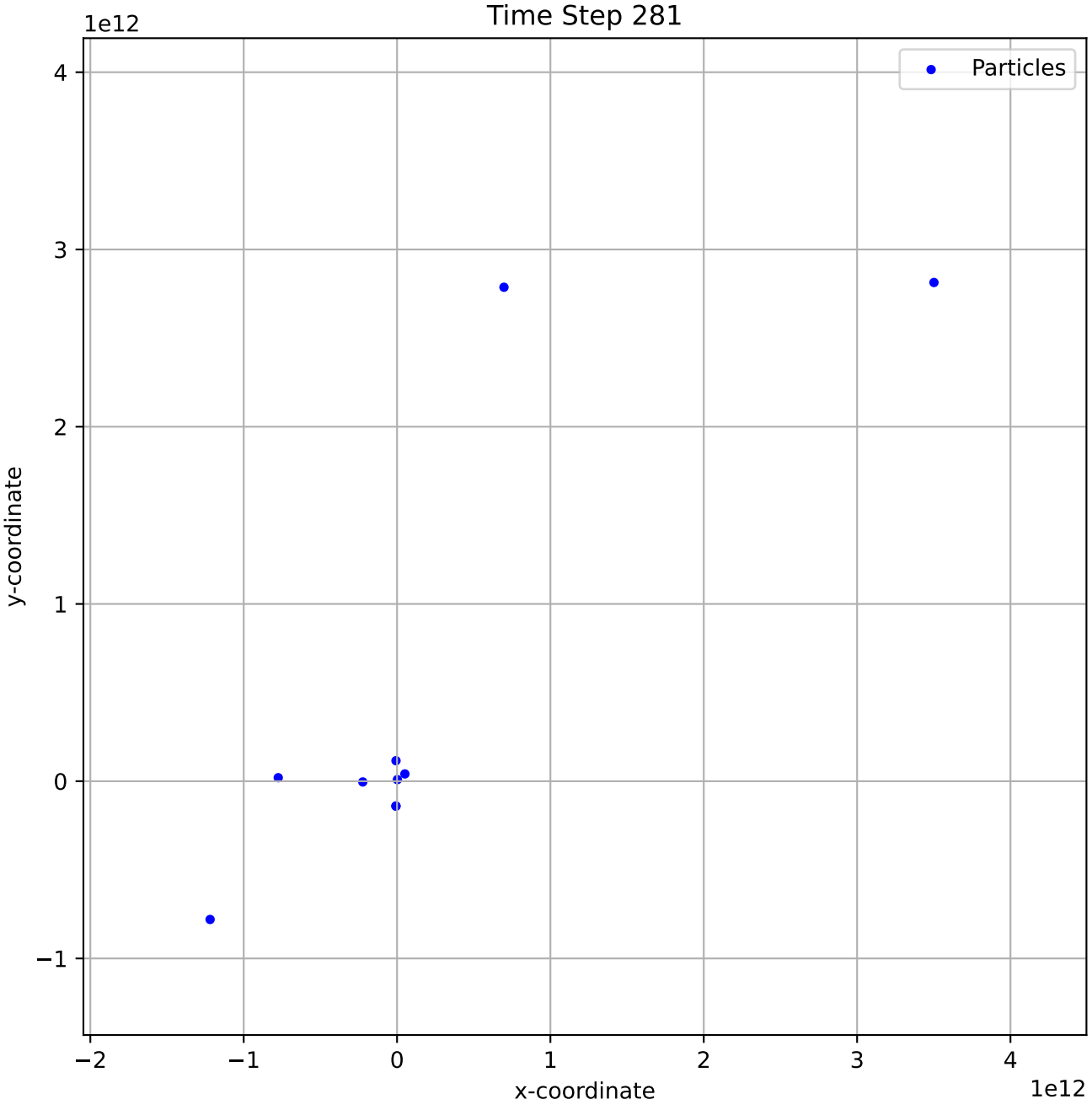

Time Step 276
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

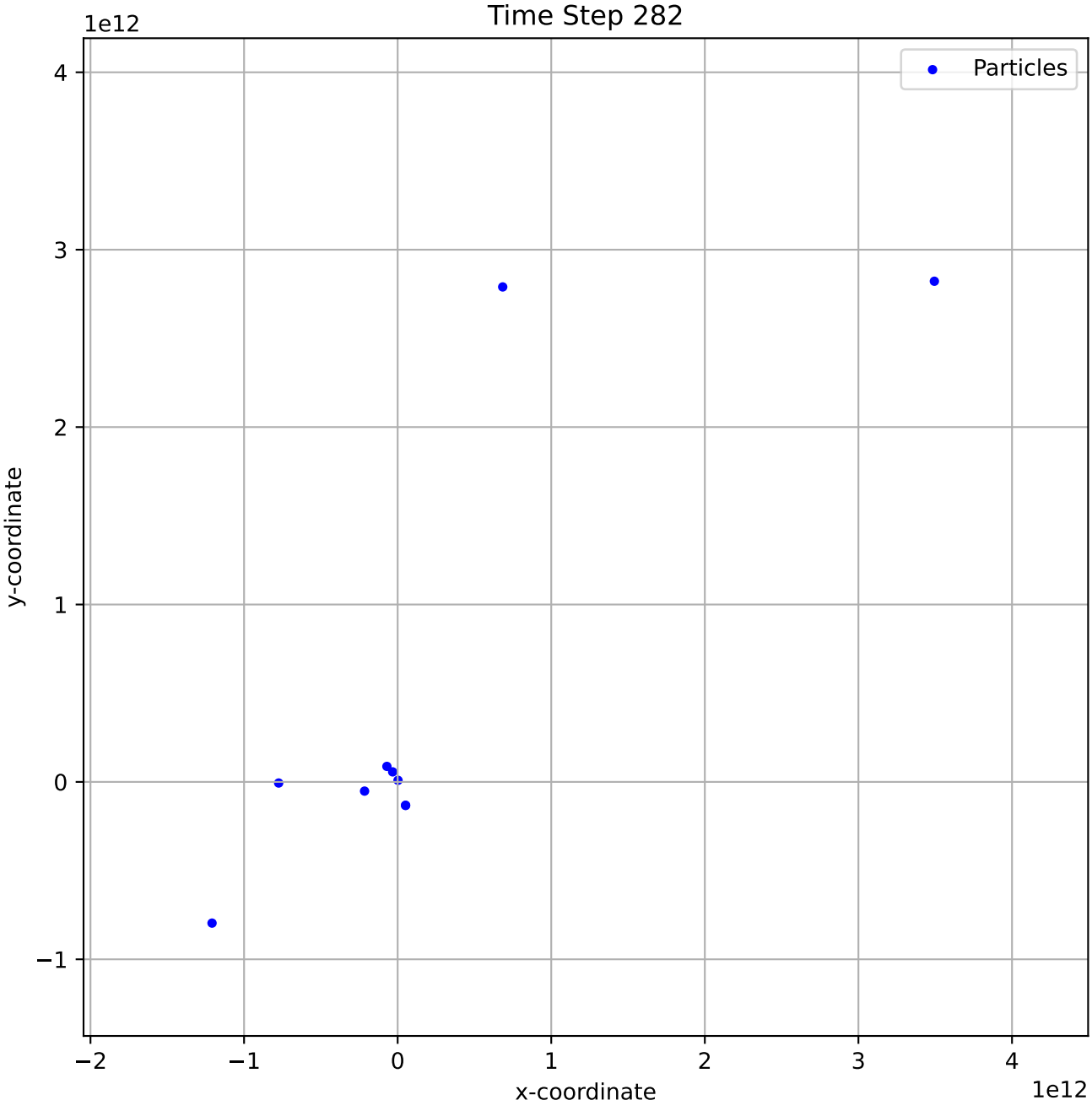

Time Step 277
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

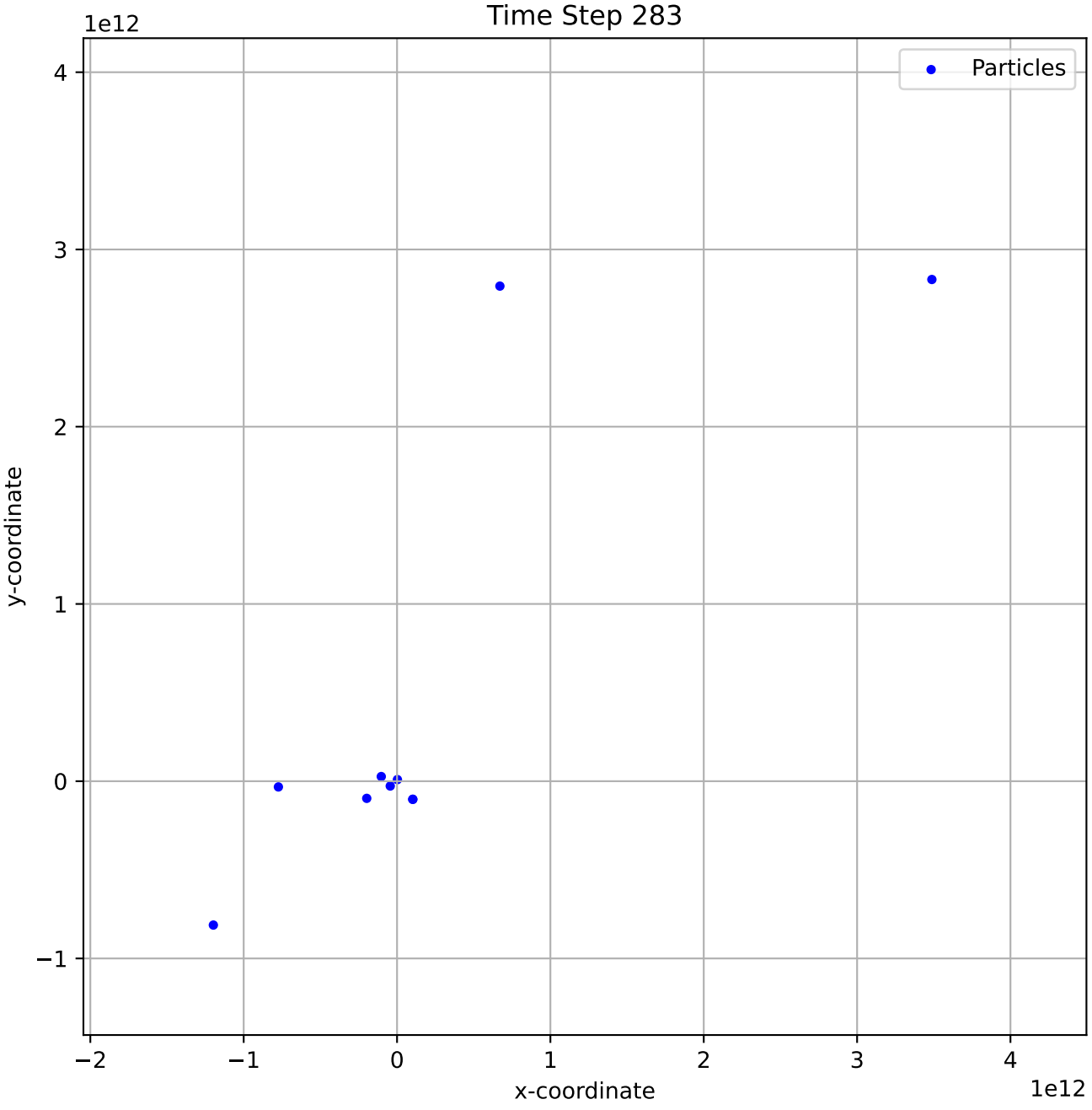

Time Step 278
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

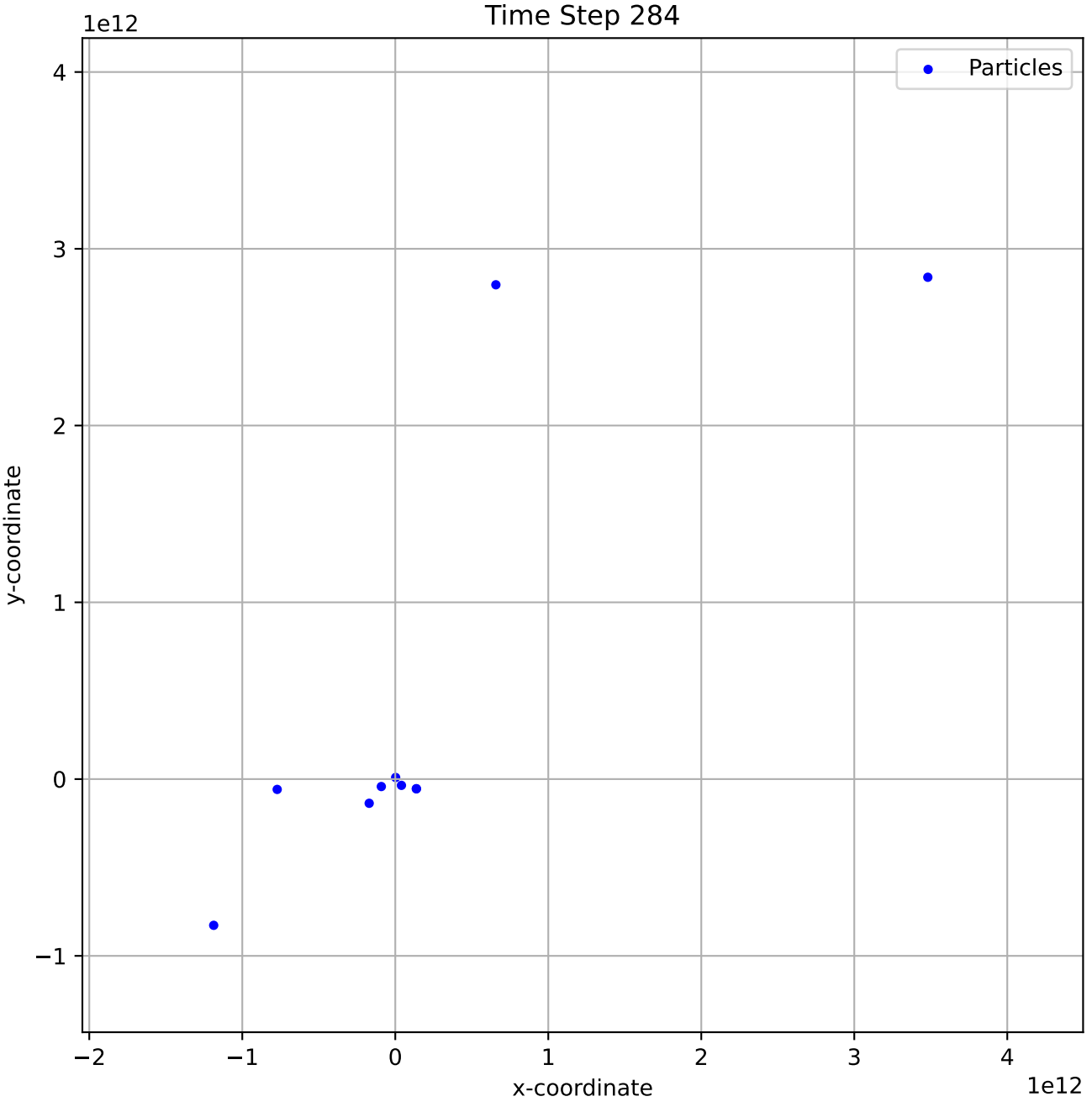

Time Step 279
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

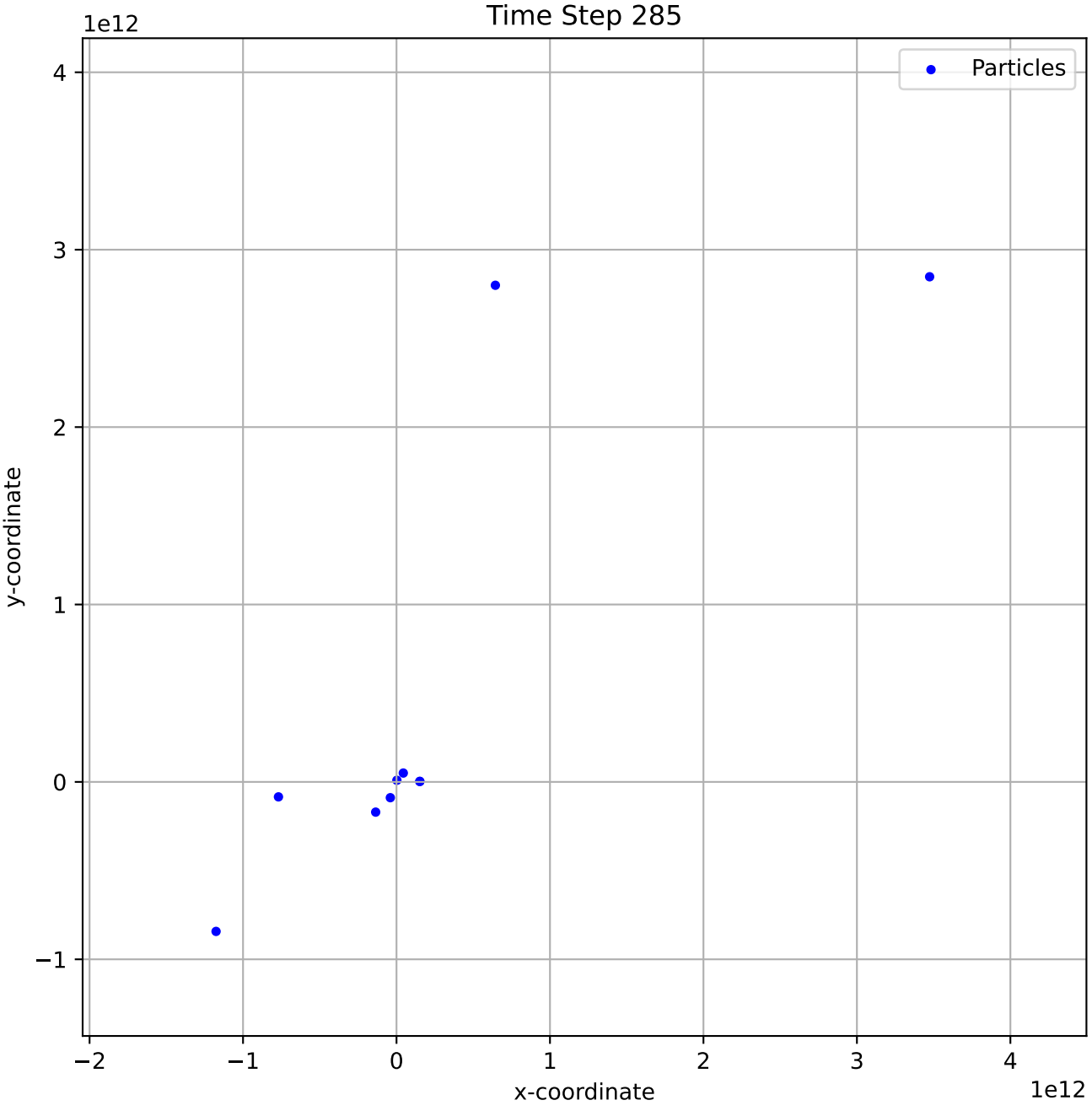

Time Step 280
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

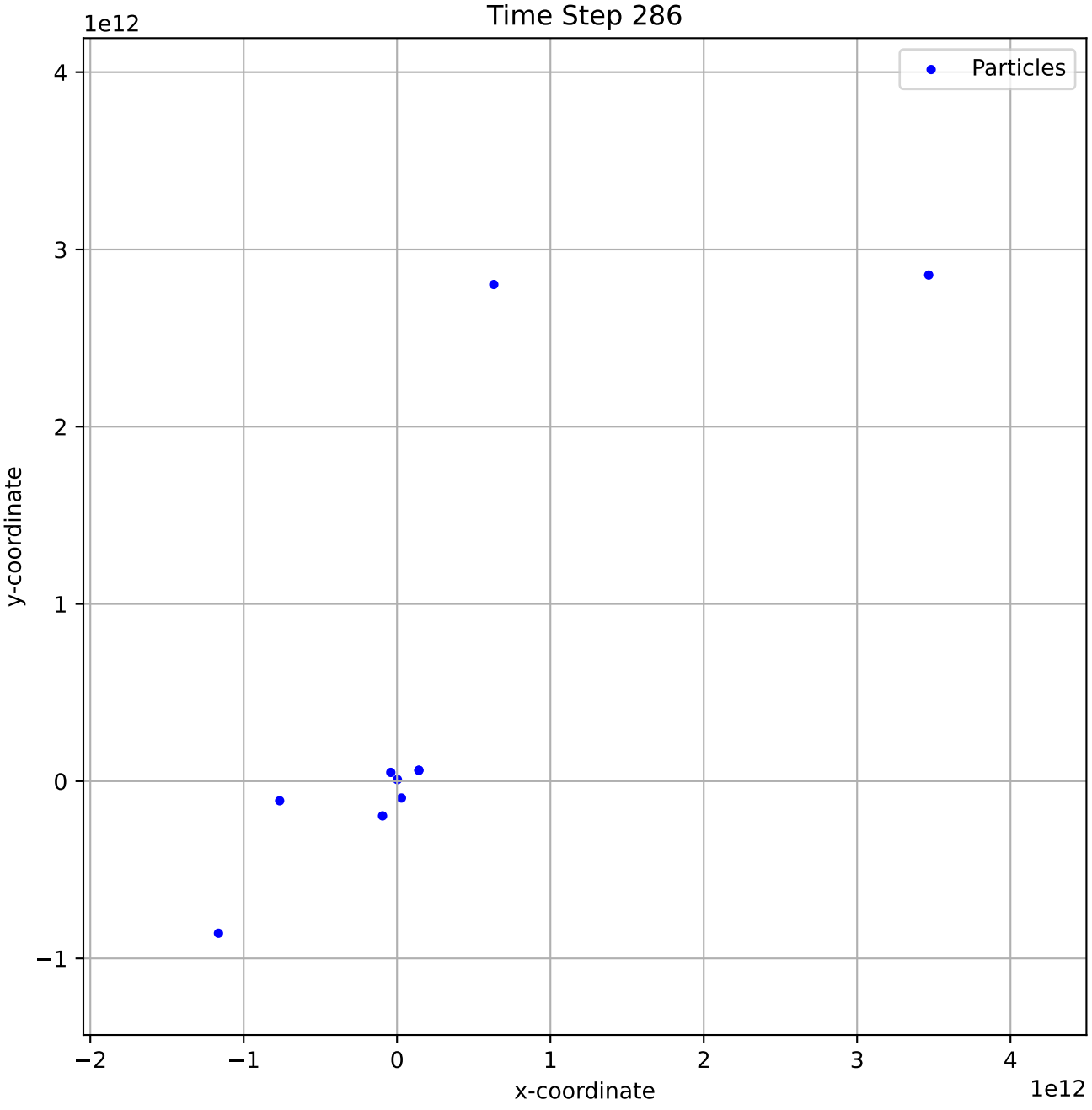

Time Step 281
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

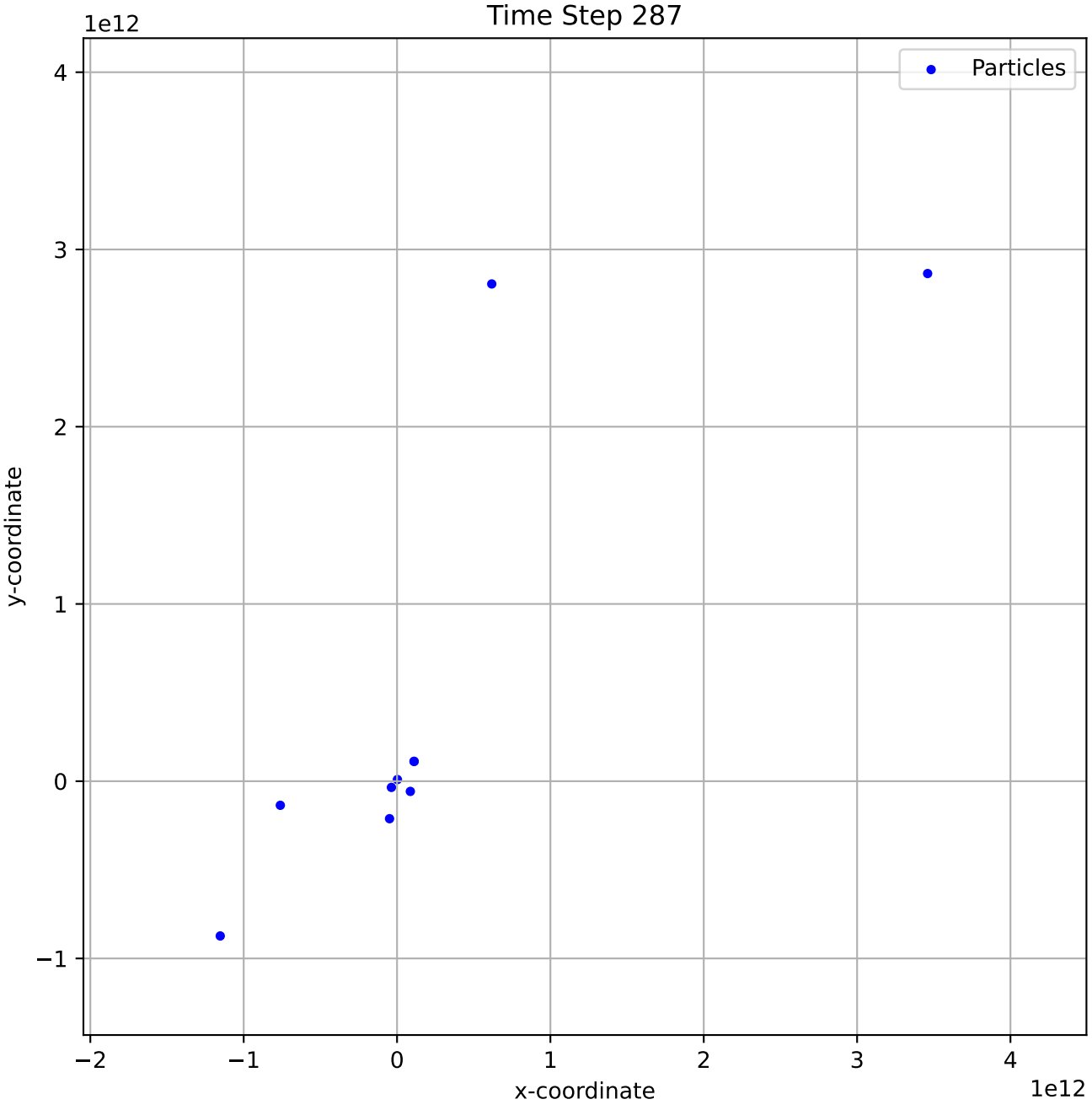

Time Step 282
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

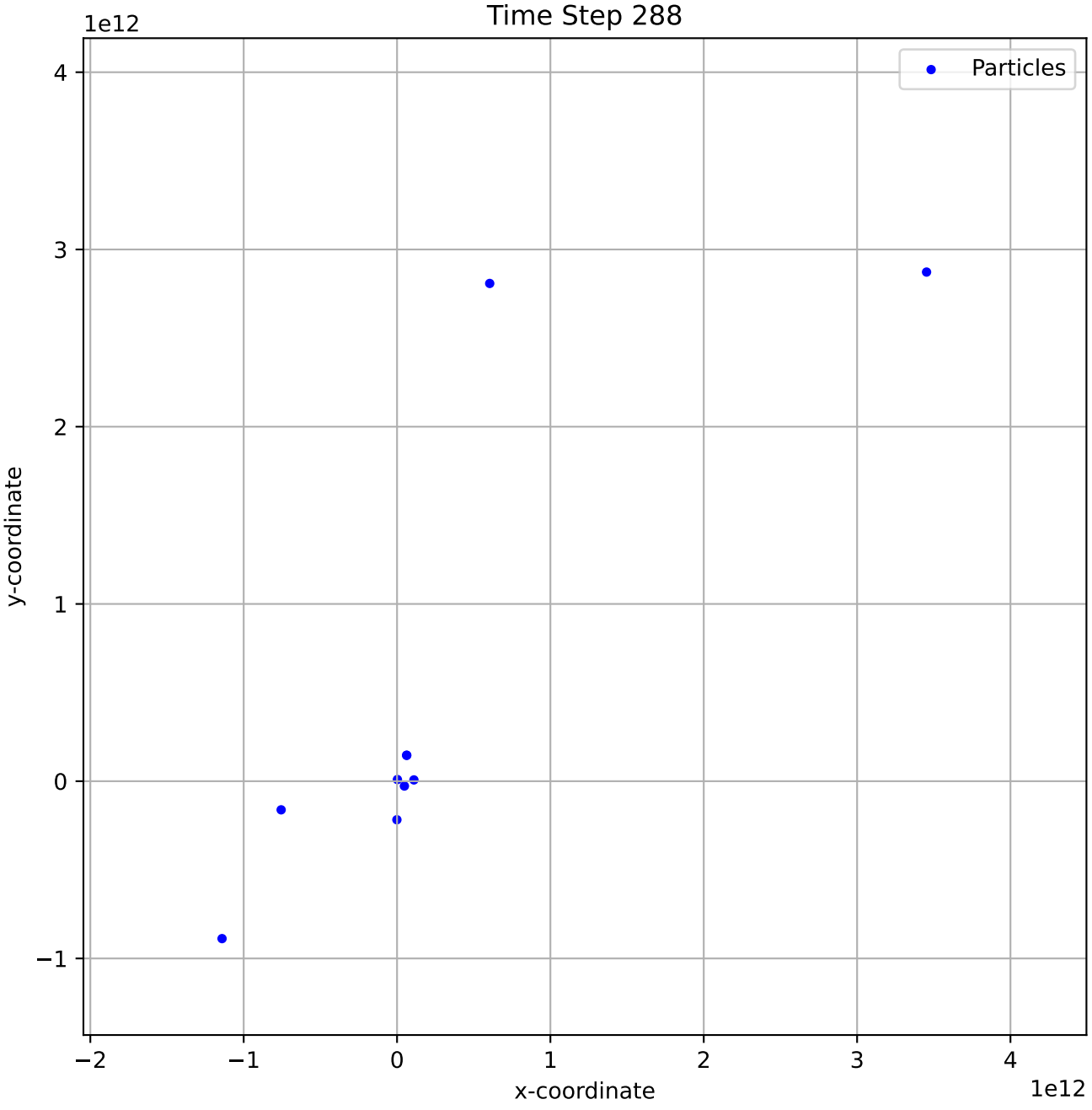

Time Step 283
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

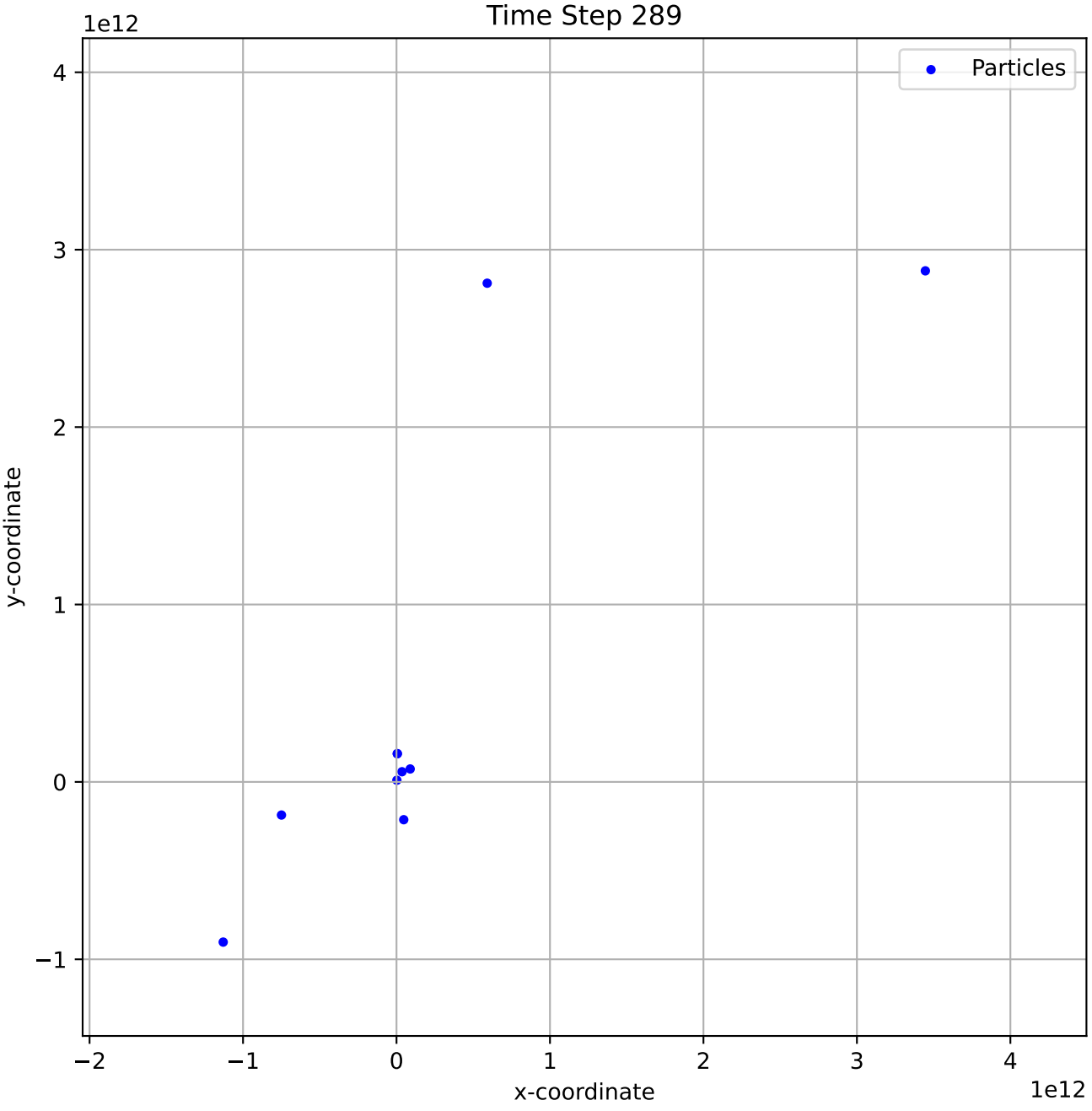

Time Step 284
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

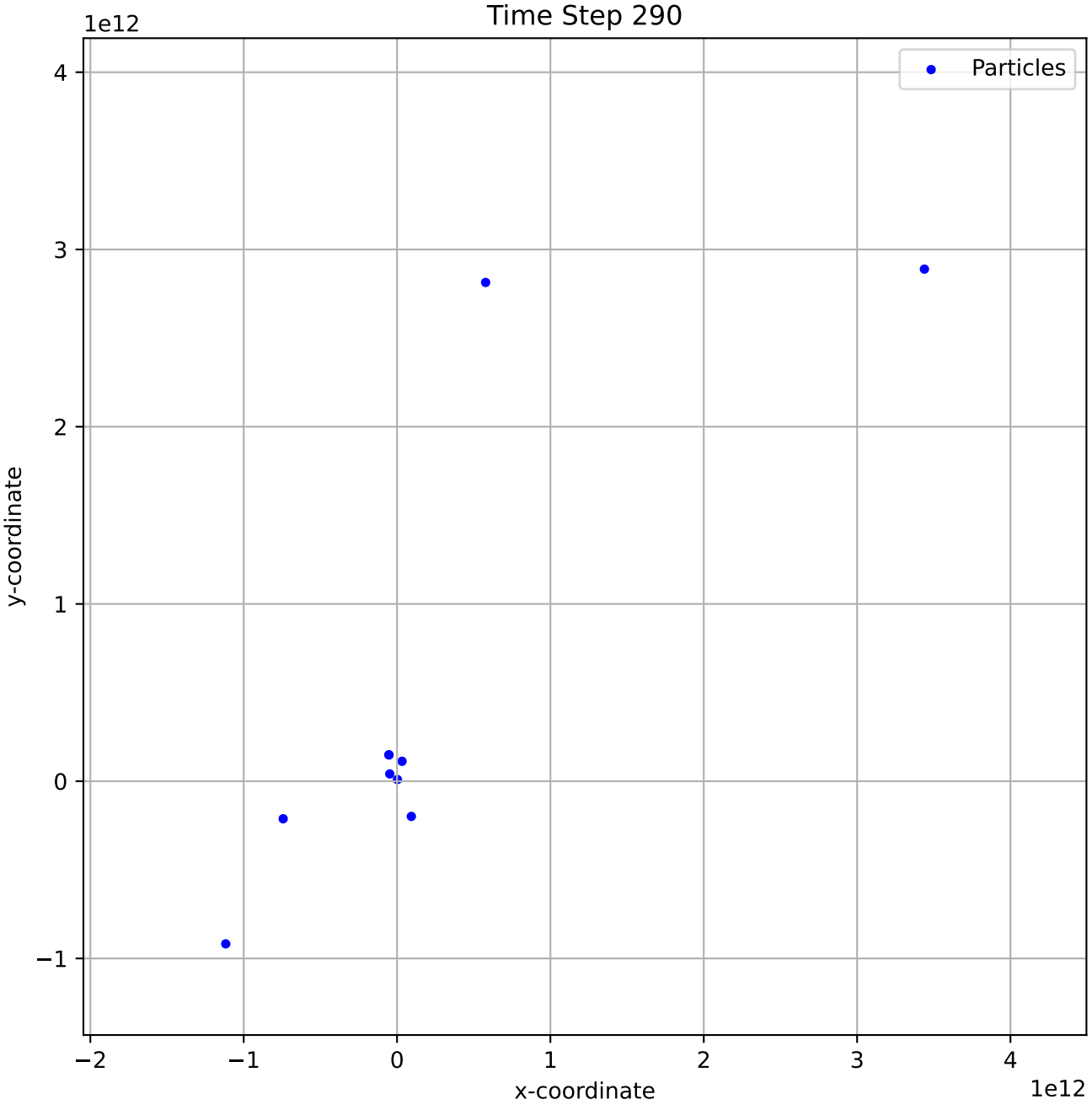

Time Step 285
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

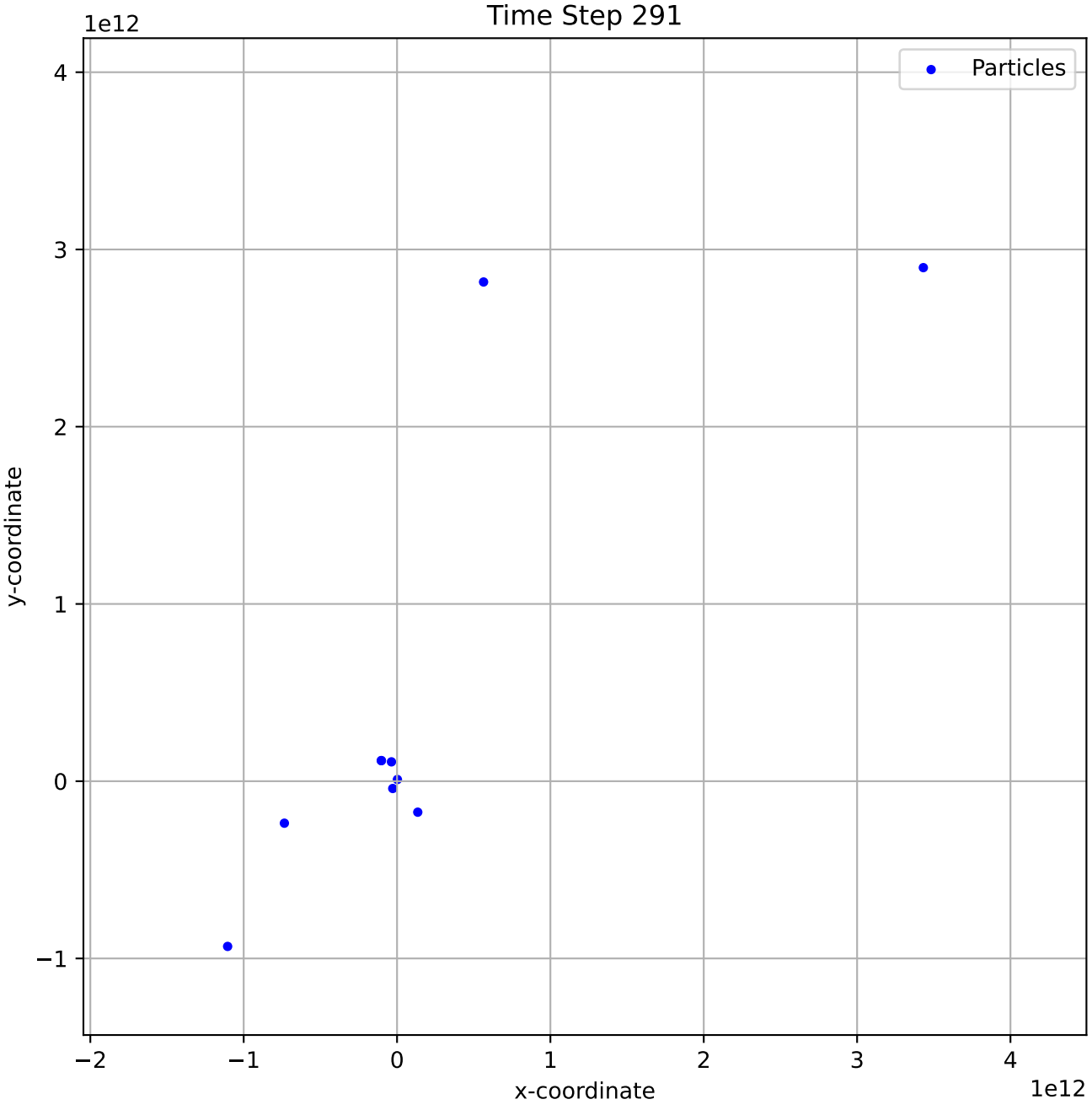

Time Step 286
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

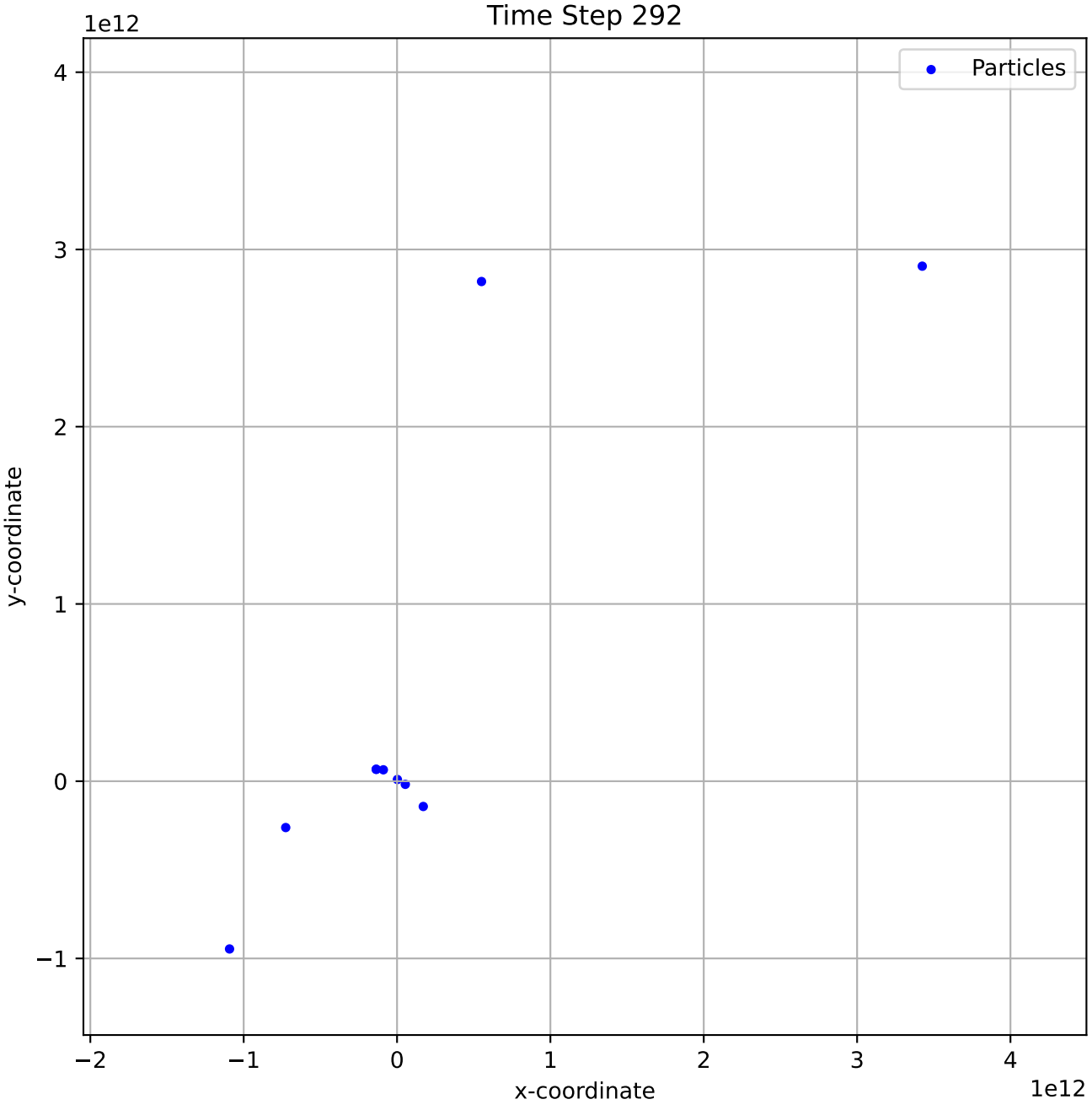

Time Step 287
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

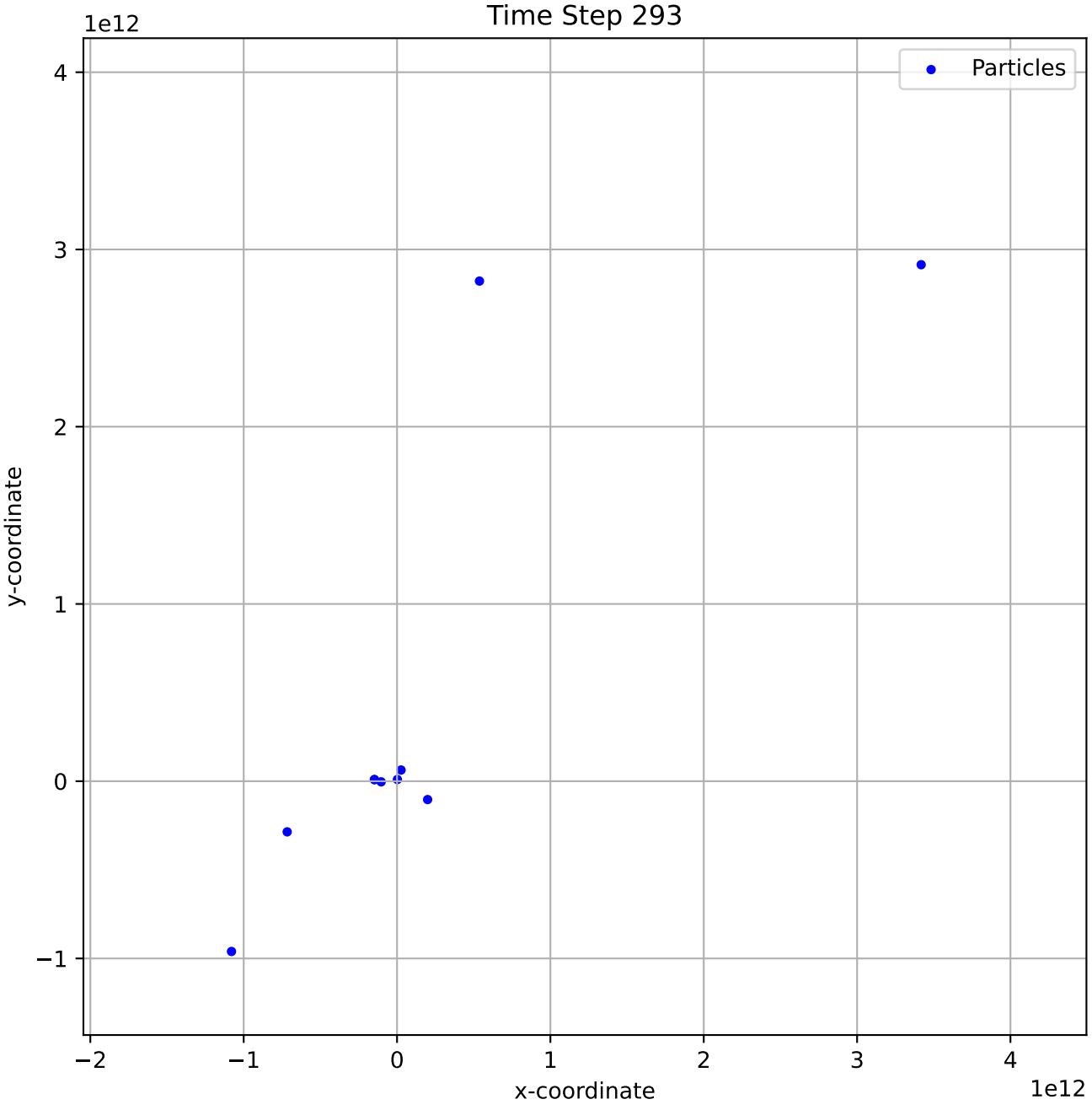

Time Step 288
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

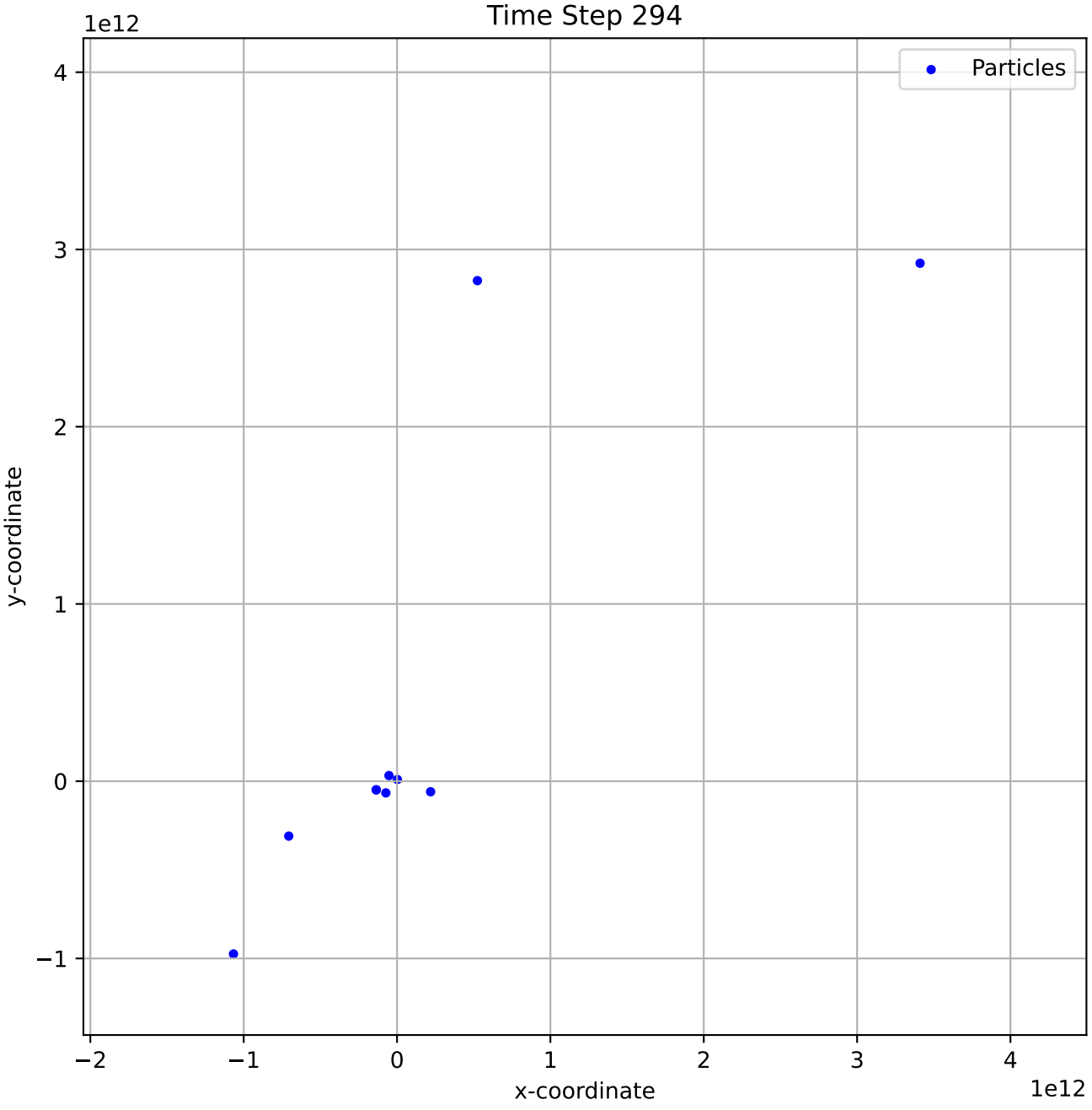

Time Step 289
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

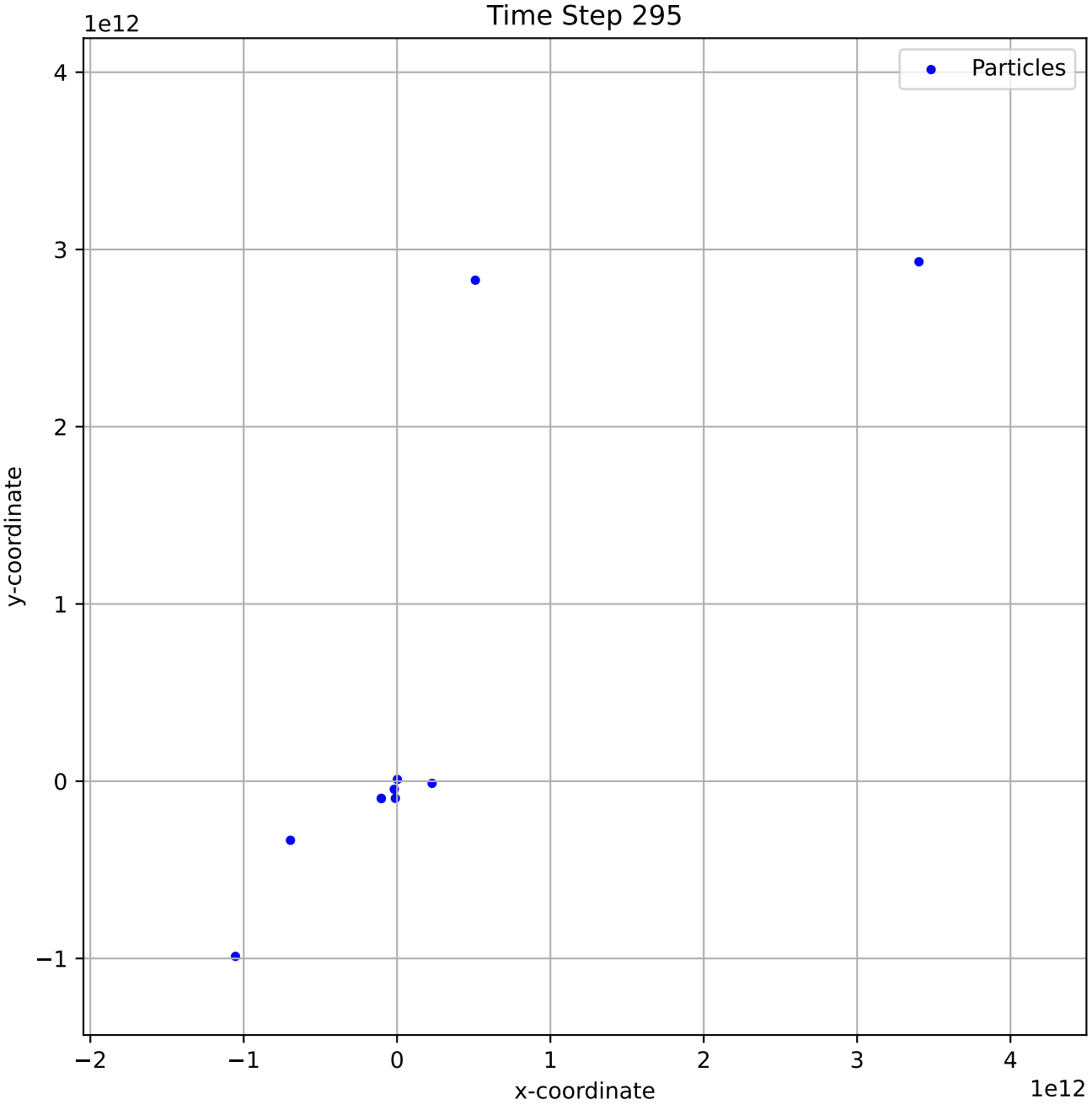

Time Step 290
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

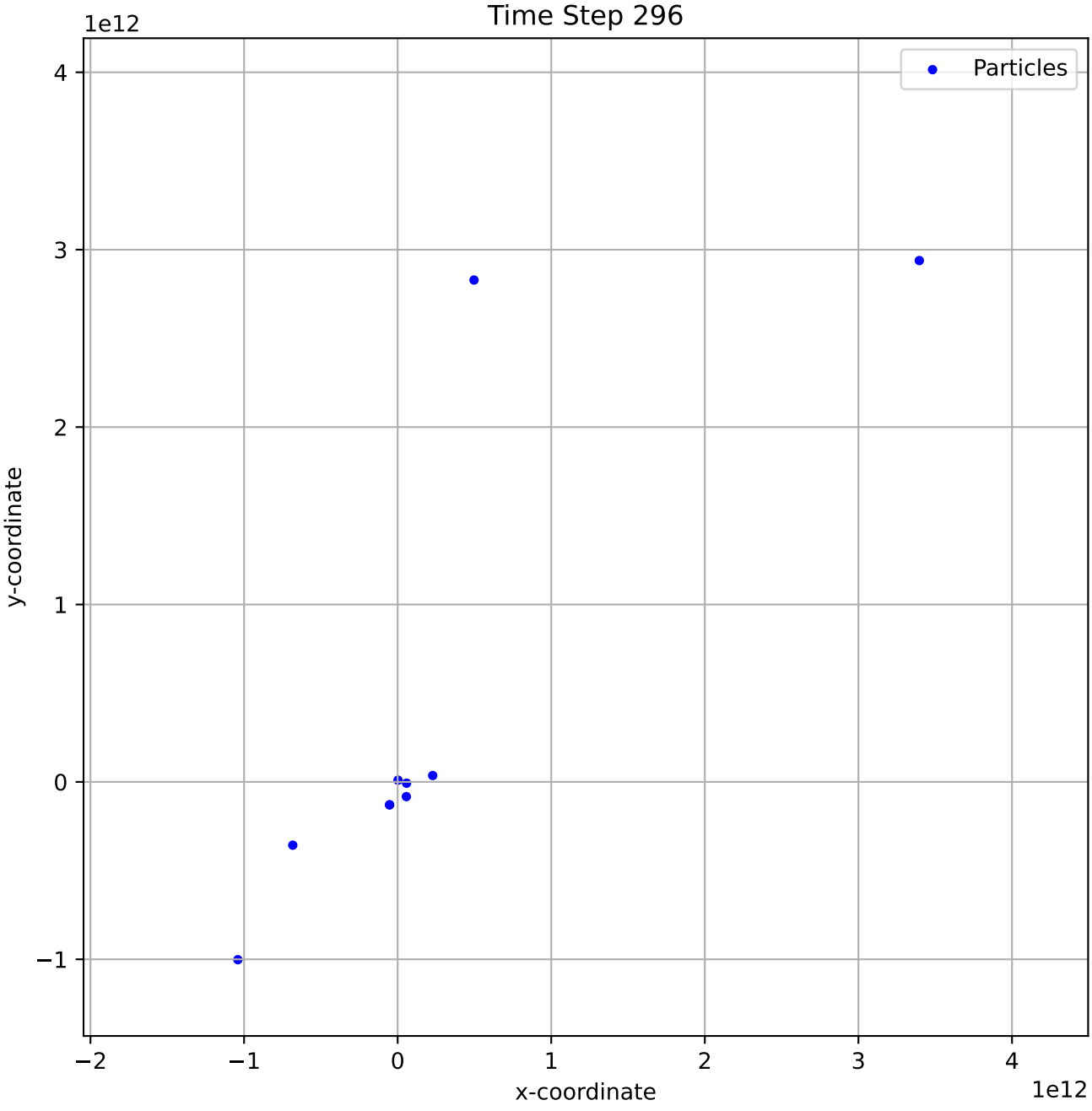

Time Step 291
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

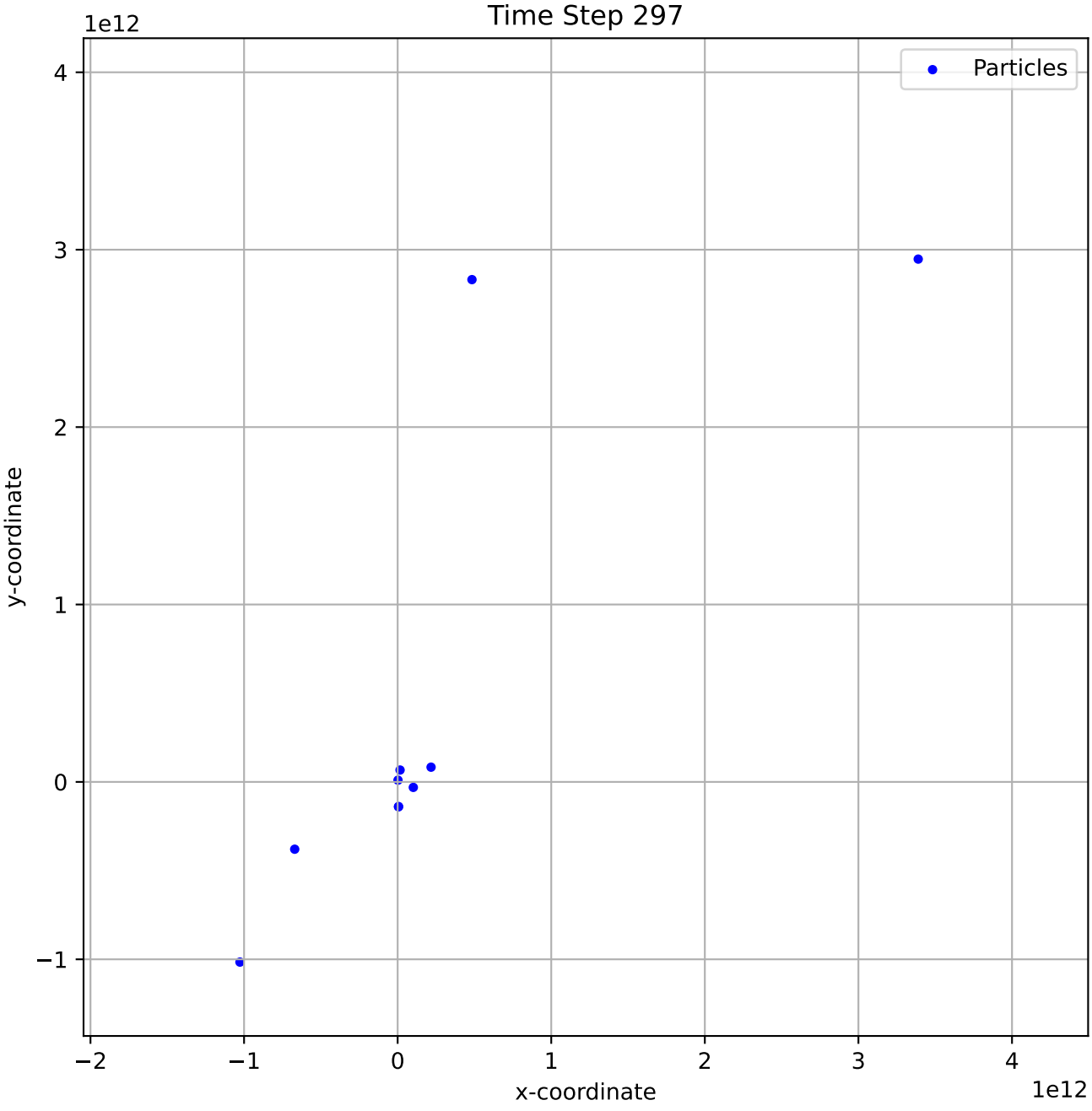

Time Step 292
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

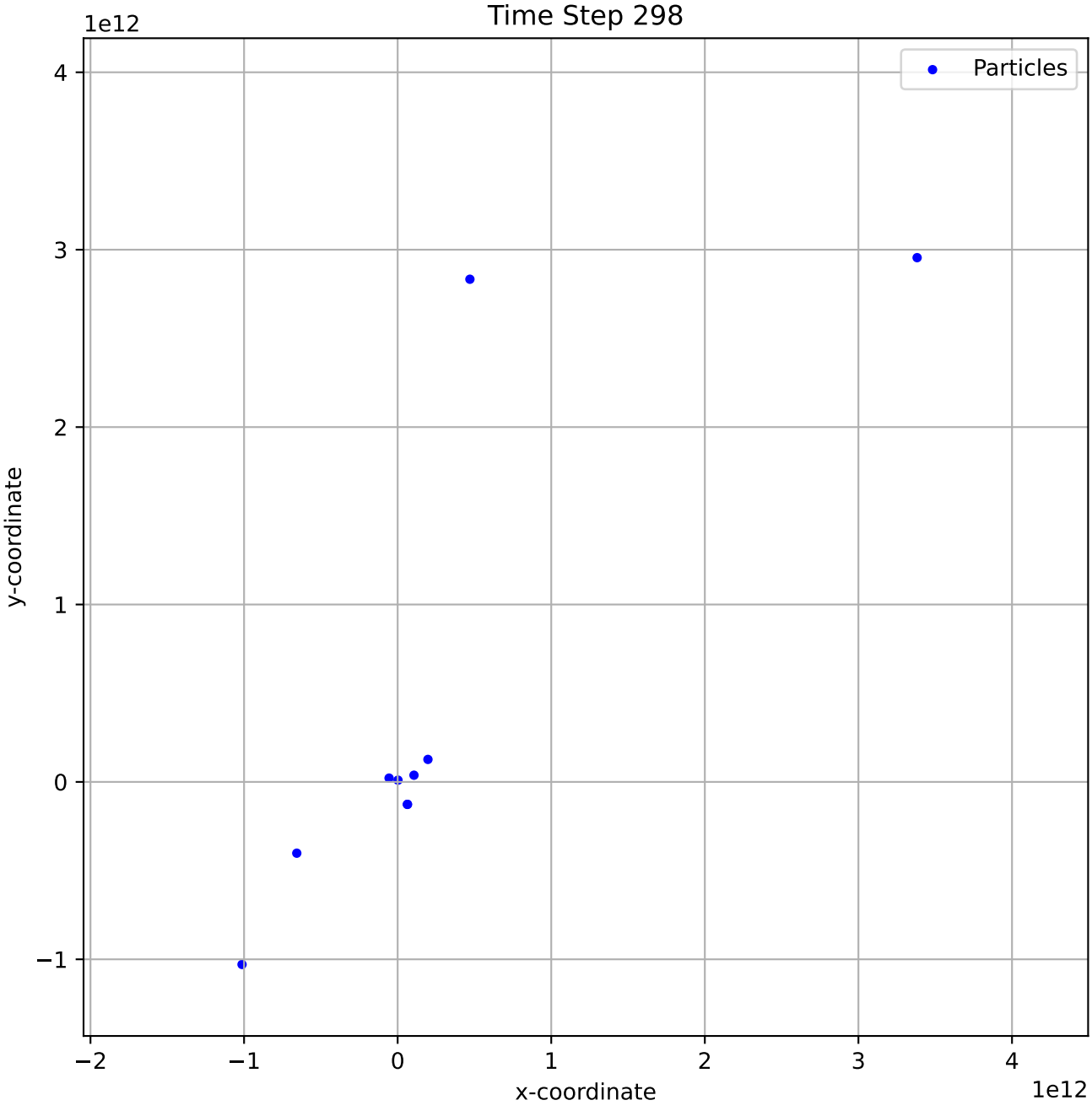

Time Step 293
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

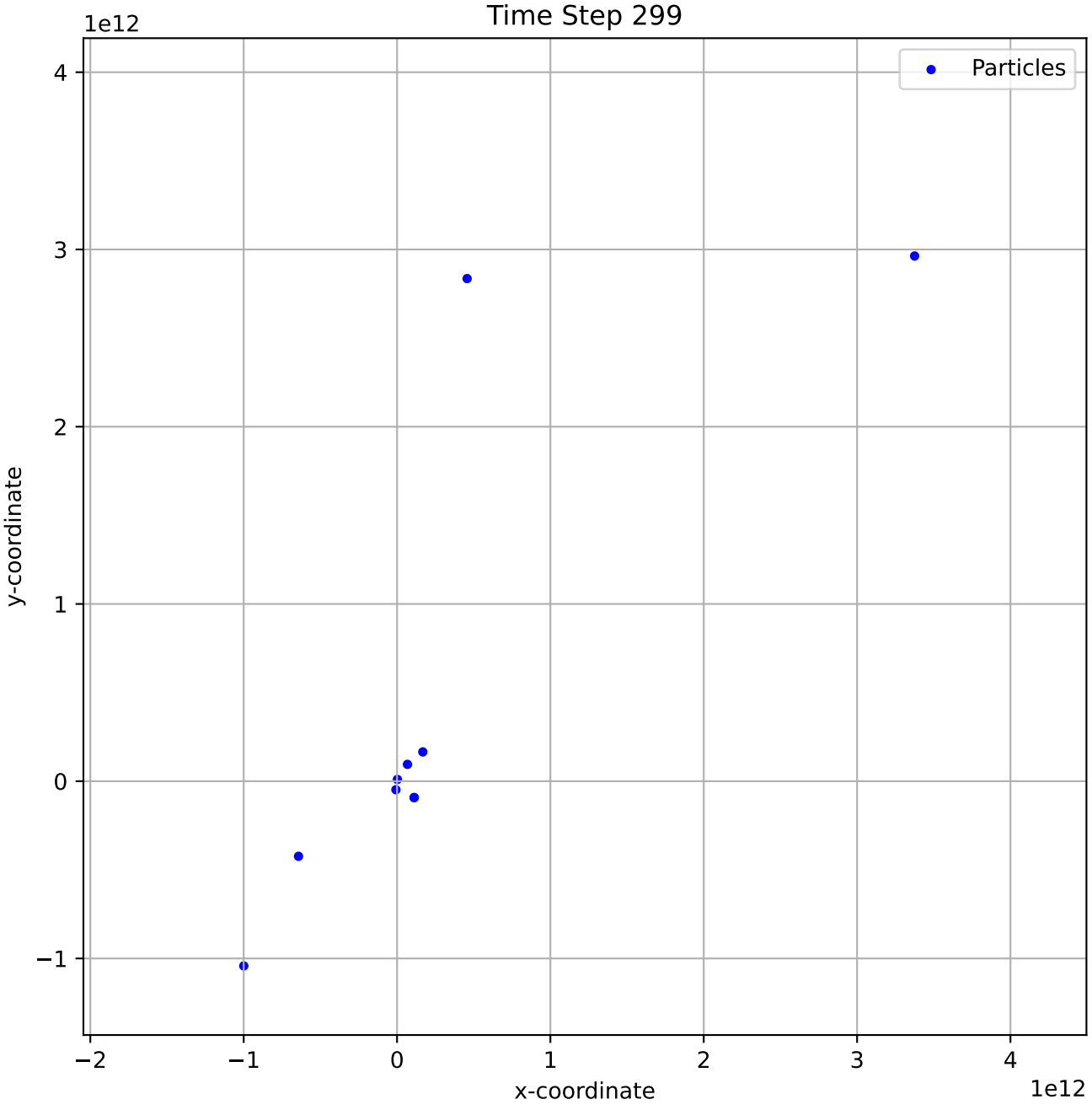

Time Step 294
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

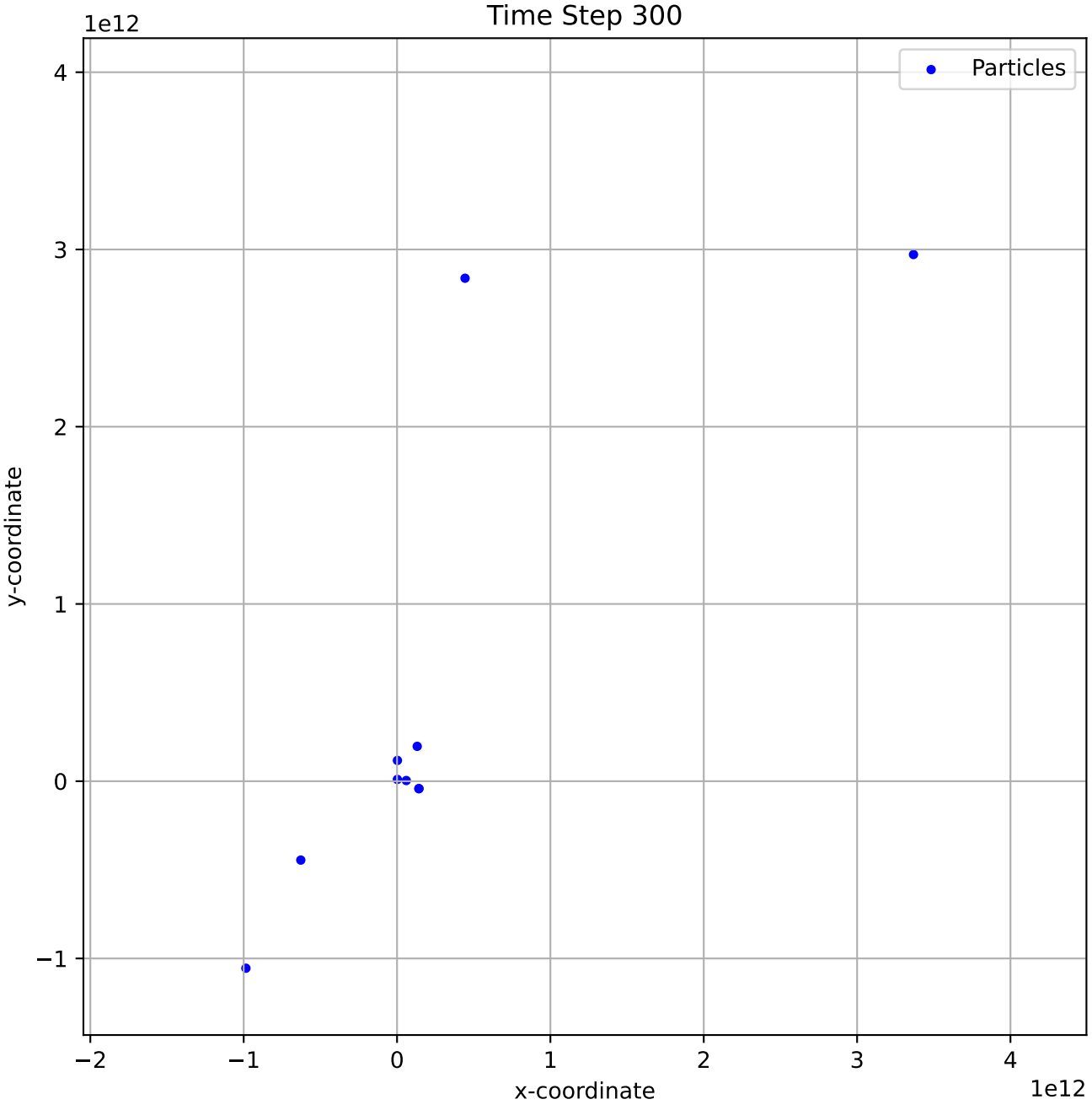

Time Step 295
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

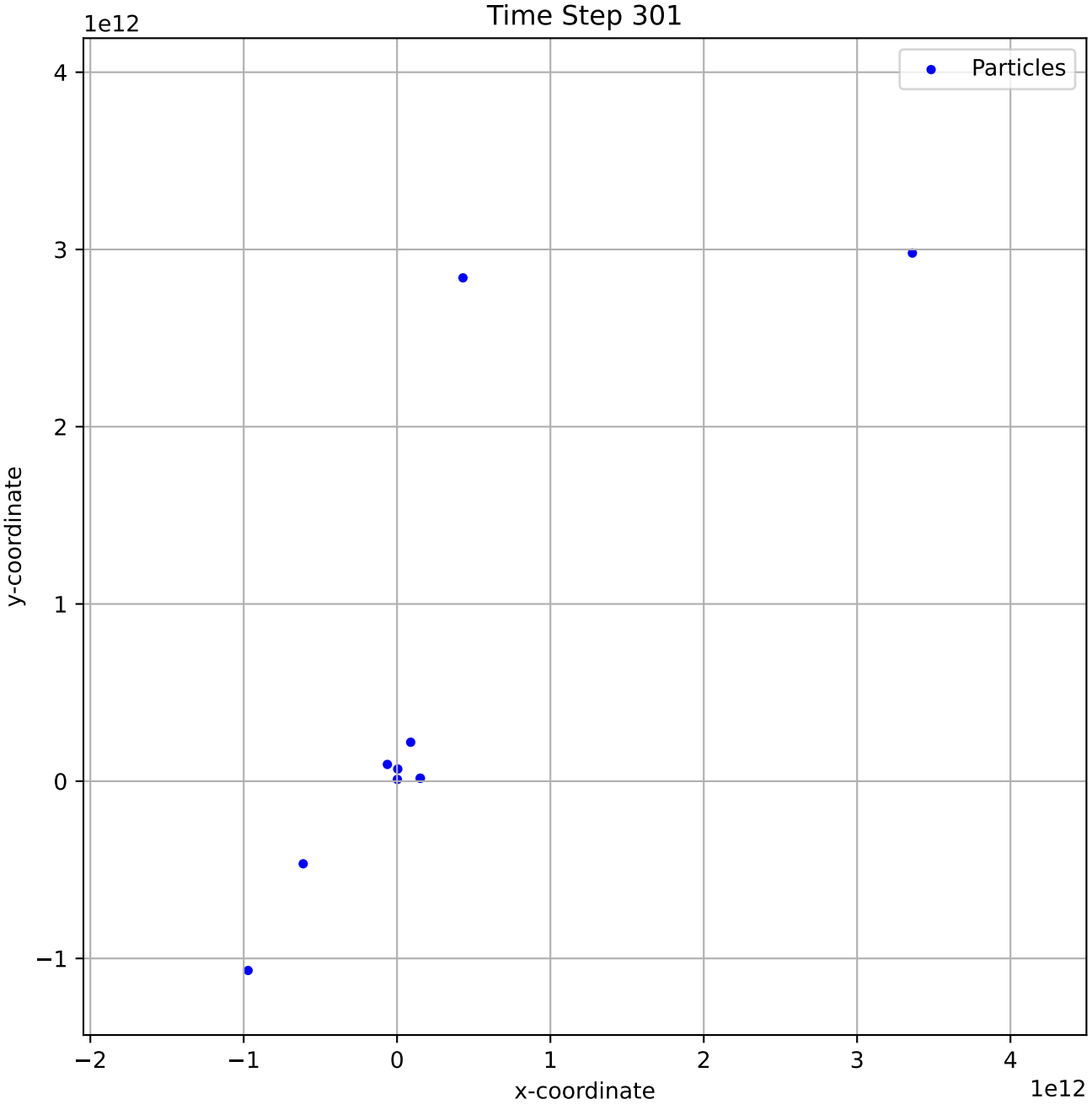

Time Step 296
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

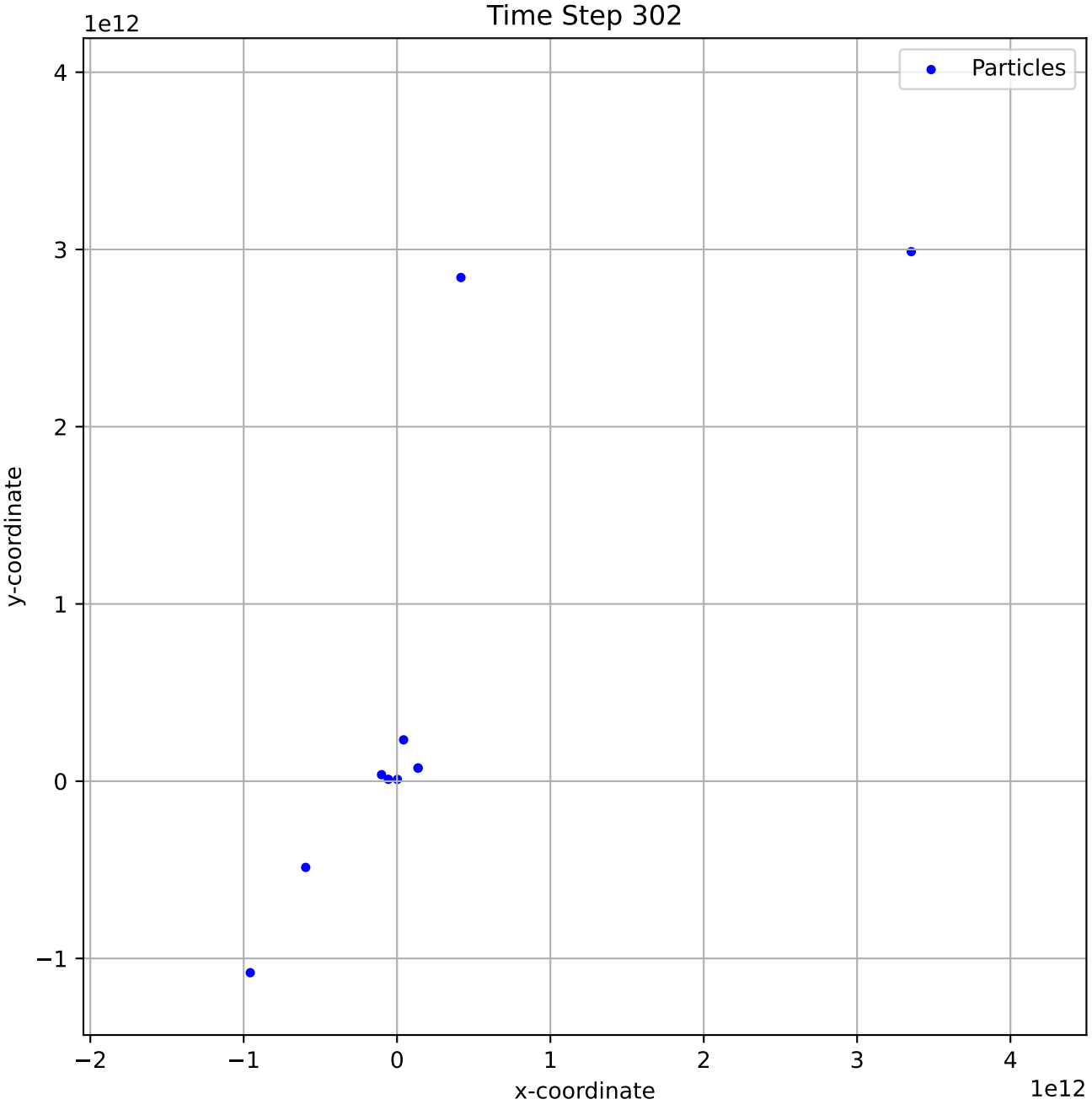

Time Step 297
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

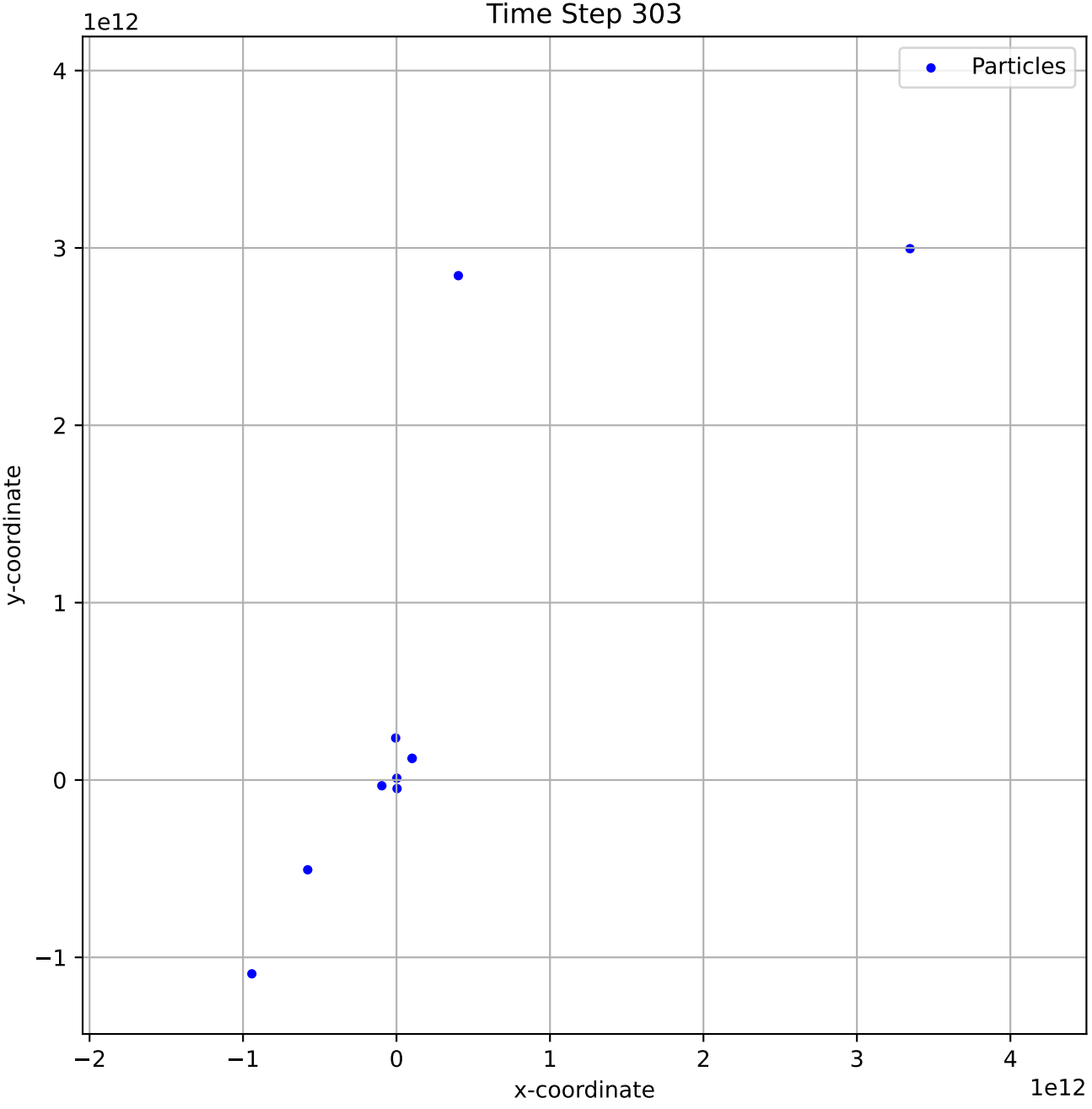

Time Step 298
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

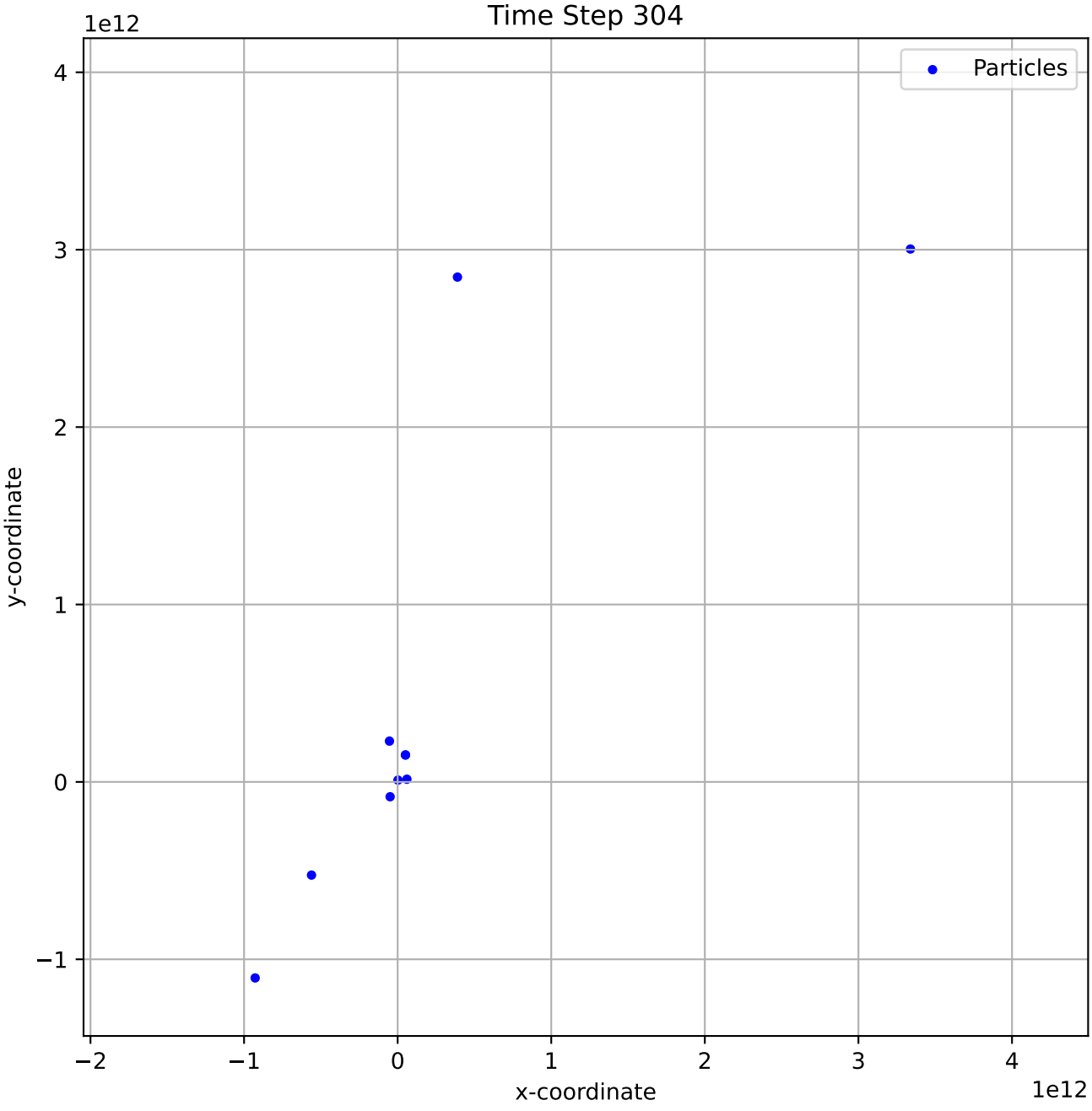

Time Step 299
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

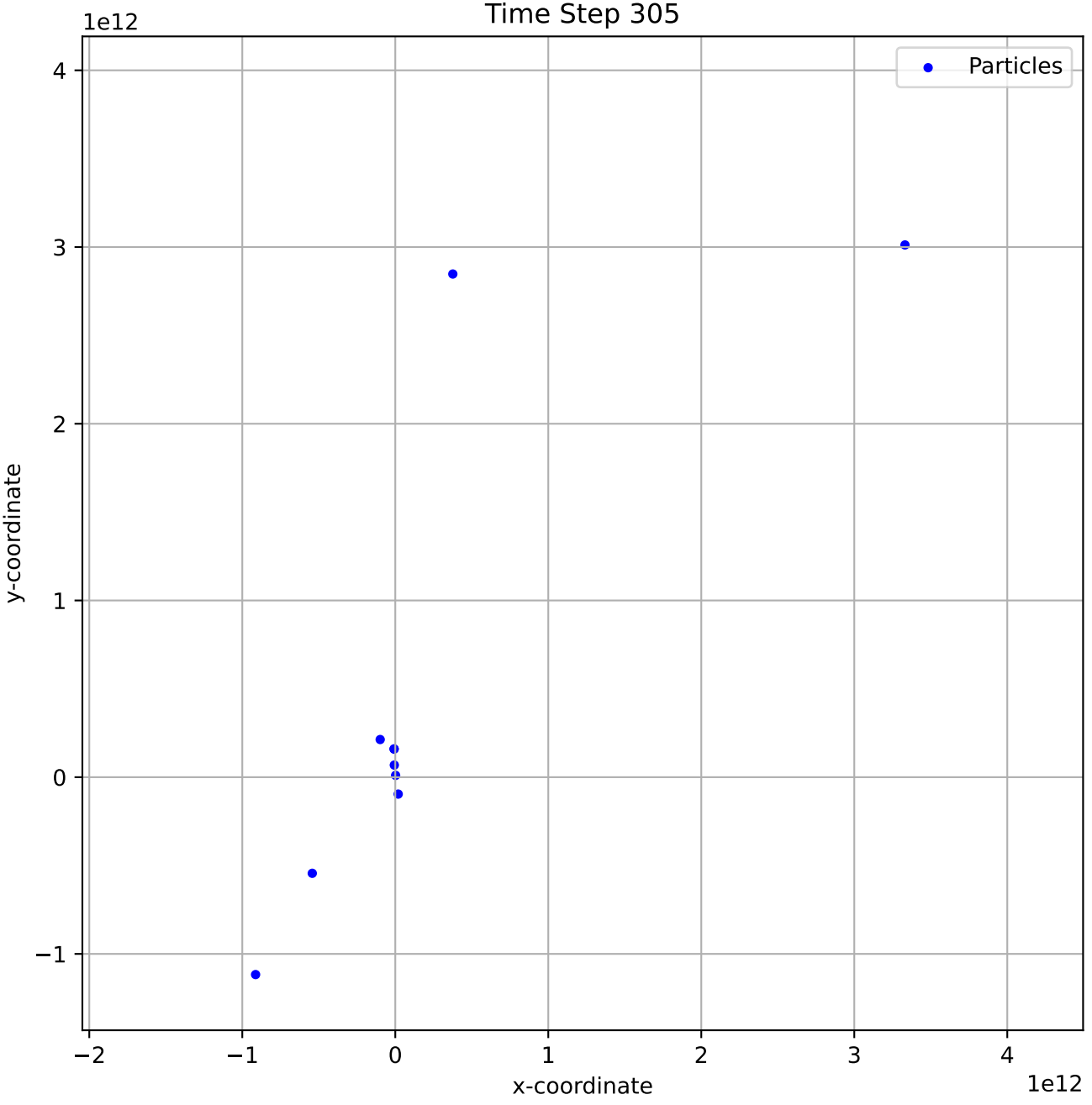

Time Step 300
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

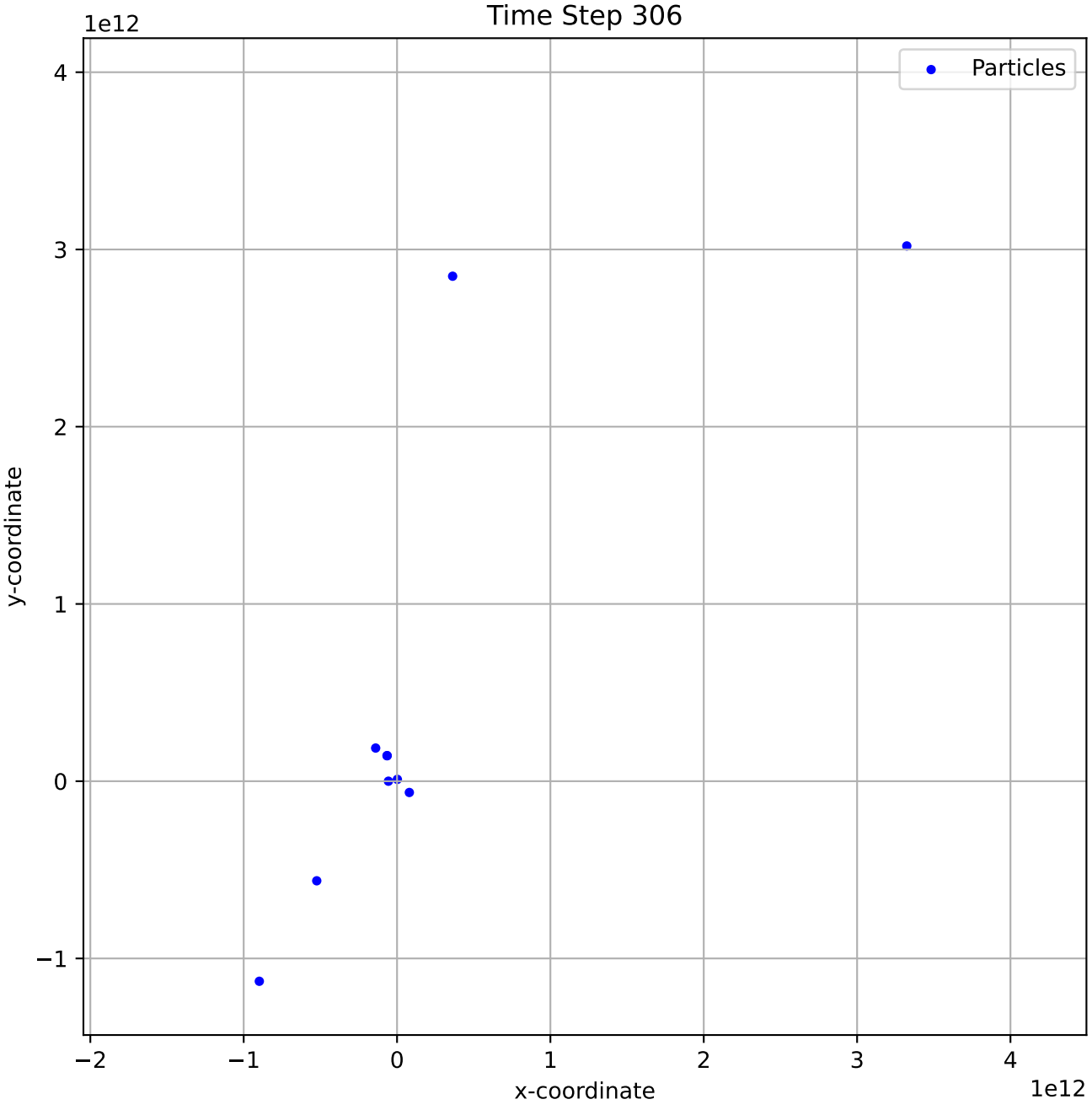

Time Step 301
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

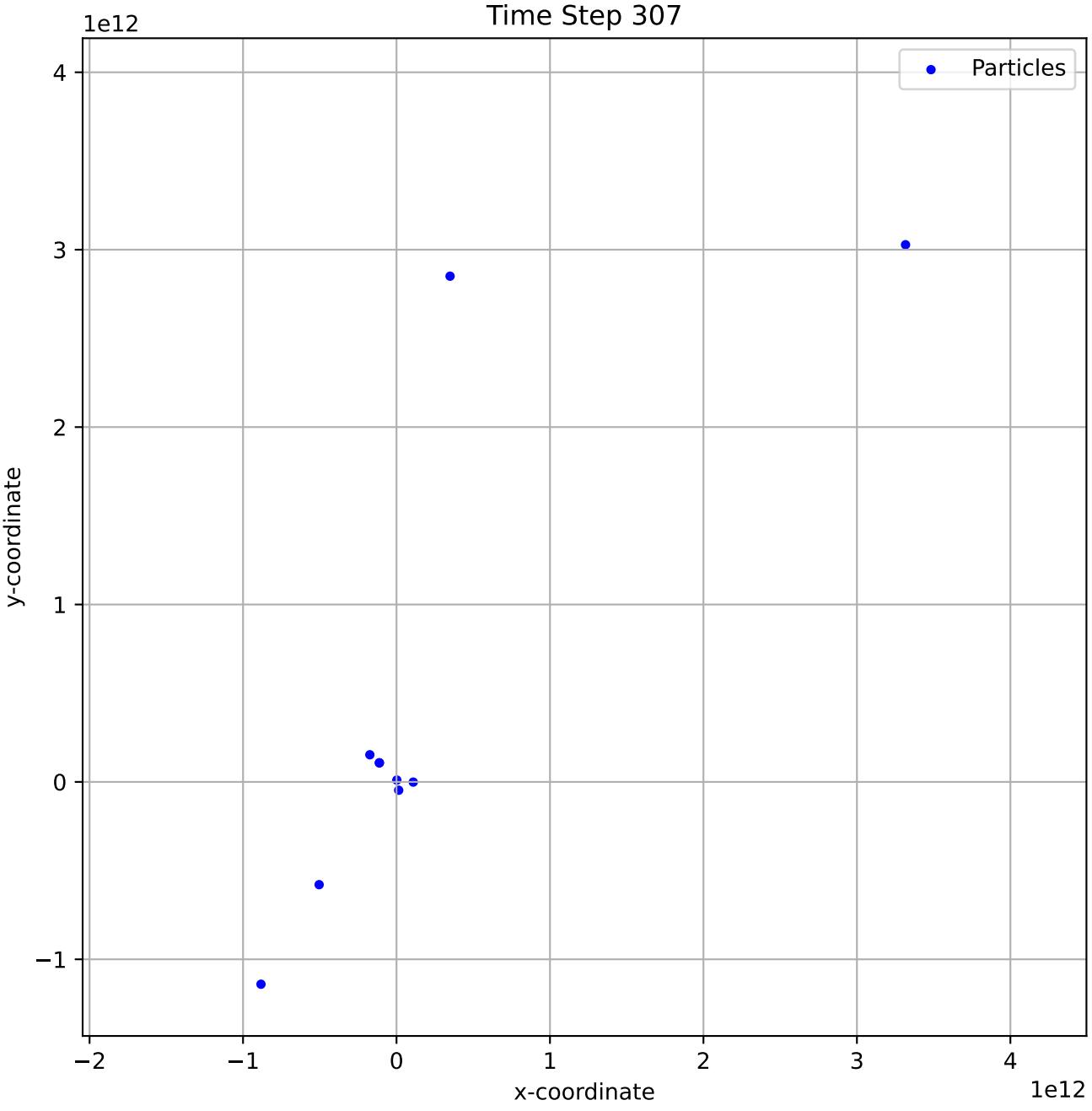

Time Step 302
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

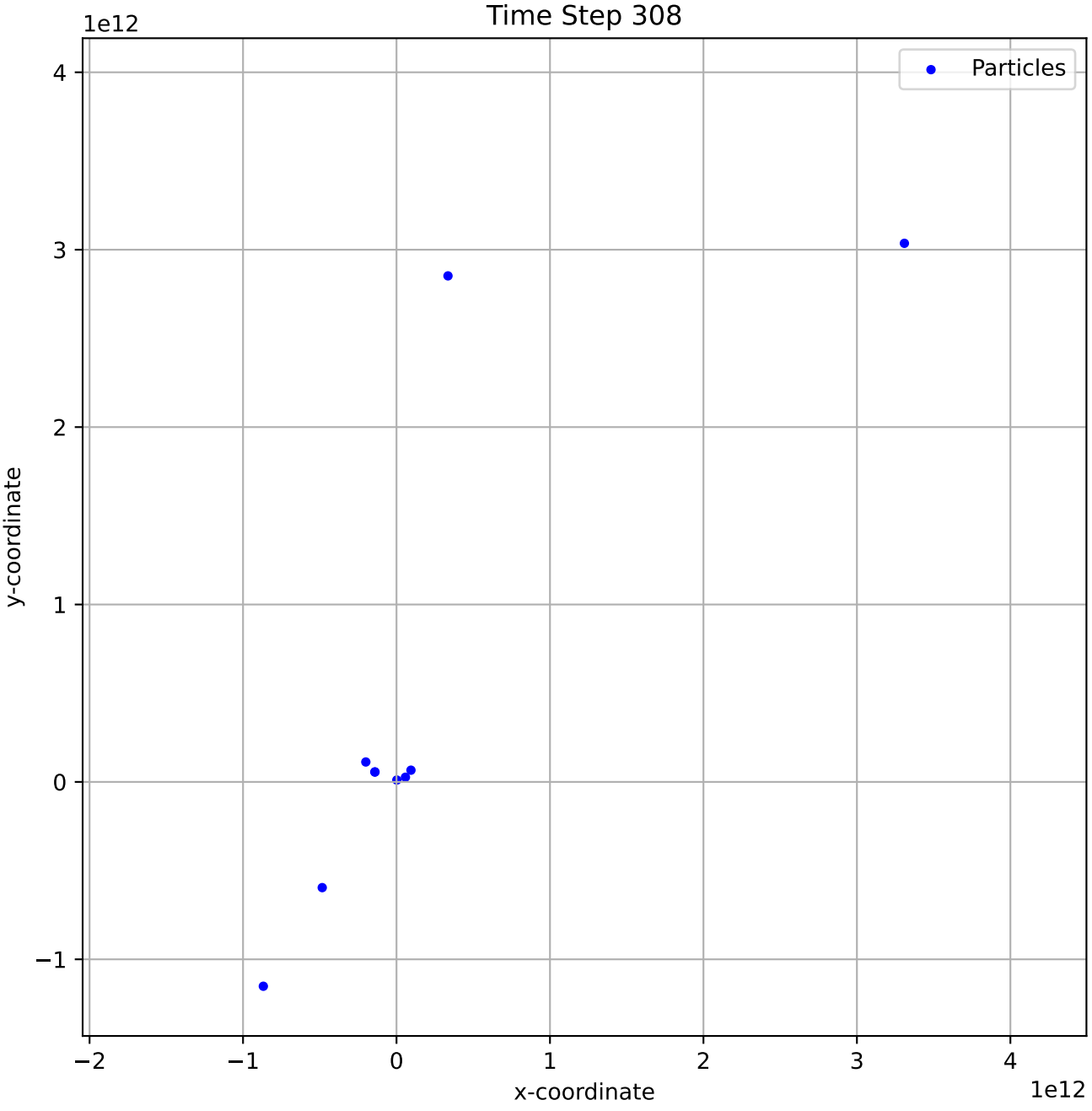

Time Step 303
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

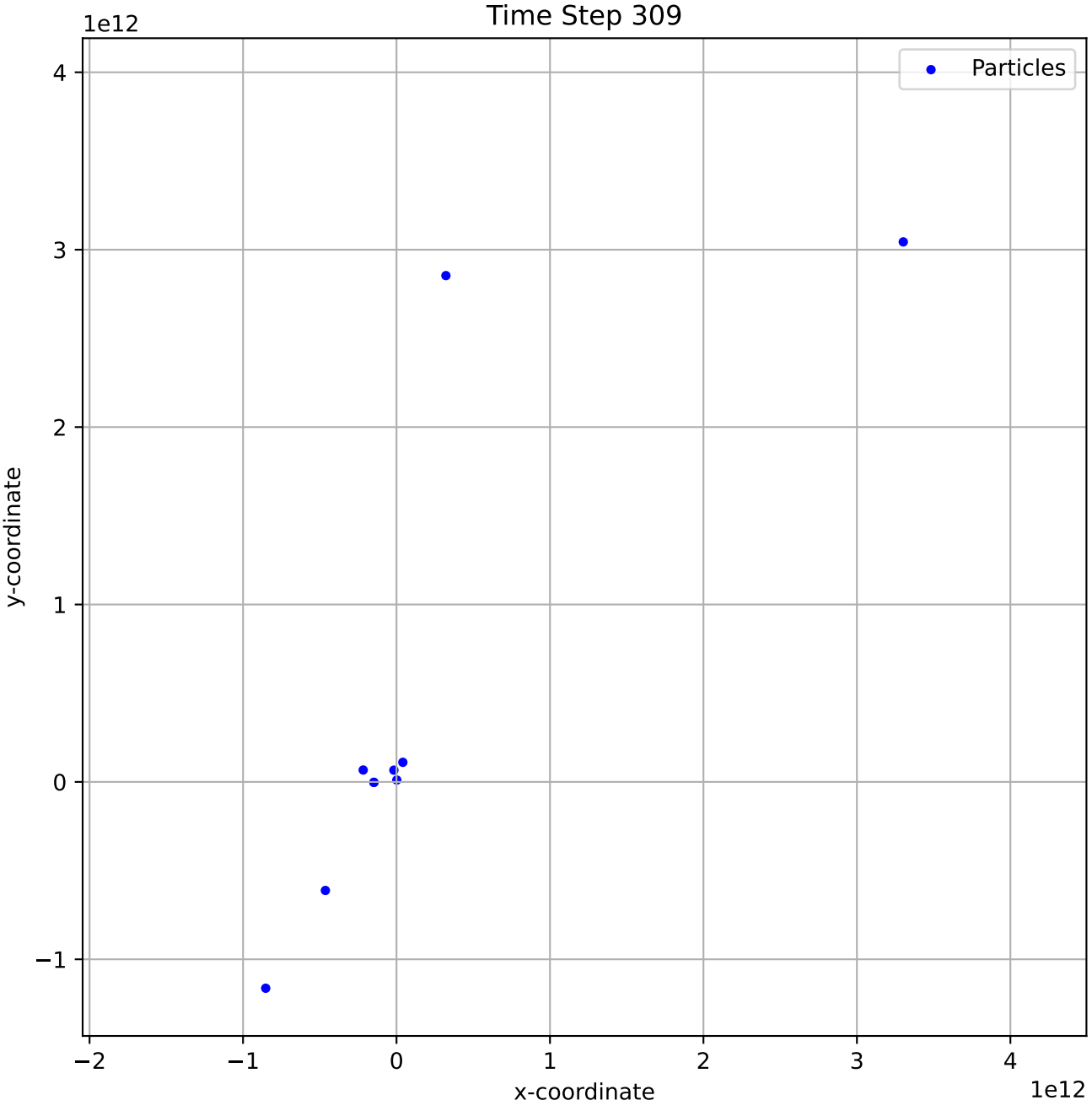

Time Step 304
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

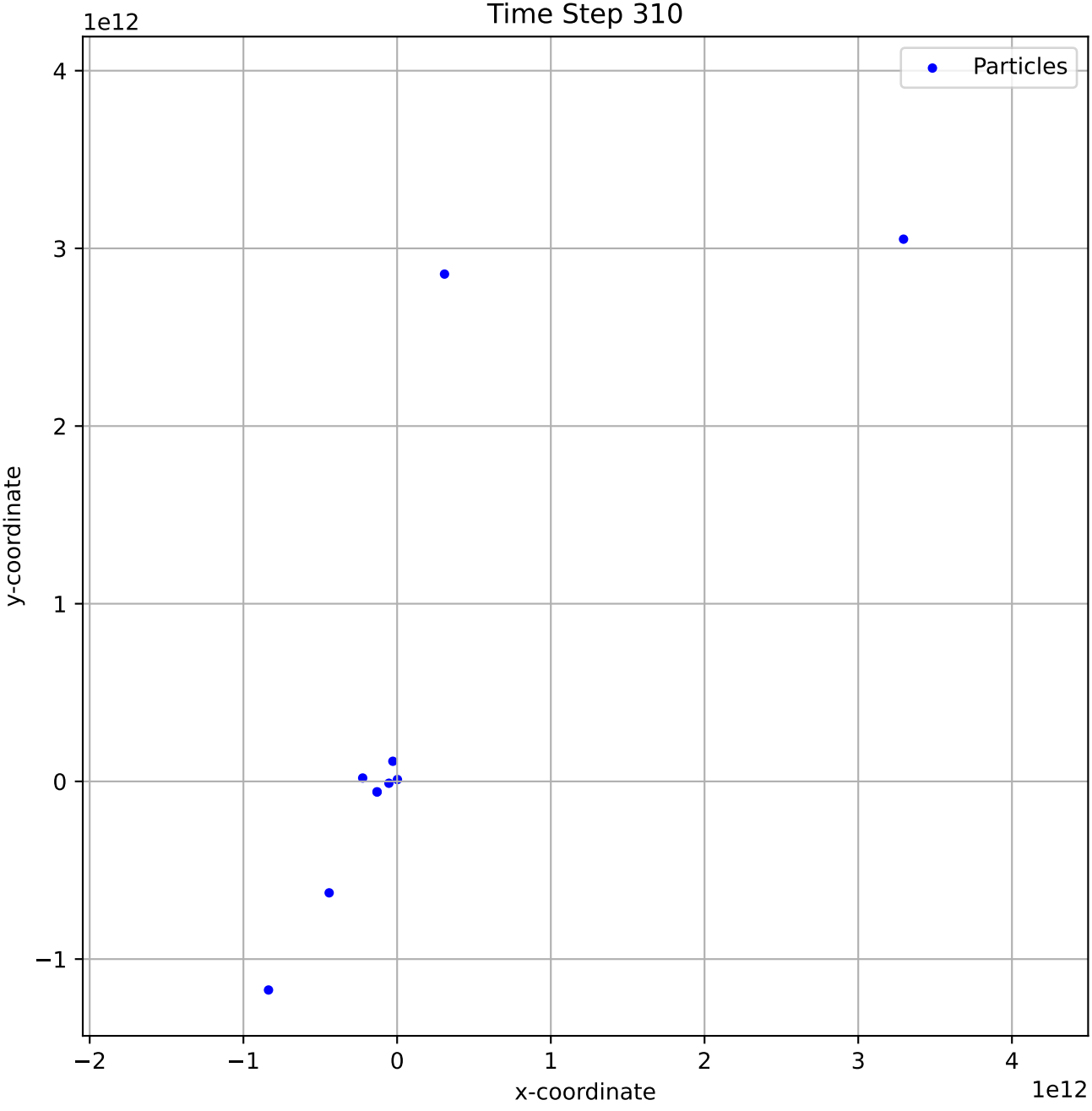

Time Step 305
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

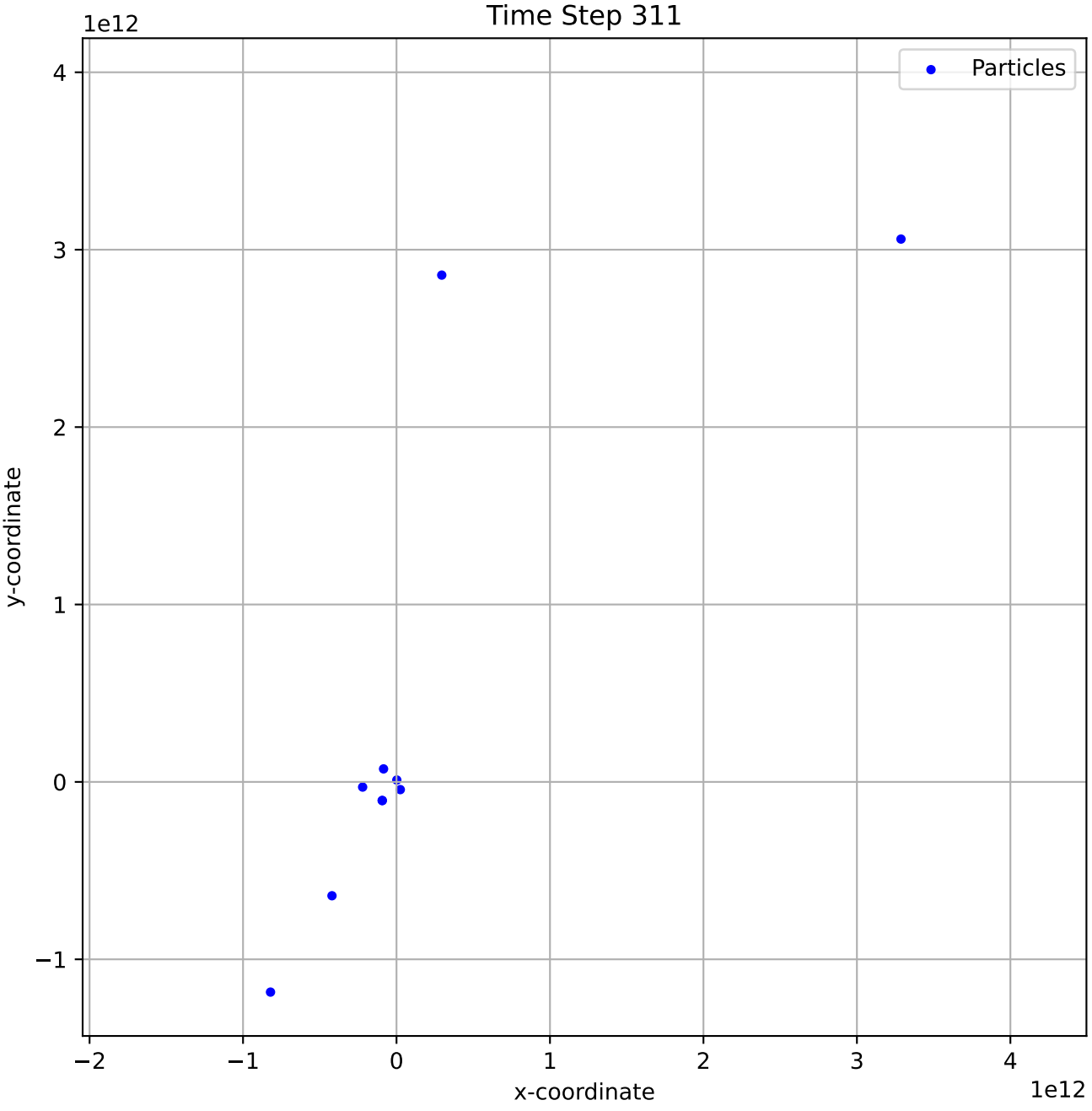

Time Step 306
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

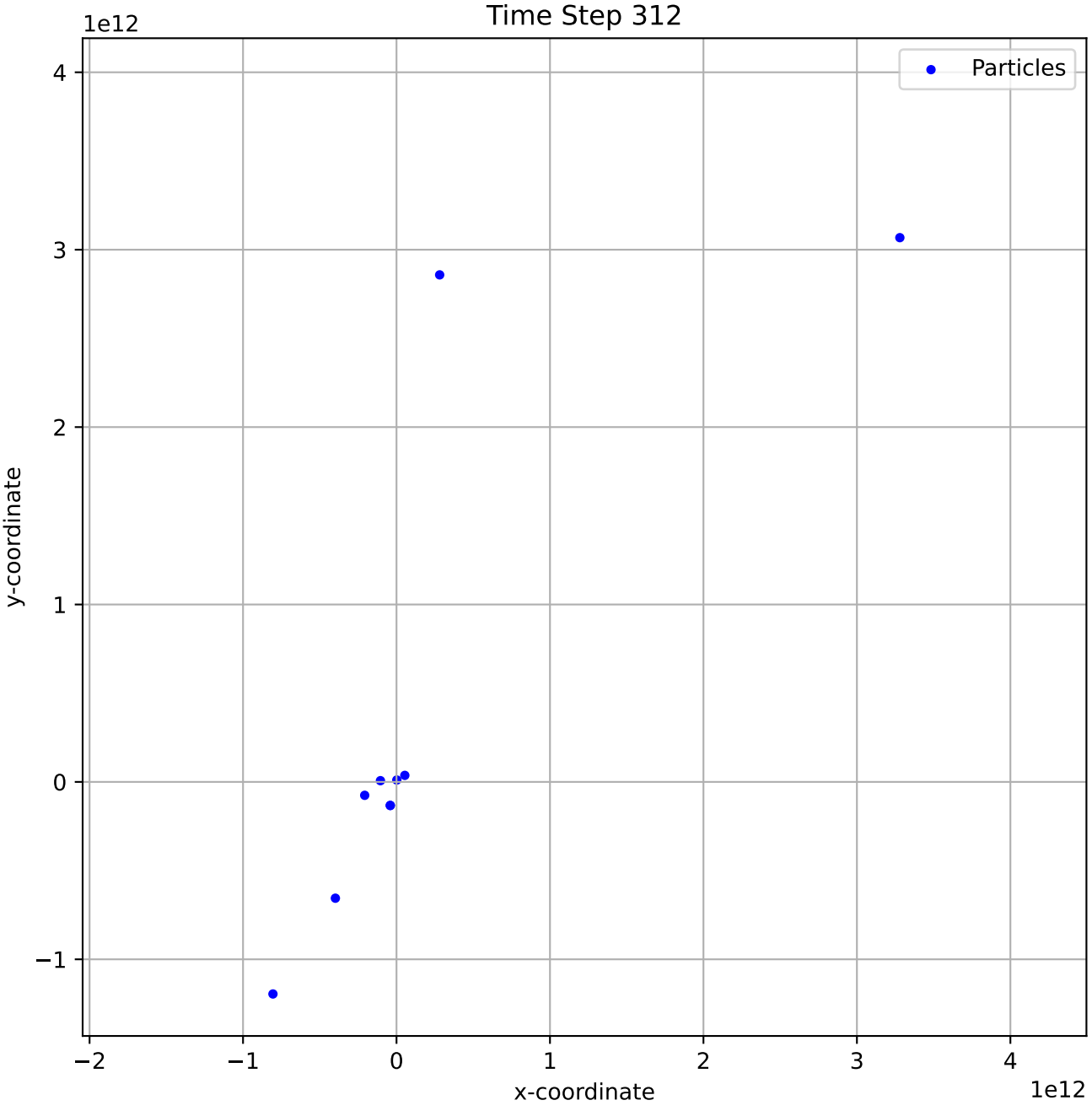

Time Step 307
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

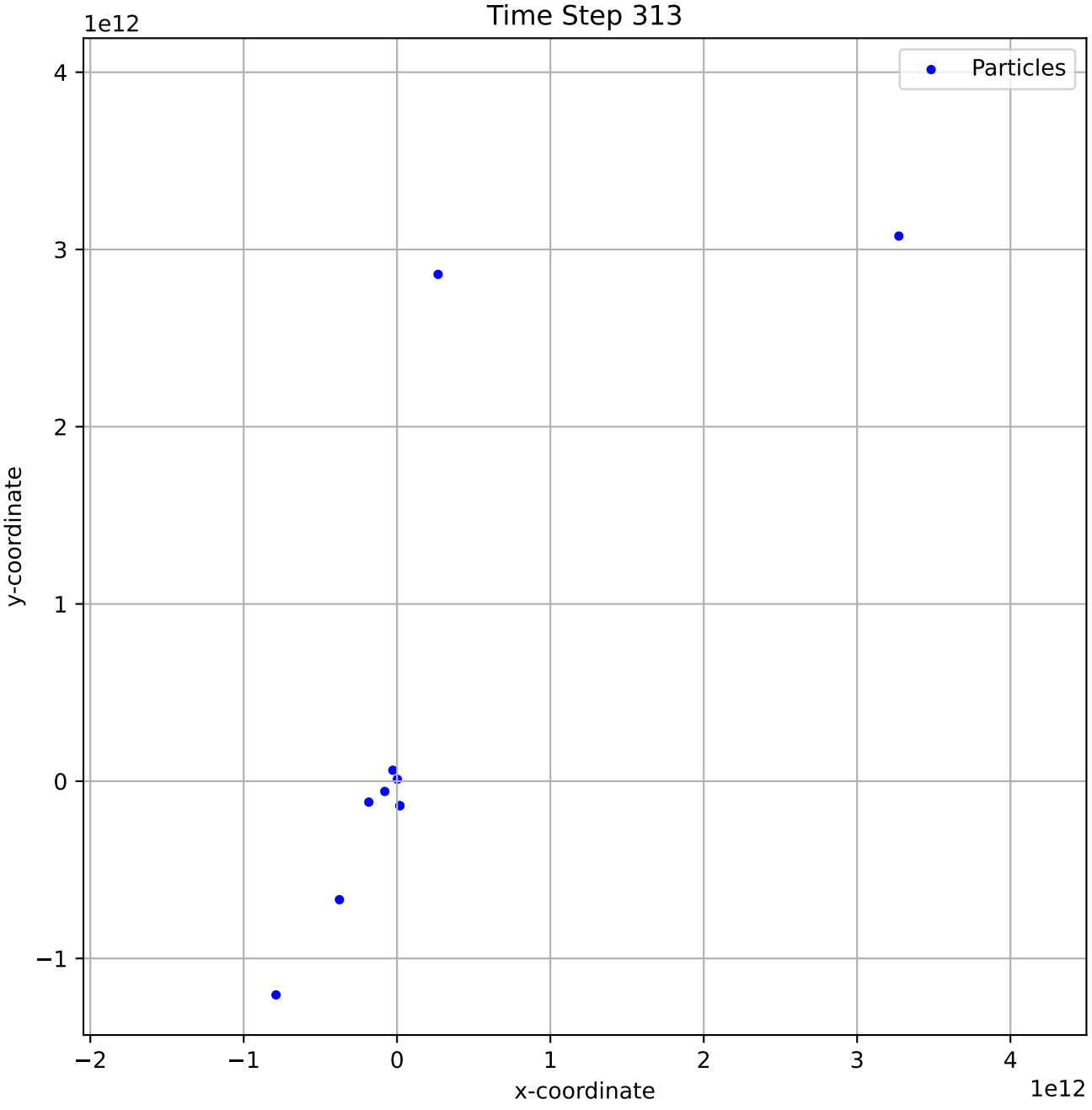

Time Step 308
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

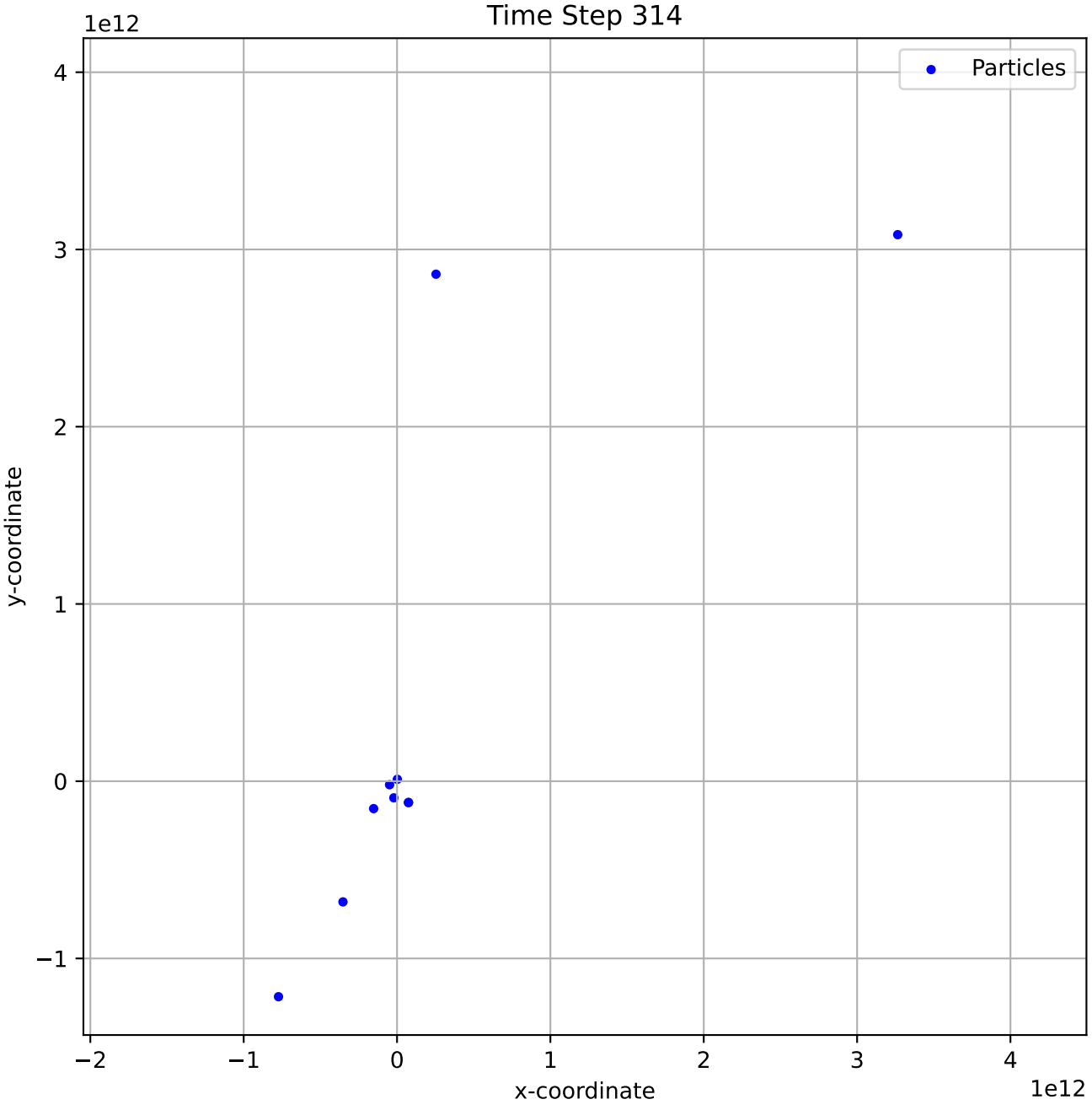

Time Step 309
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

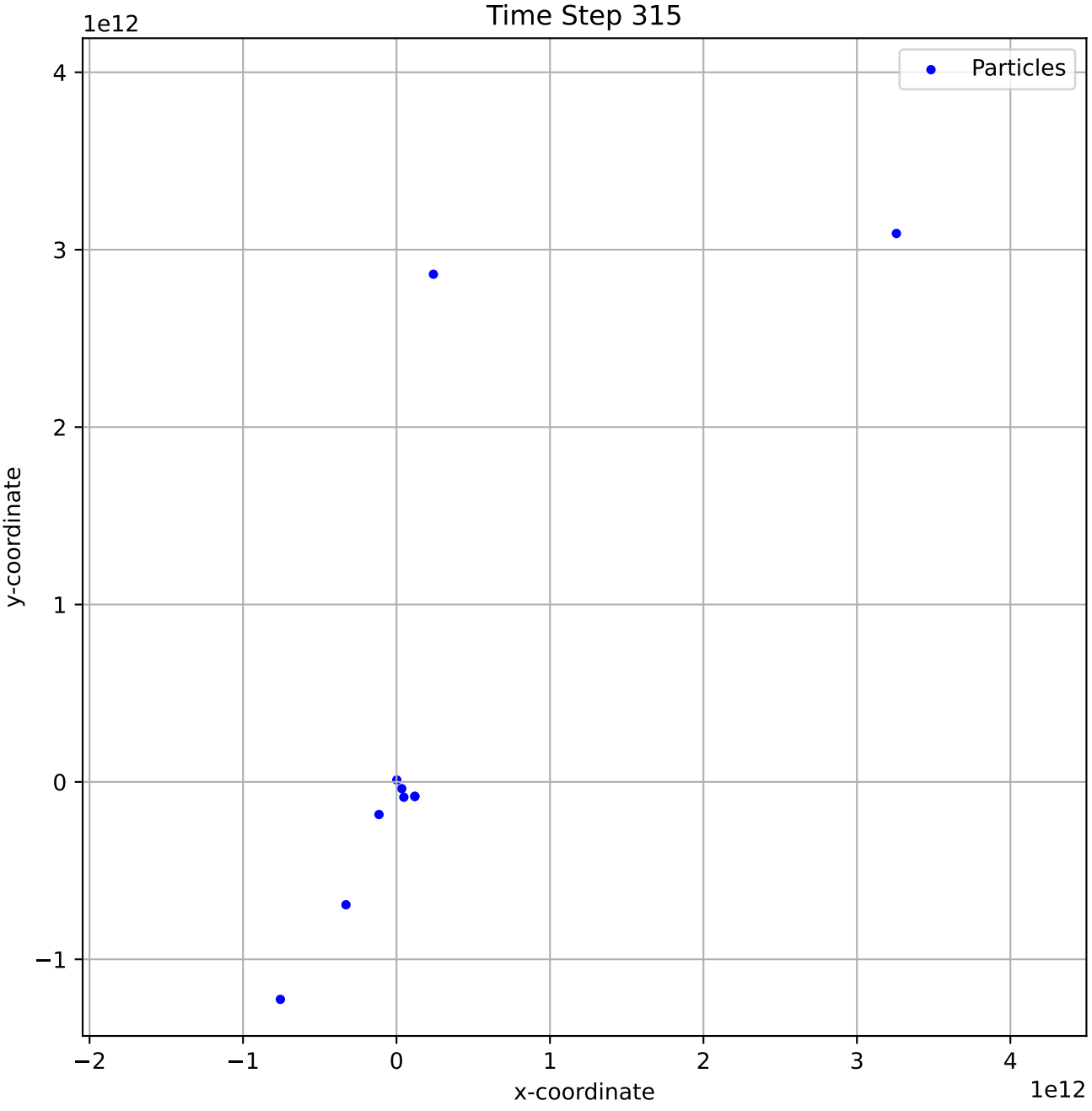

Time Step 310
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

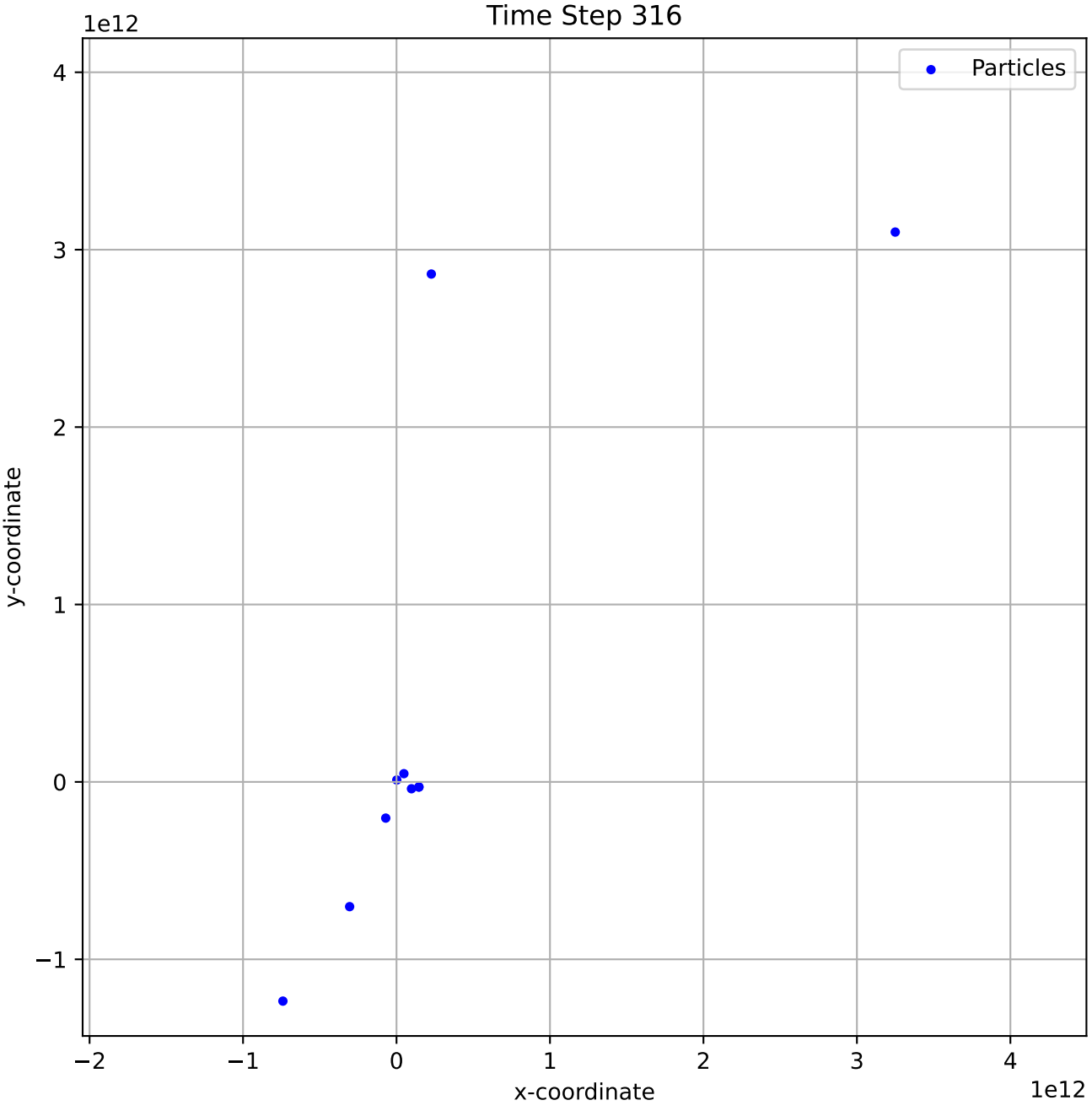

Time Step 311
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

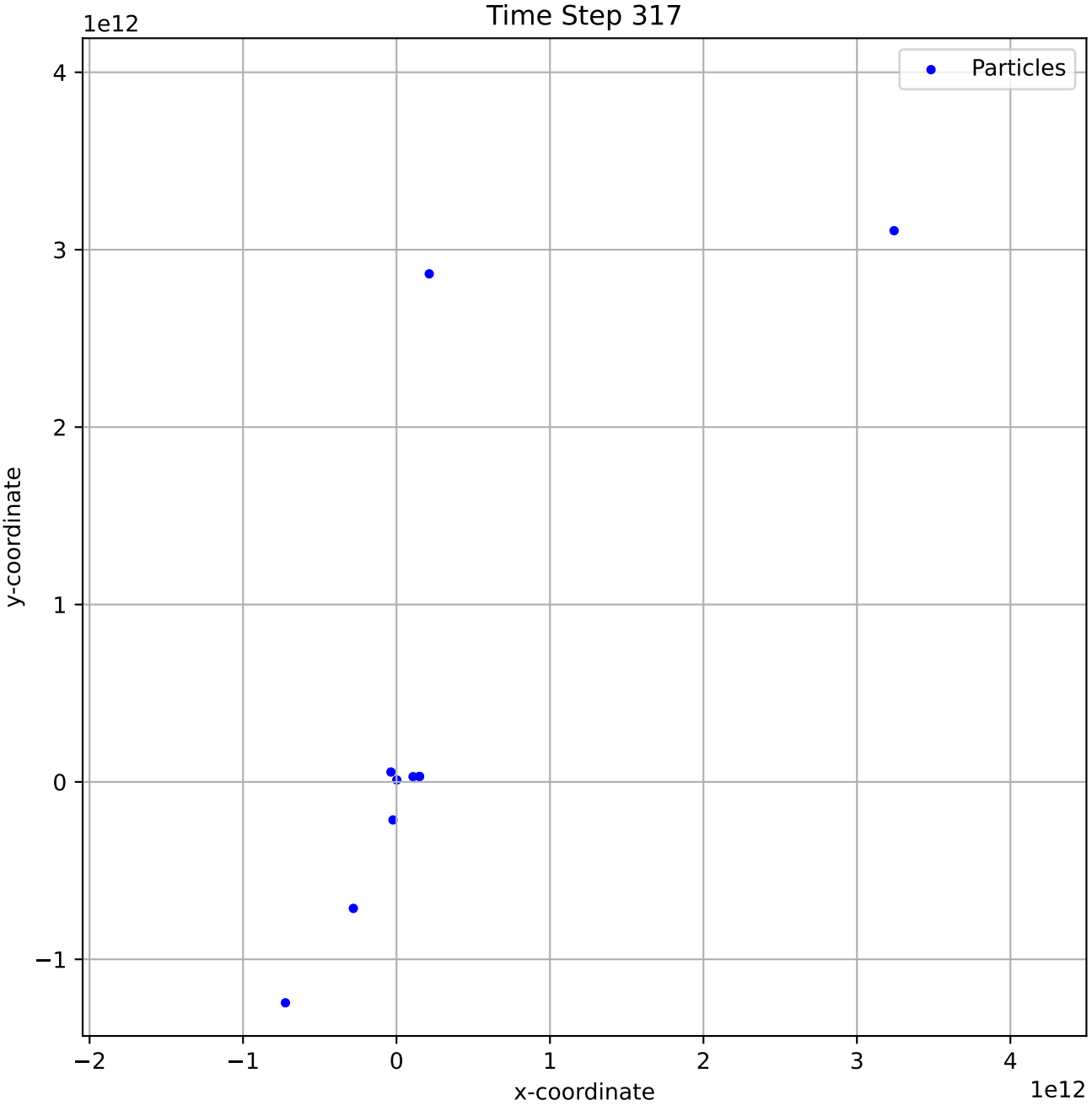

Time Step 312
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

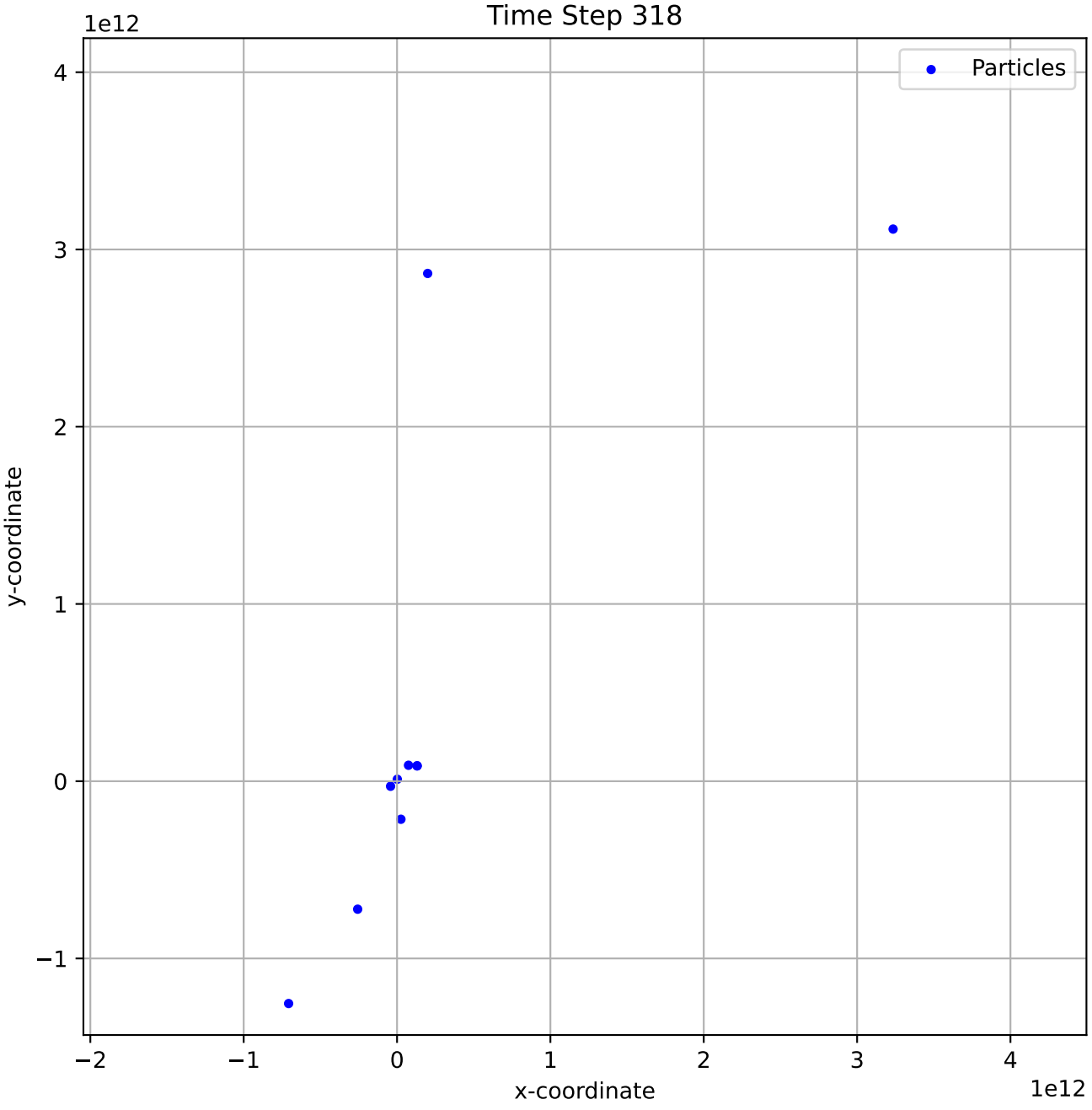

Time Step 313
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

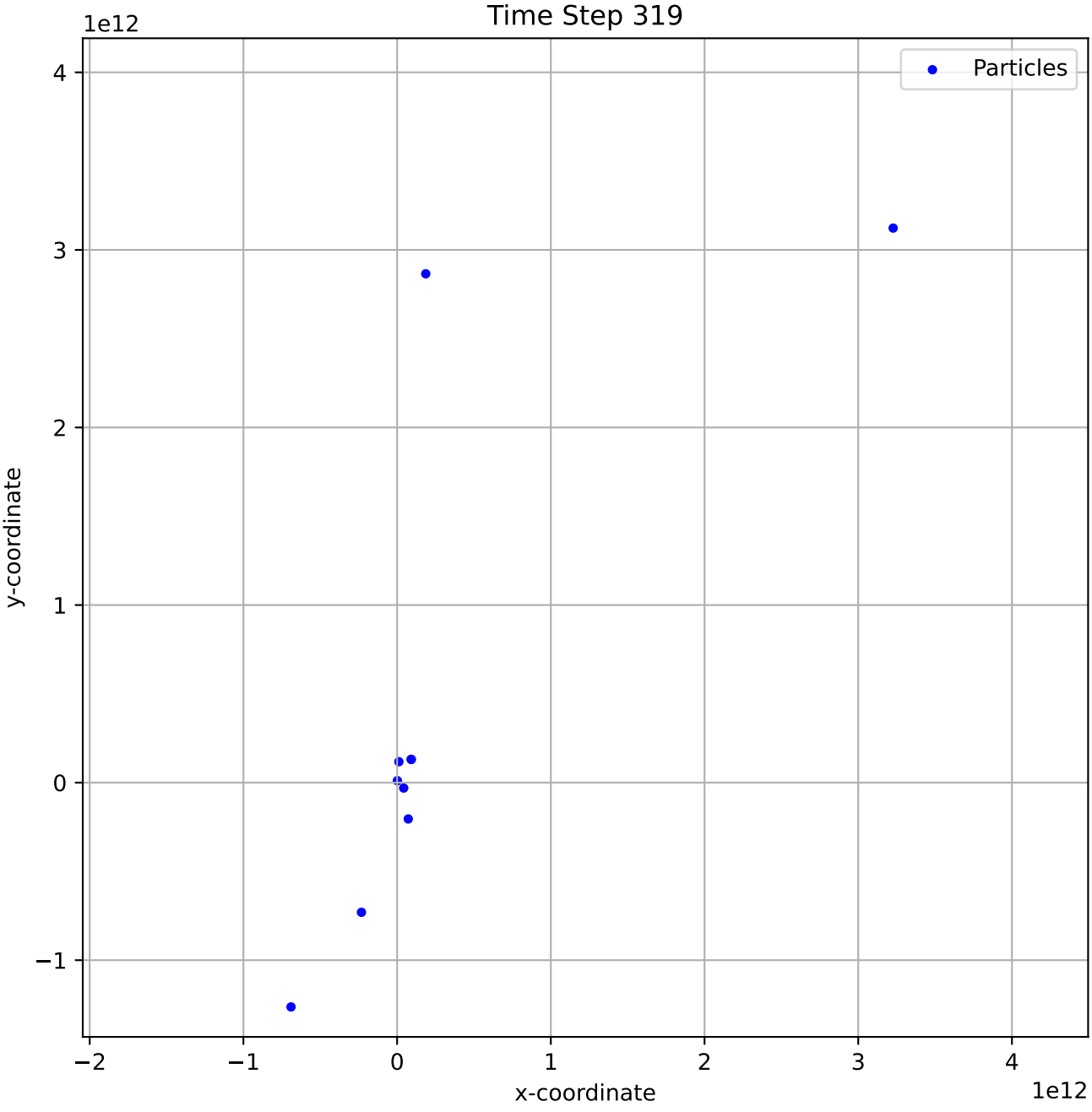

Time Step 314
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

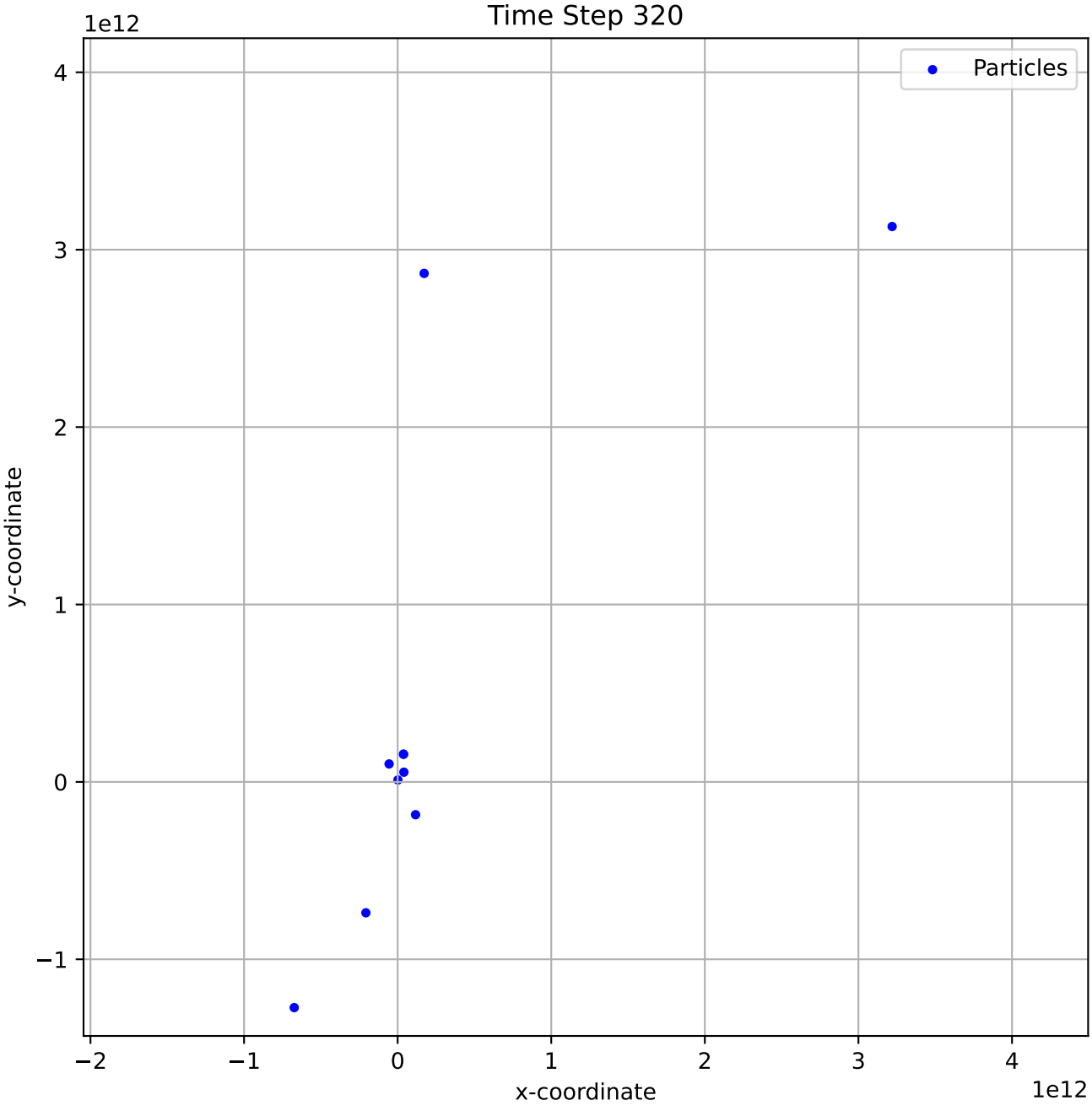

Time Step 315
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

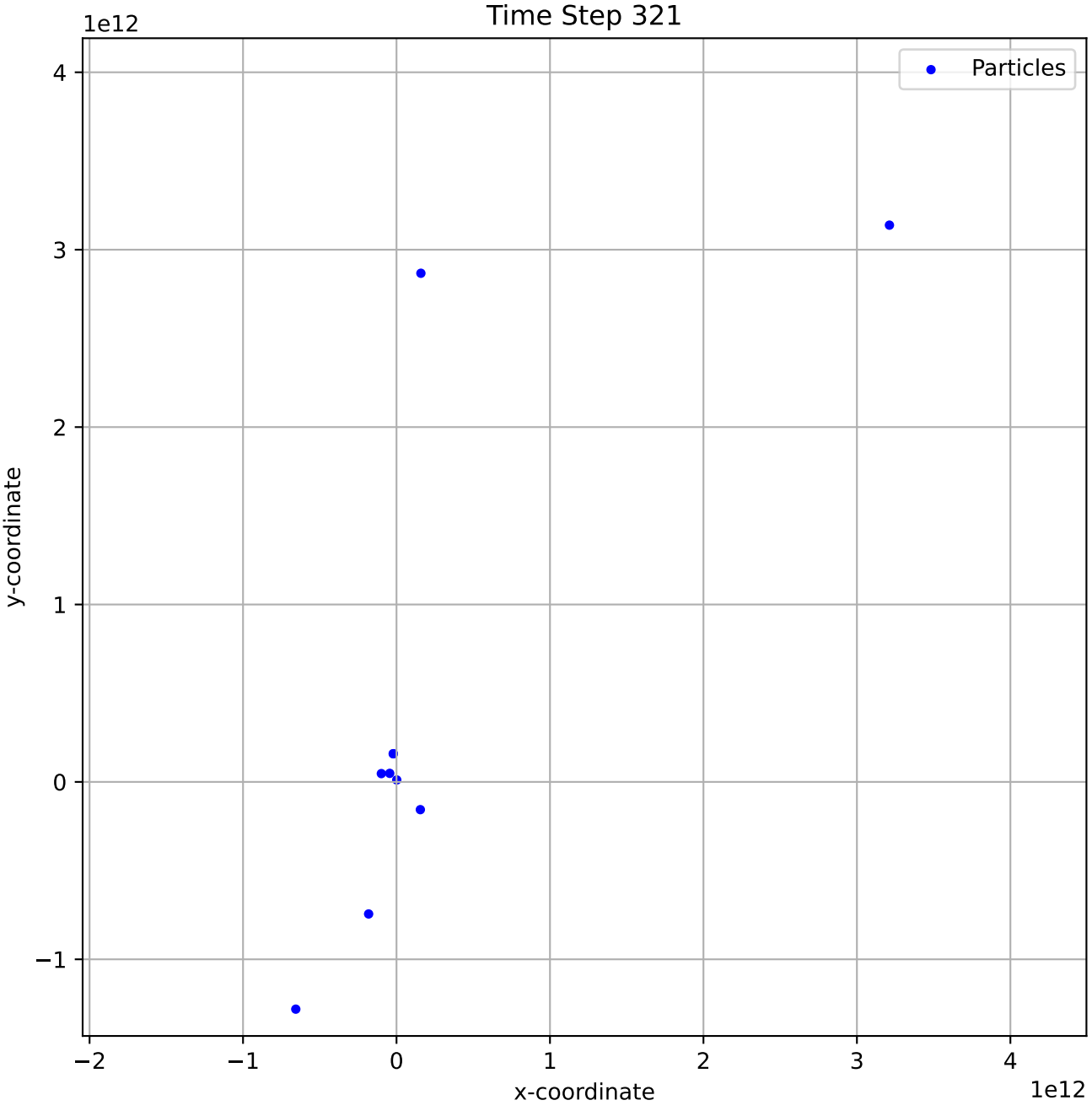

Time Step 316
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

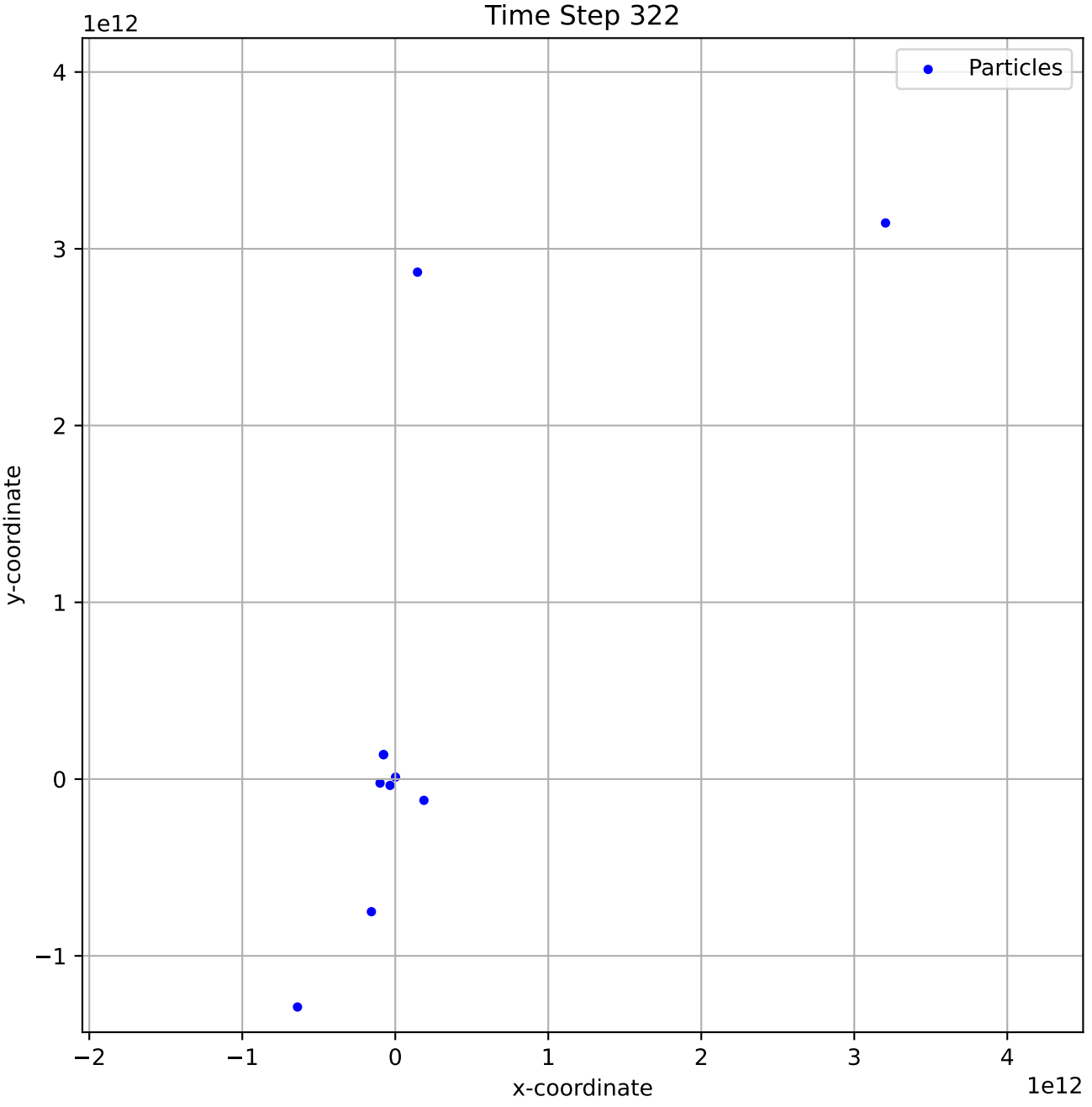

Time Step 317
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

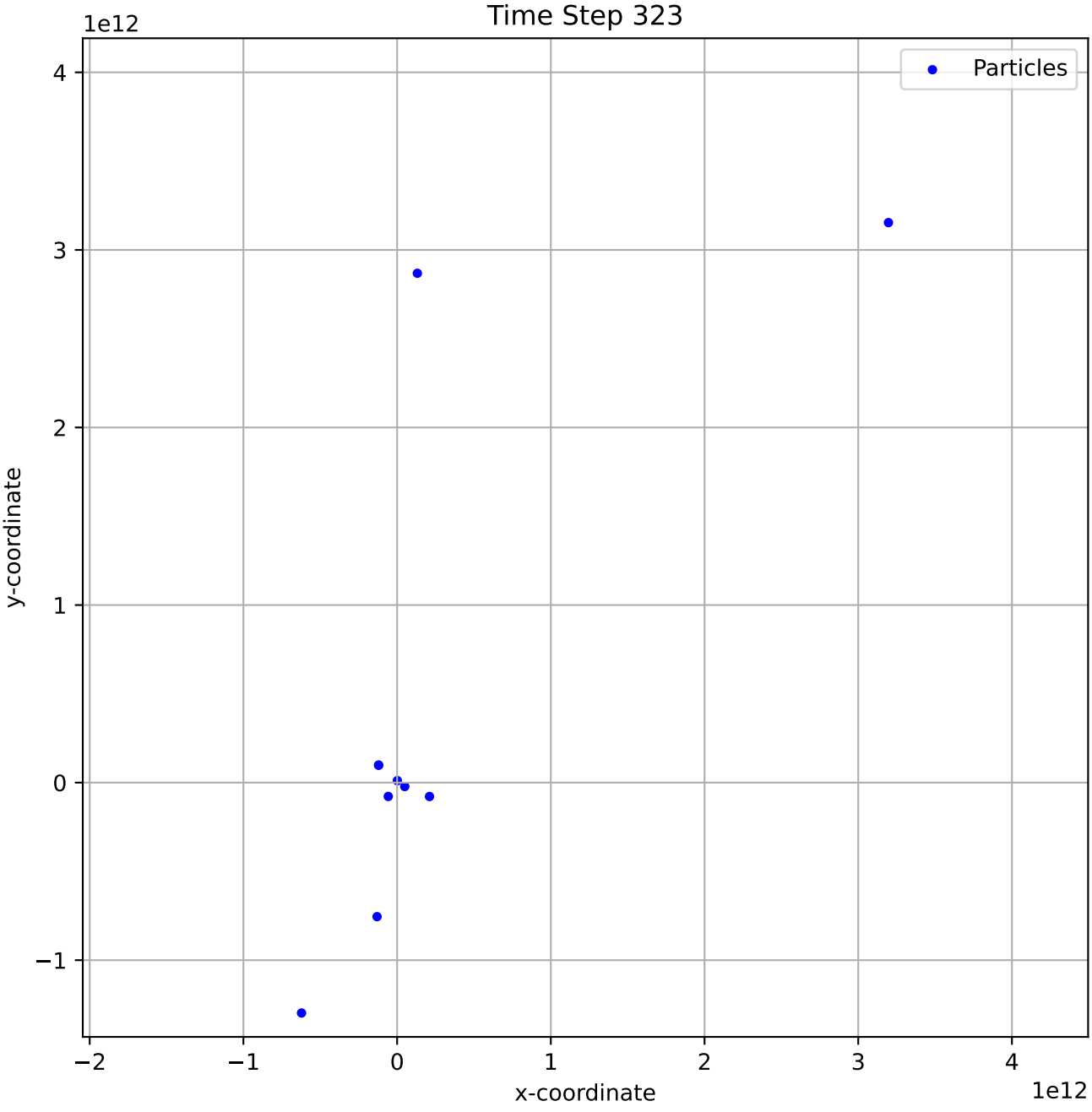

Time Step 318
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

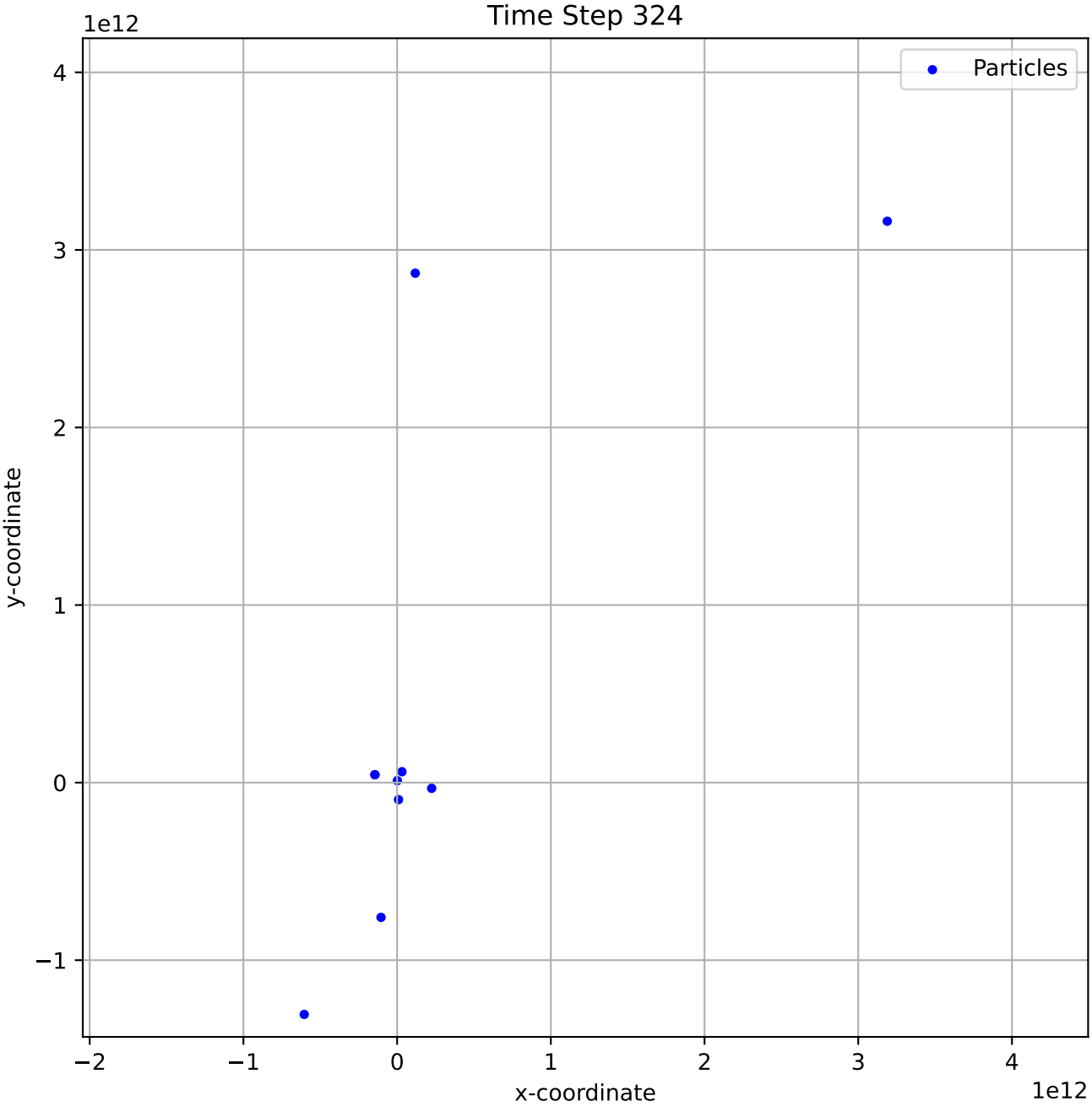

Time Step 319
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

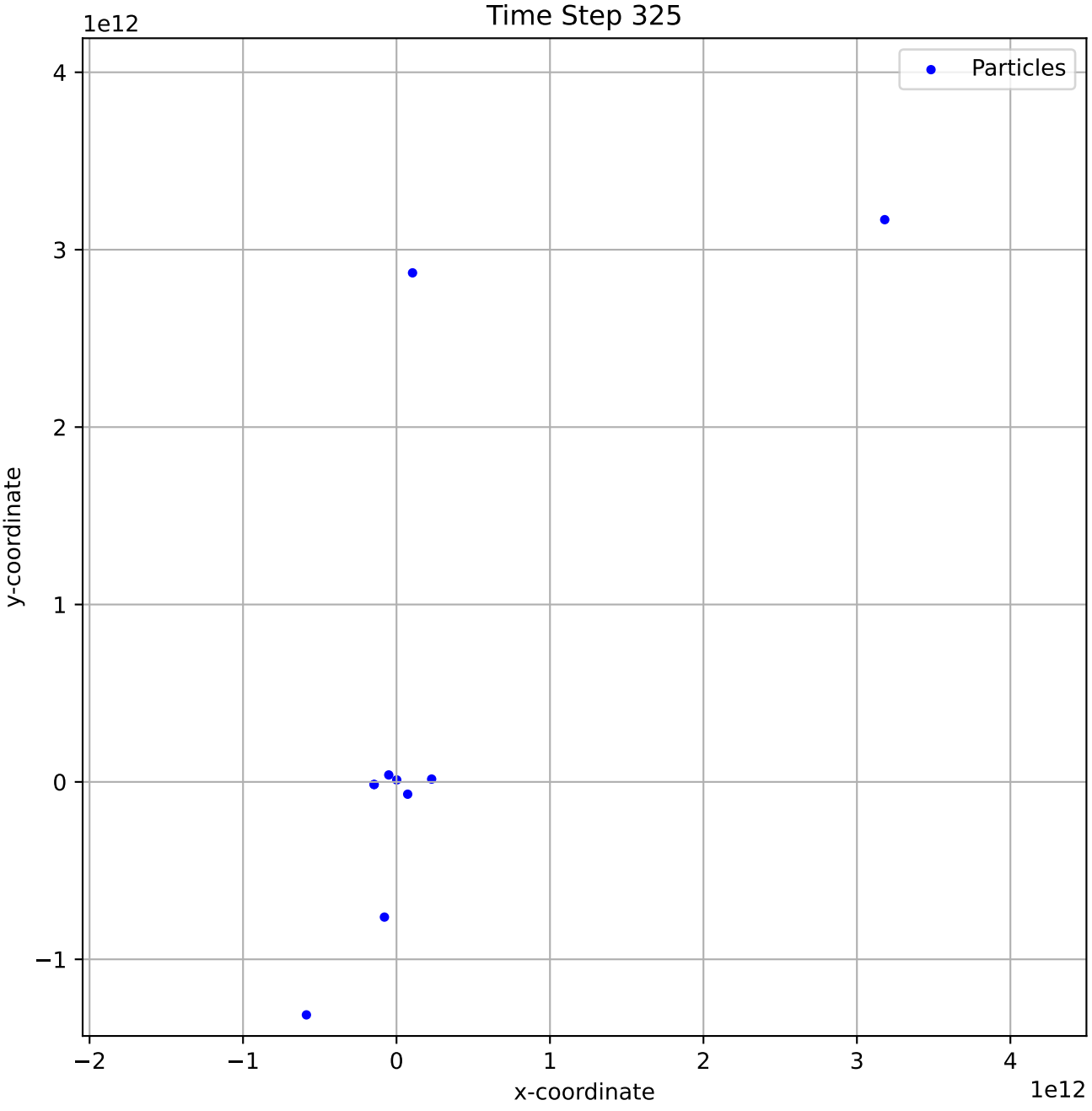

Time Step 320
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

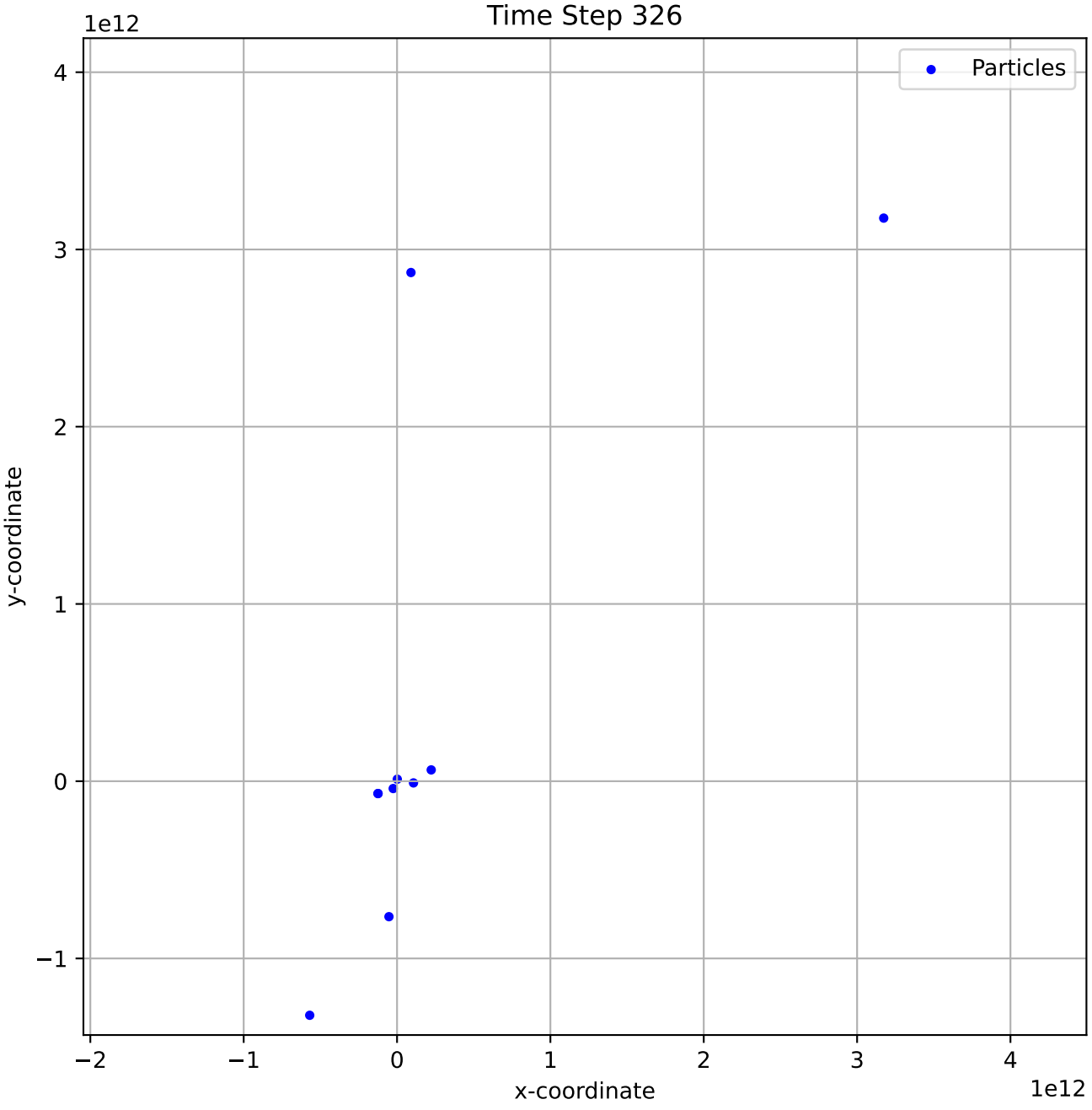

Time Step 321
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

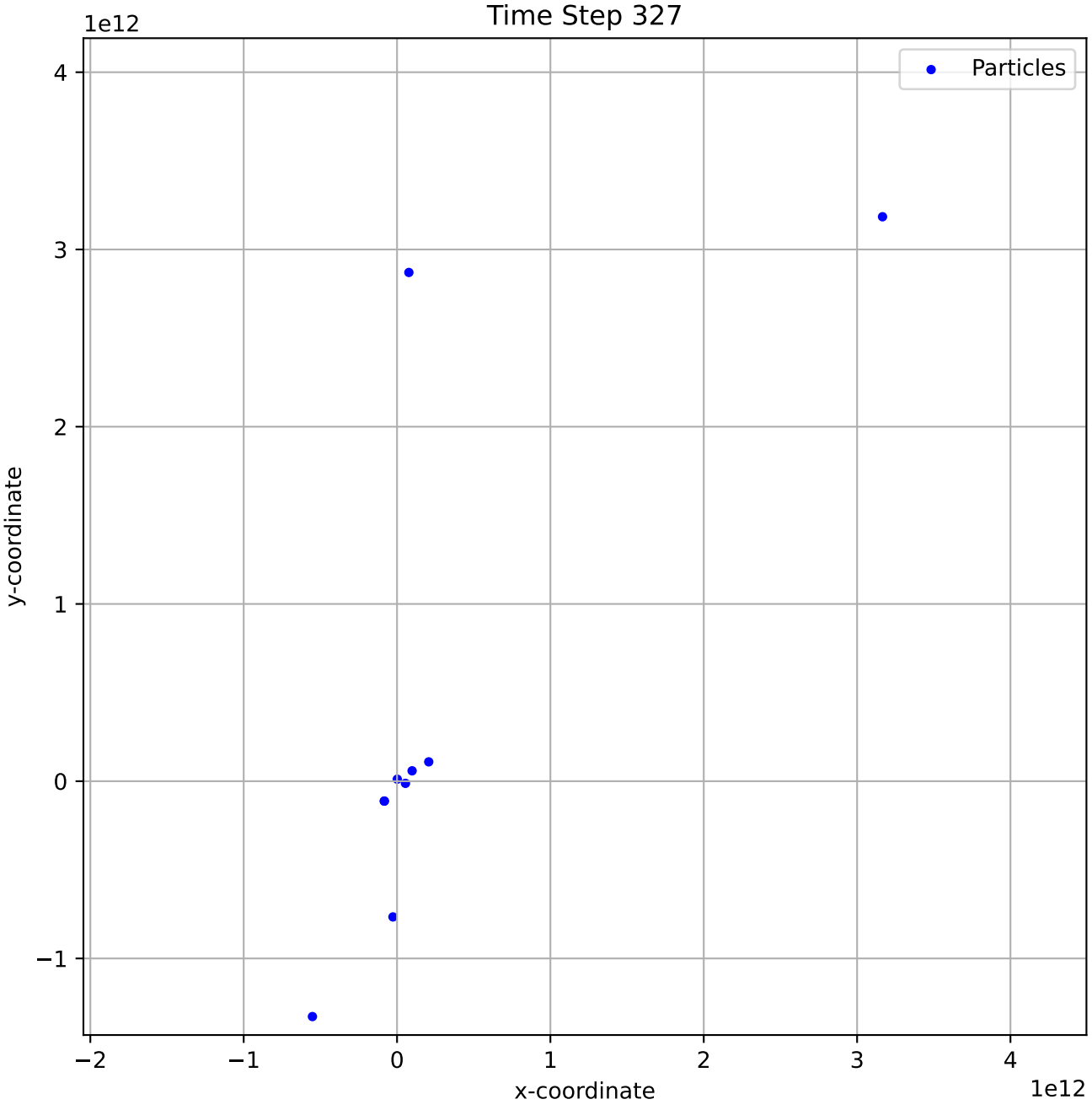

Time Step 322
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

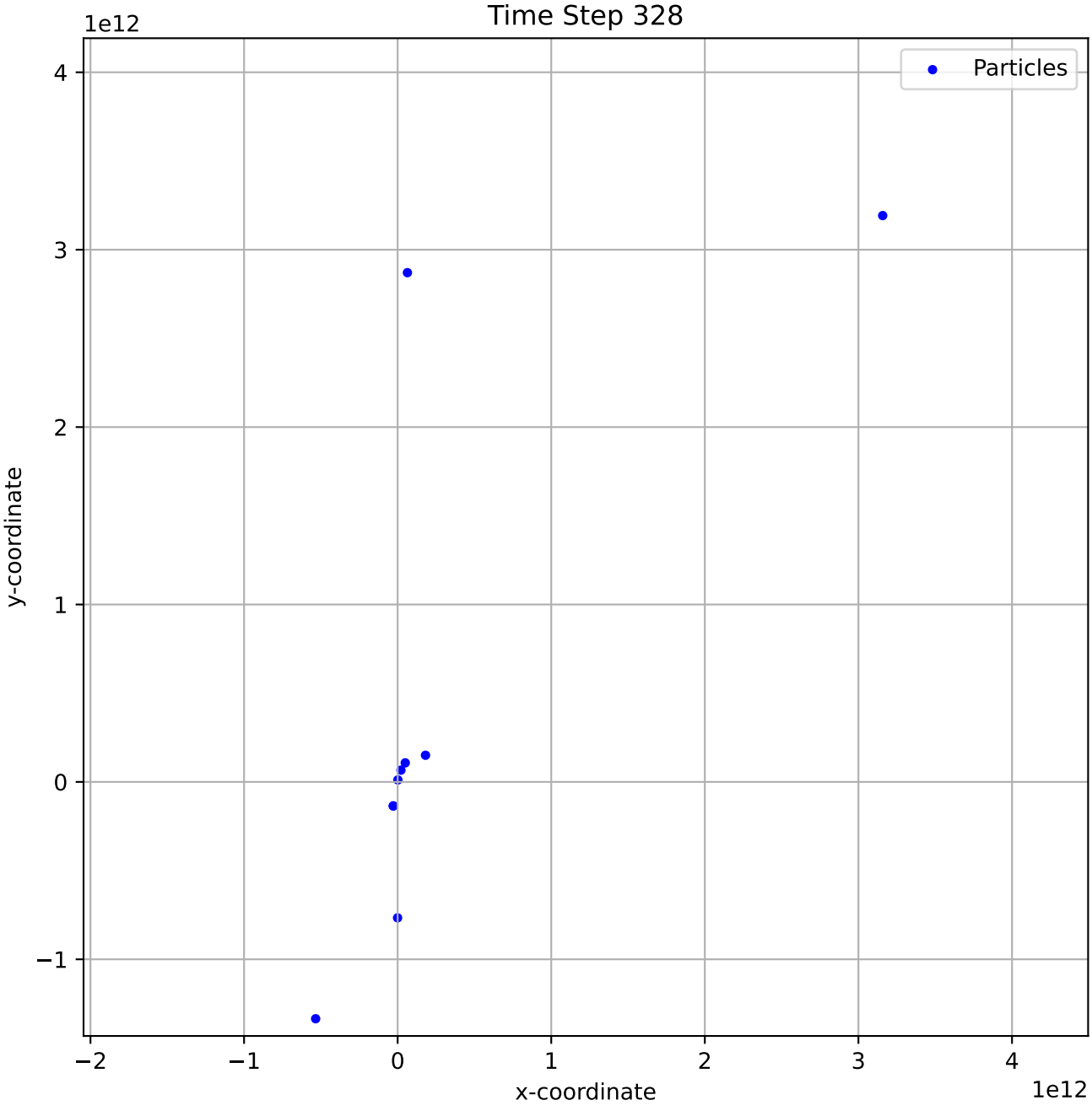

Time Step 323
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

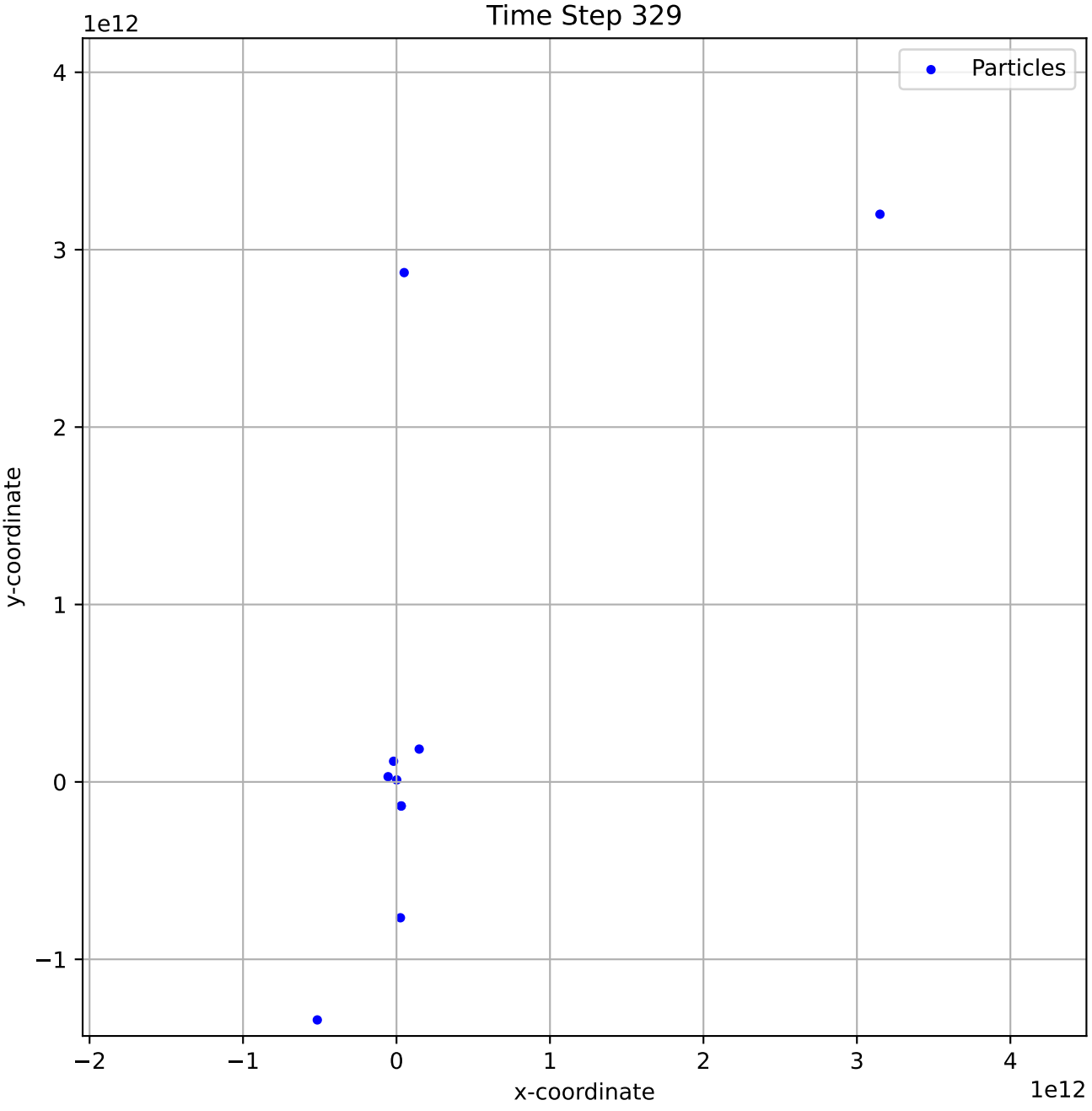

Time Step 324
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

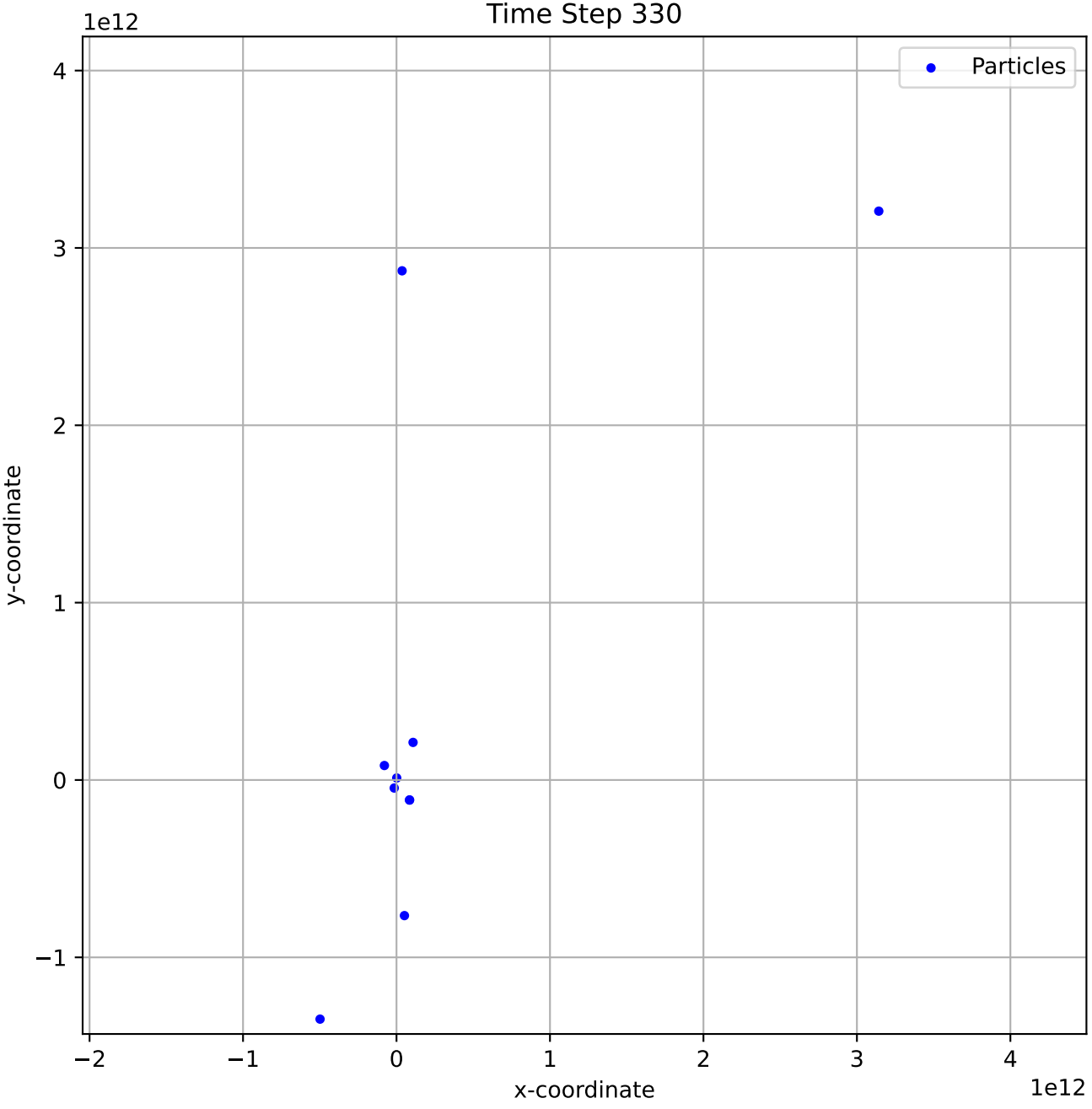

Time Step 325
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

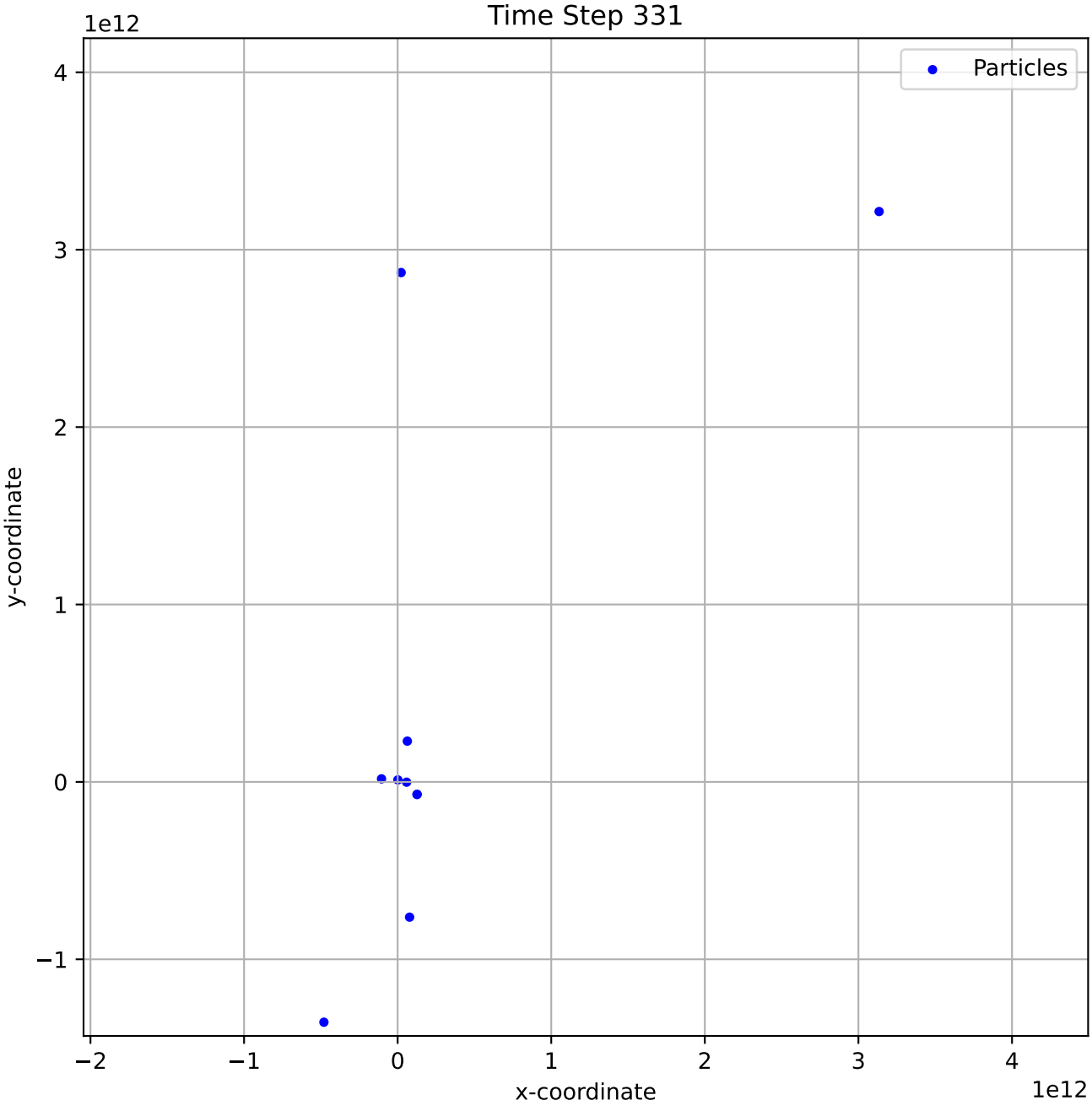

Time Step 326
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

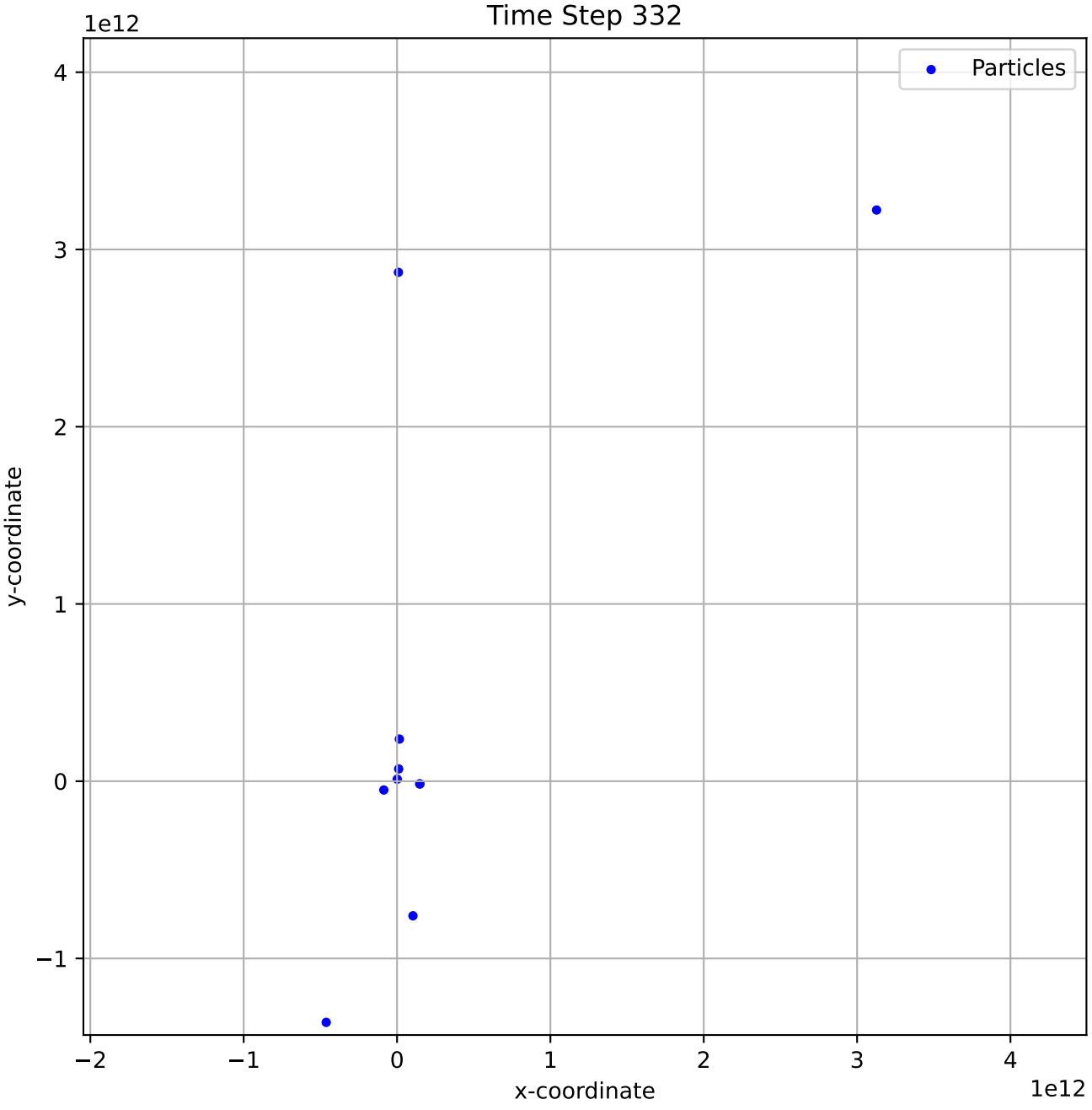

Time Step 327
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

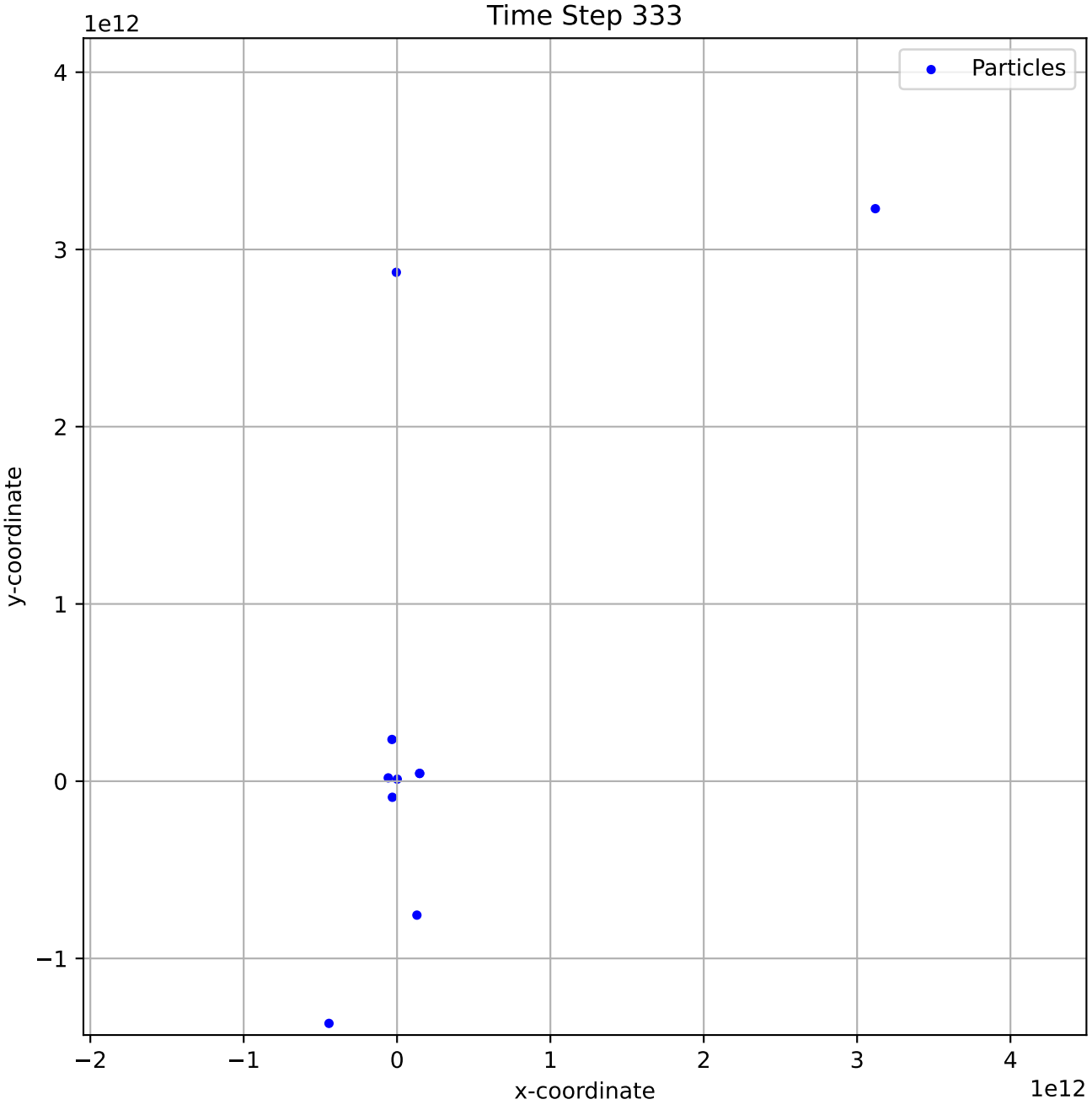

Time Step 328
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

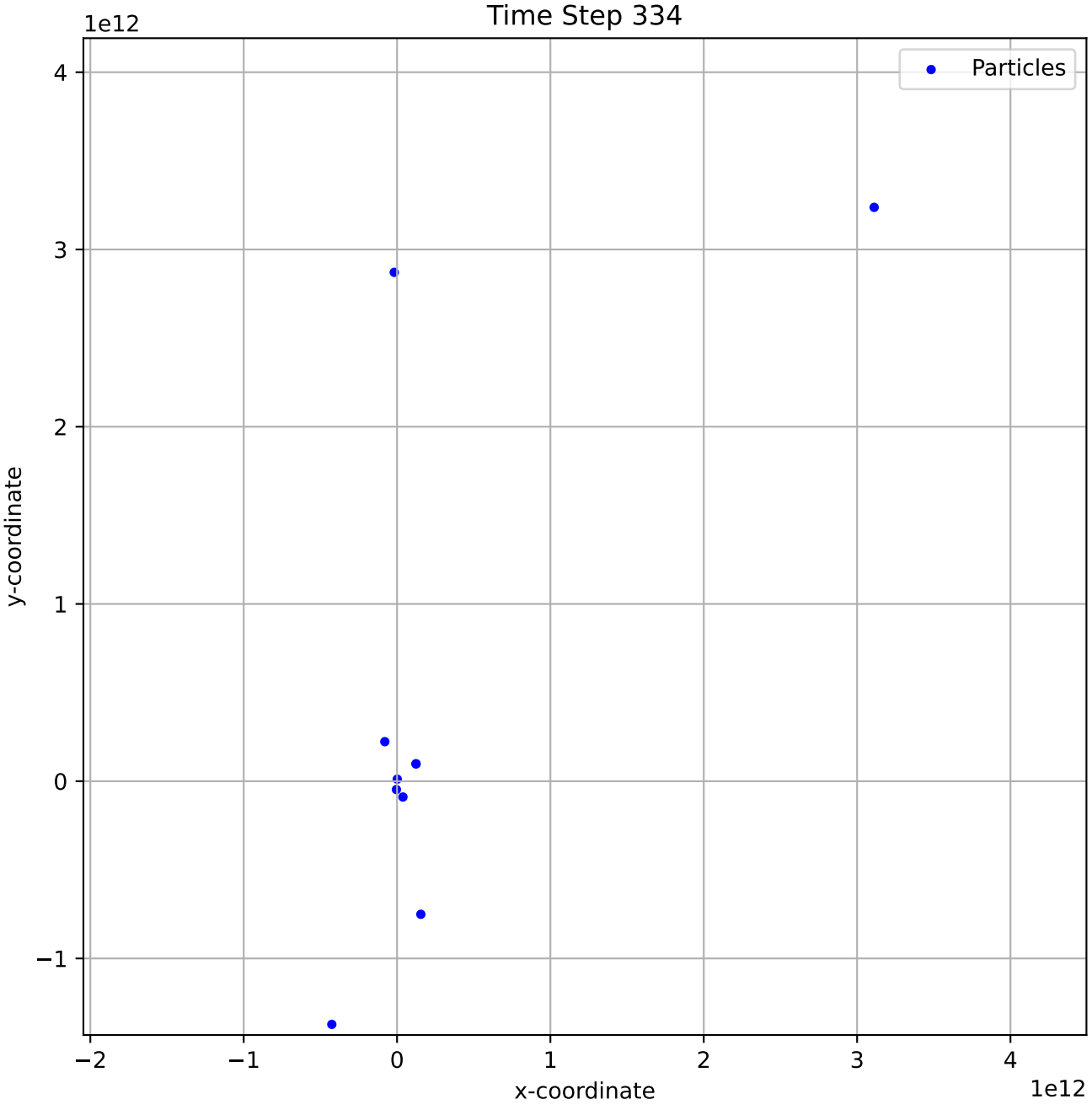

Time Step 329
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

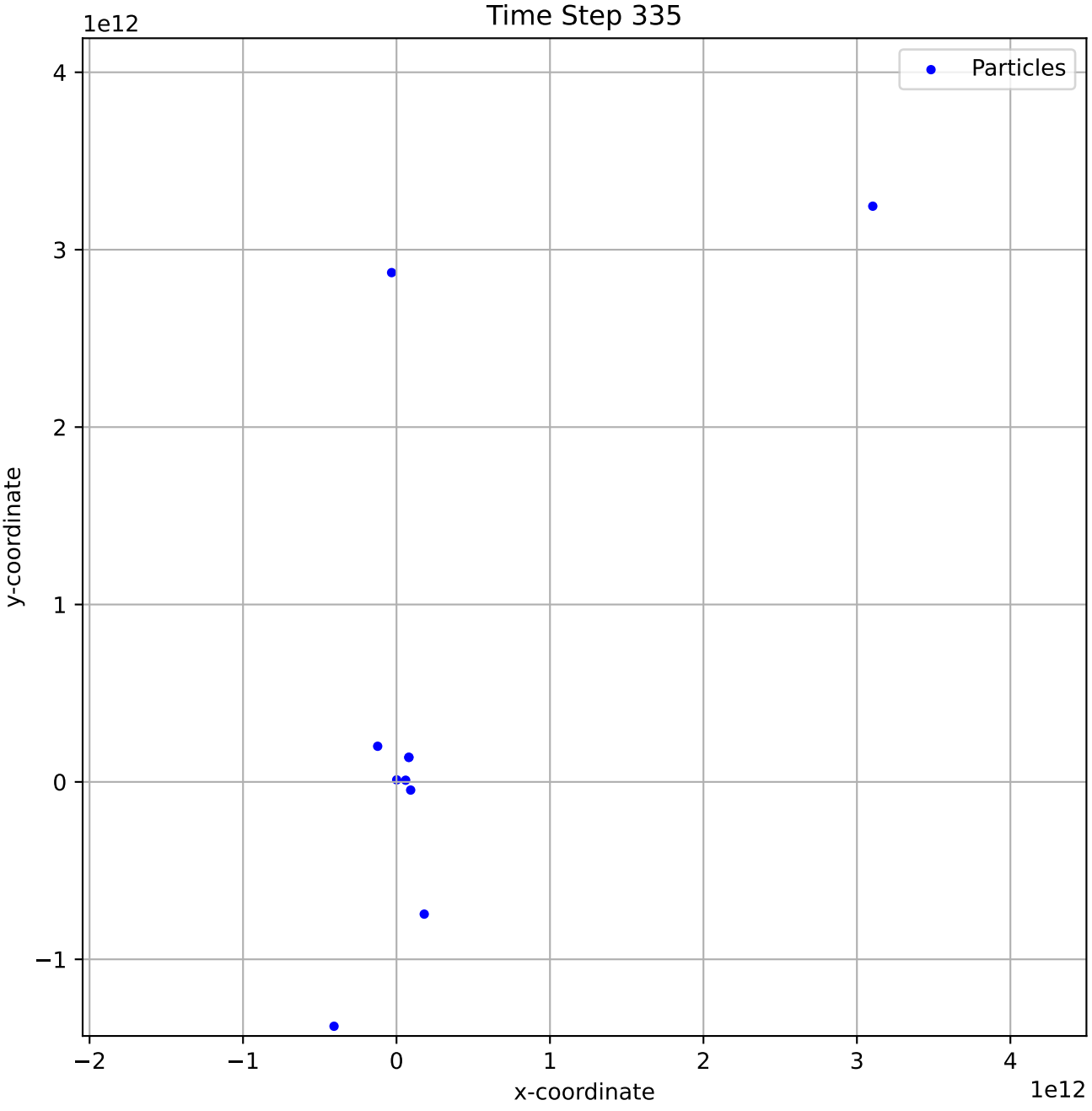

Time Step 330
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

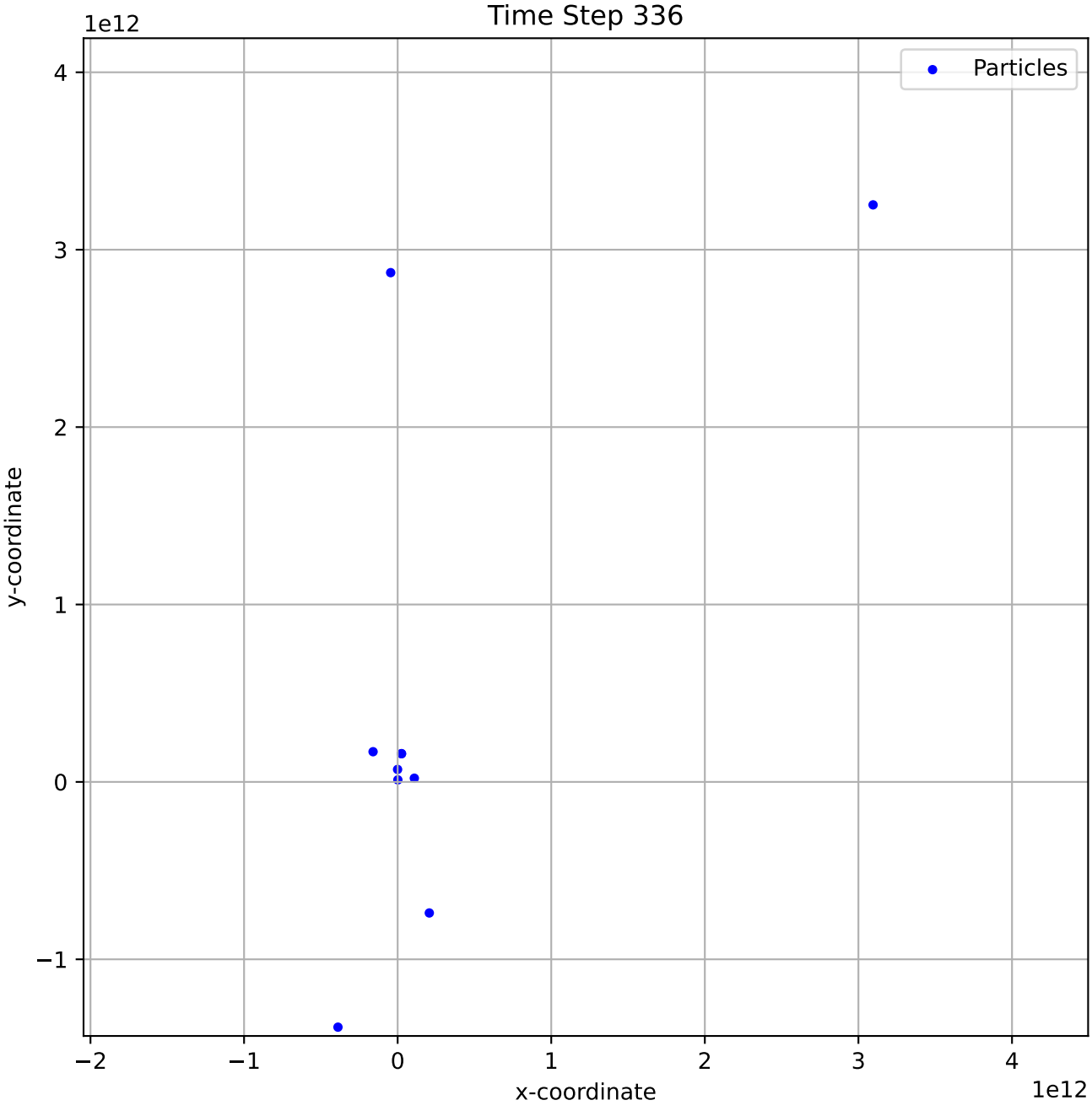

Time Step 331
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

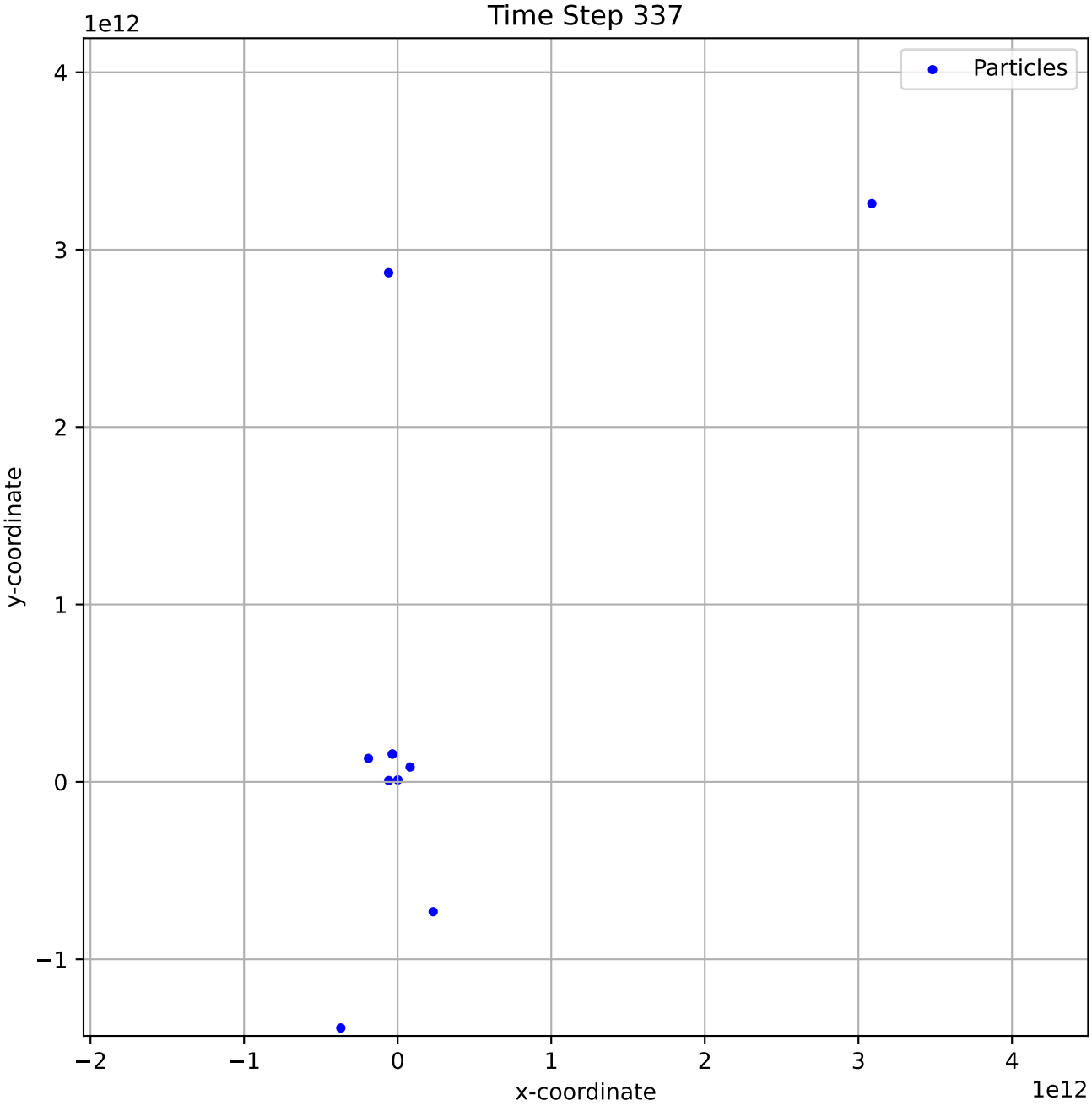

Time Step 332
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

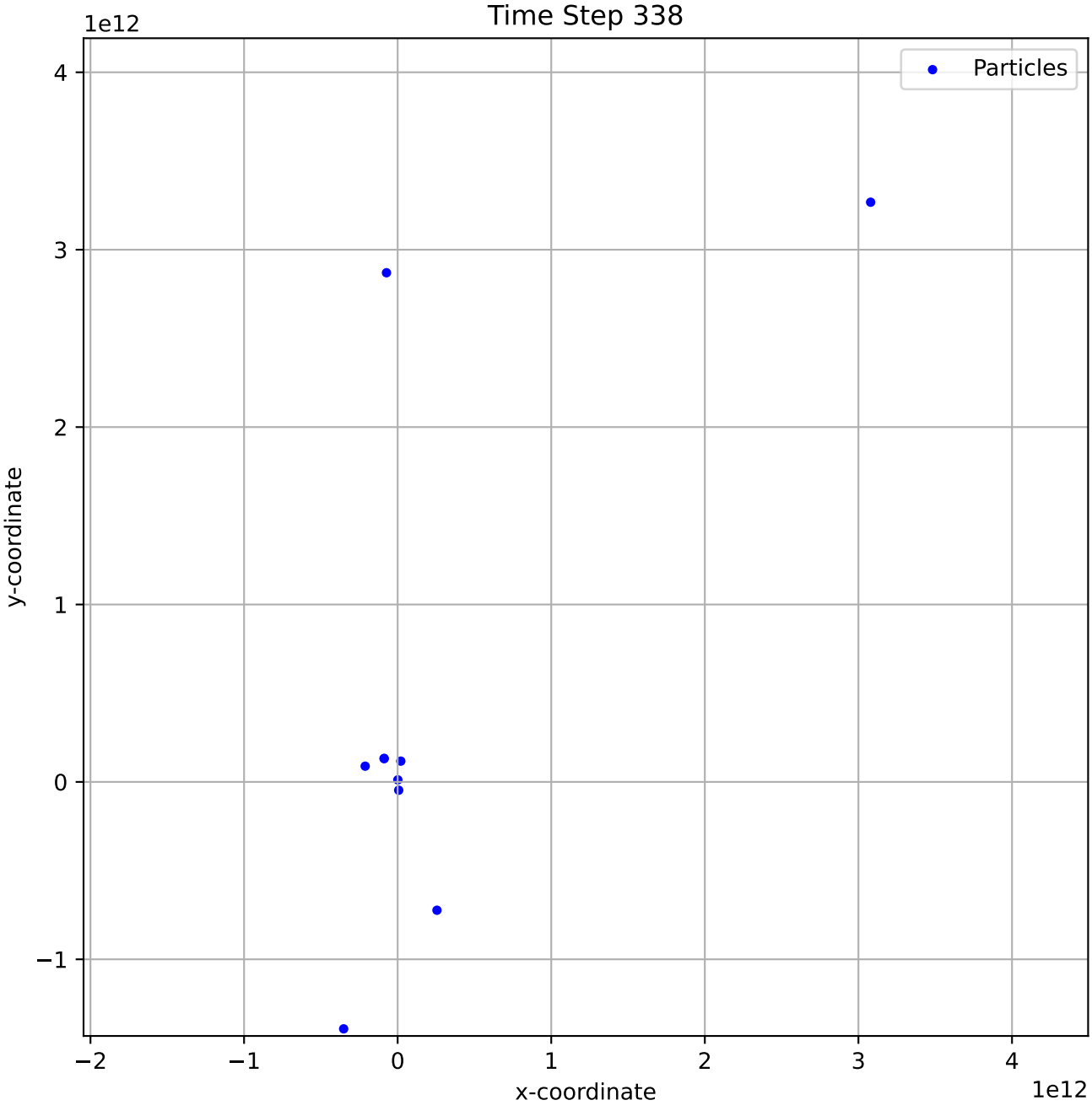

Time Step 333
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

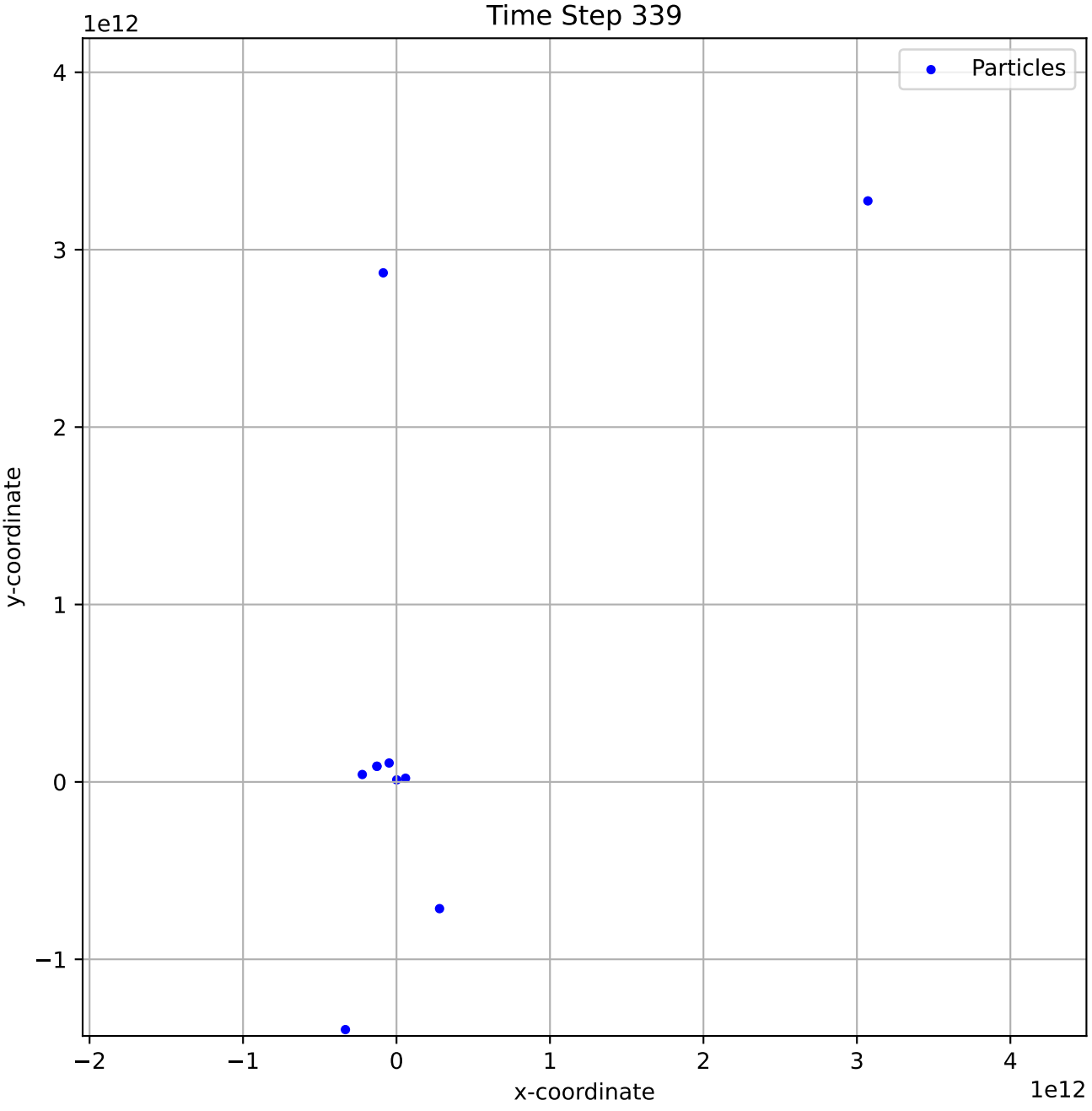

Time Step 334
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

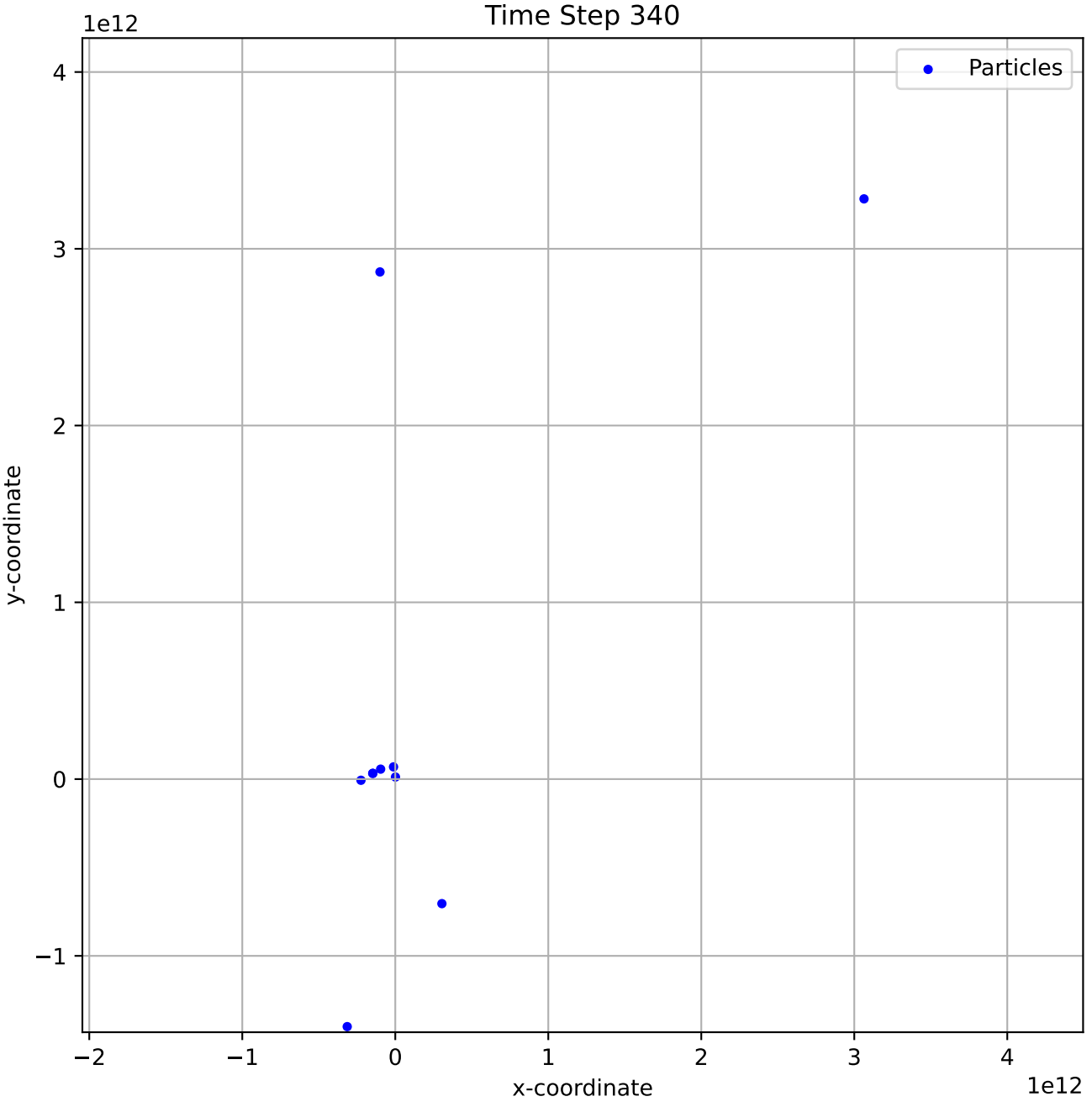

Time Step 335
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

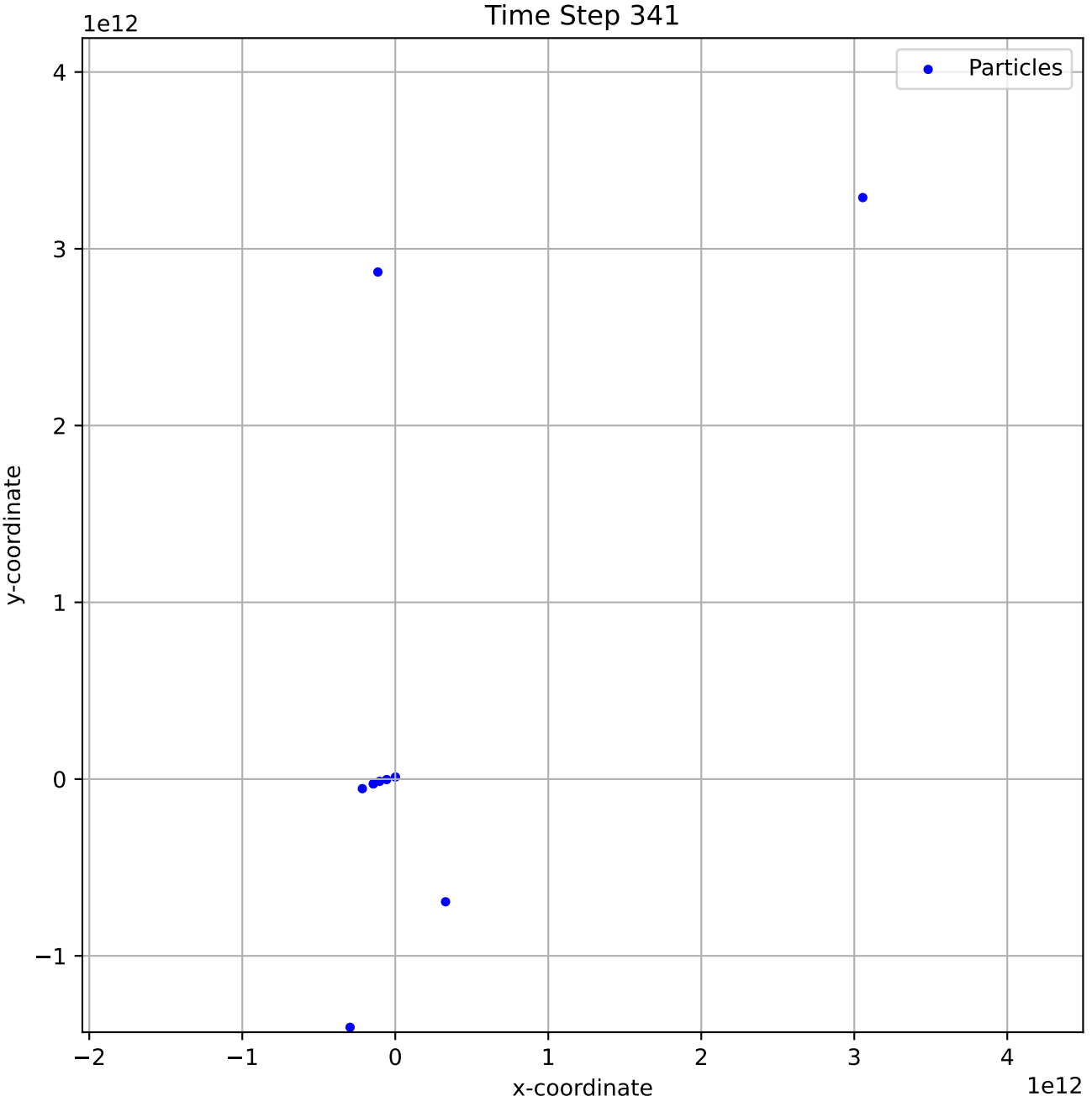

Time Step 336
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

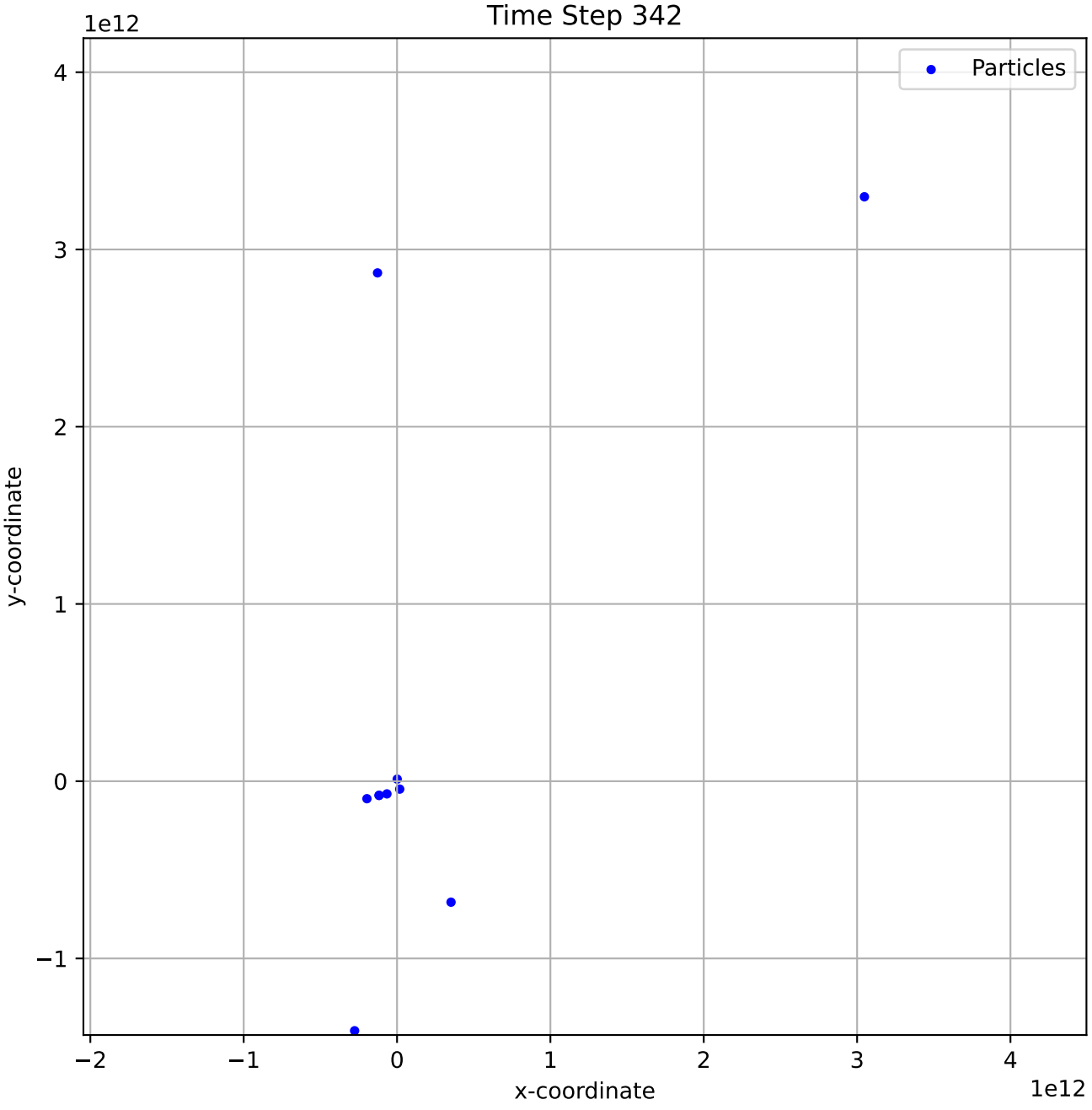

Time Step 337
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

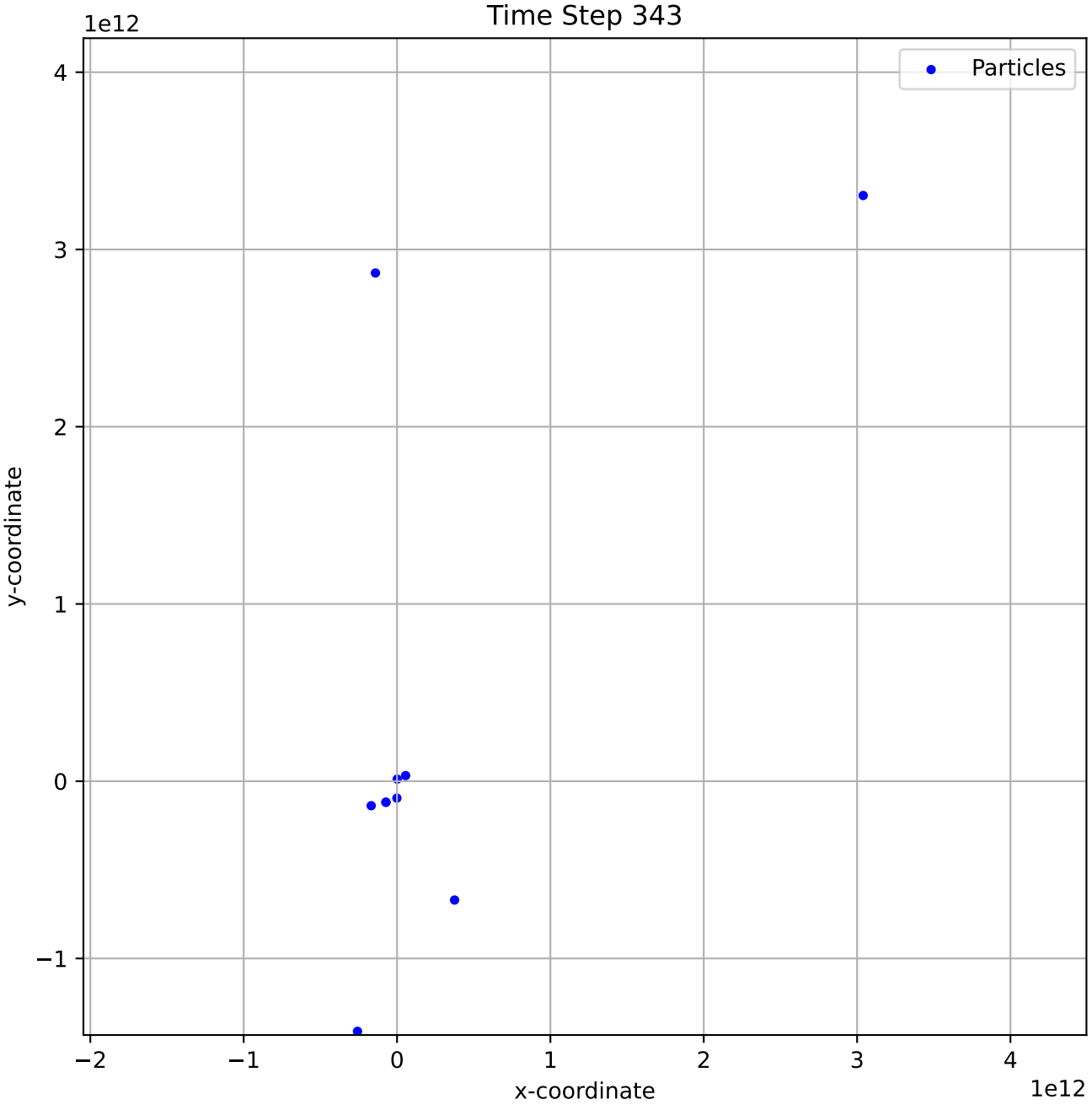

Time Step 338
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

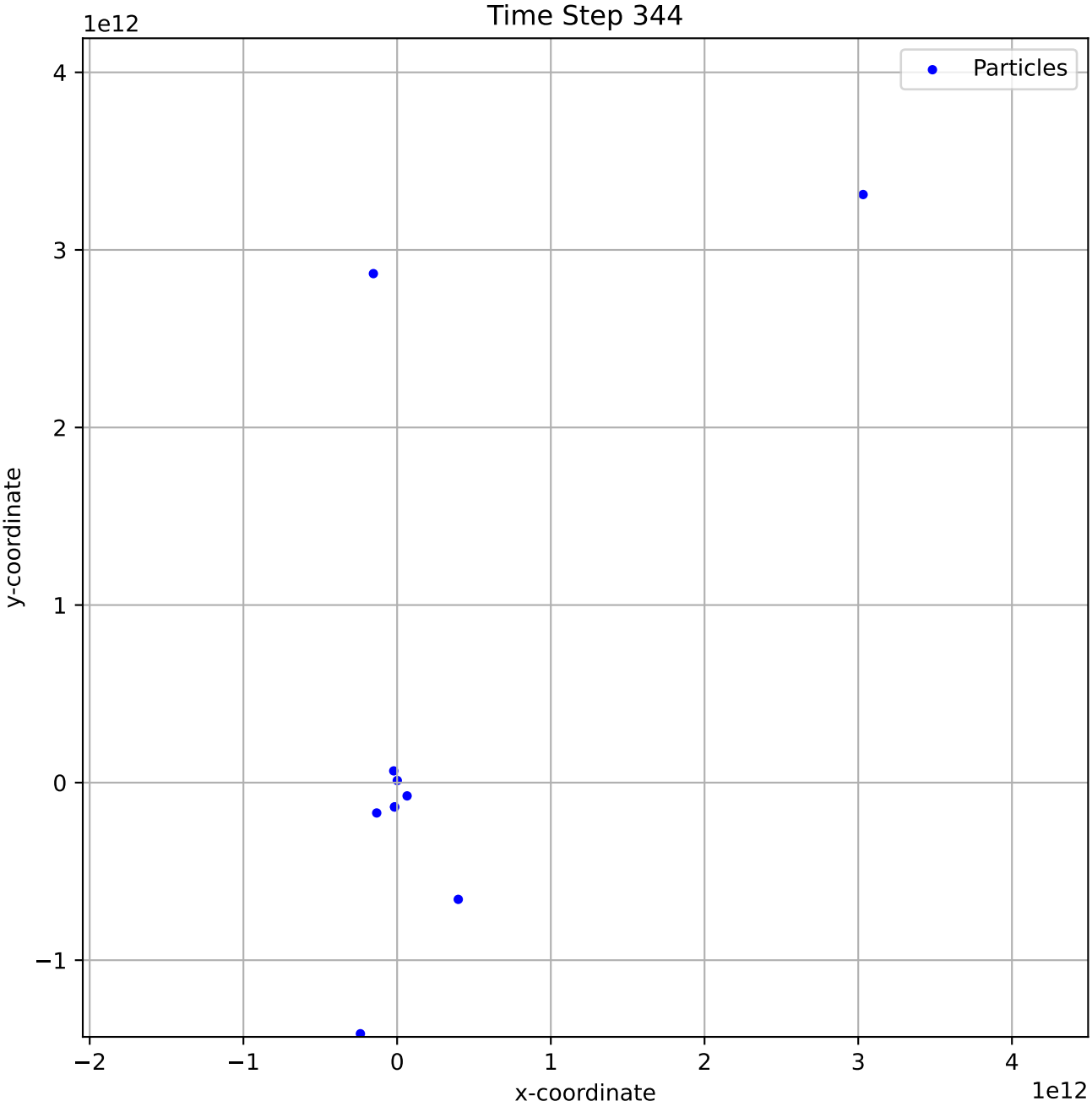

Time Step 339
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

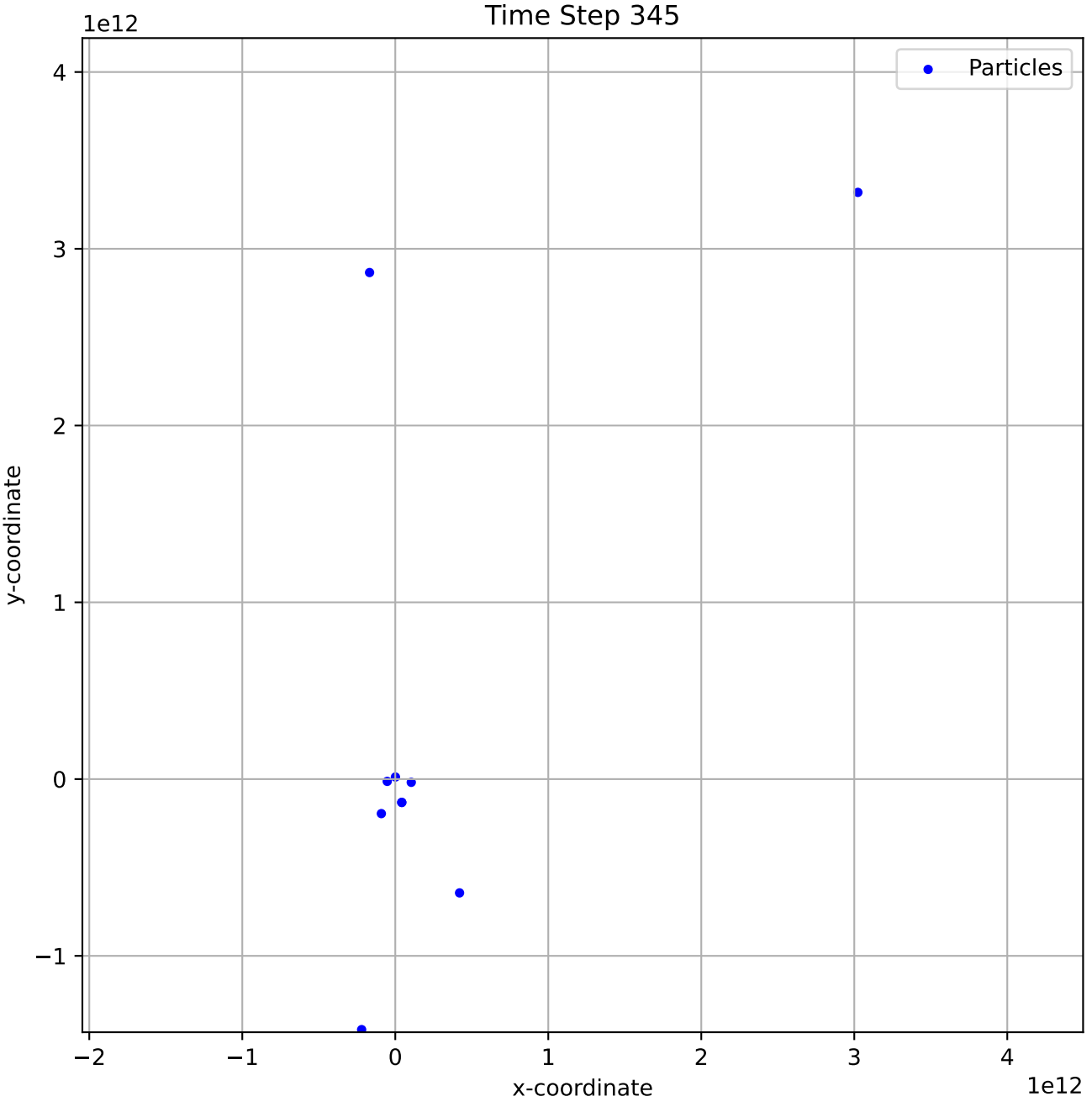

Time Step 340
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

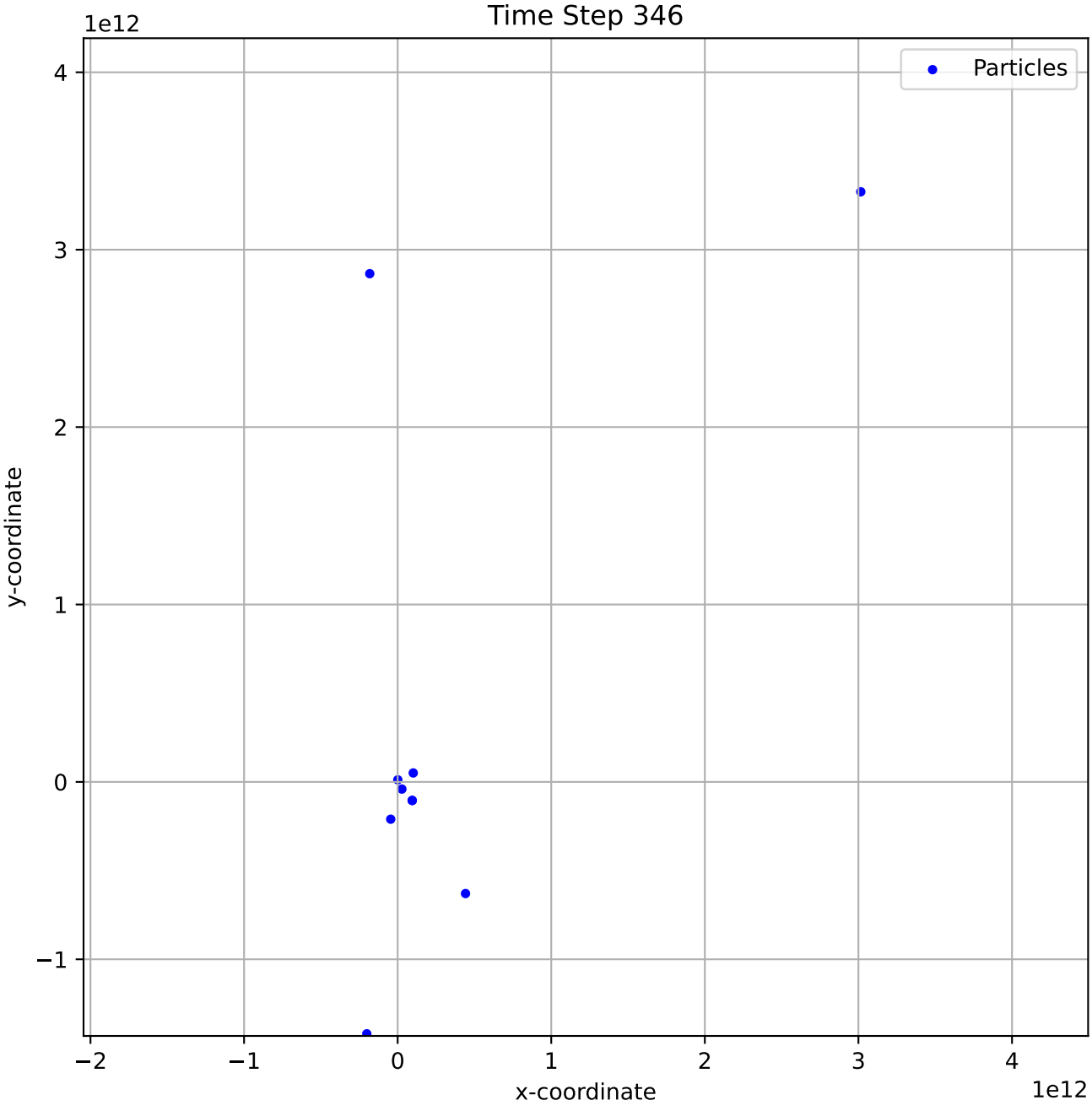

Time Step 341
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

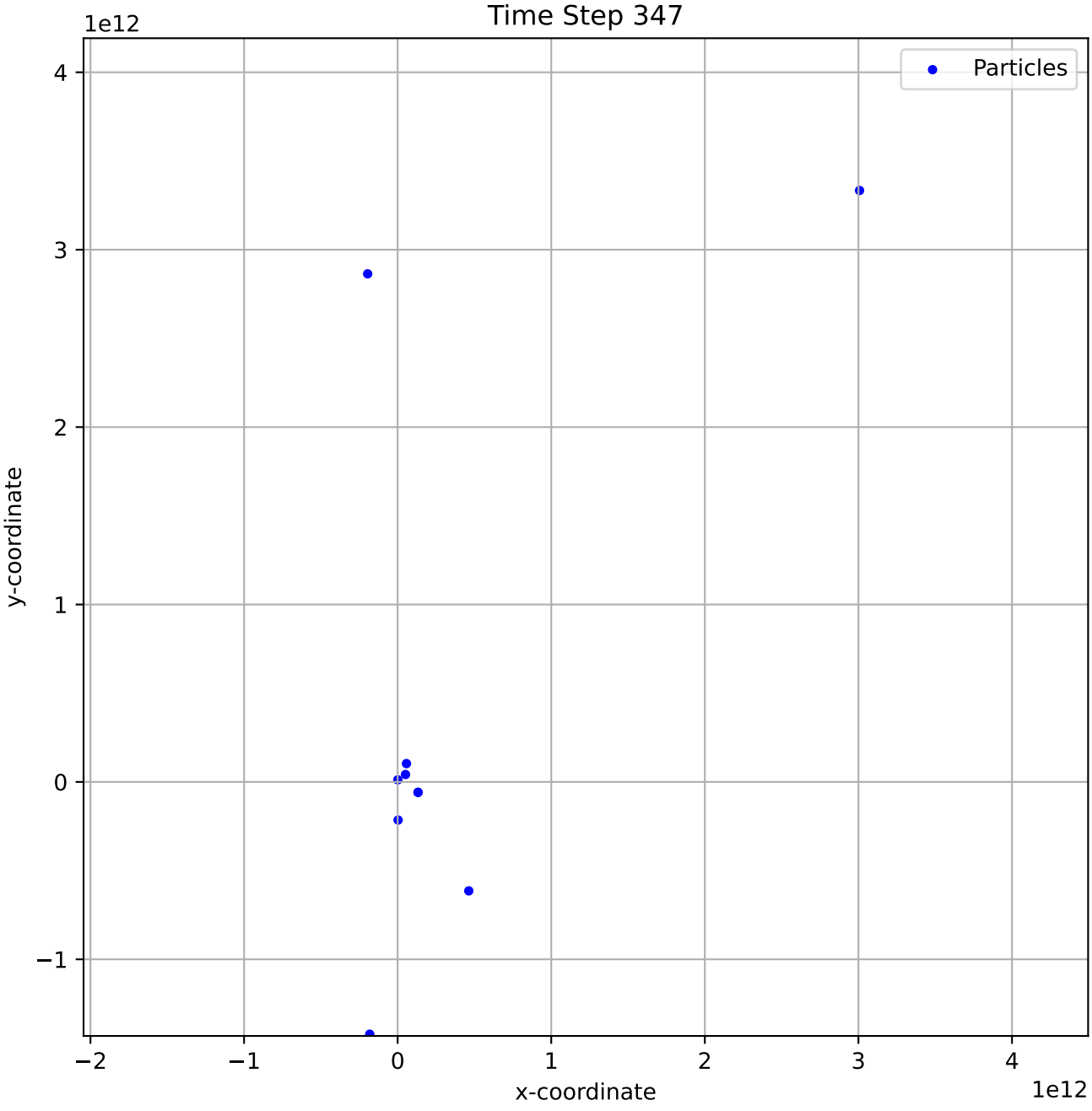

Time Step 342
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

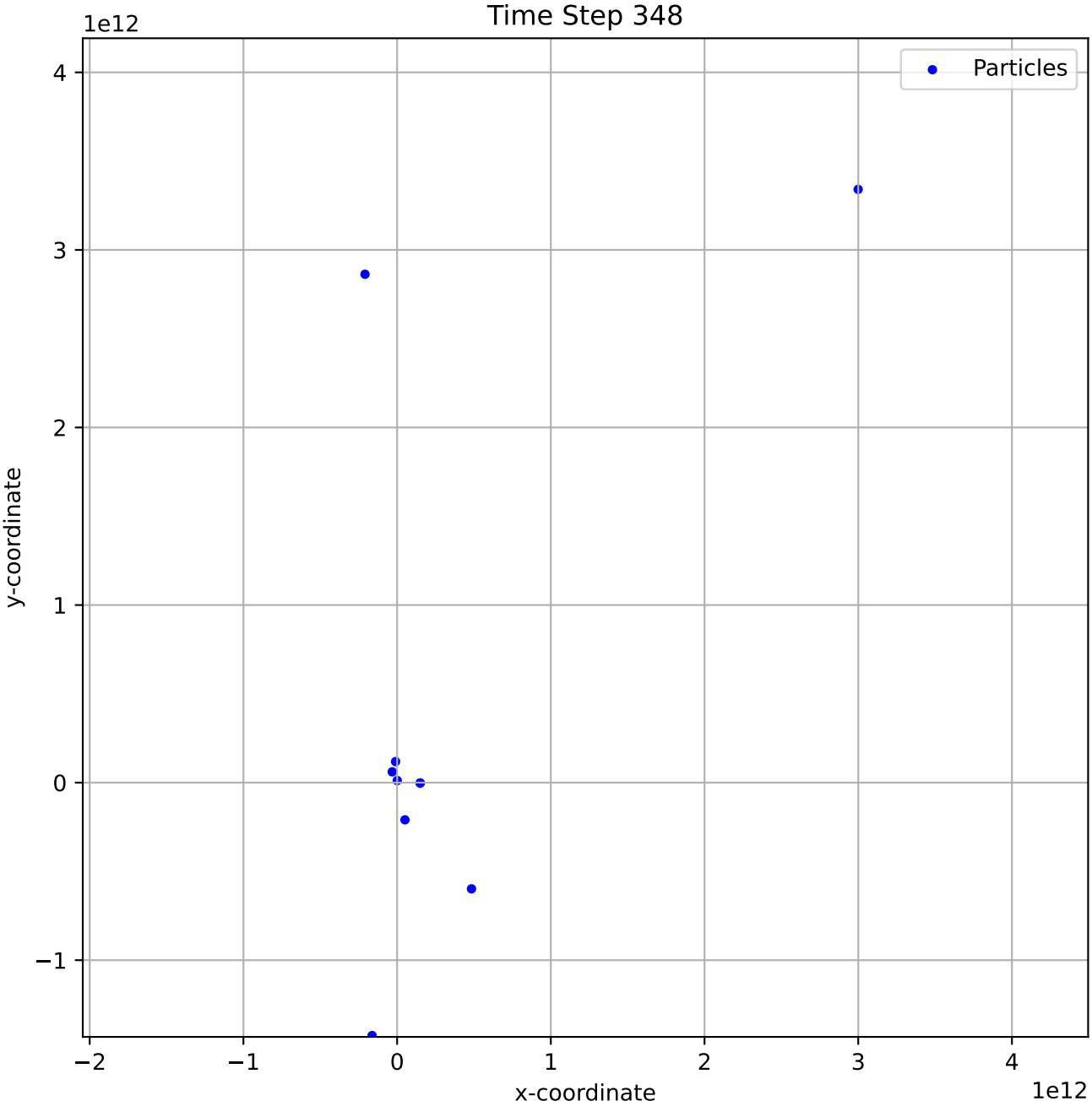

Time Step 343
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

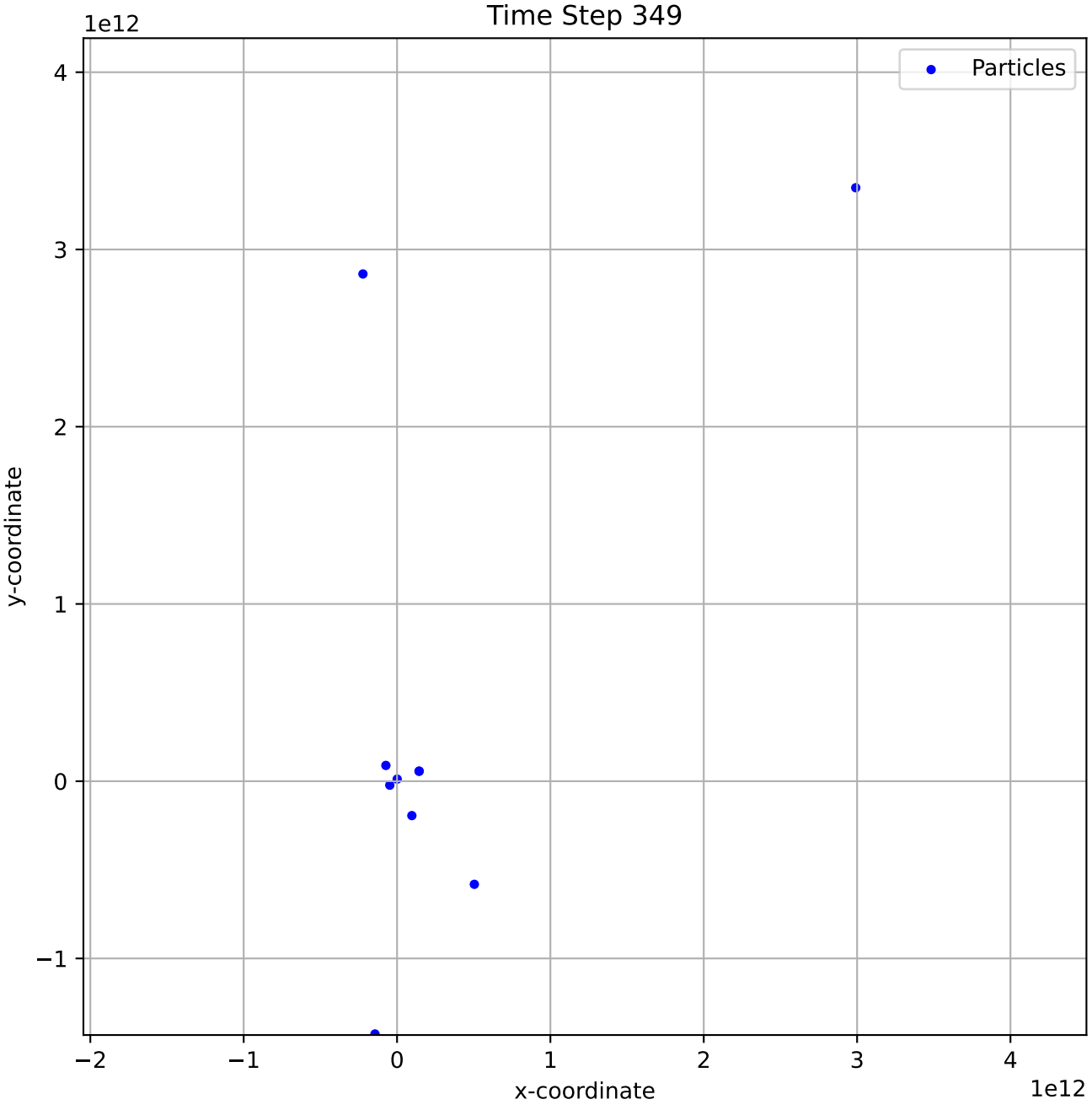

Time Step 344
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

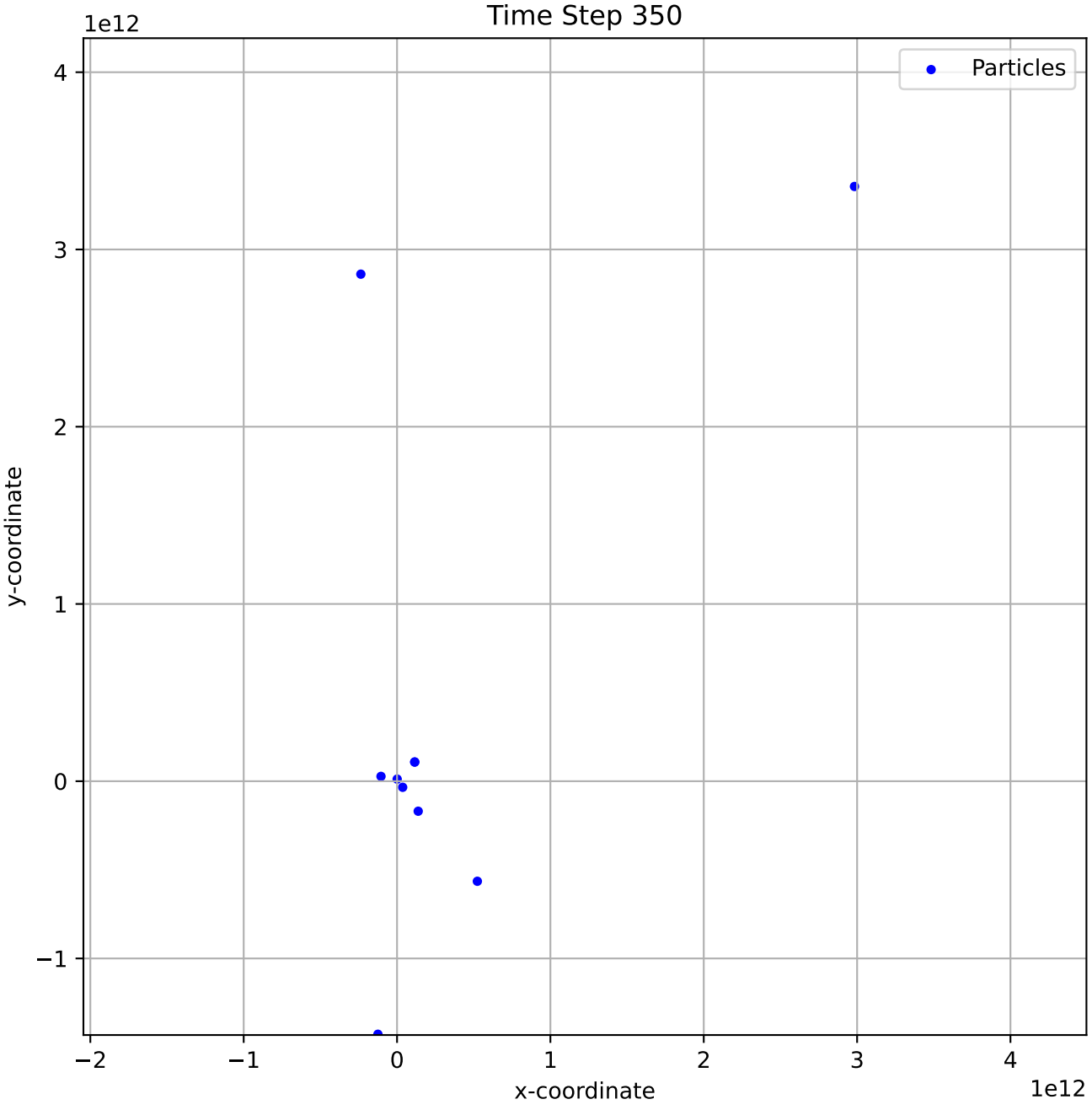

Time Step 345
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

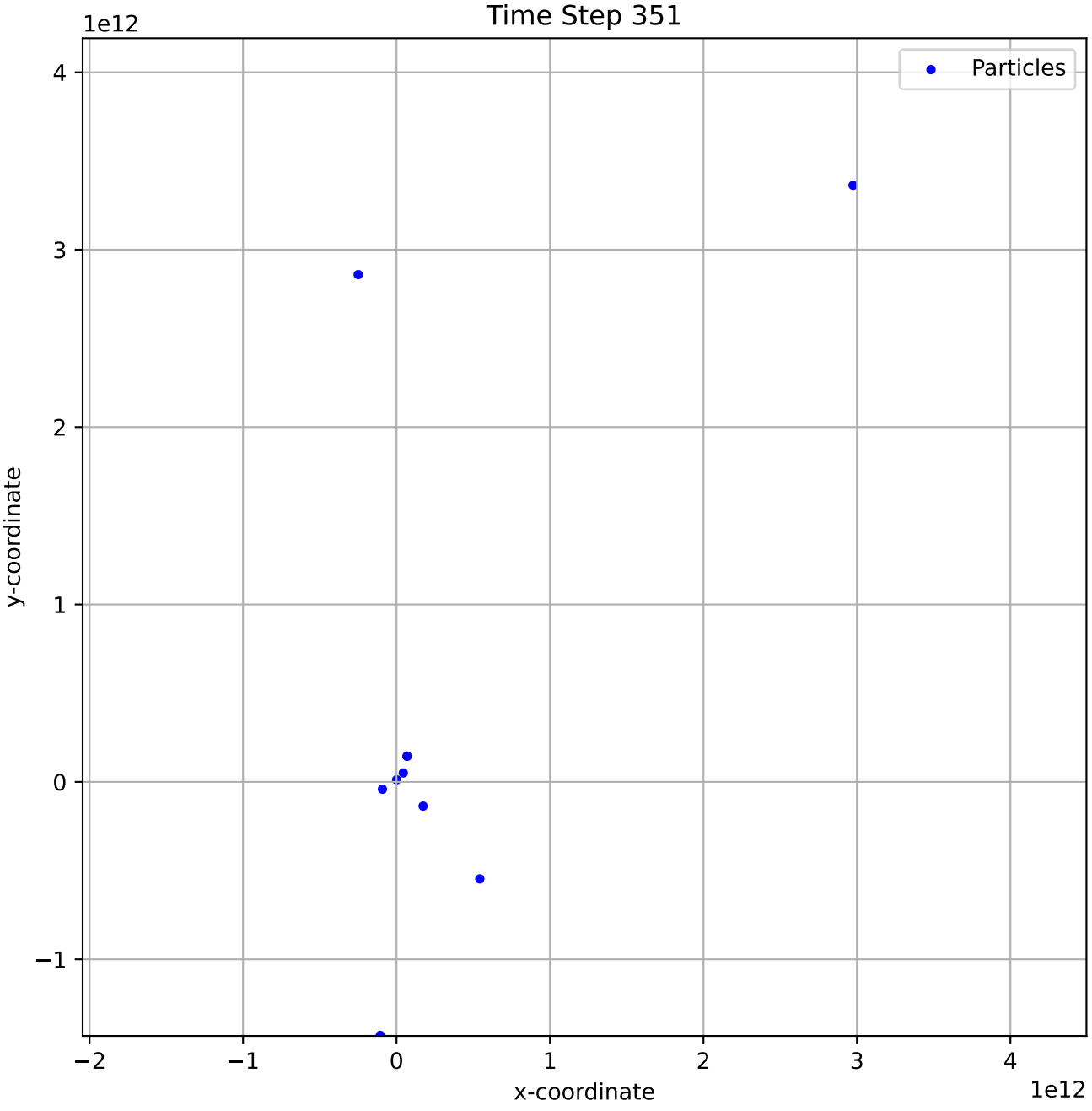

Time Step 346
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

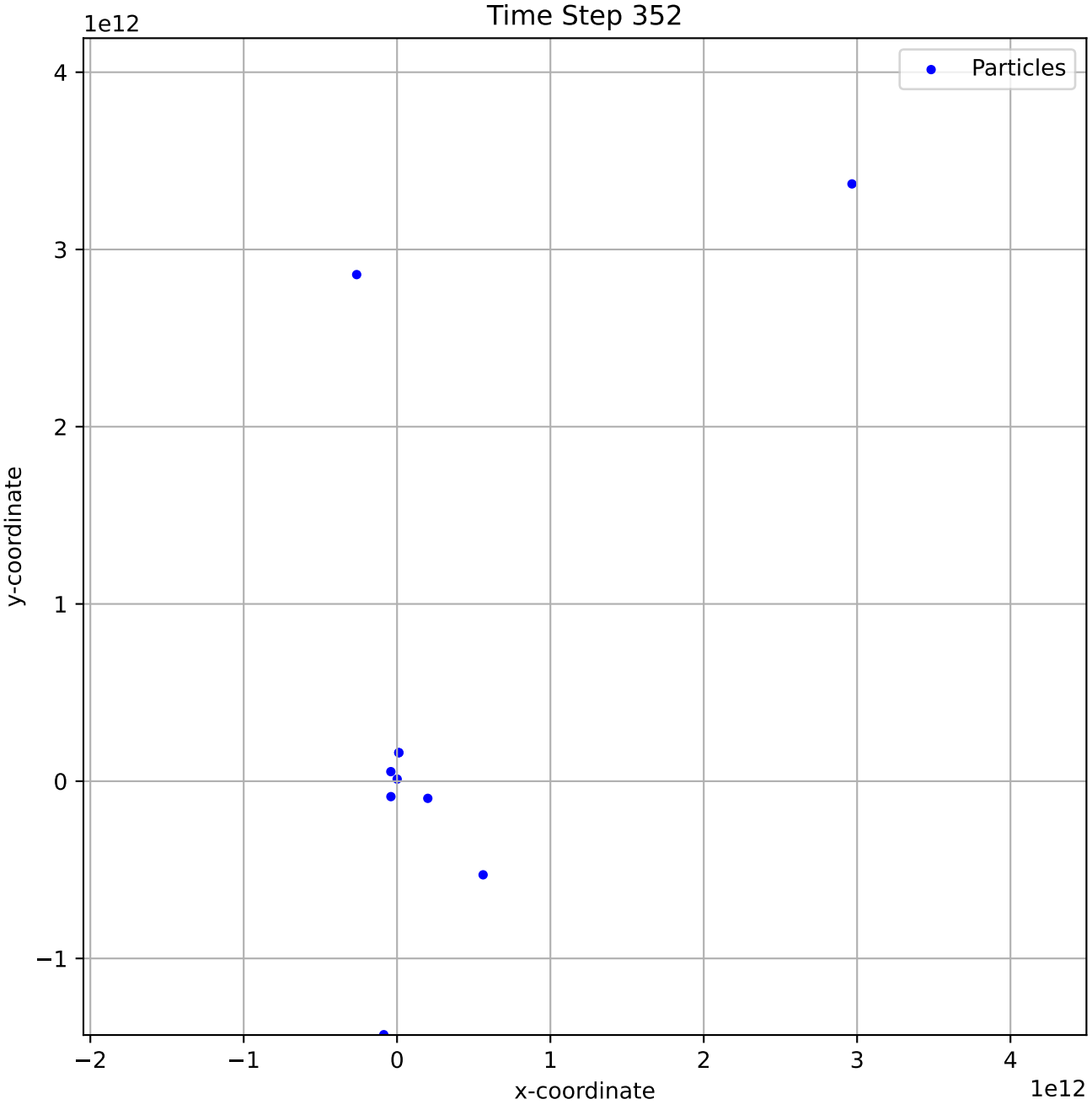

Time Step 347
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

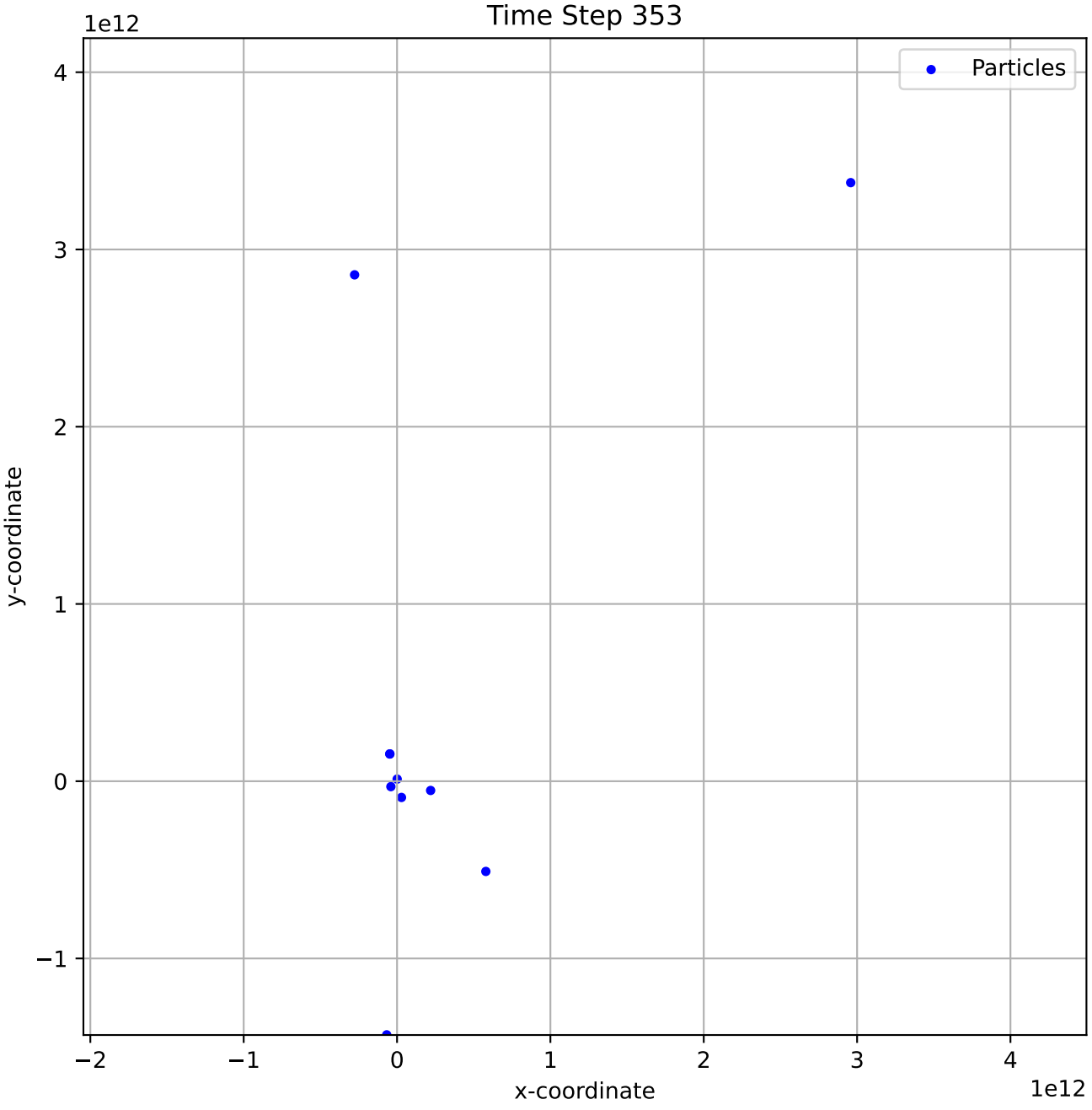

Time Step 348
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

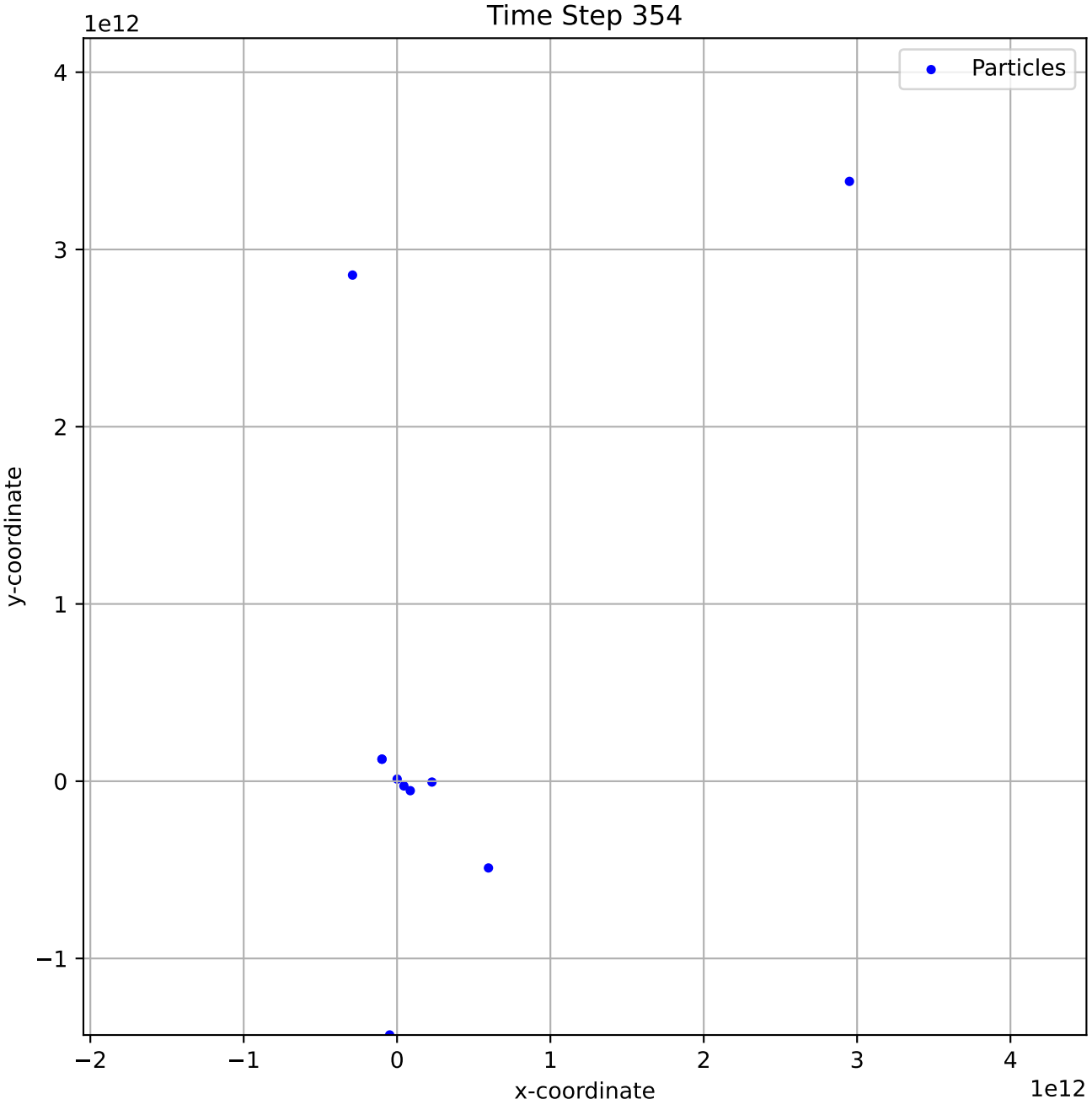

Time Step 349
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

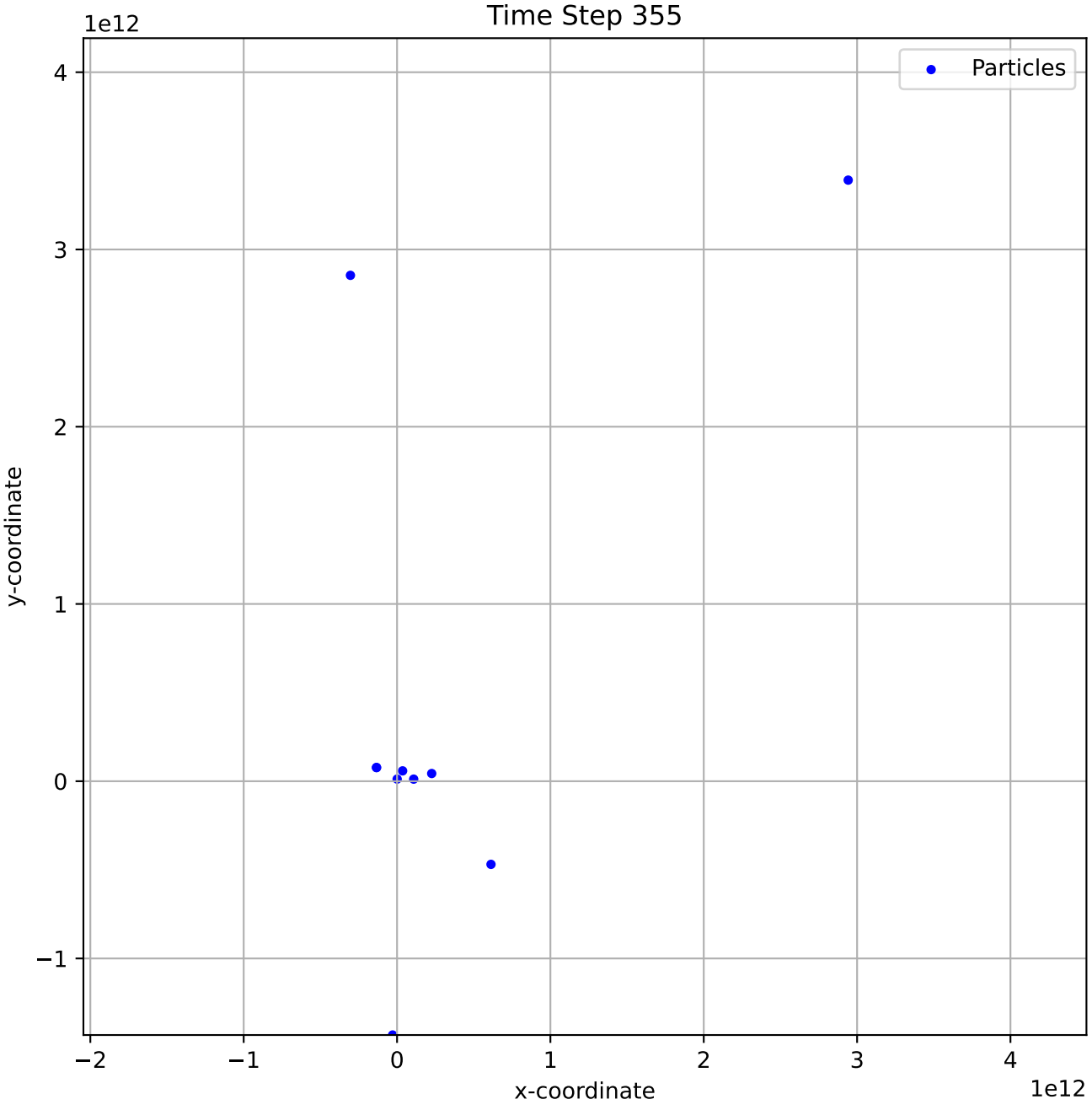

Time Step 350
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

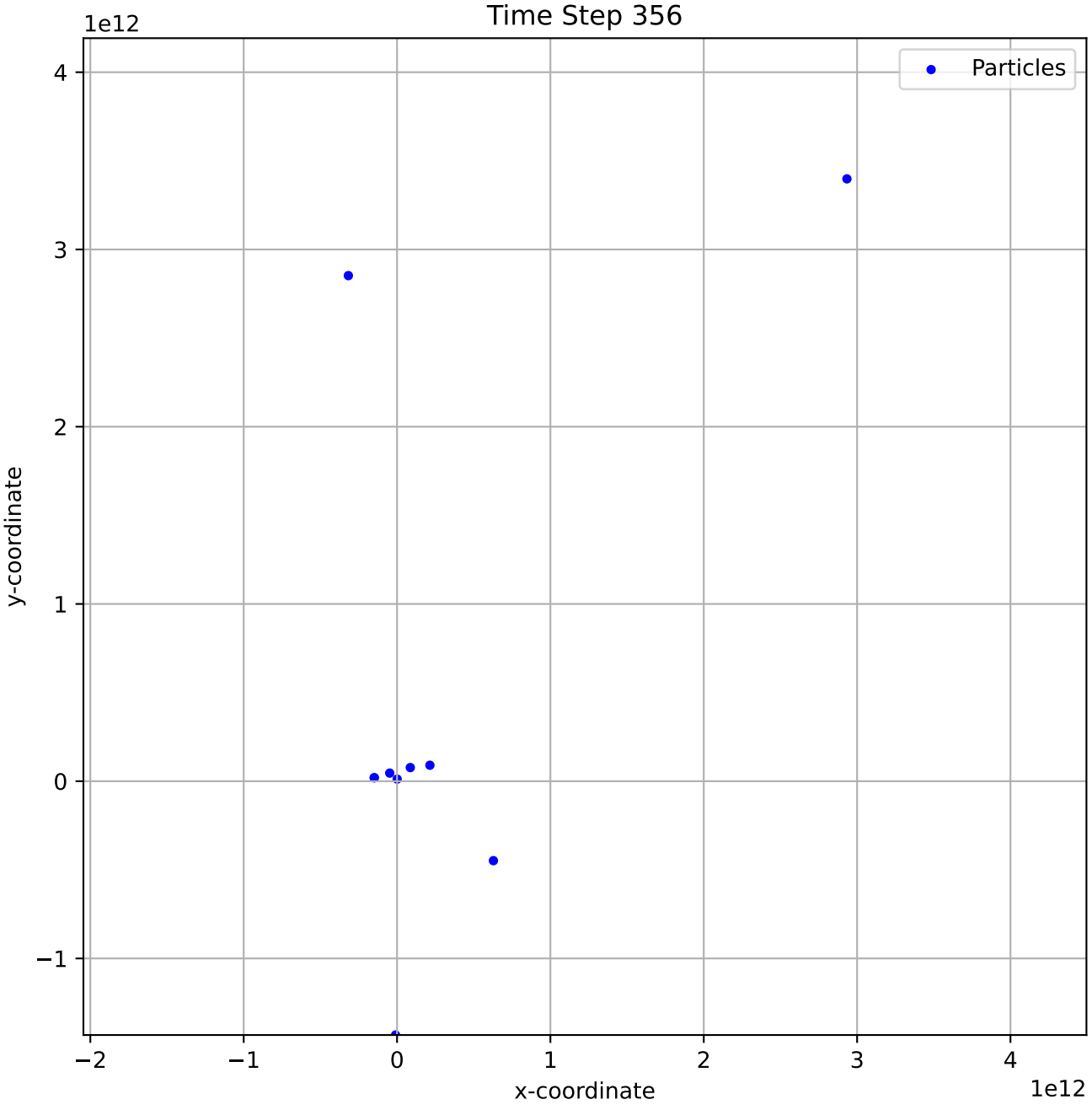

Time Step 351
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

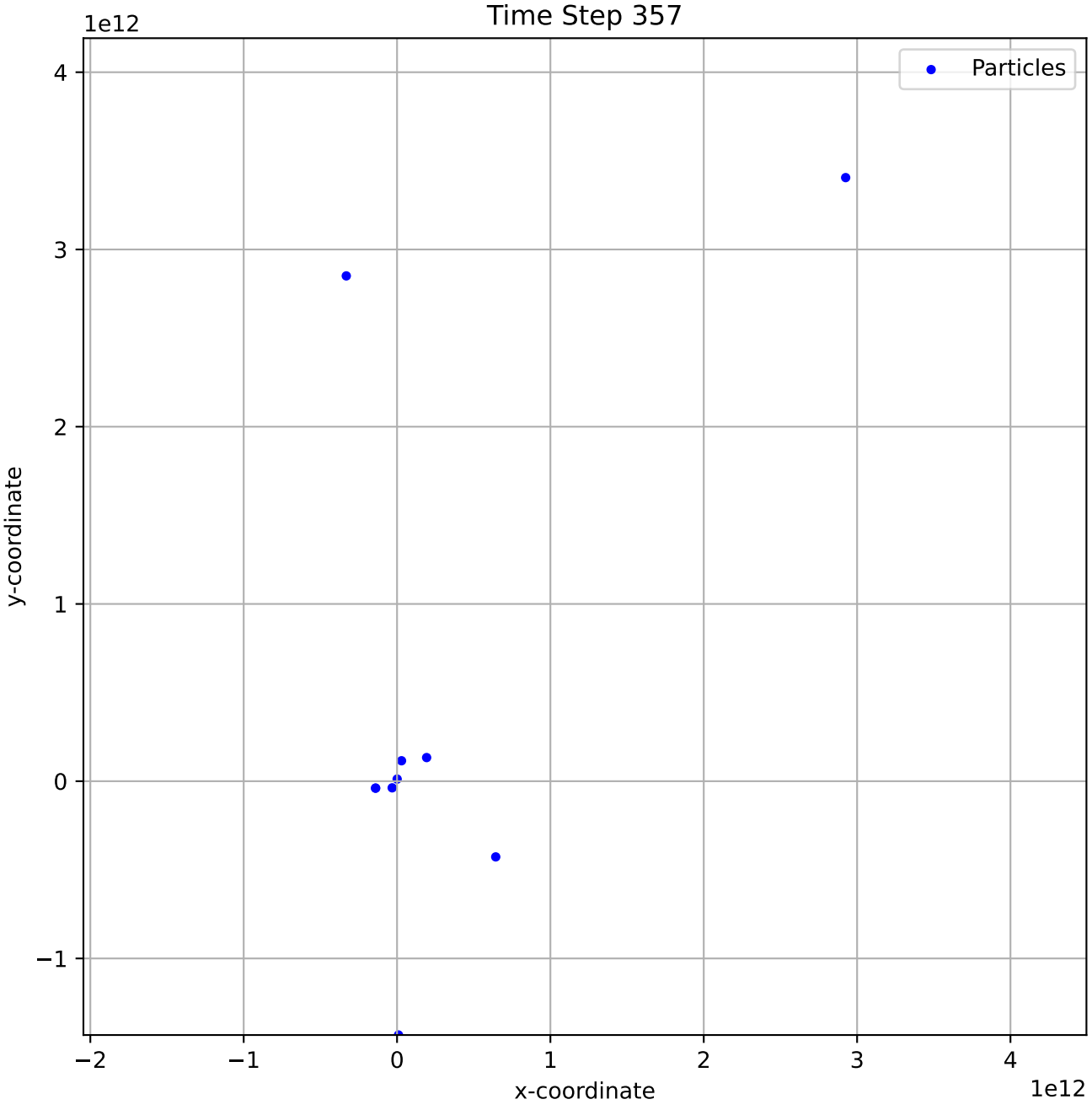

Time Step 352
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

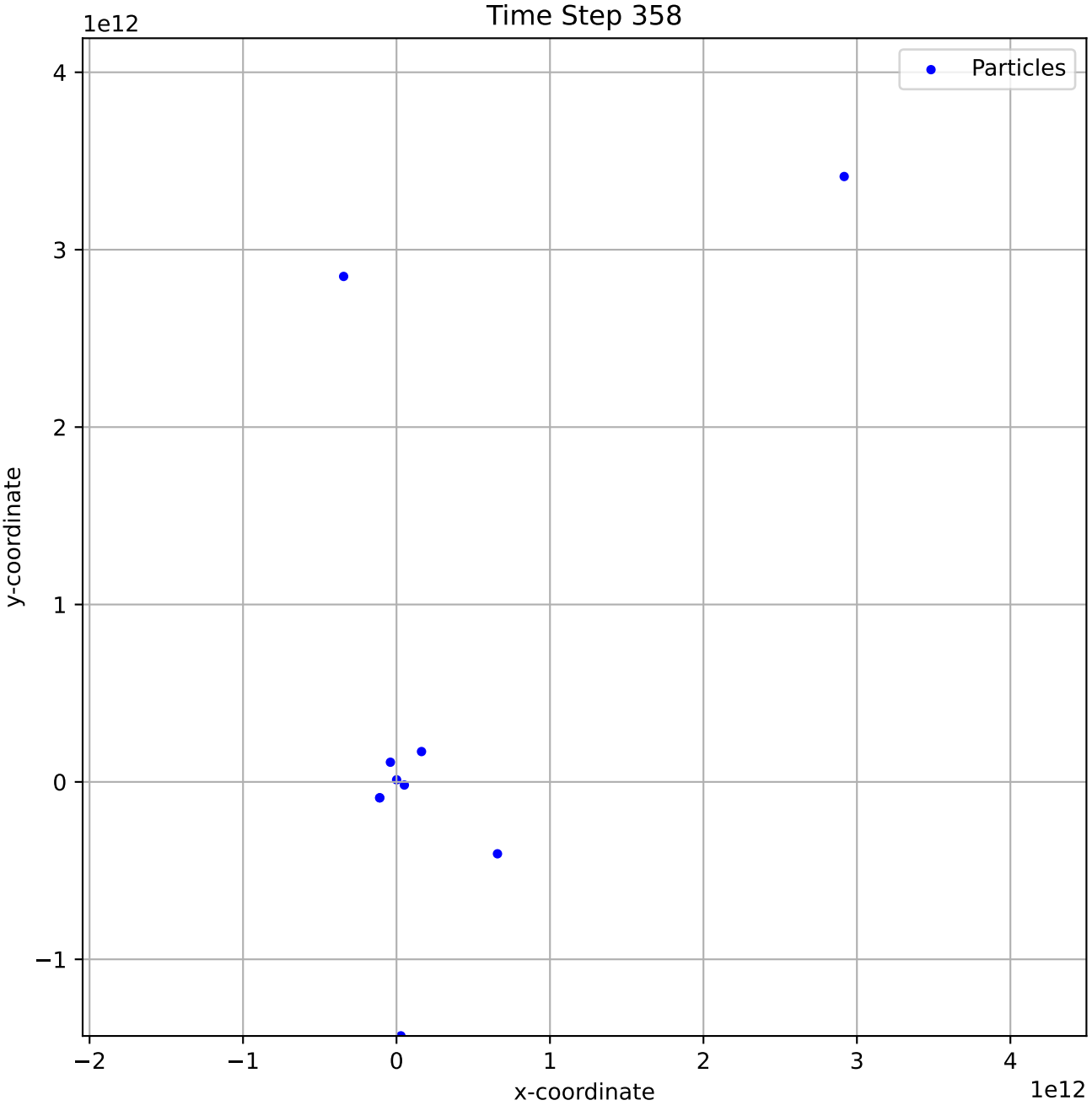

Time Step 353
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

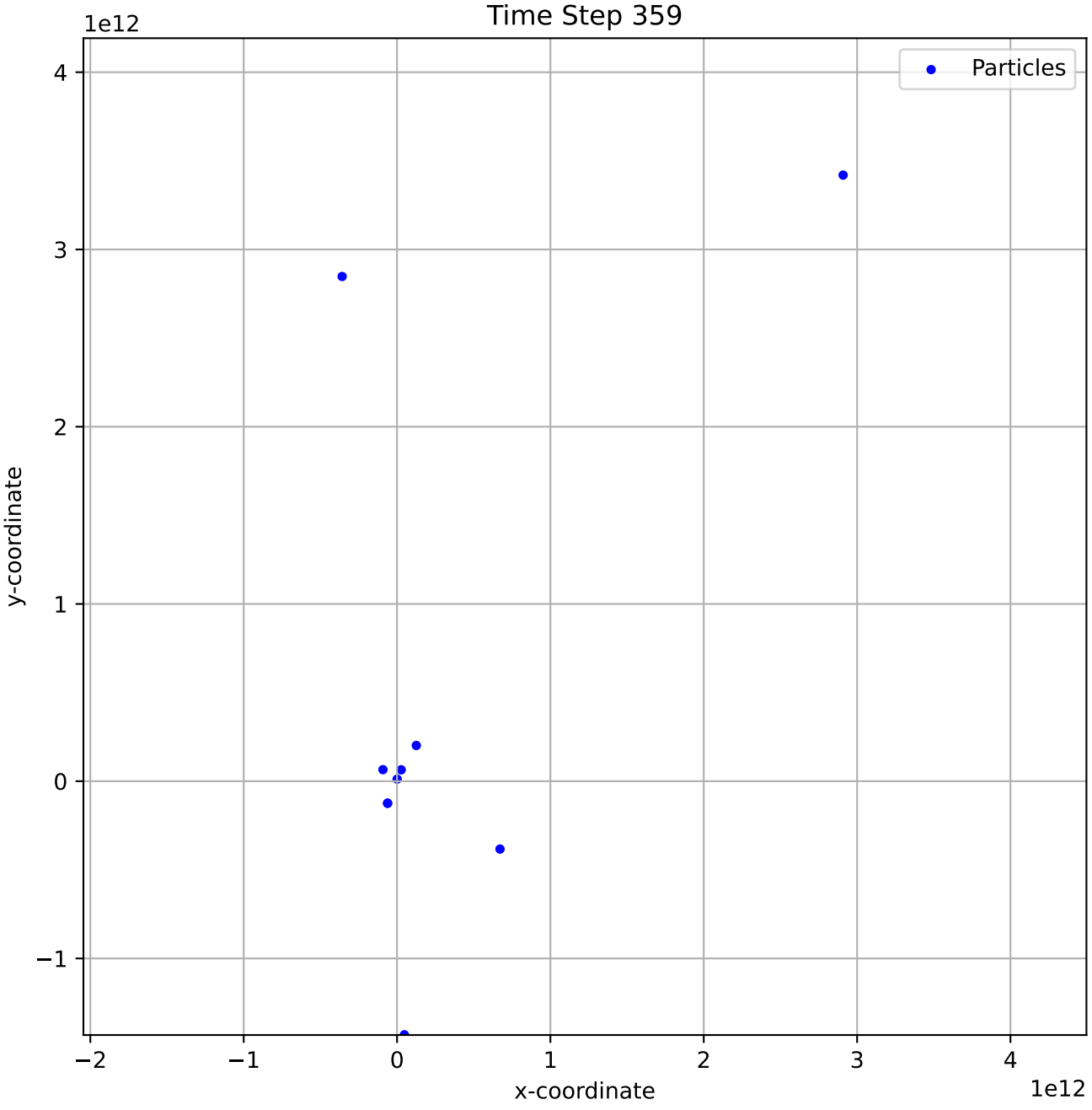

Time Step 354
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

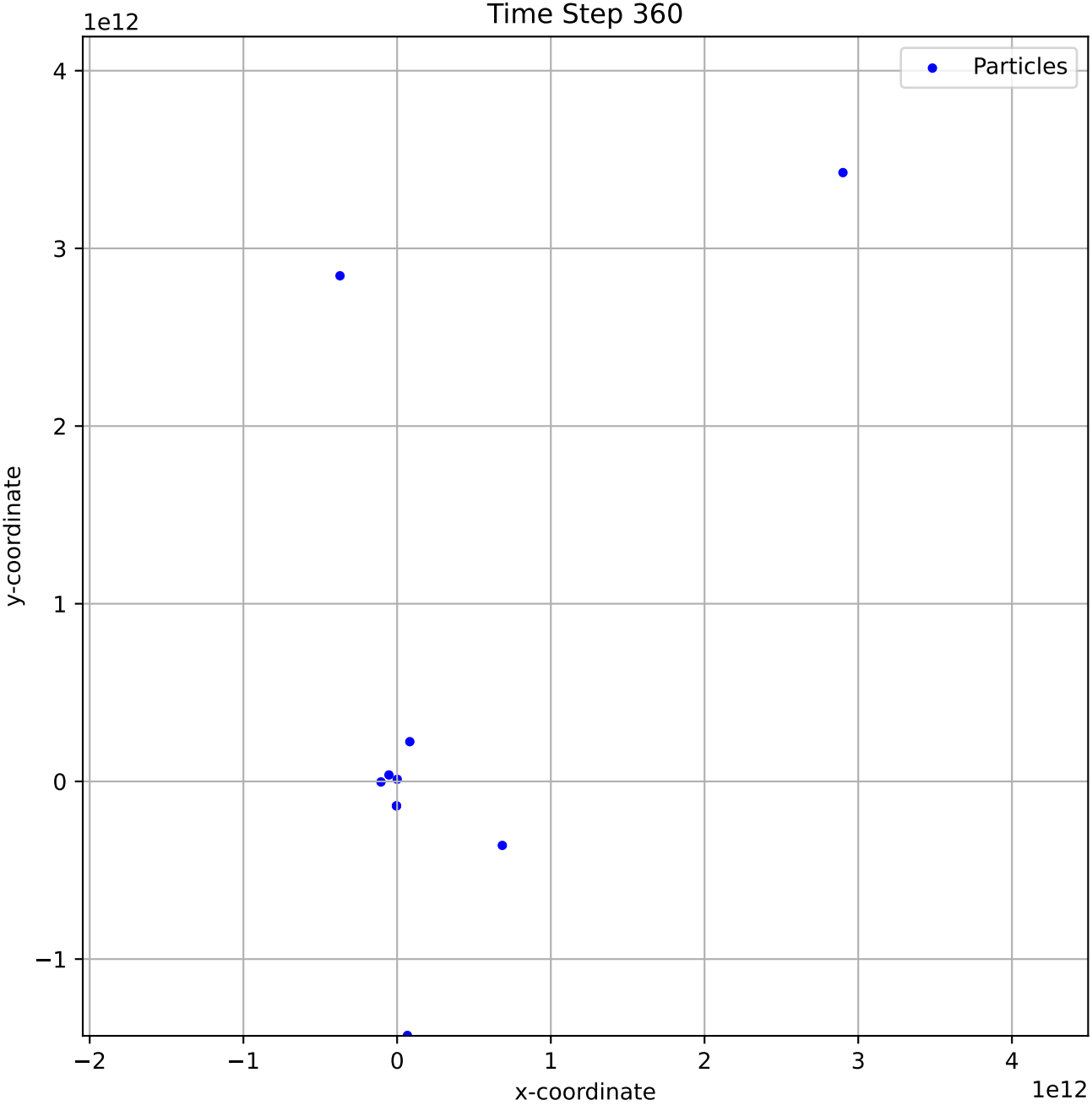

Time Step 355
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

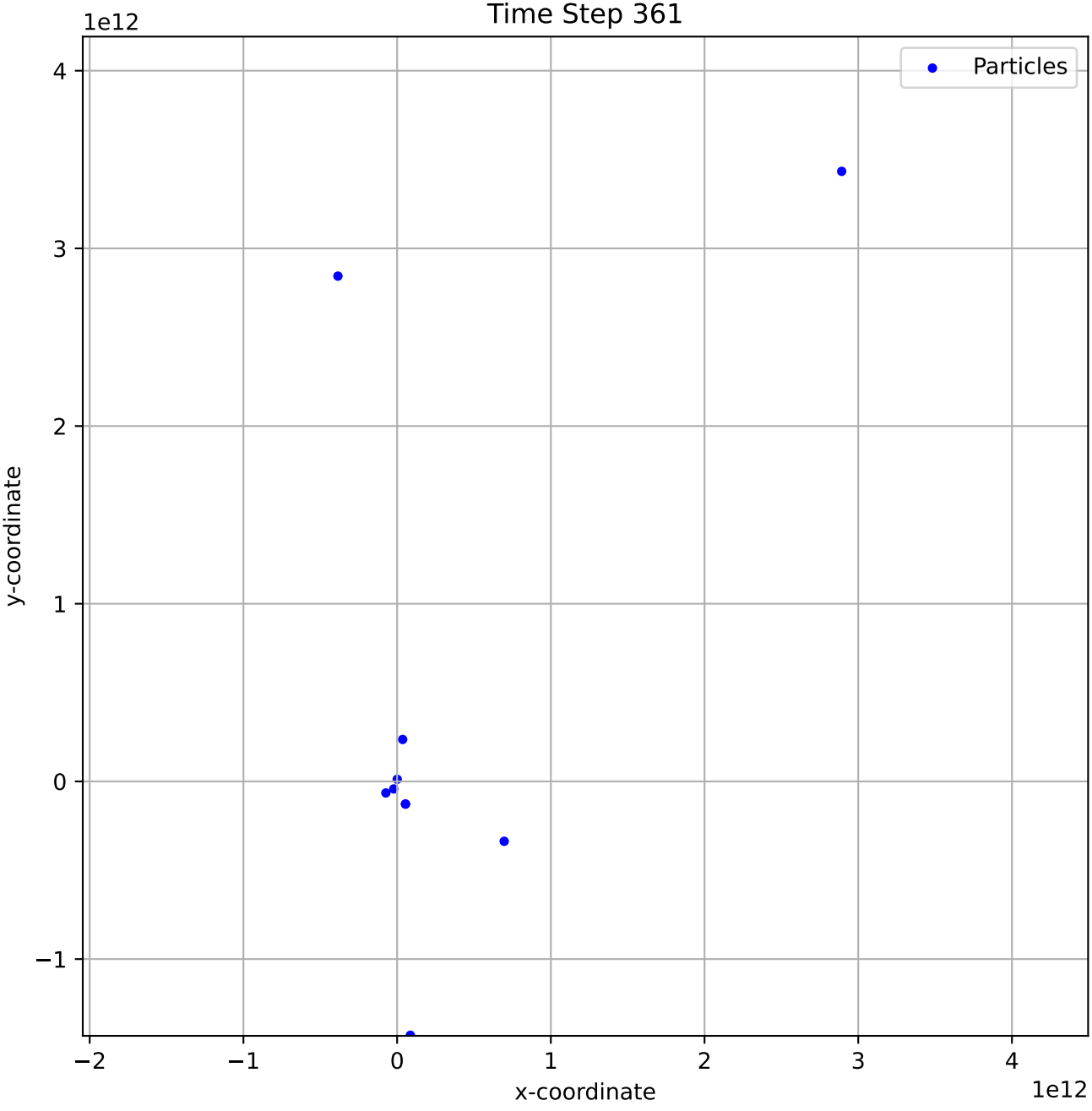

Time Step 356
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

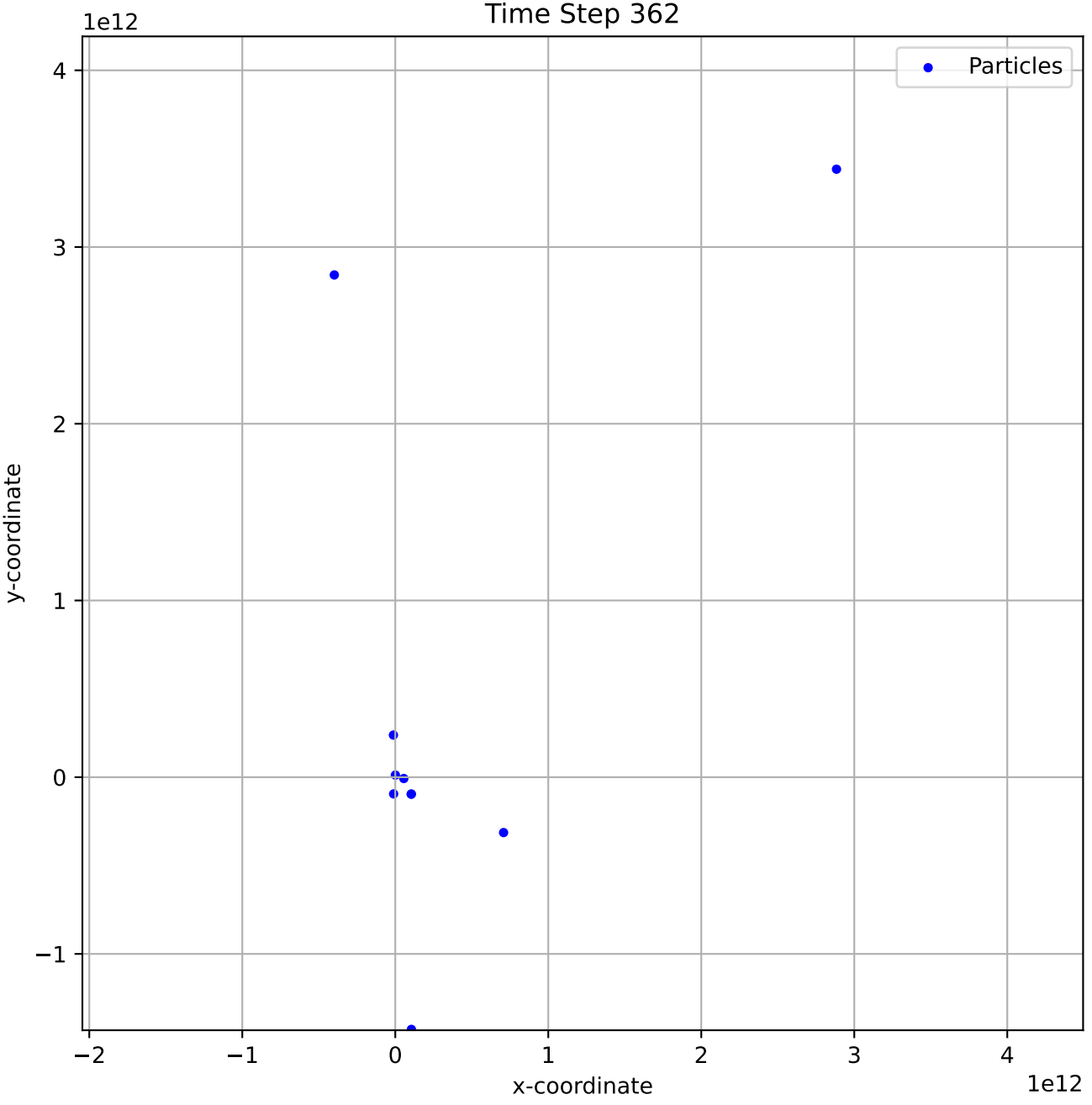

Time Step 357
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

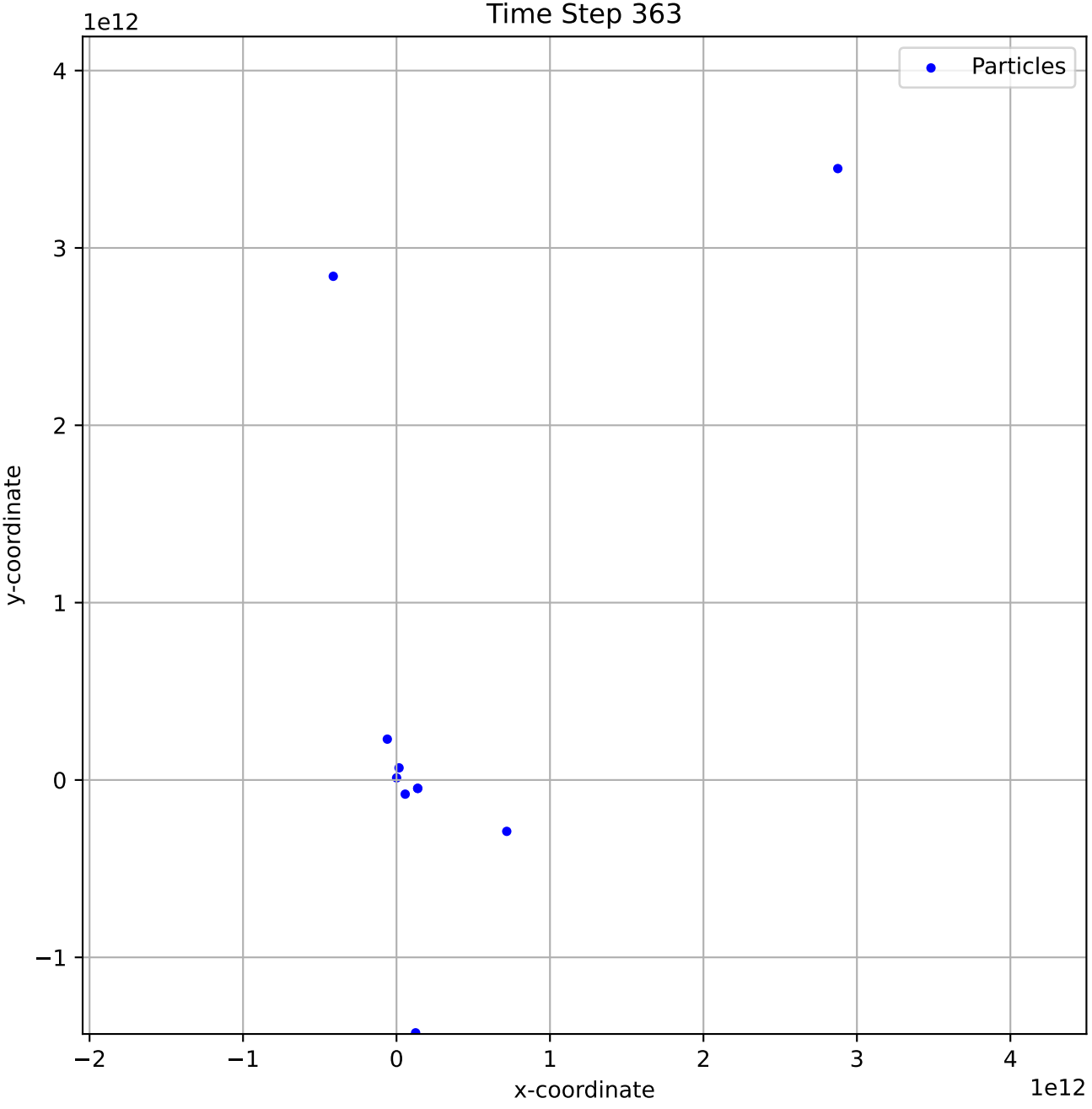

Time Step 358
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

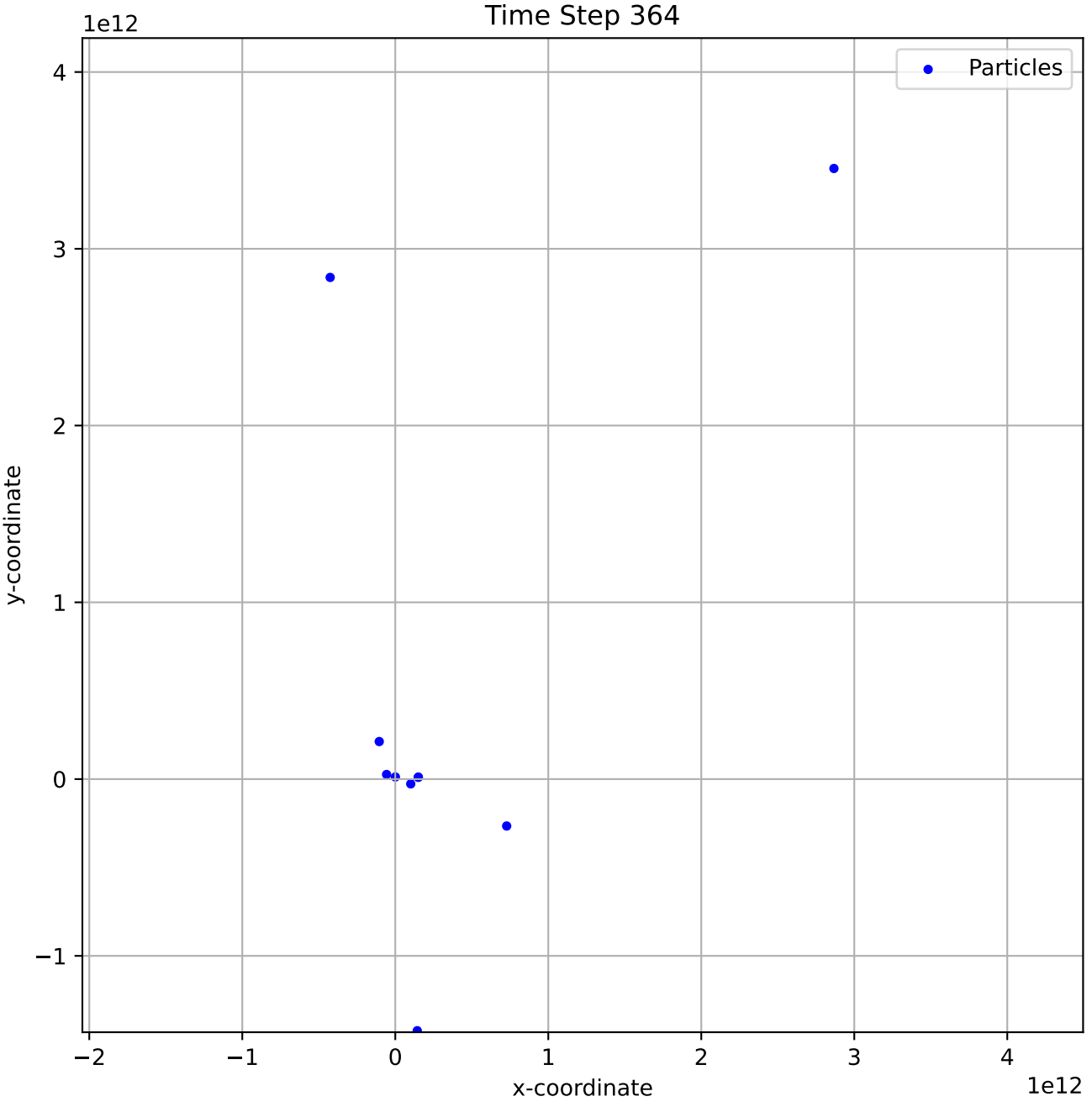

Time Step 359
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

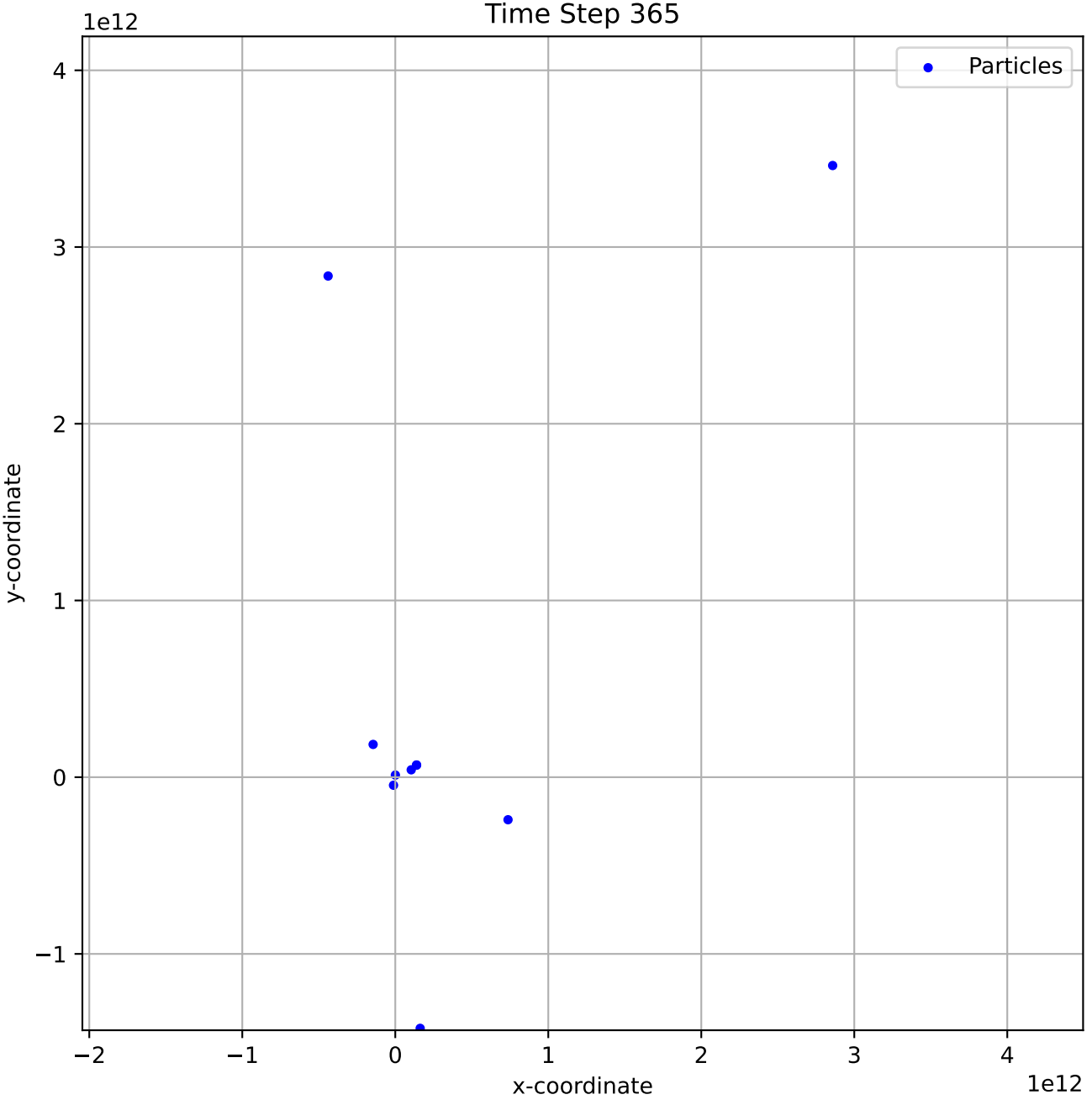

Time Step 360
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

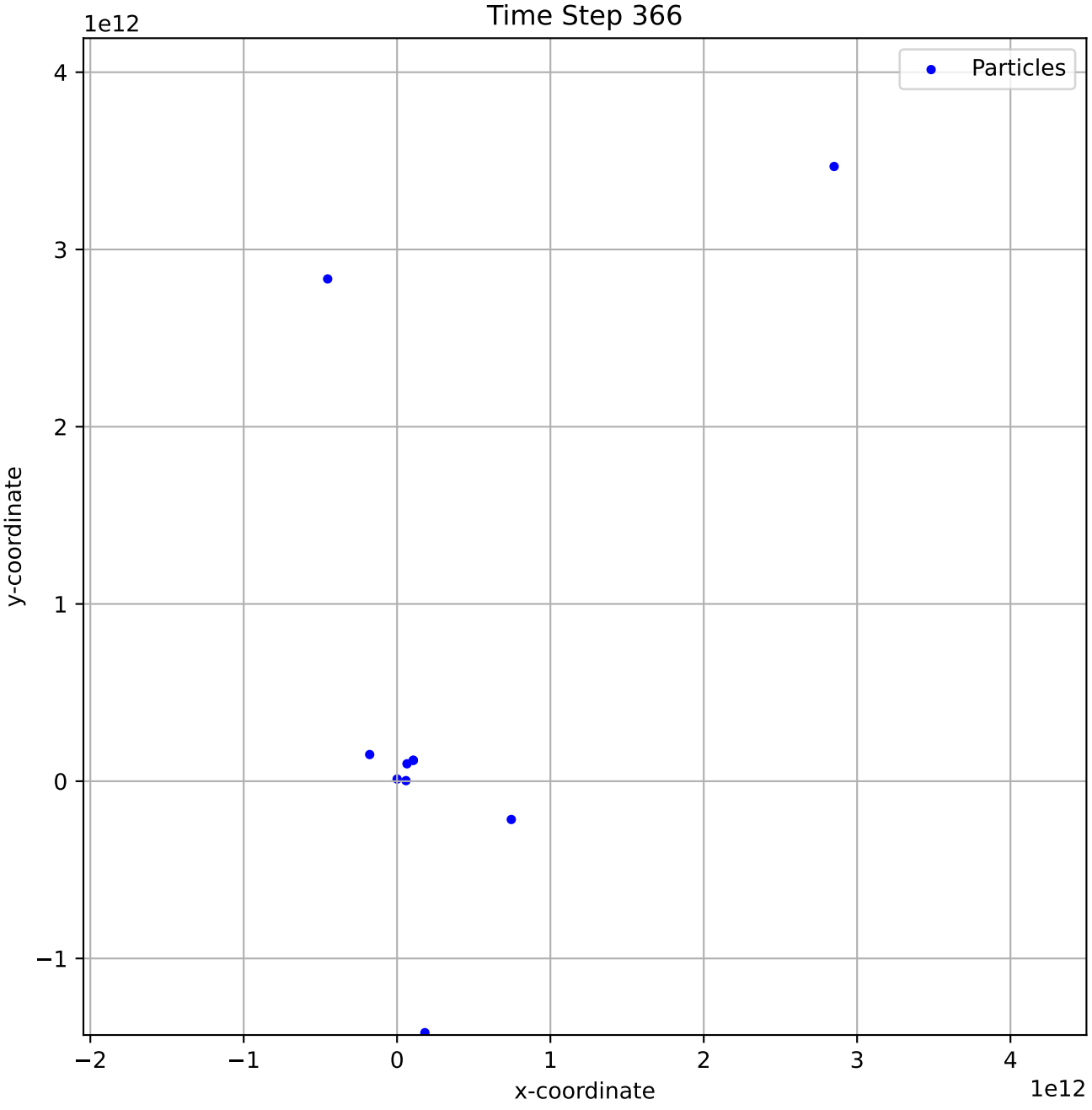

Time Step 361
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

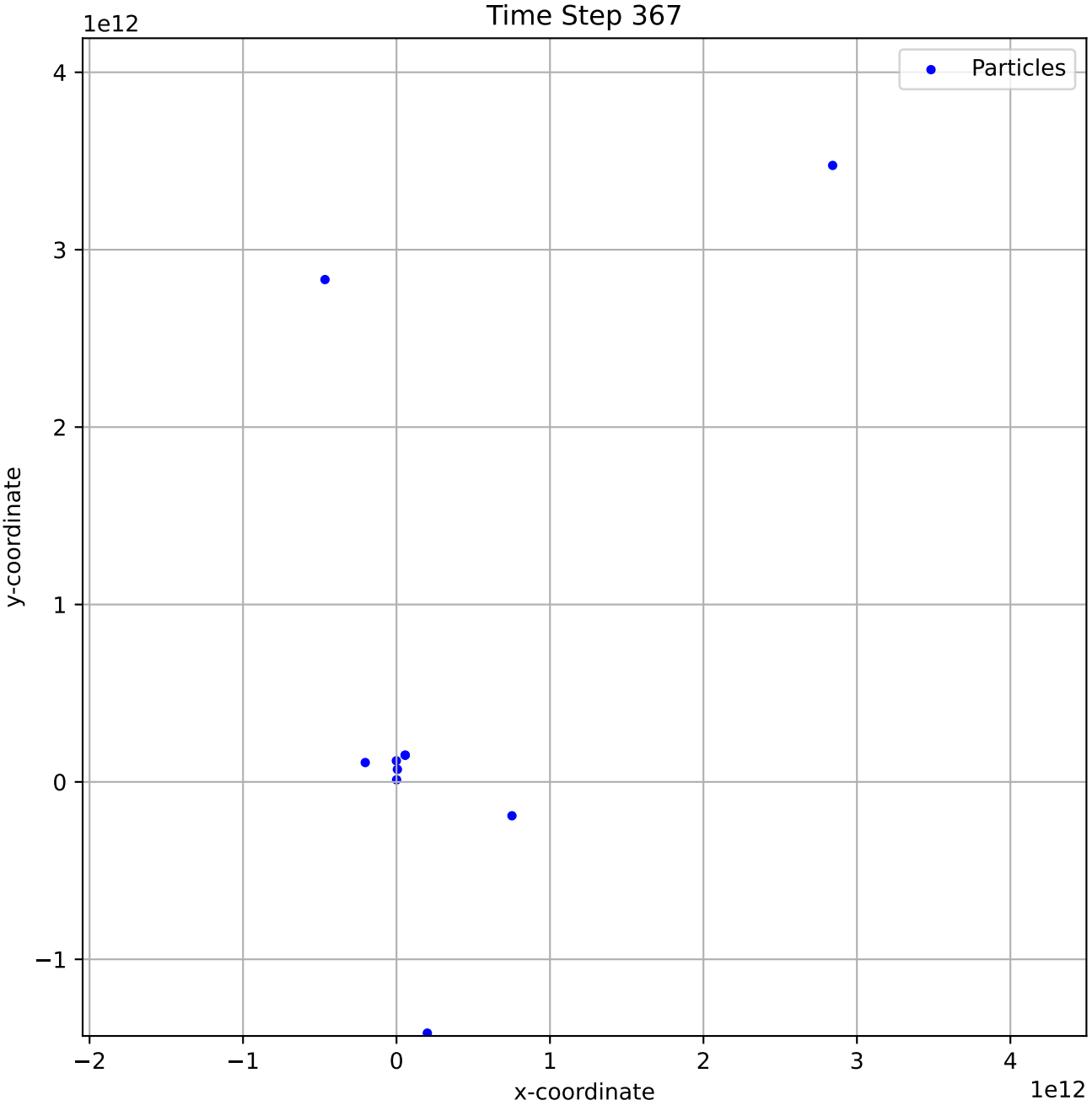

Time Step 362
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

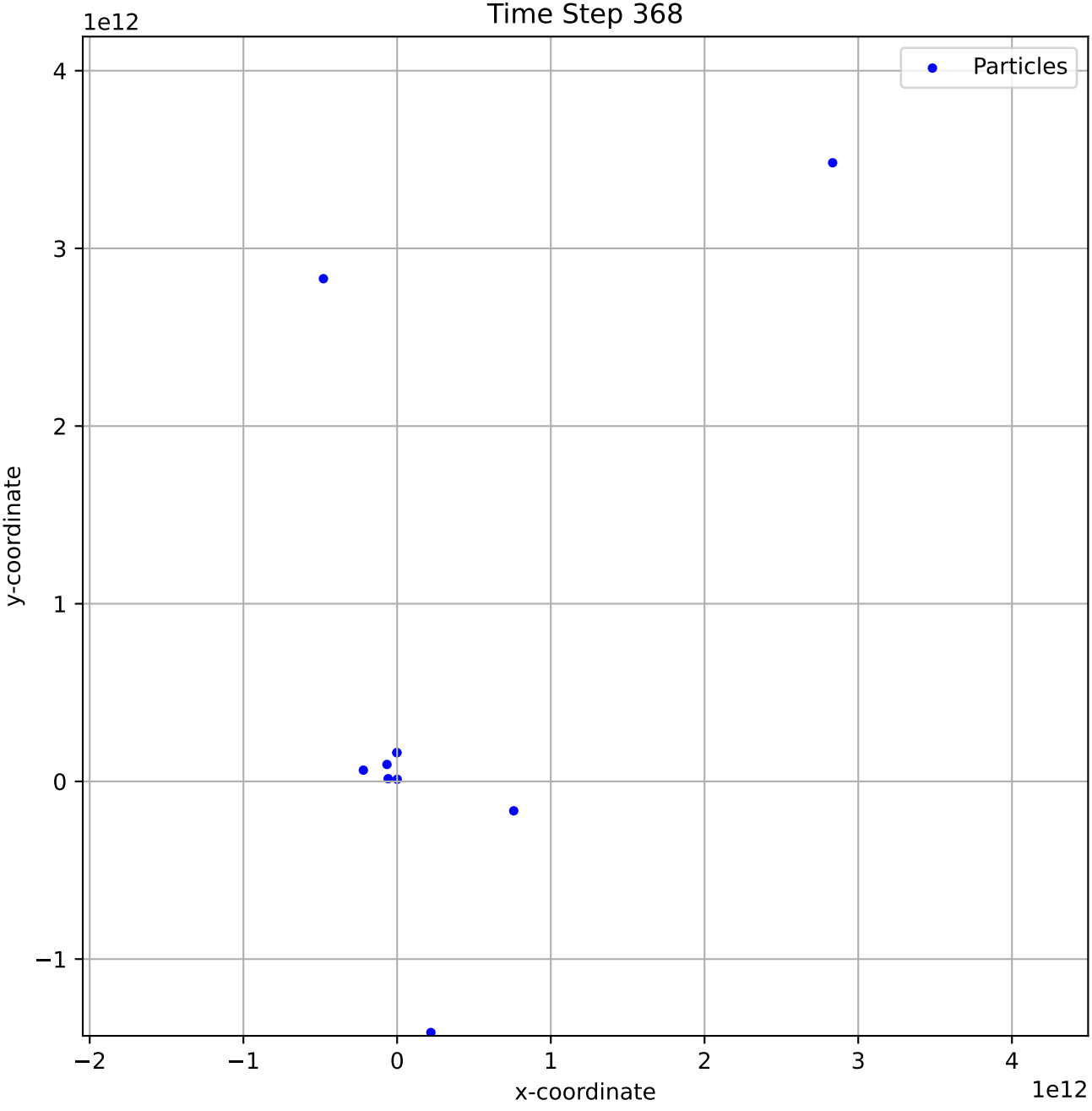

Time Step 363
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

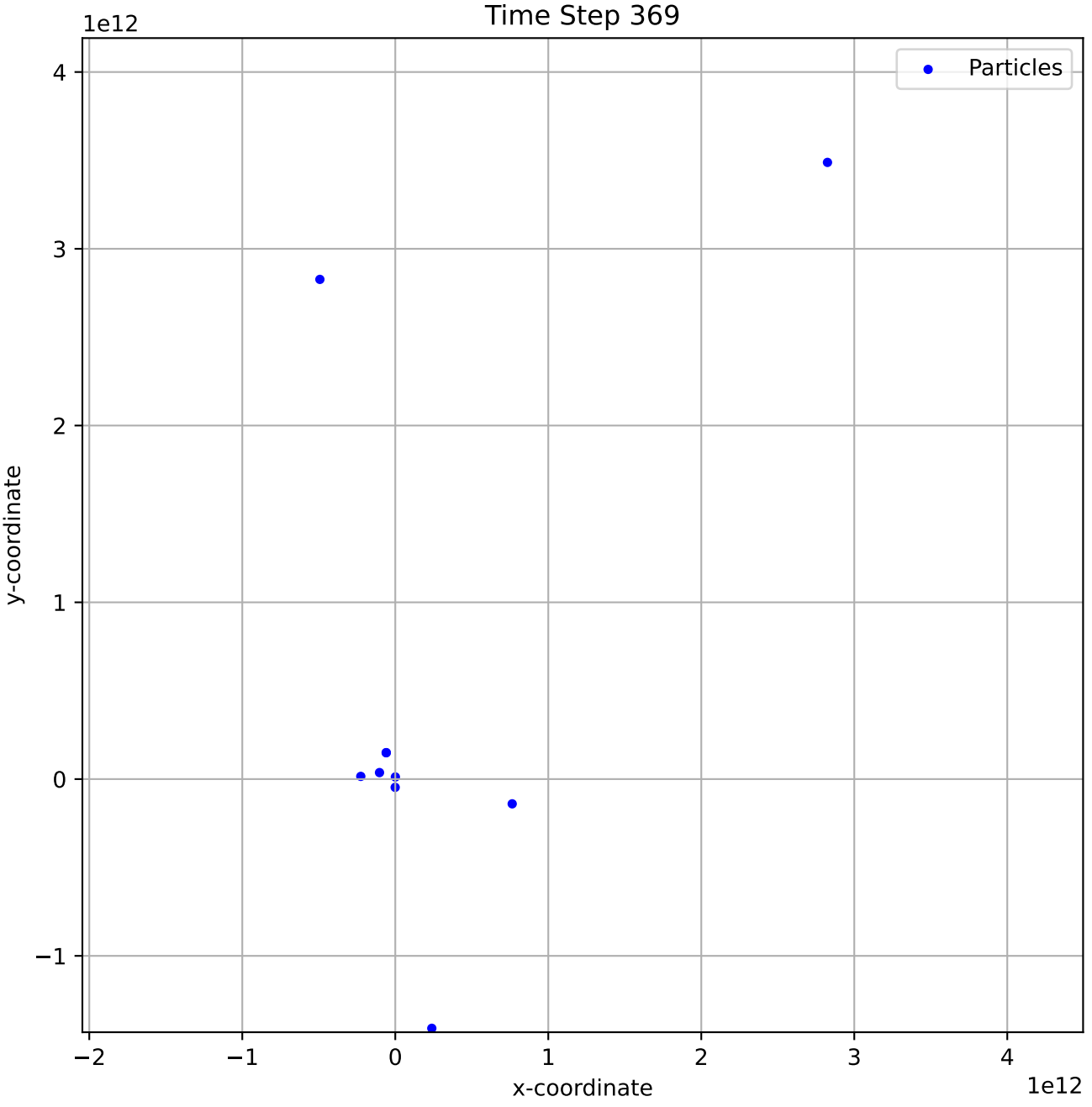

Time Step 364
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

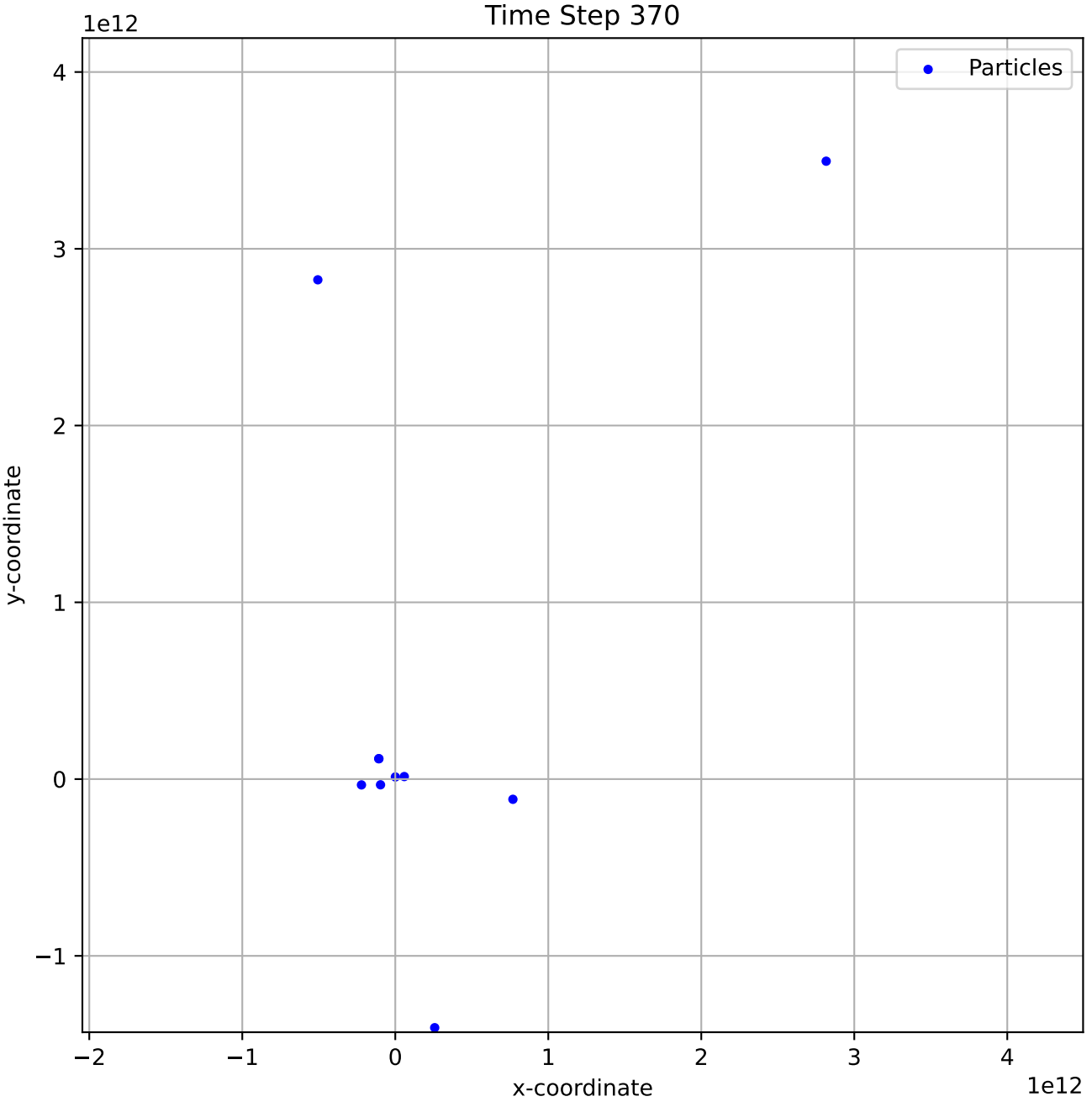

Time Step 365
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

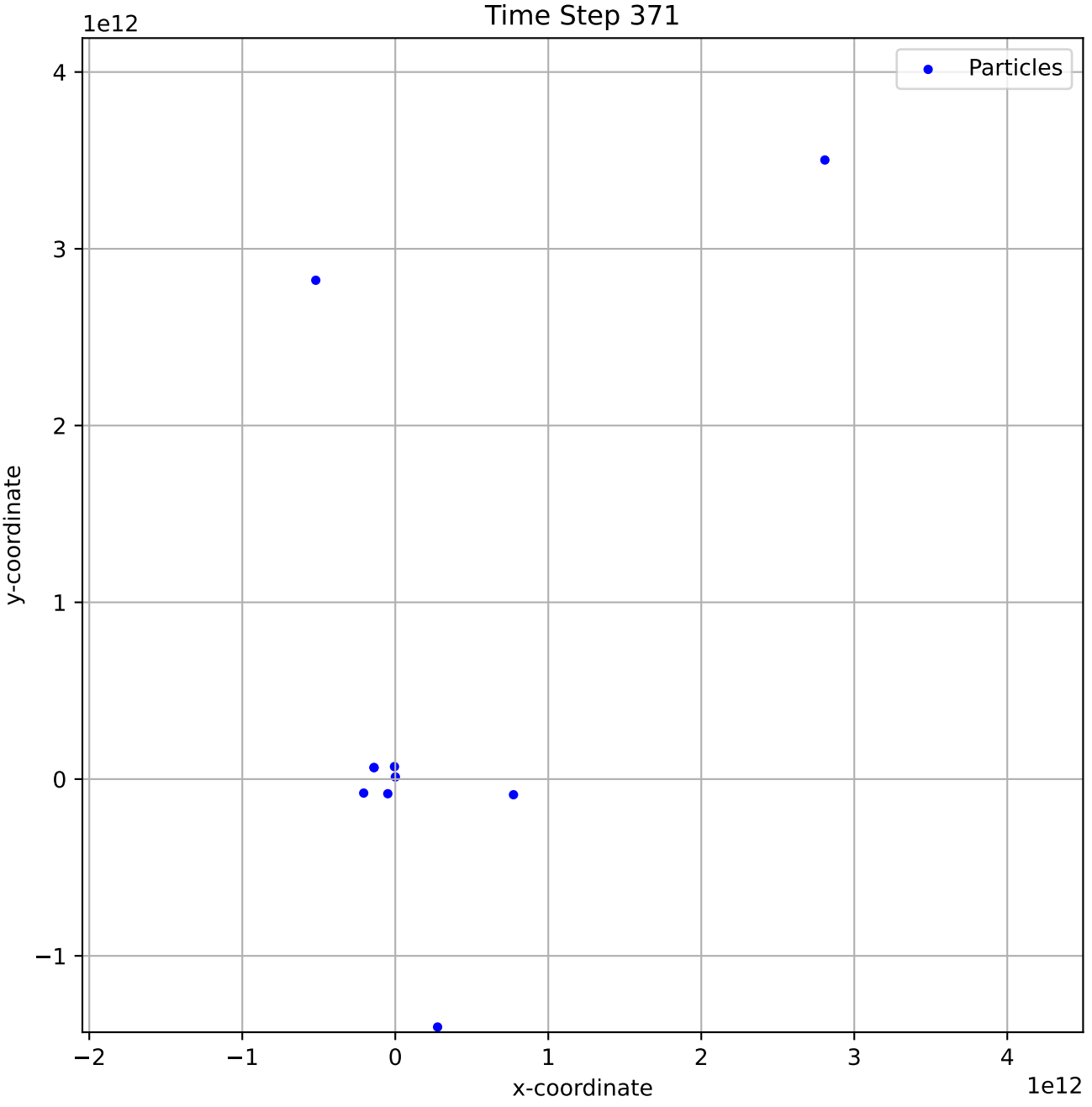

Time Step 366
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

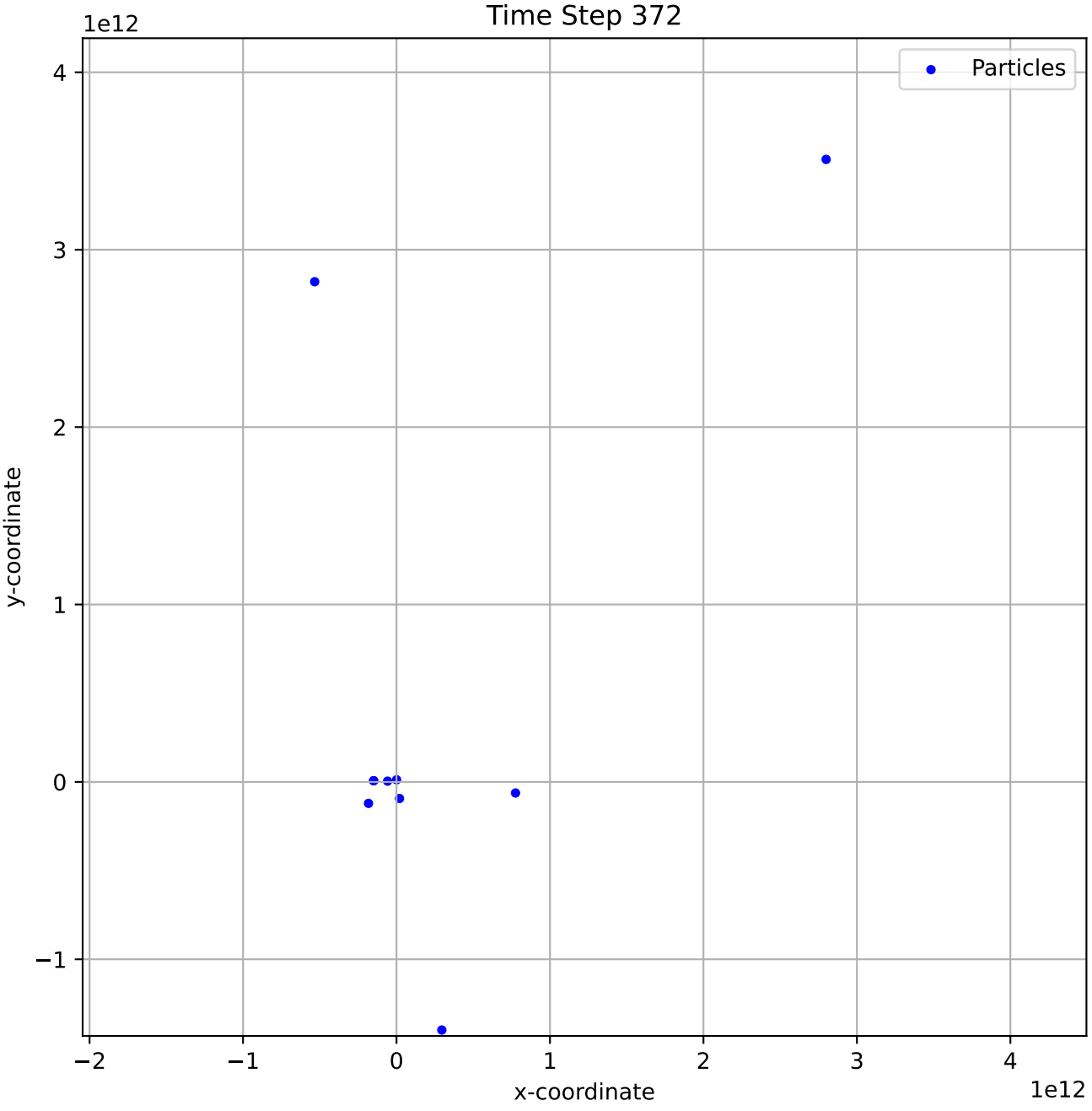

Time Step 367
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

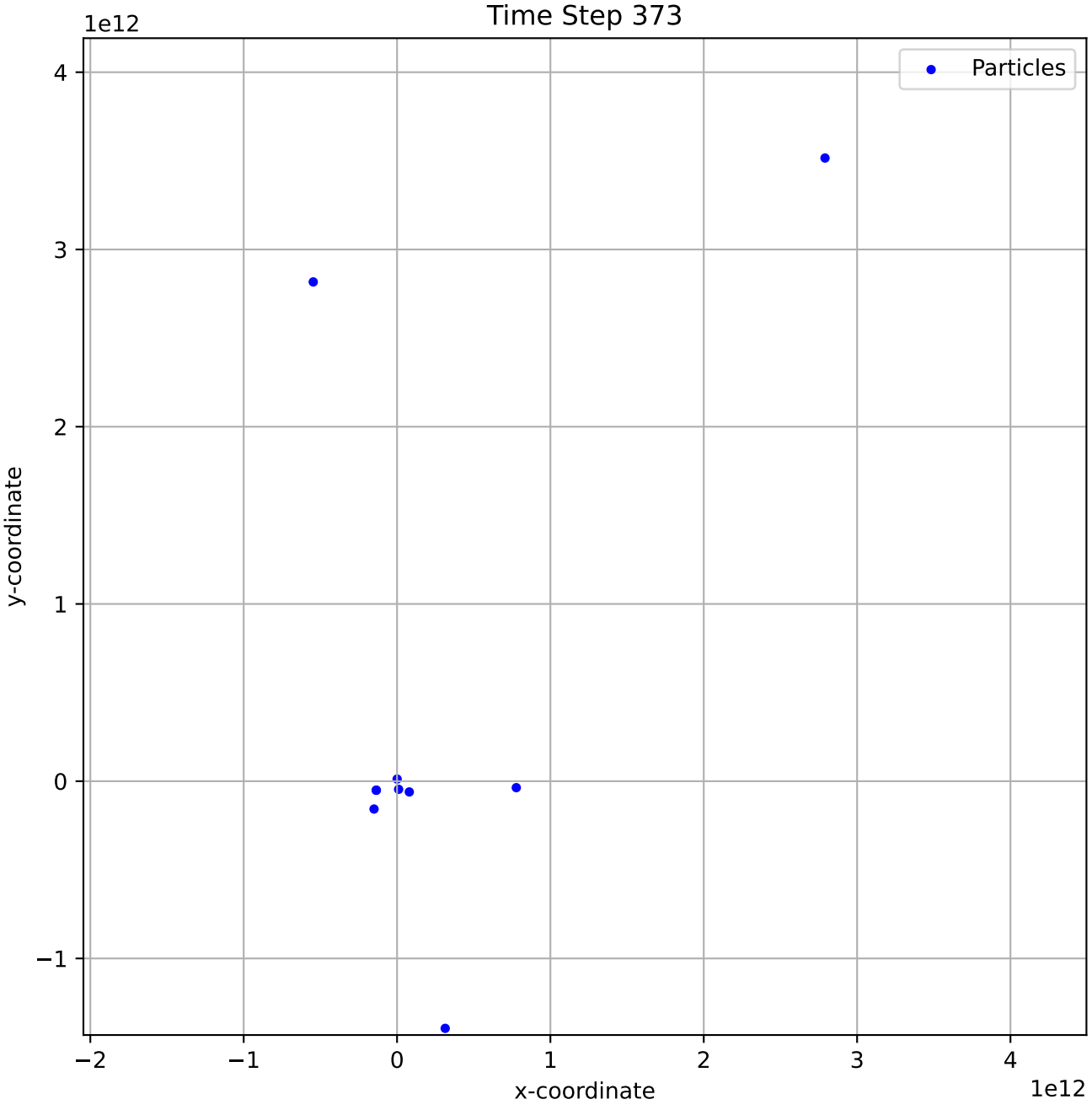

Time Step 368
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

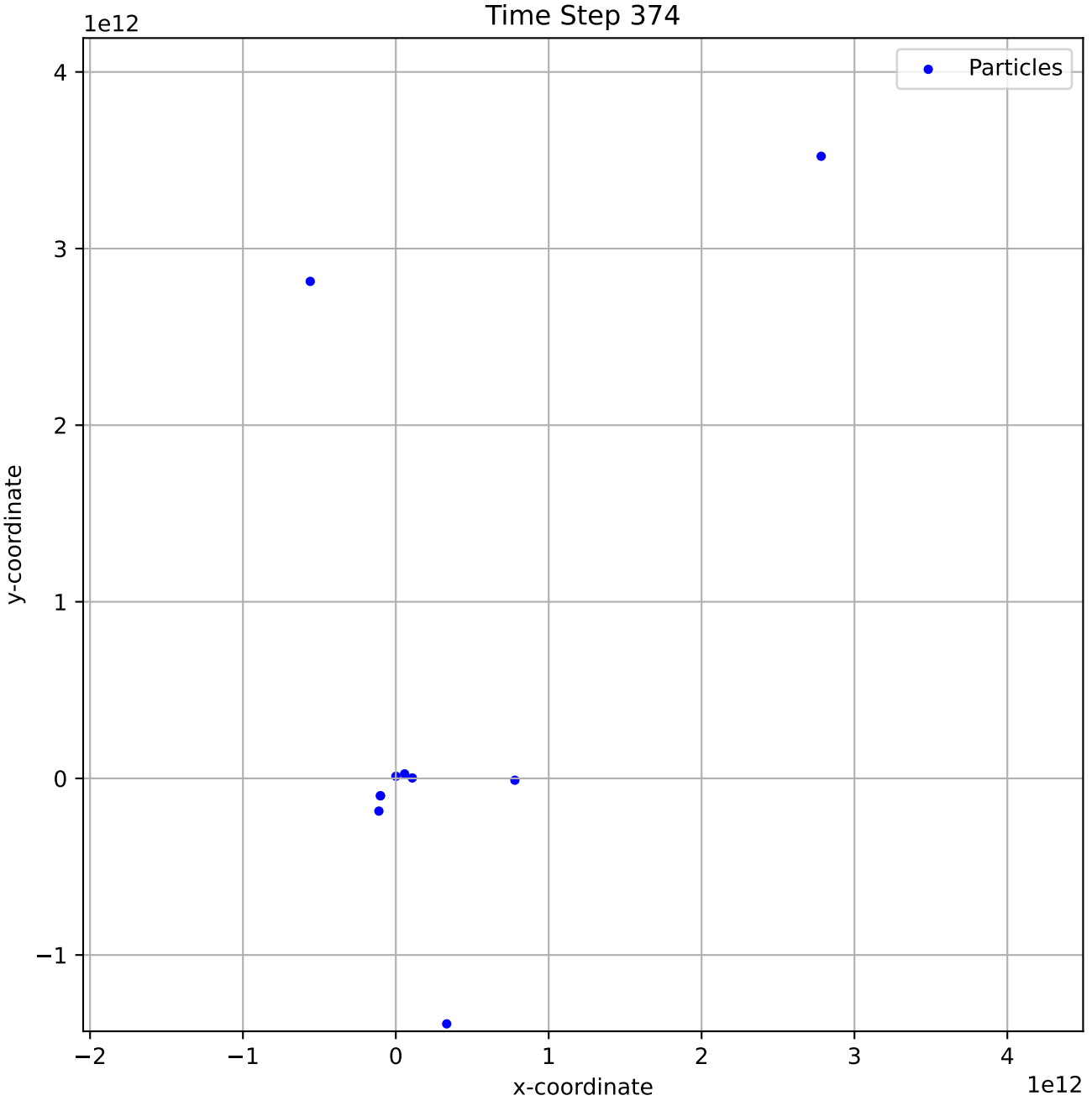

Time Step 369
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

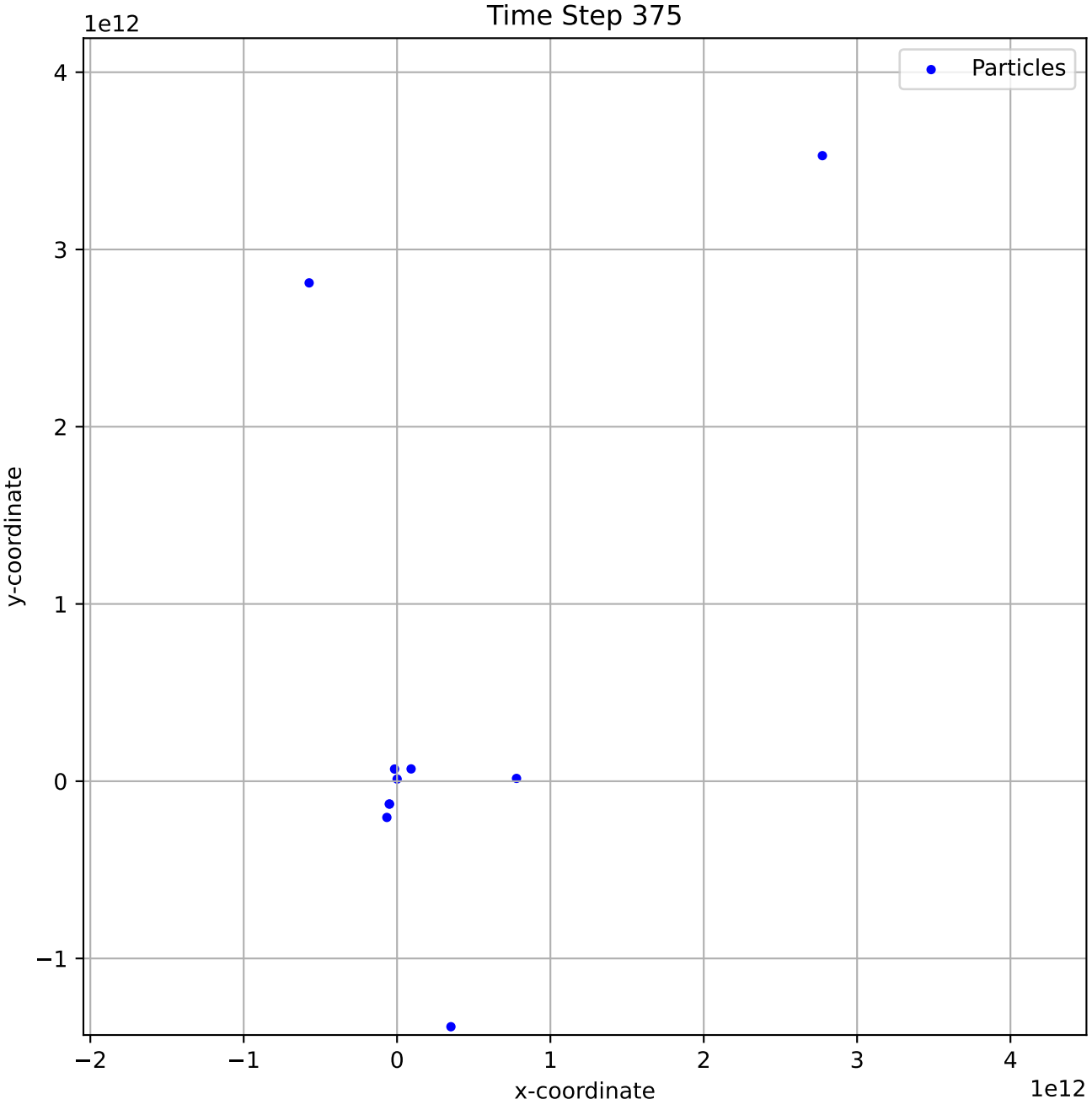

Time Step 370
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

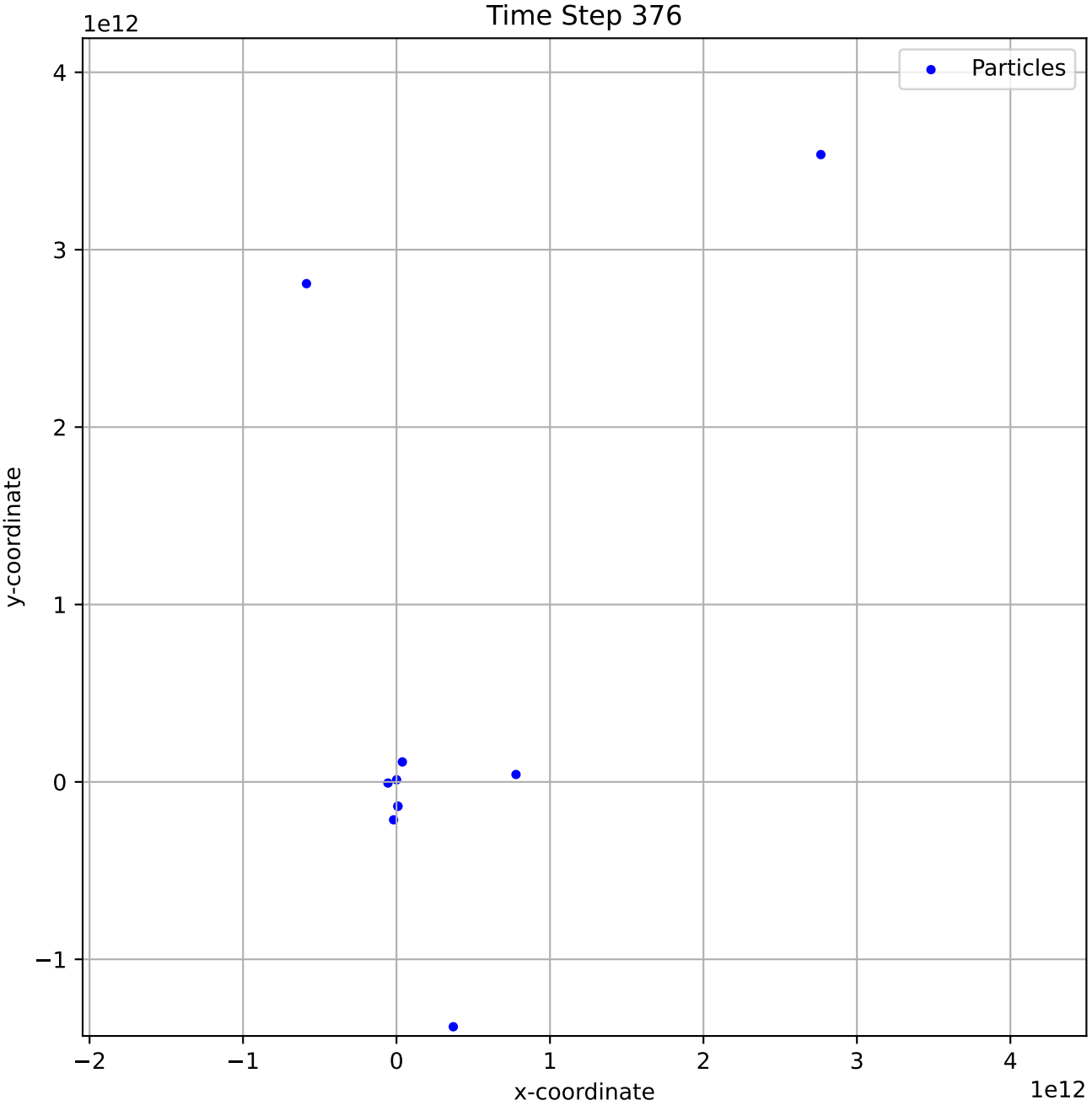

Time Step 371
1e12
Particles
4
3
2
1
0
−1
y-coordinate
−2
−1
0
1
2
3
4
x-coordinate
1e12

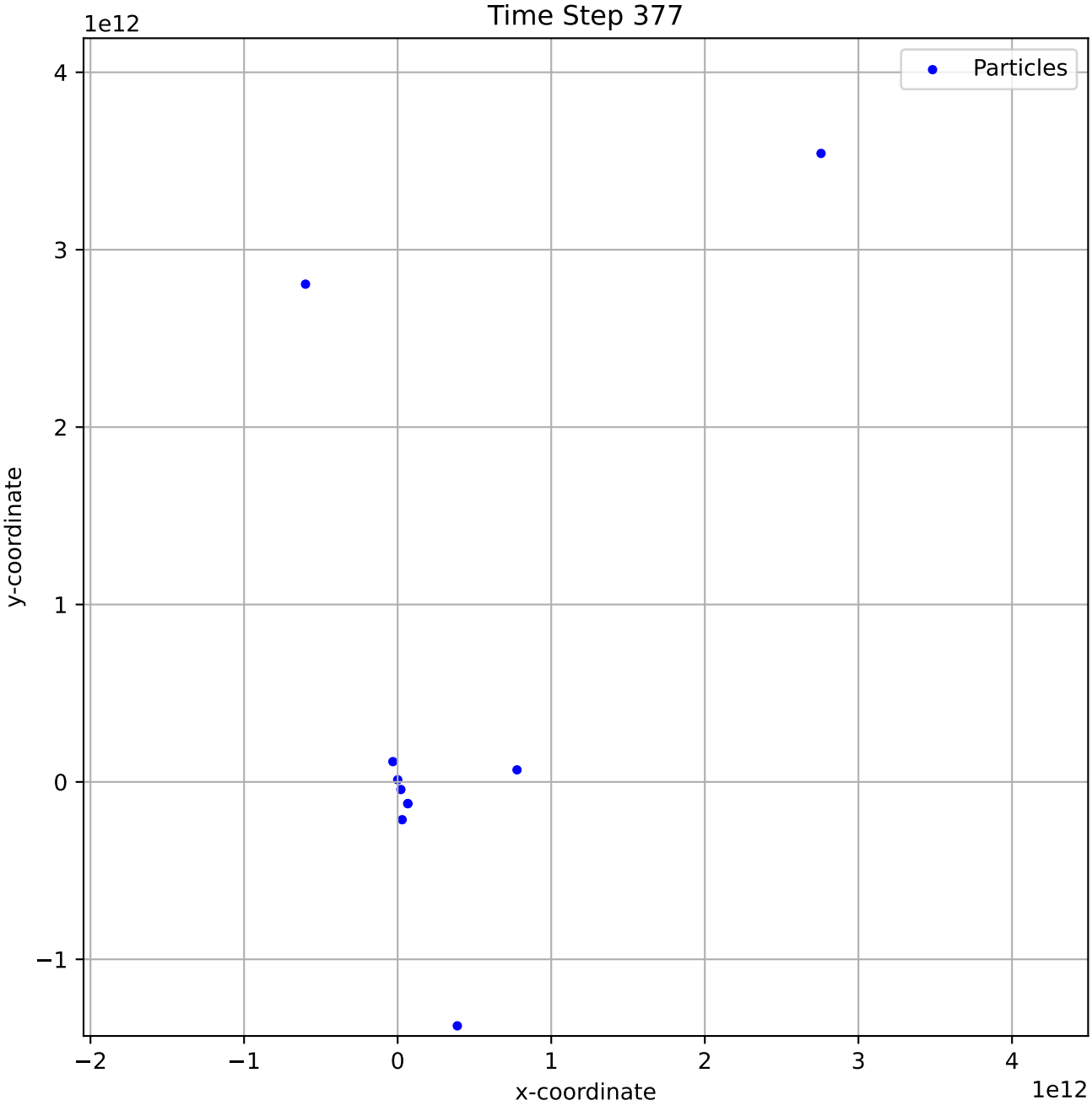

Time Step 372
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

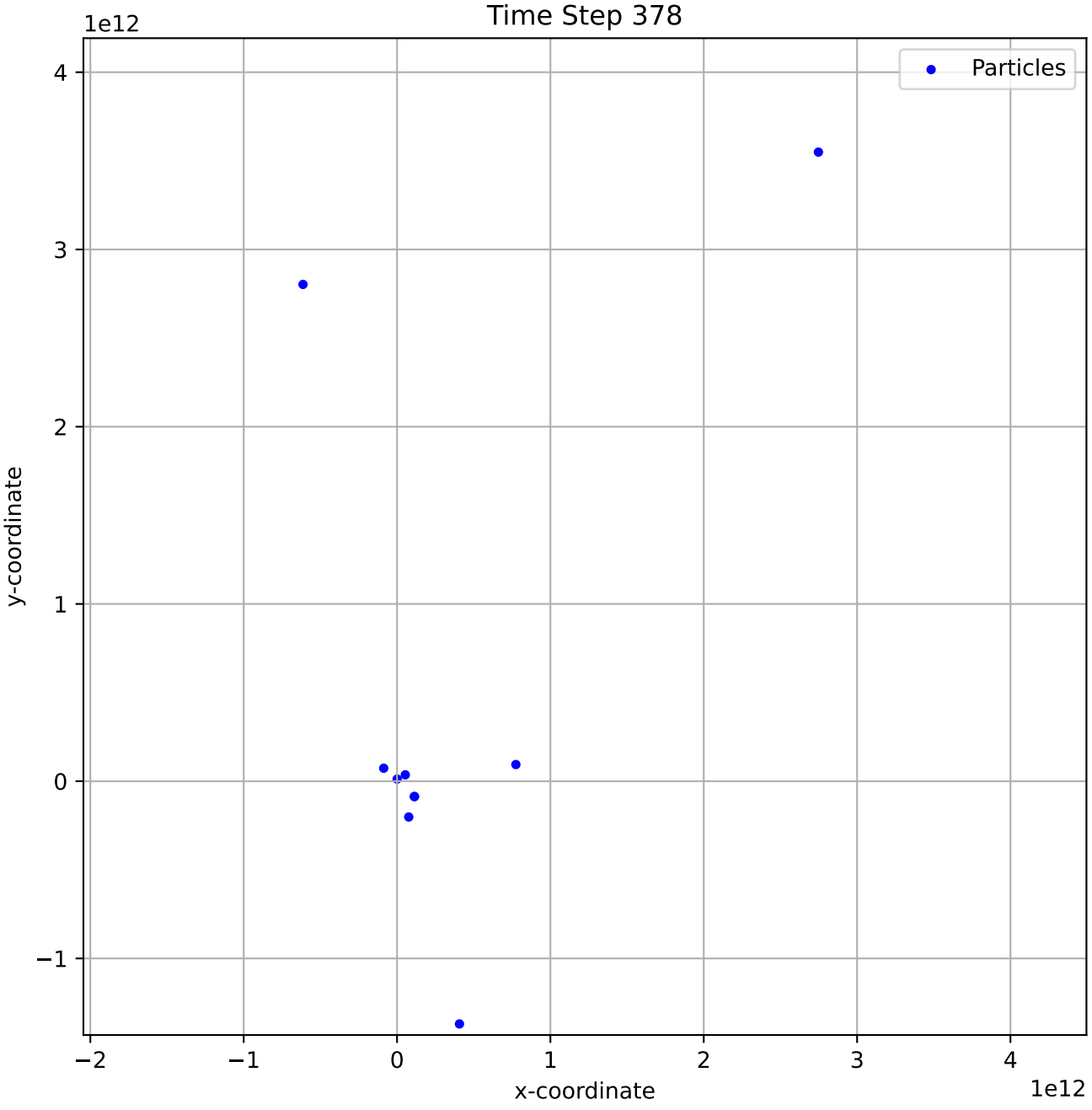

Time Step 373
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

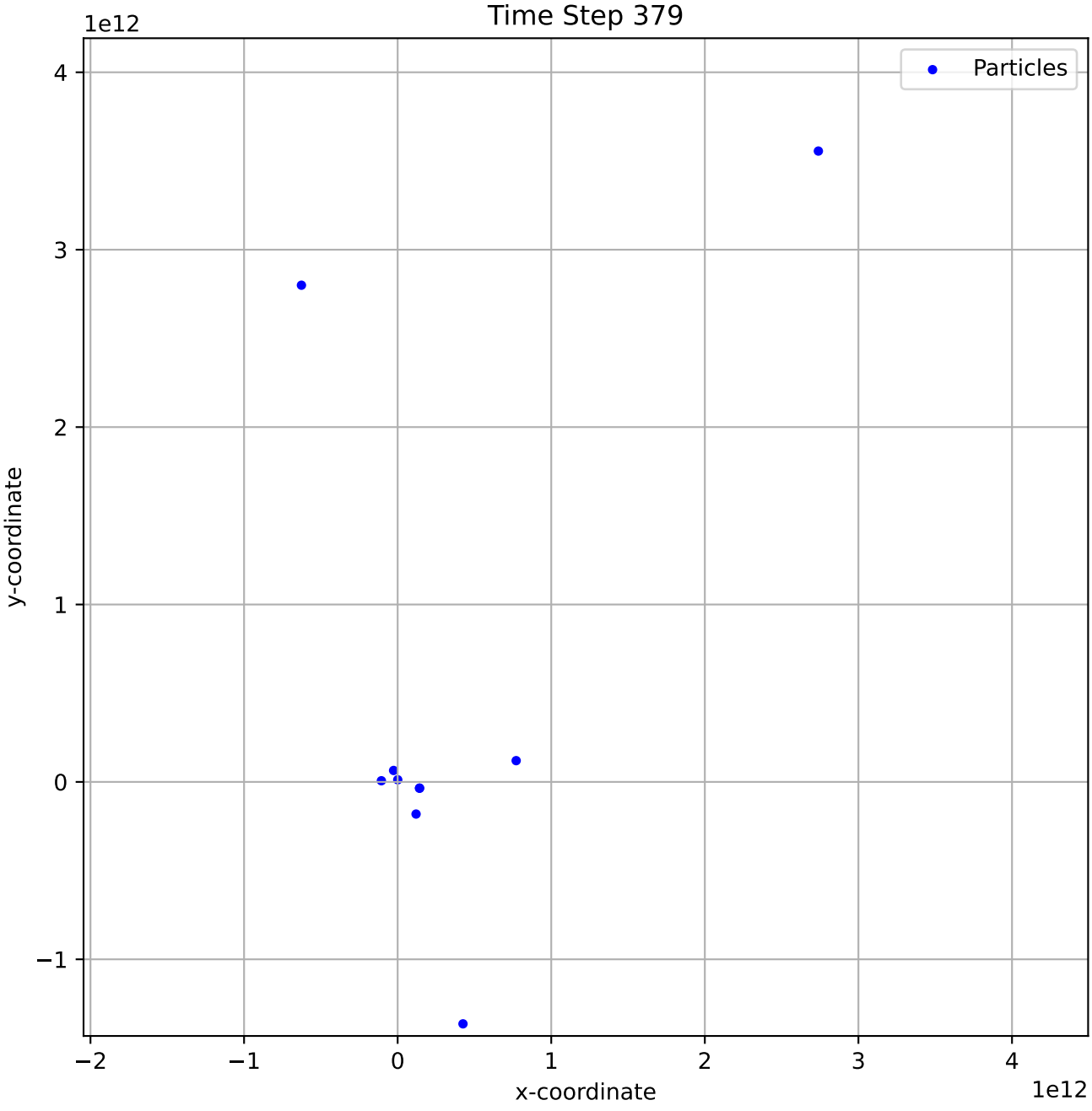

Time Step 374
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

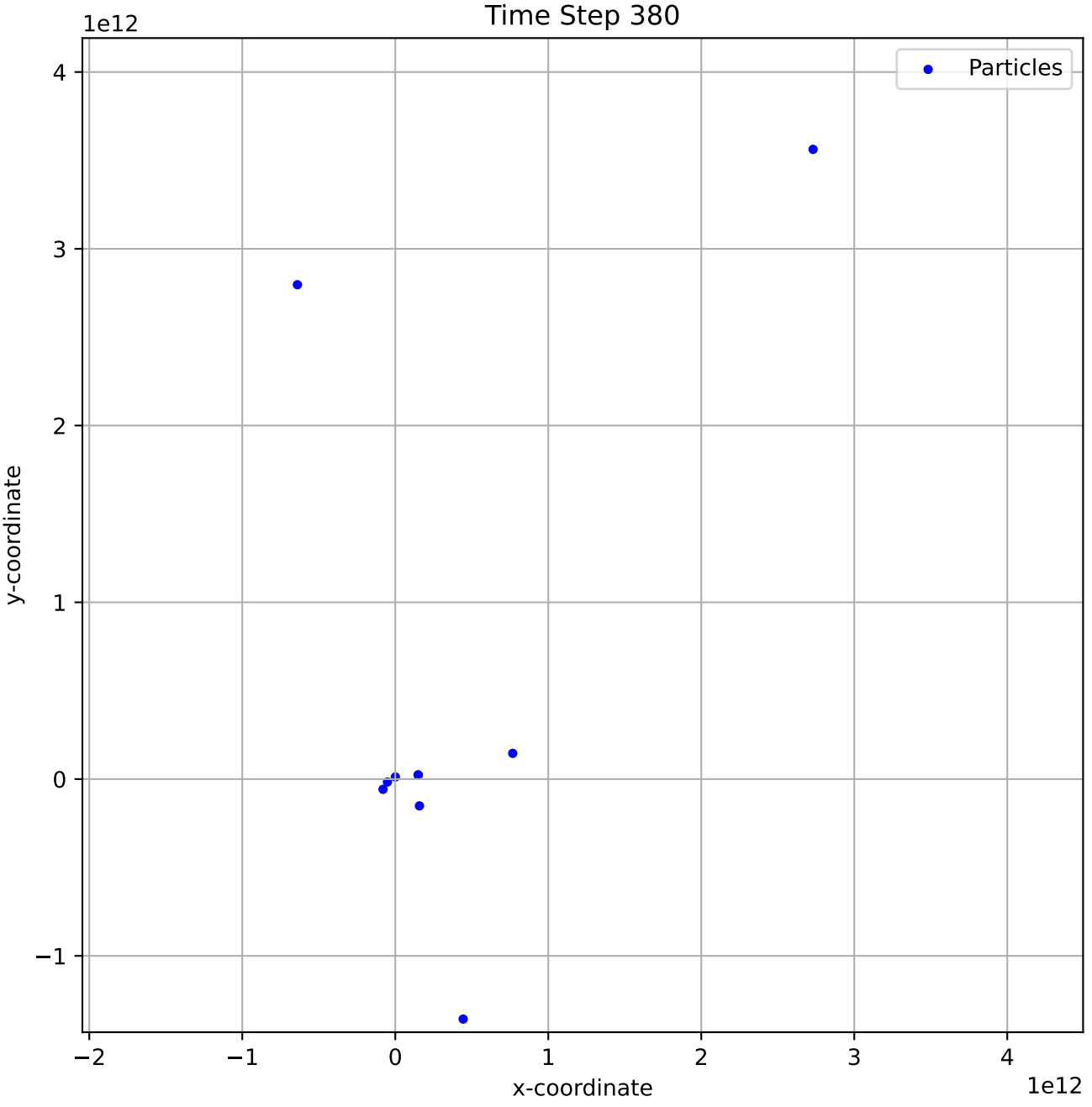

Time Step 375
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

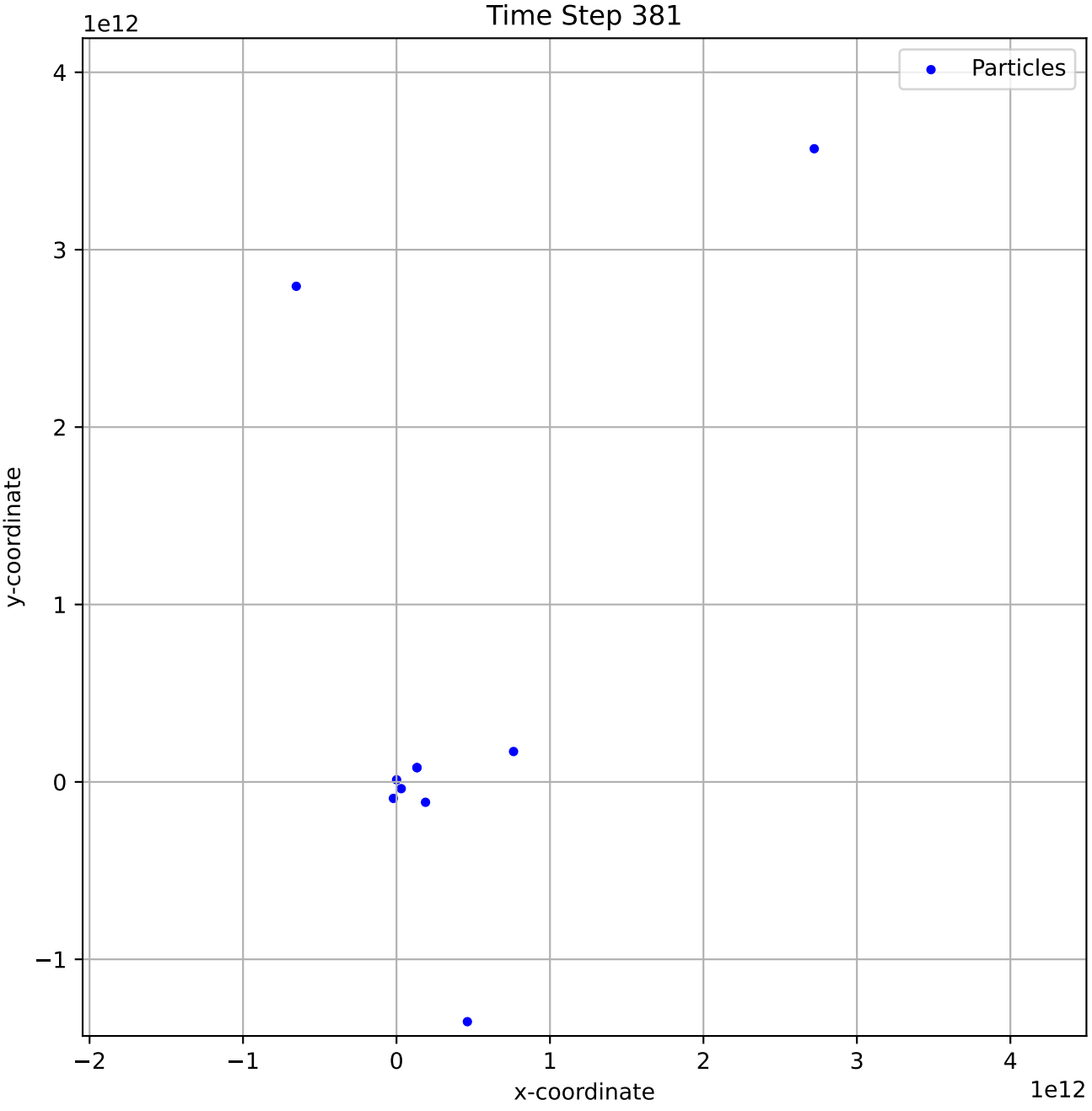

Time Step 376
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

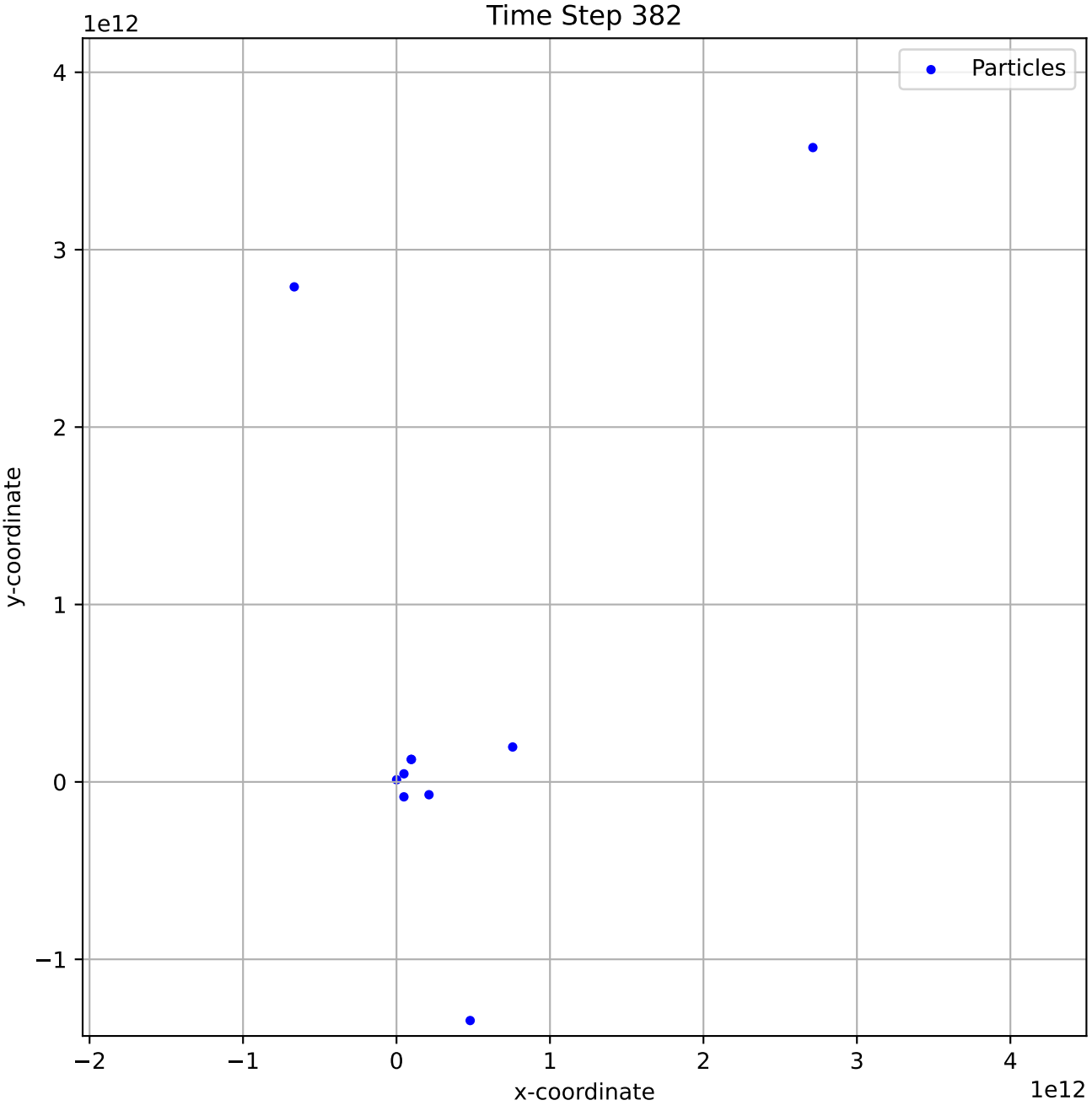

Time Step 377
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

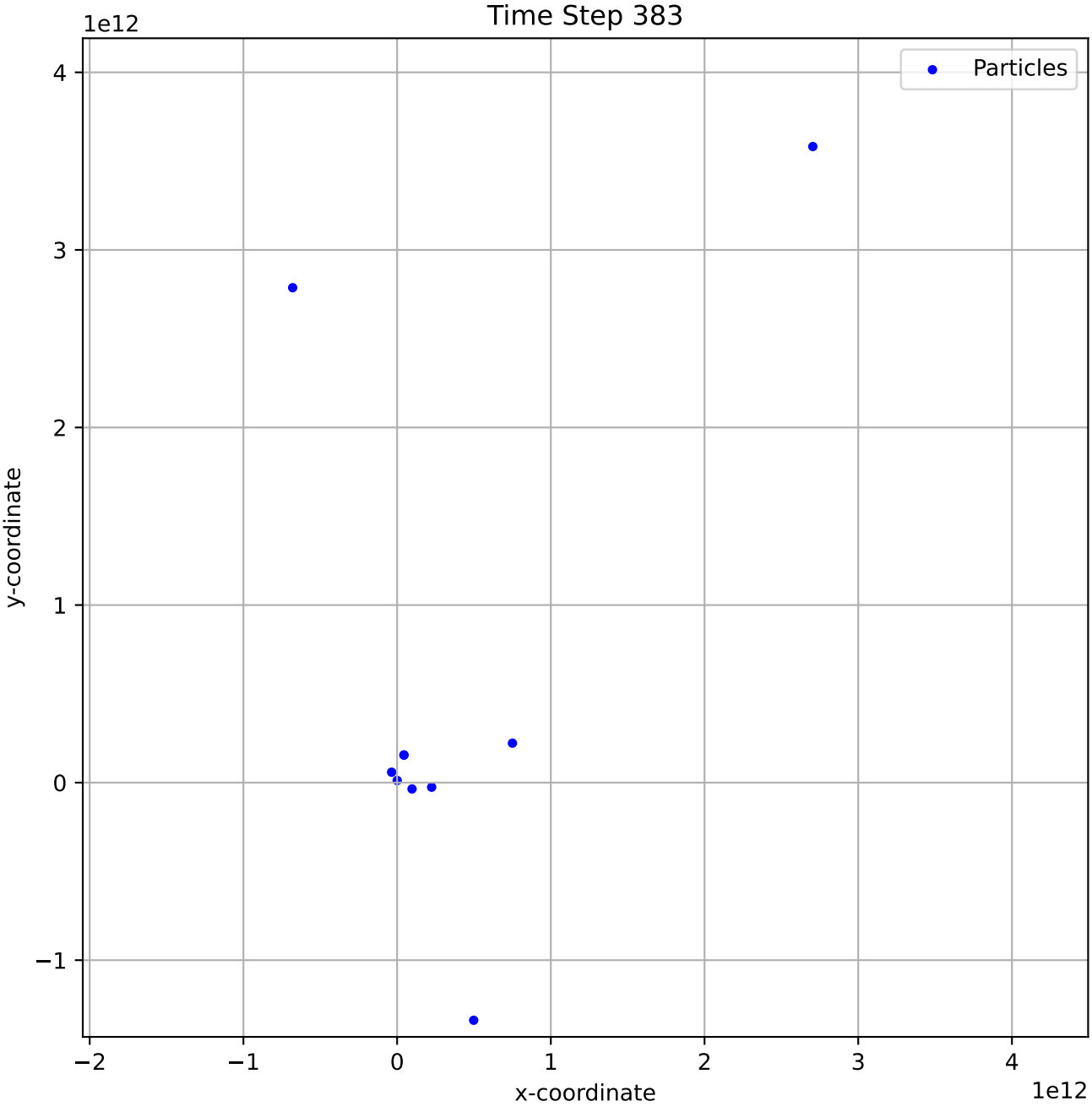

Time Step 378
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

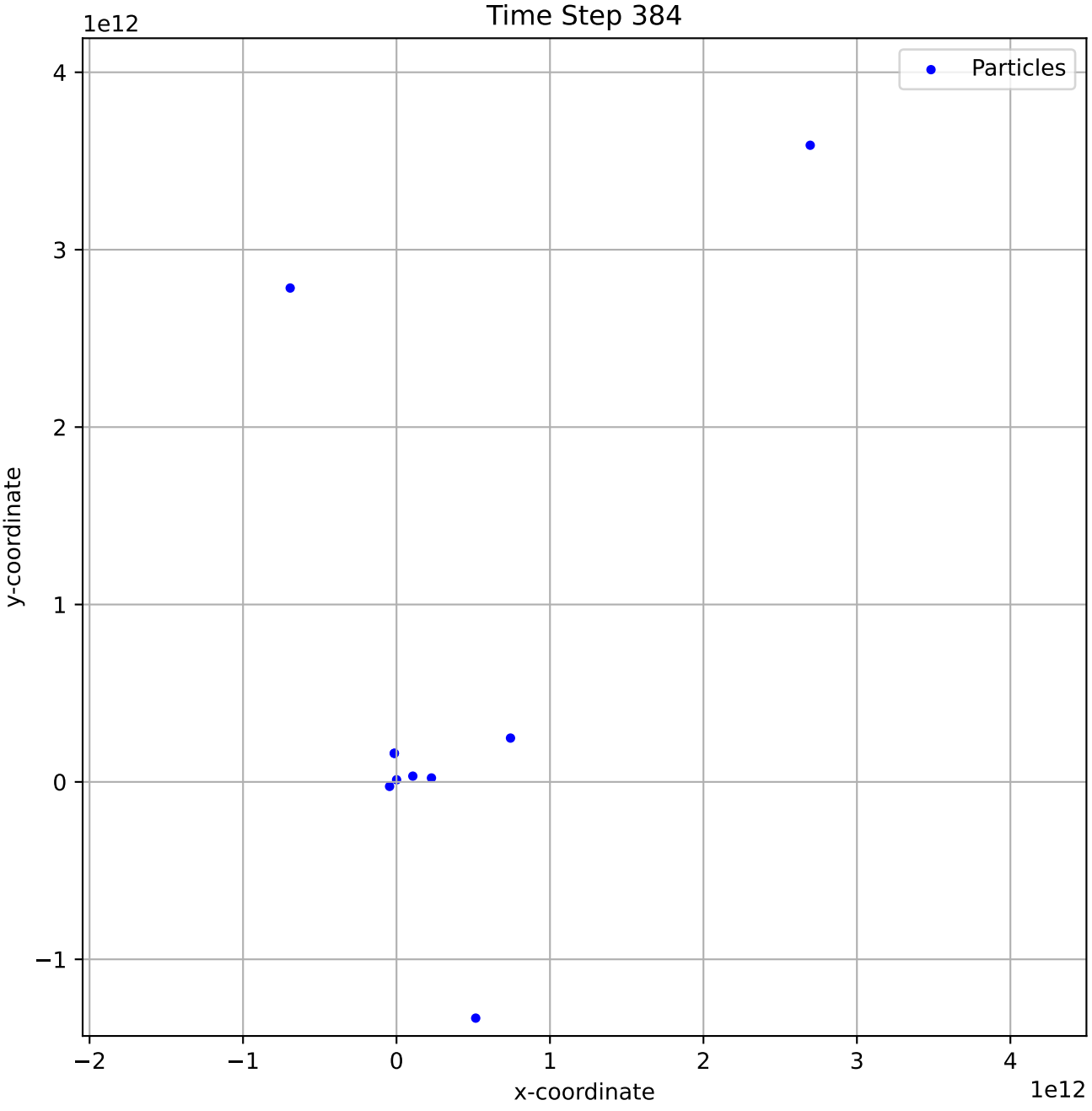

Time Step 379
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

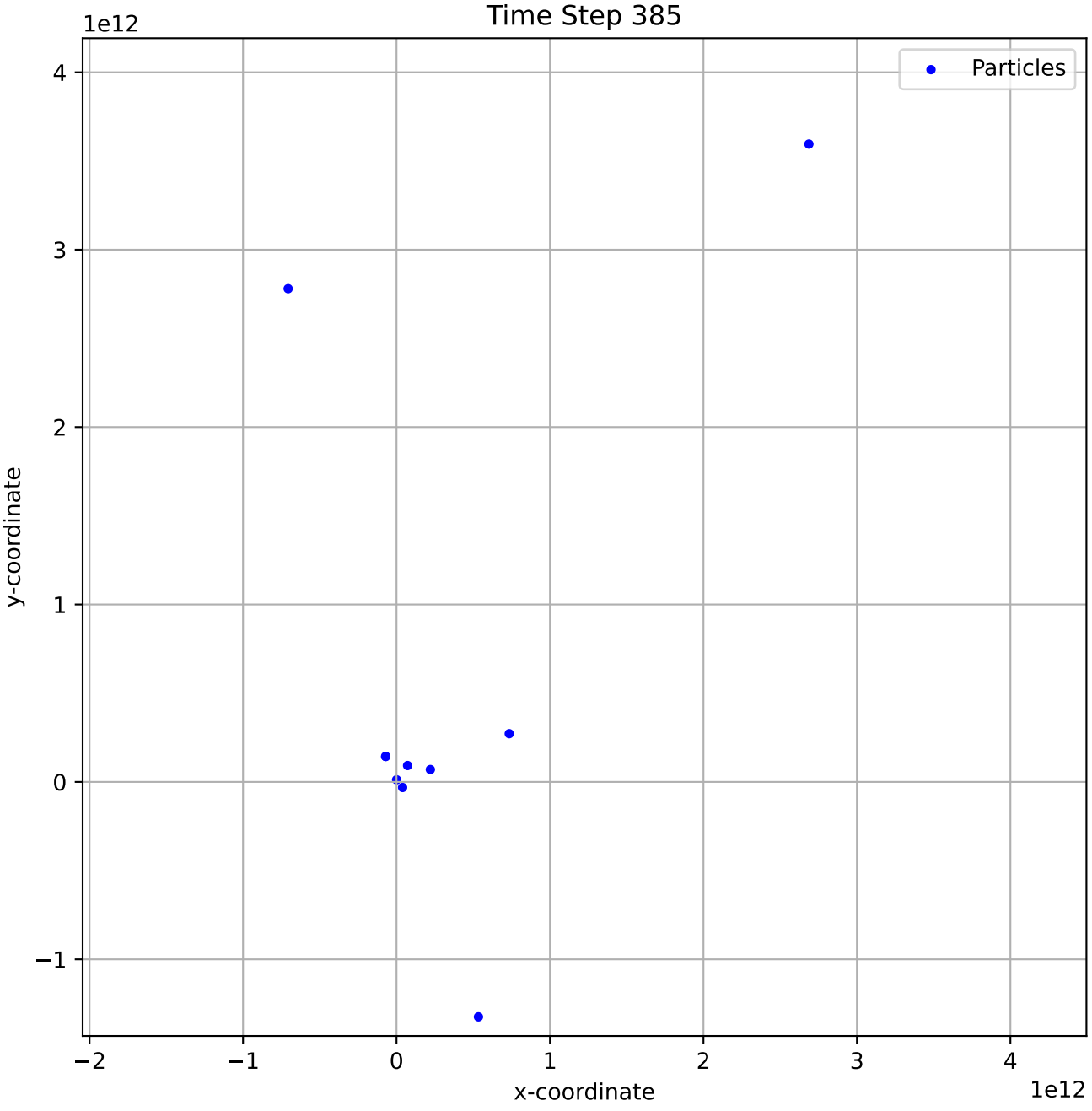

Time Step 380
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

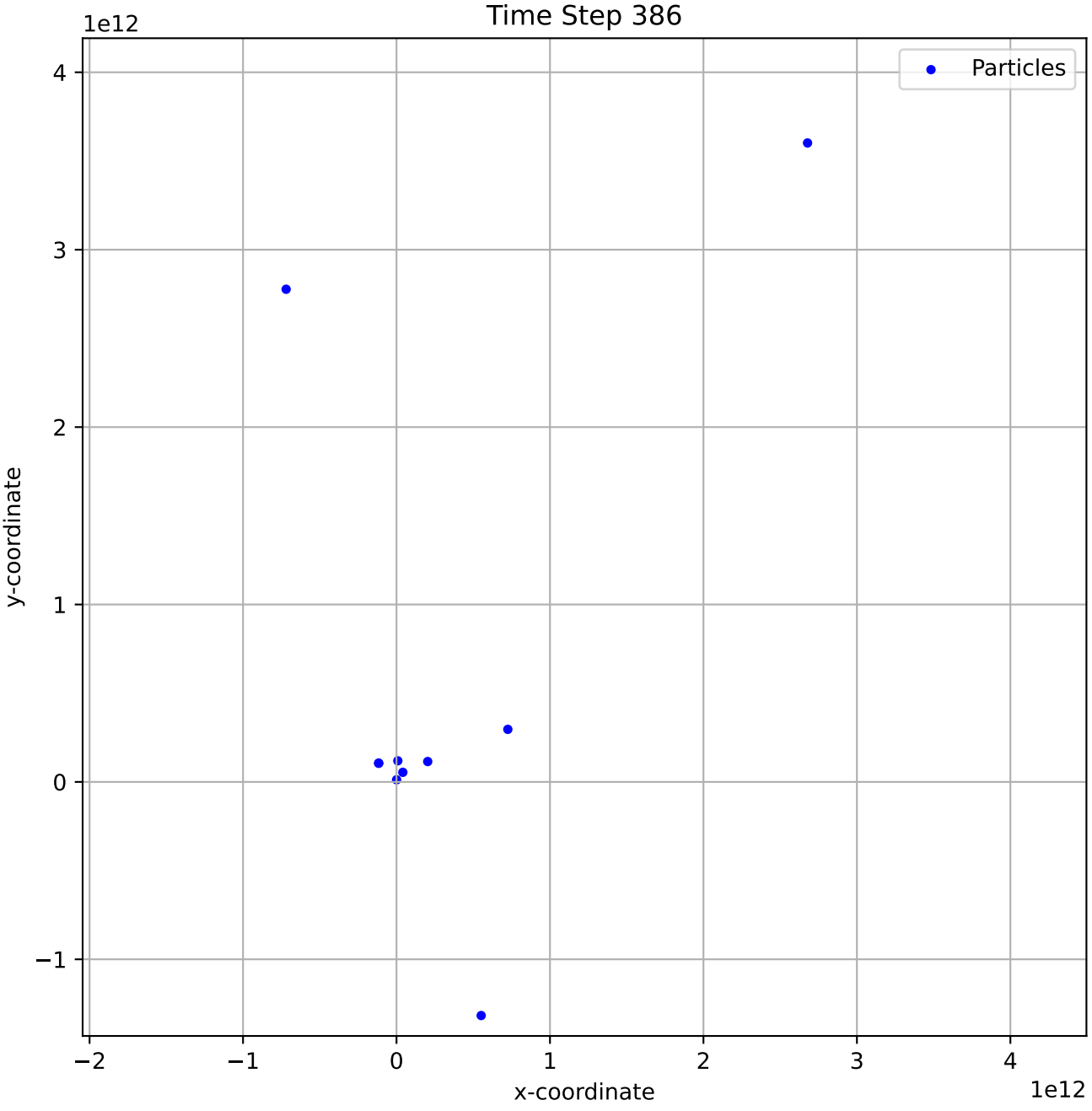

Time Step 381
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

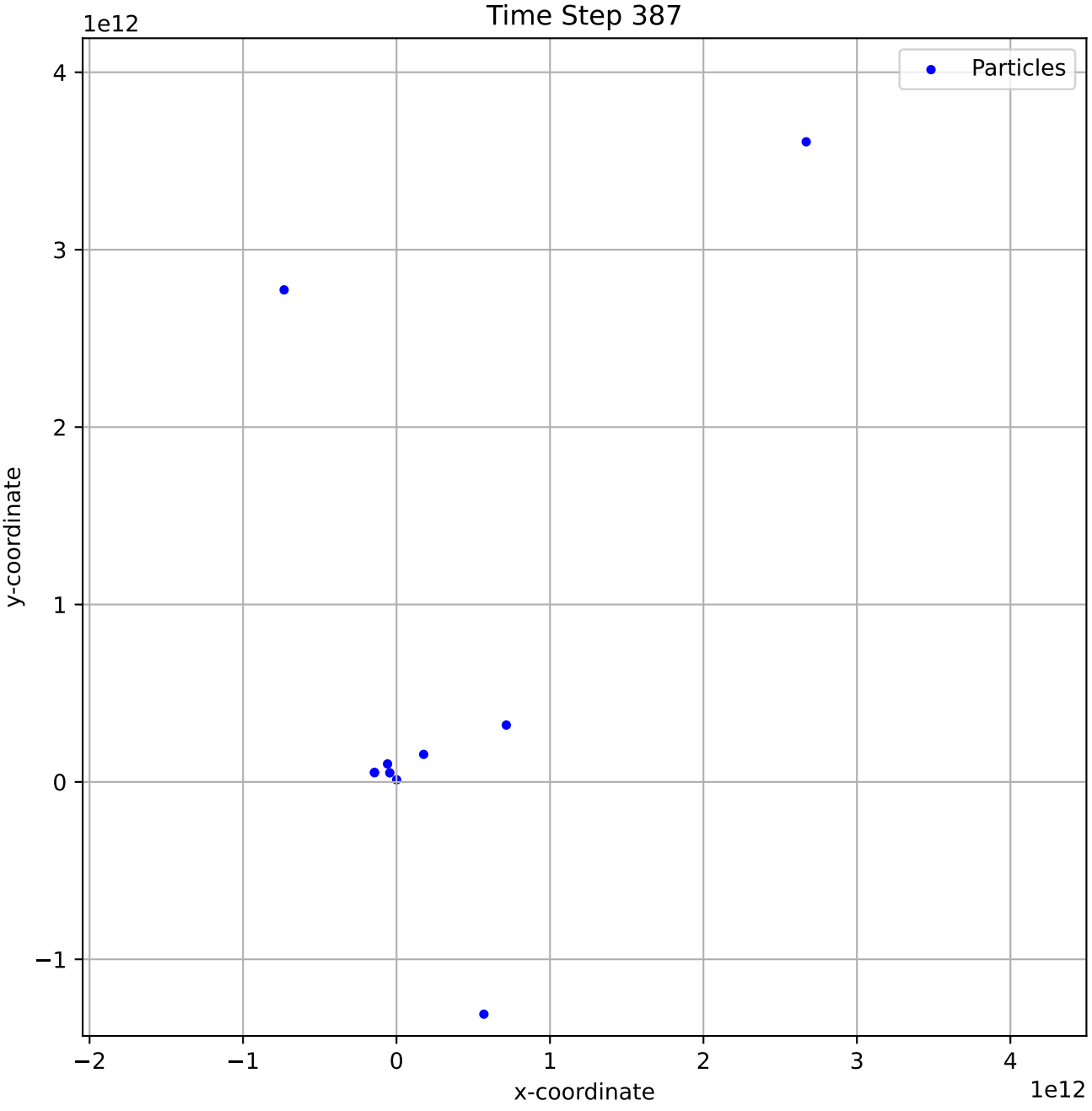

Time Step 382
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

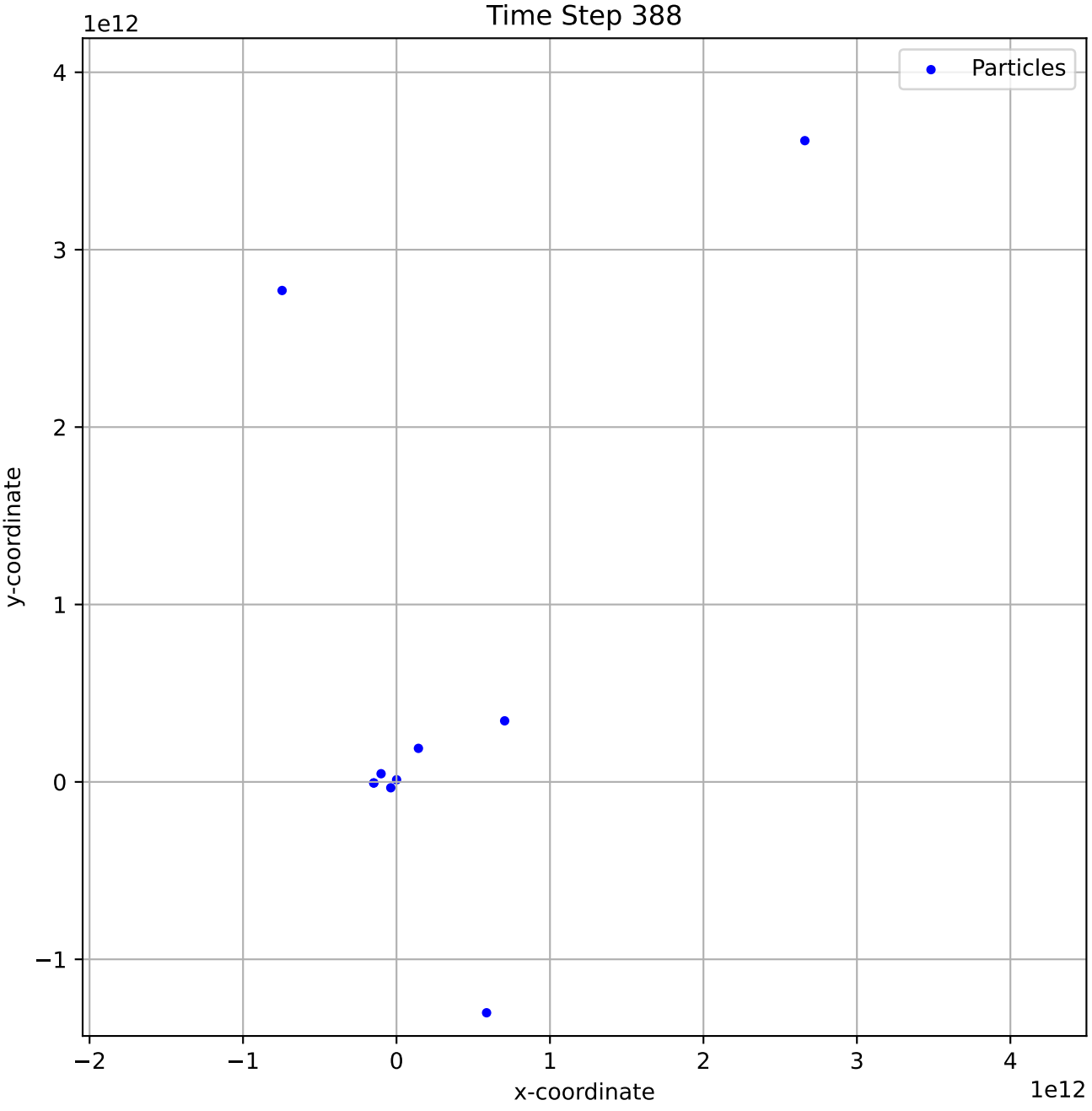

Time Step 383
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

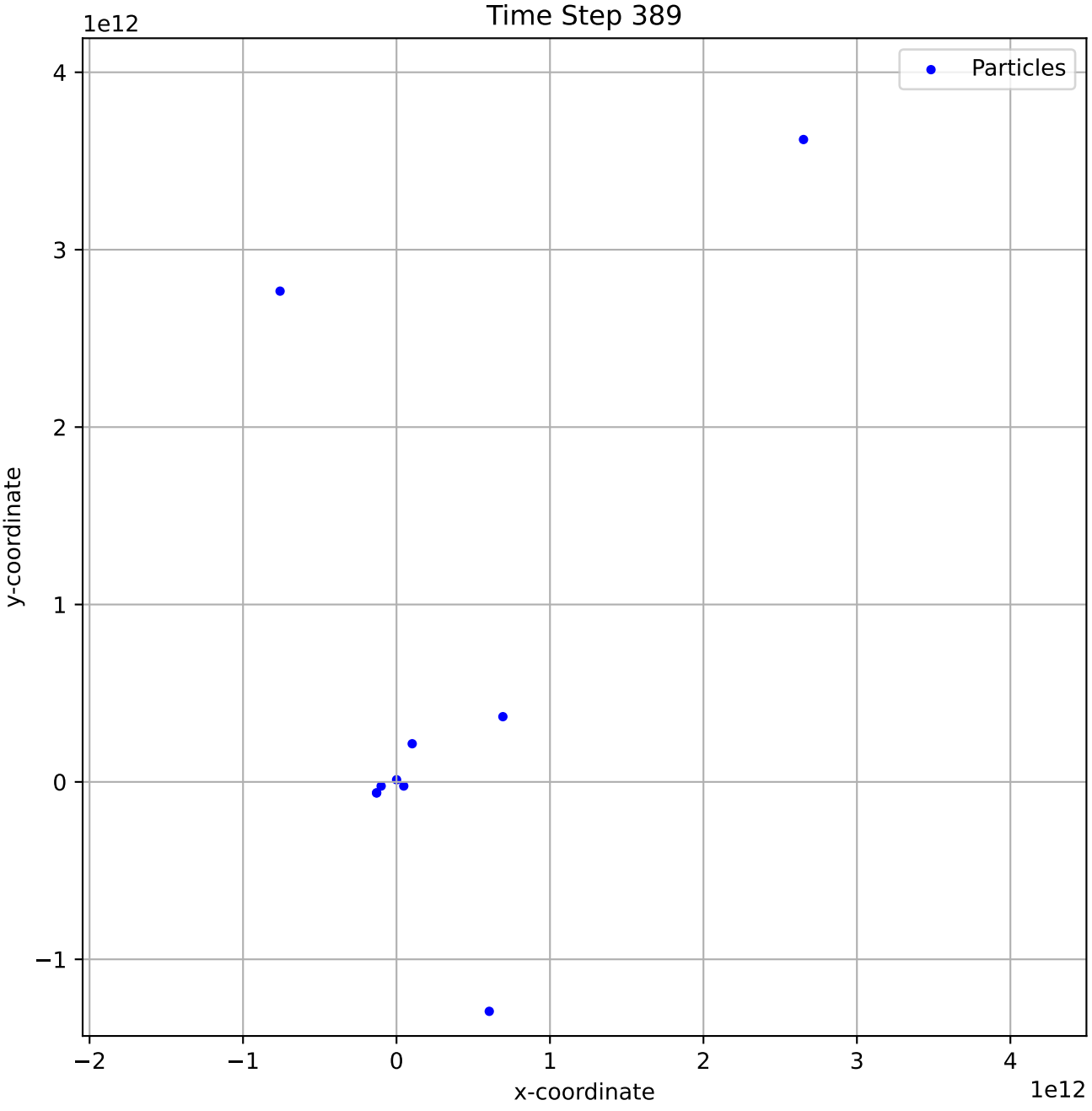

Time Step 384
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

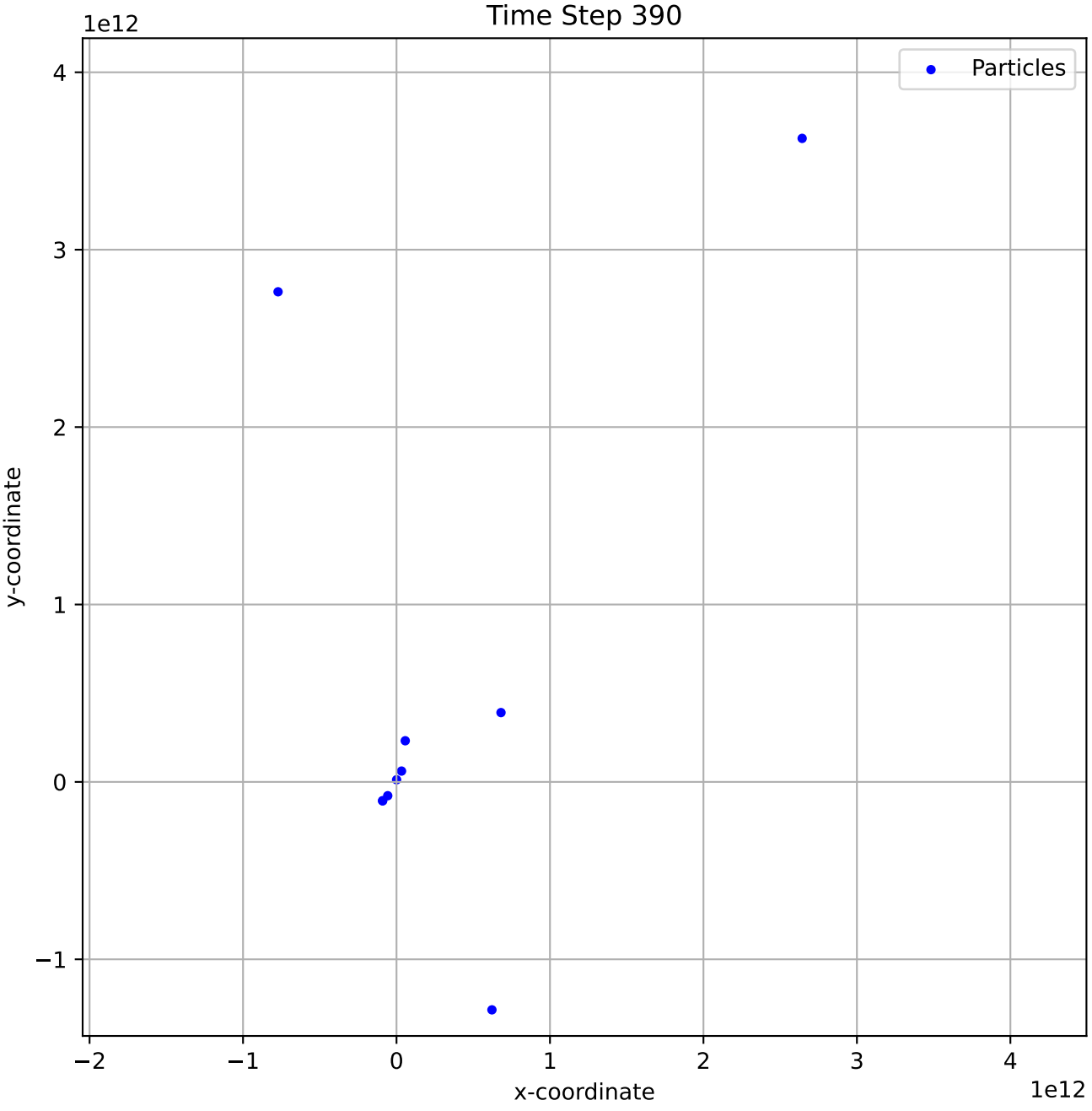

Time Step 385
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

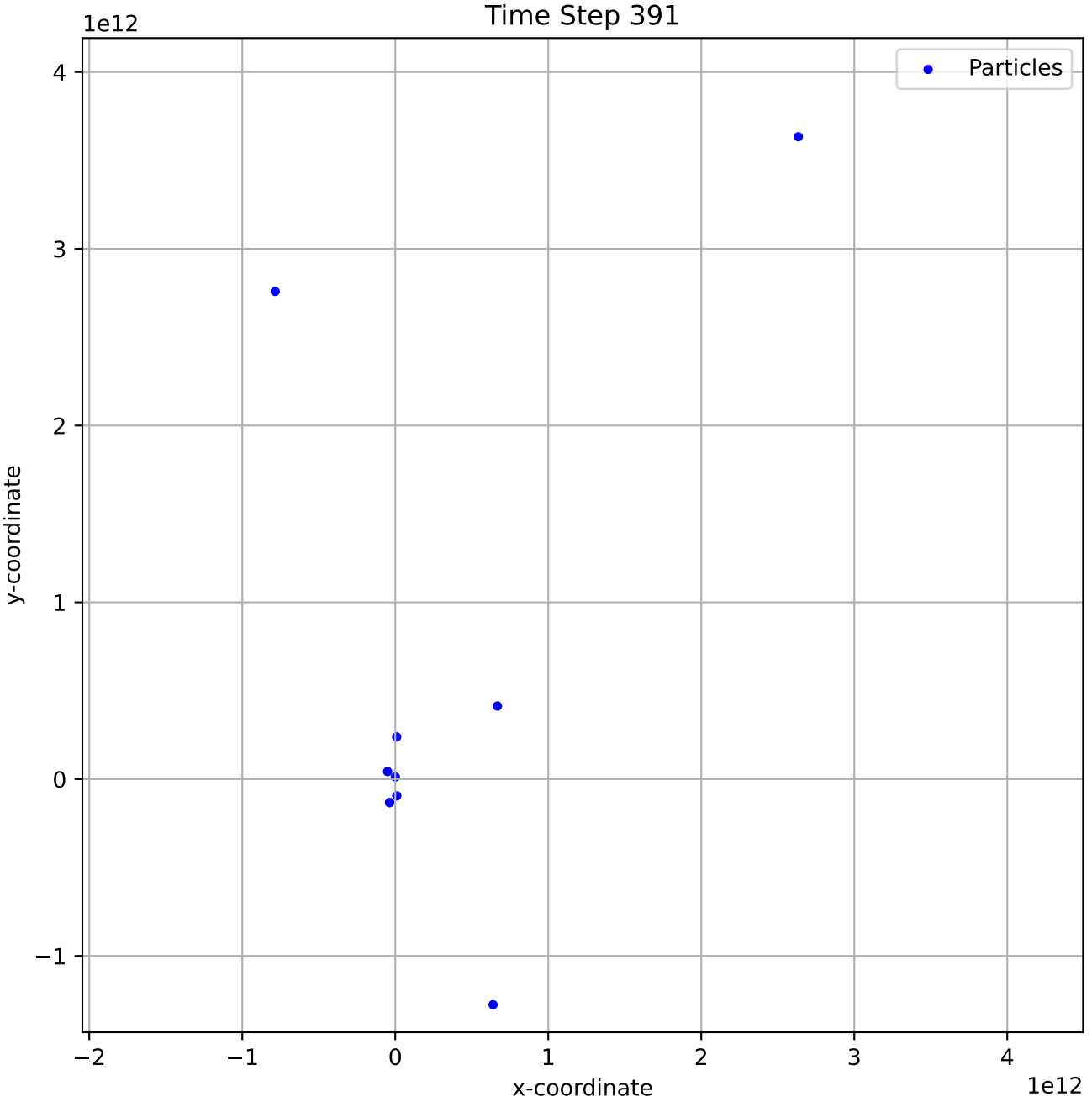

Time Step 386
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

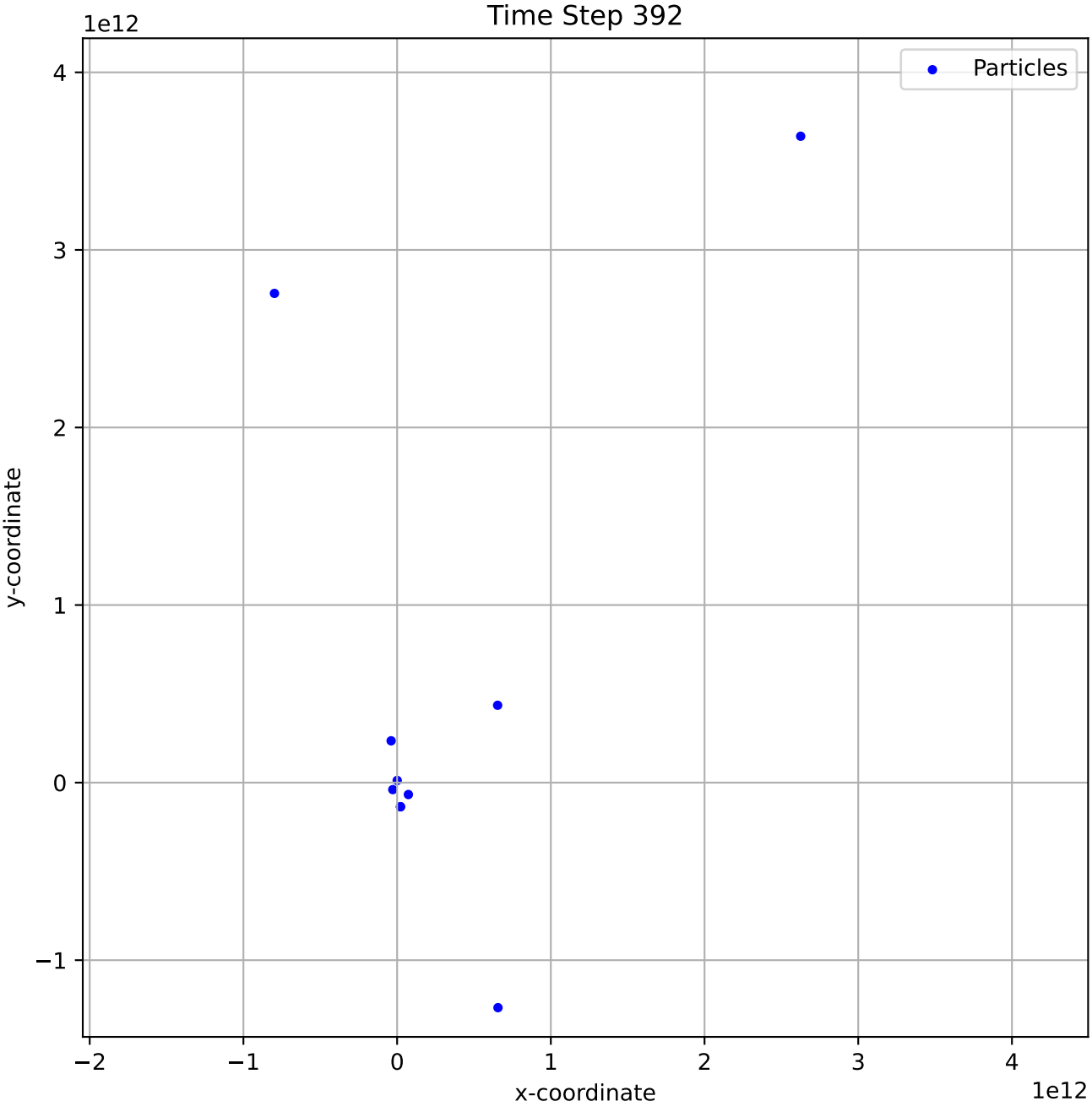

Time Step 387
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

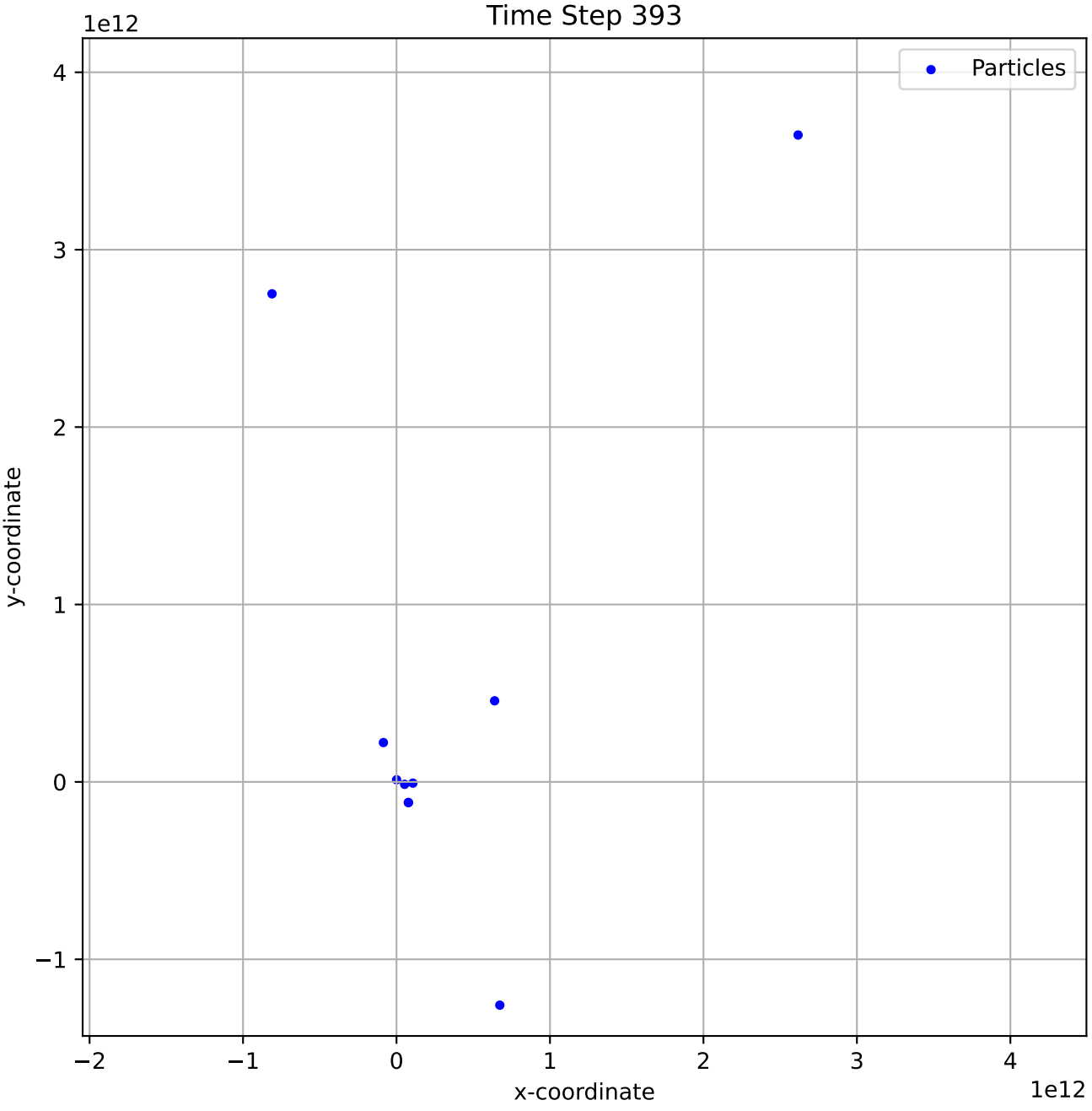

Time Step 388
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

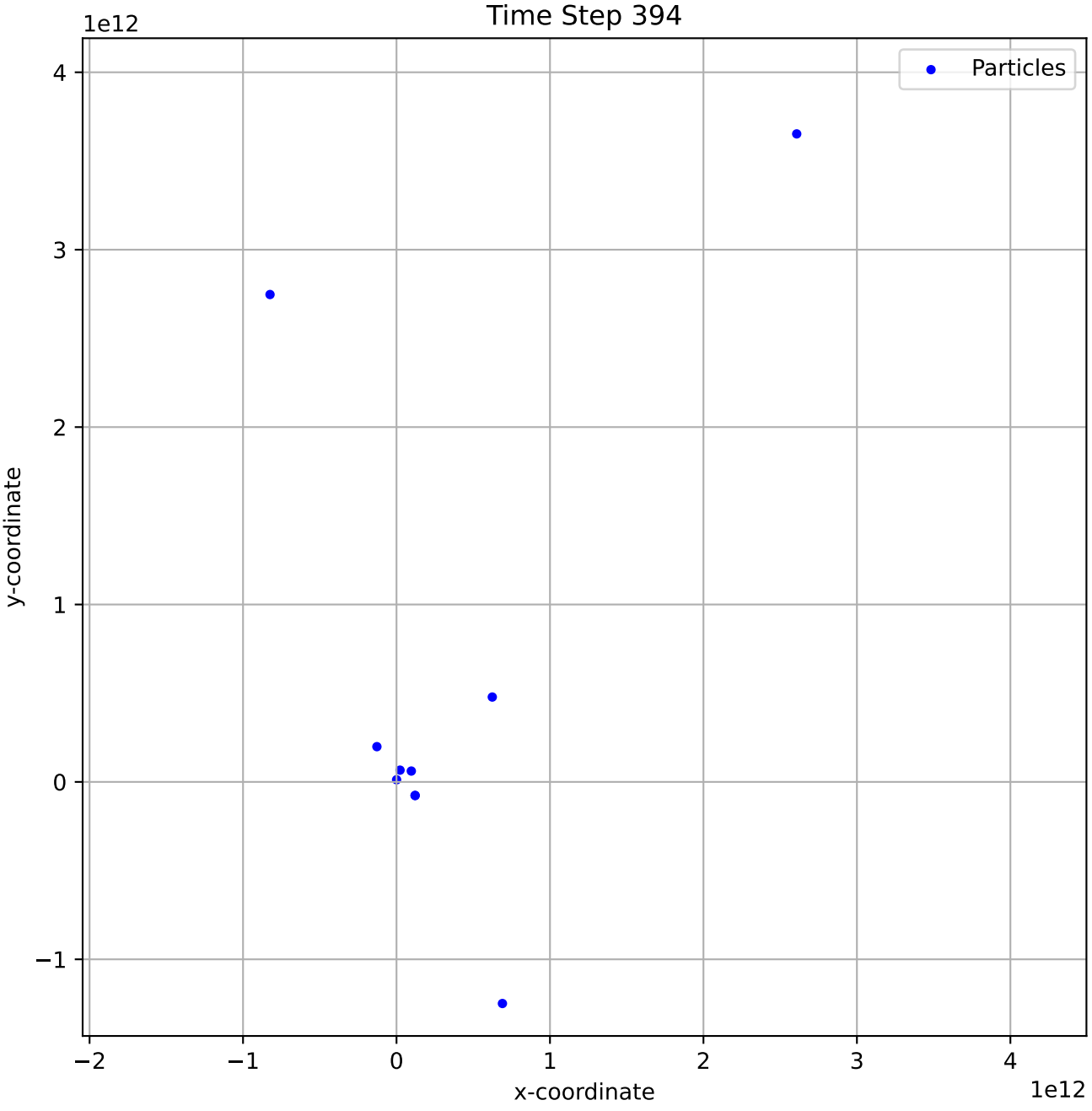

Time Step 389
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

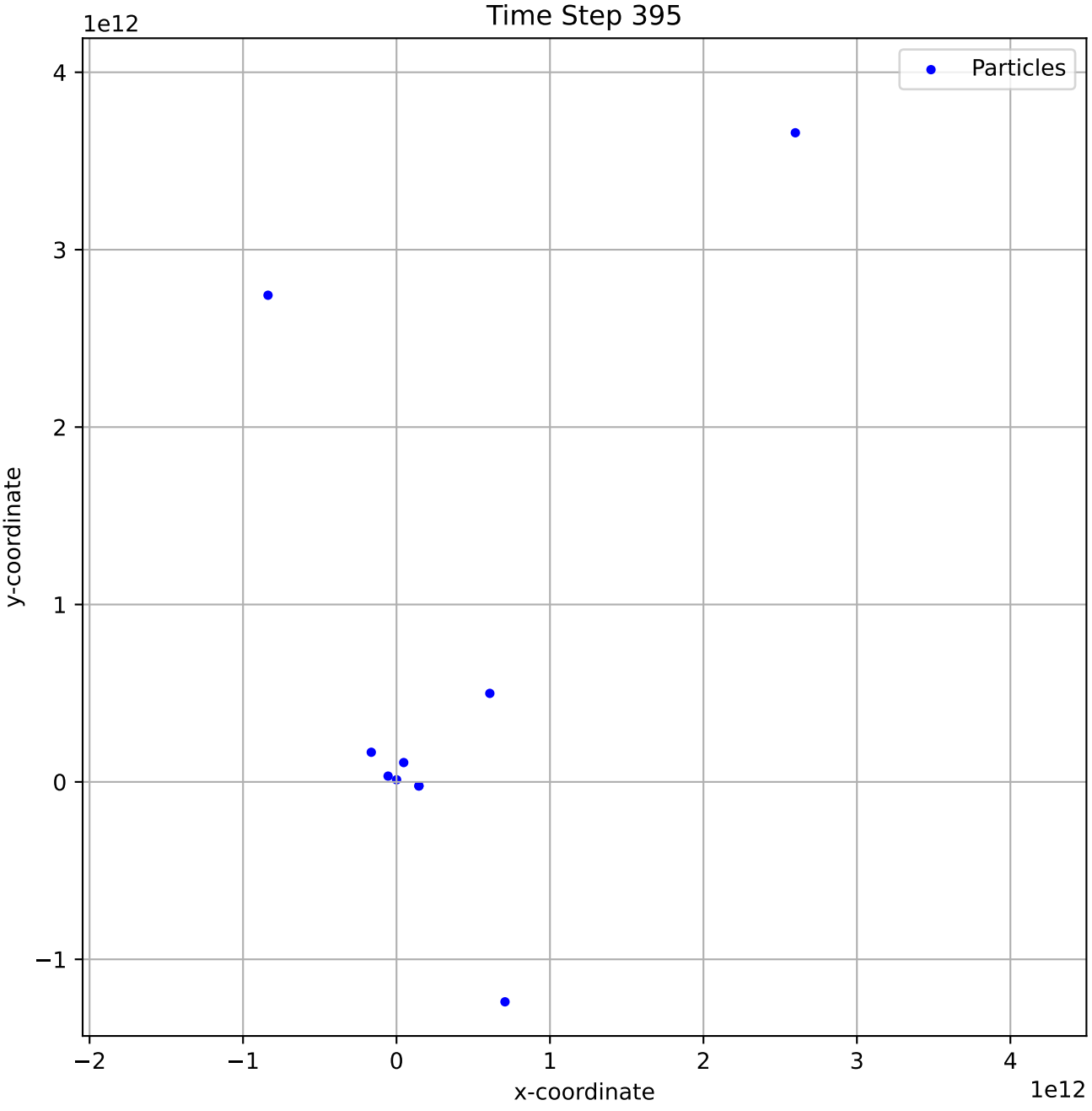

Time Step 390
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

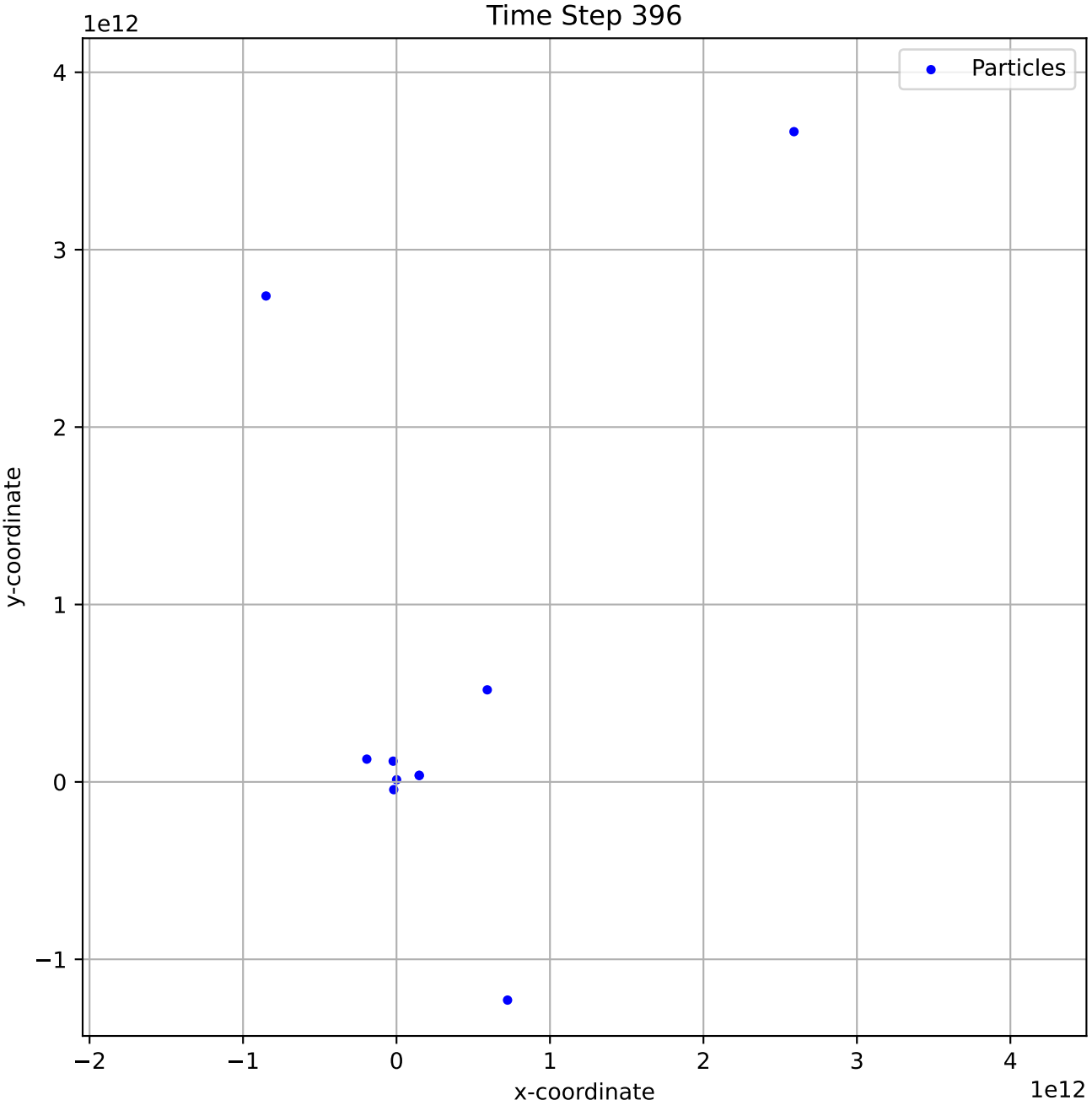

Time Step 391
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

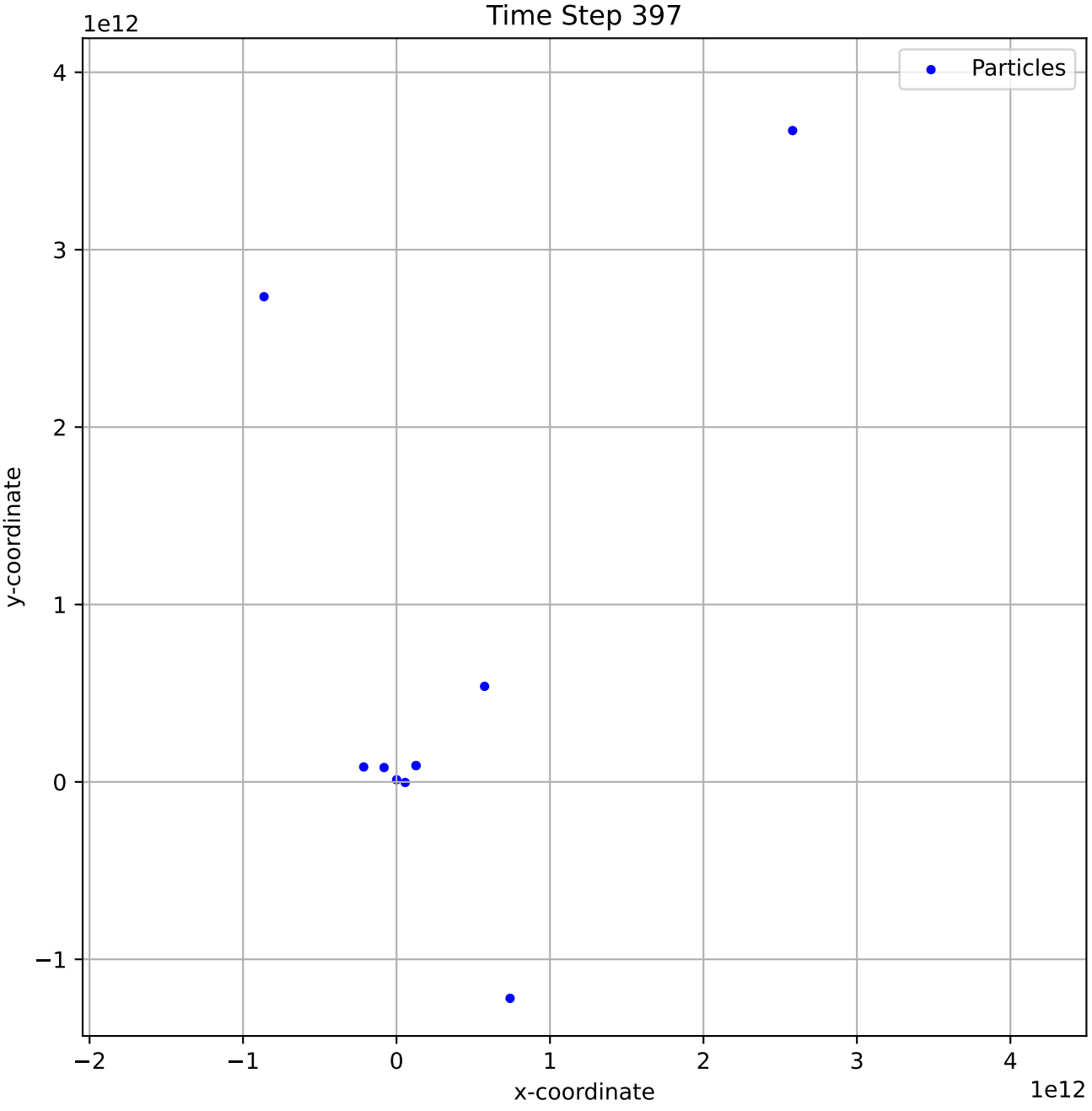

Time Step 392
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

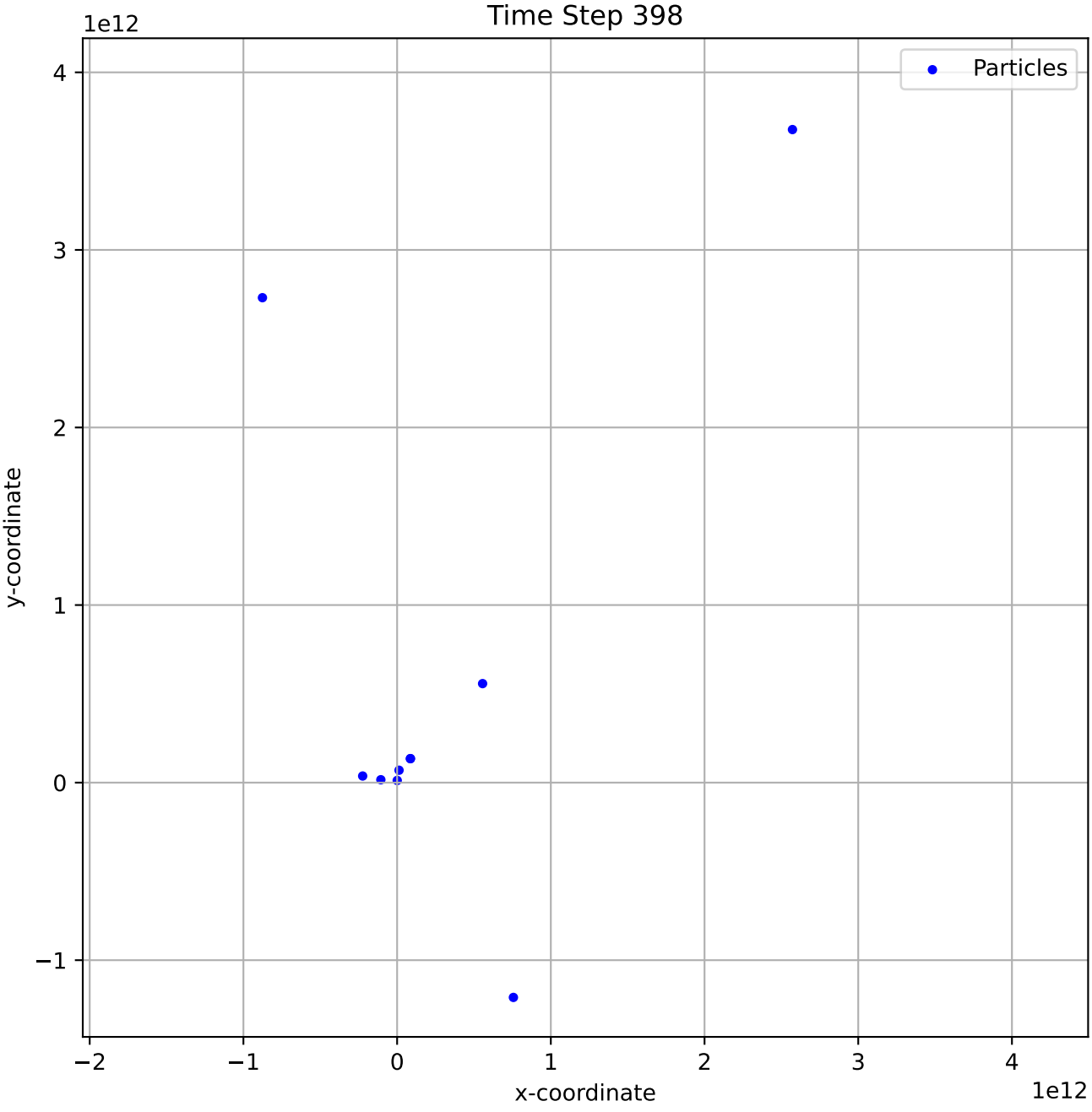

Time Step 393
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

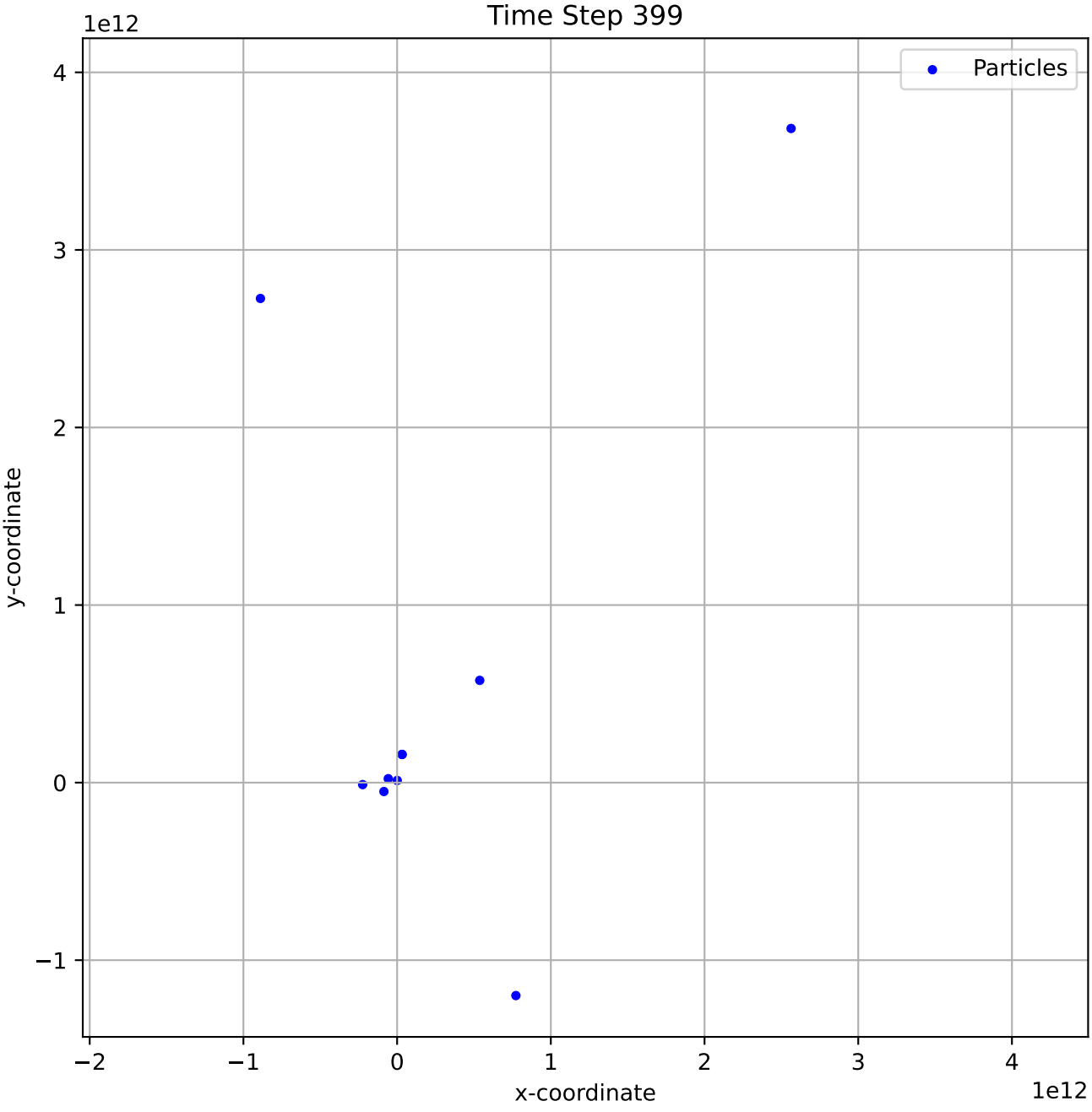

Time Step 394
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

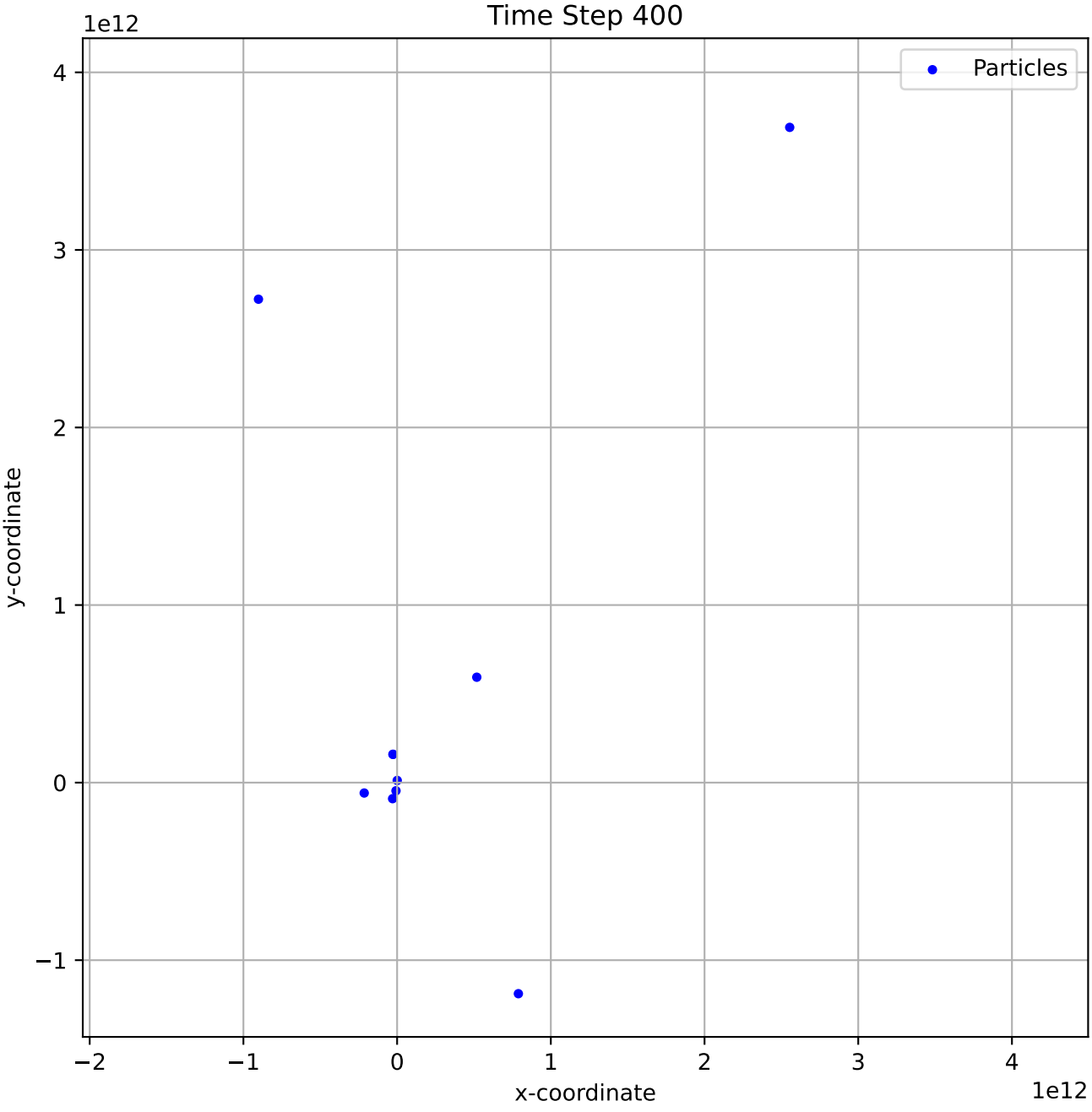

Time Step 395
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

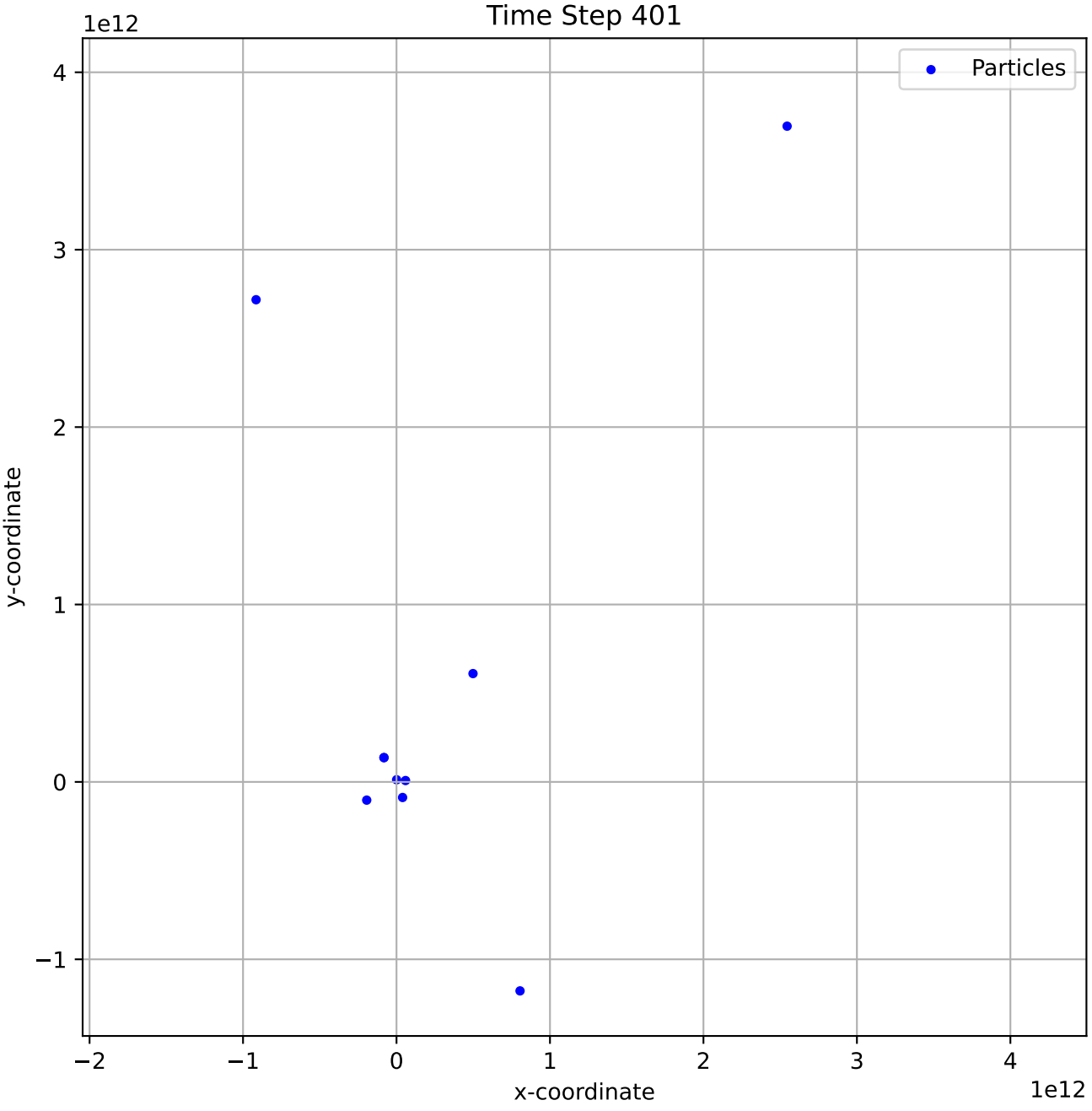

Time Step 396
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

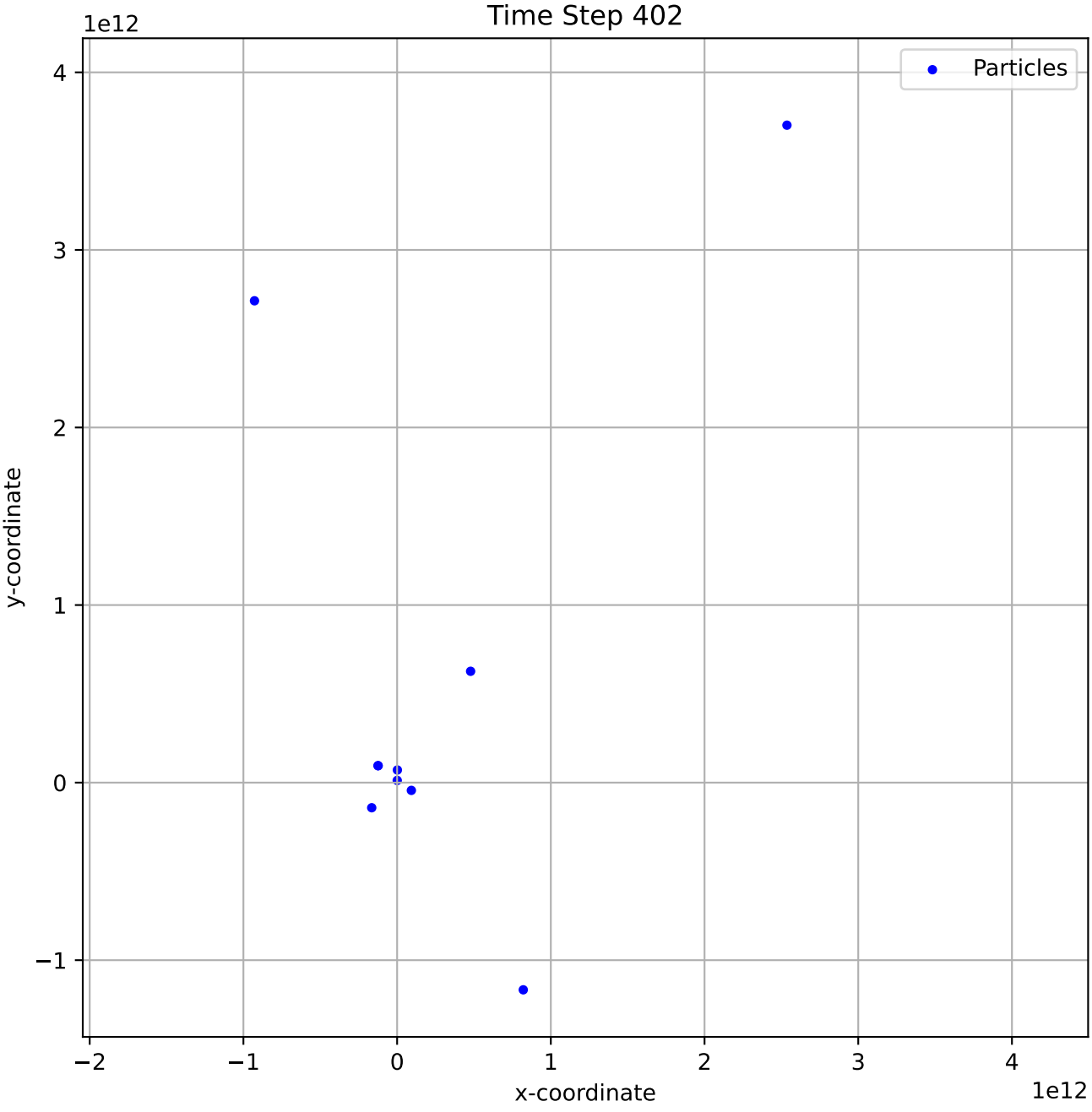

Time Step 397
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

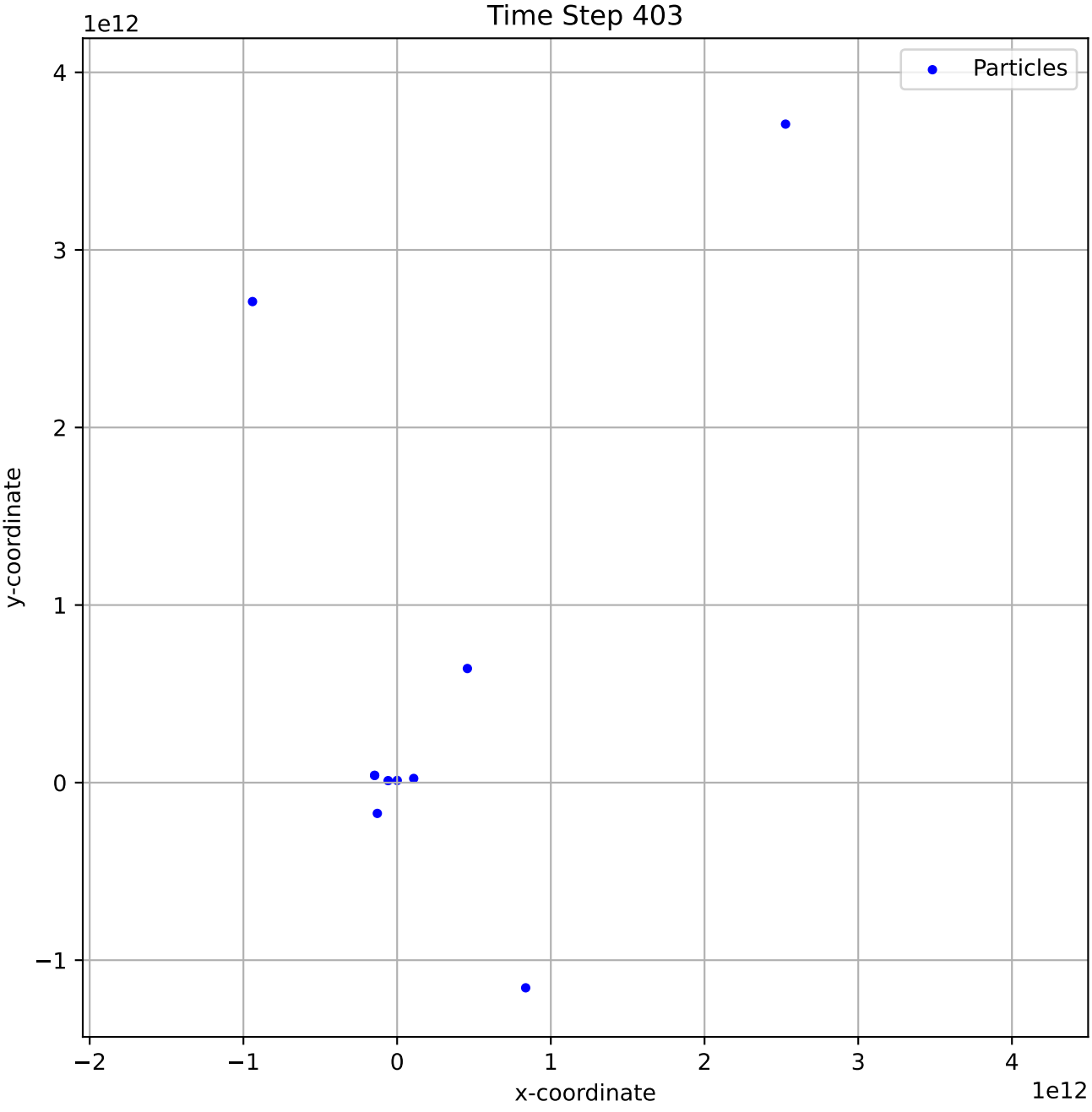

Time Step 398
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

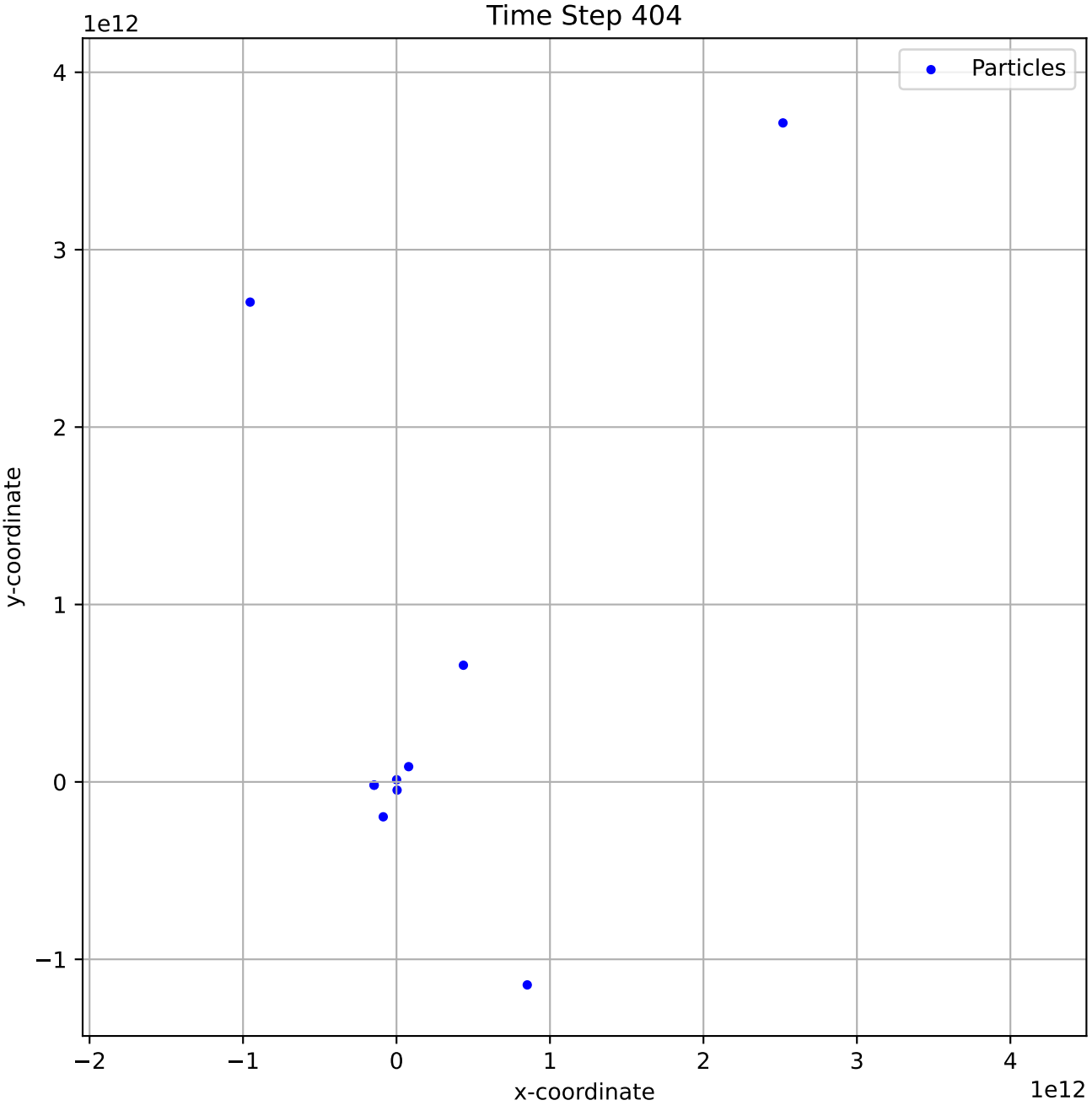

Time Step 399
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

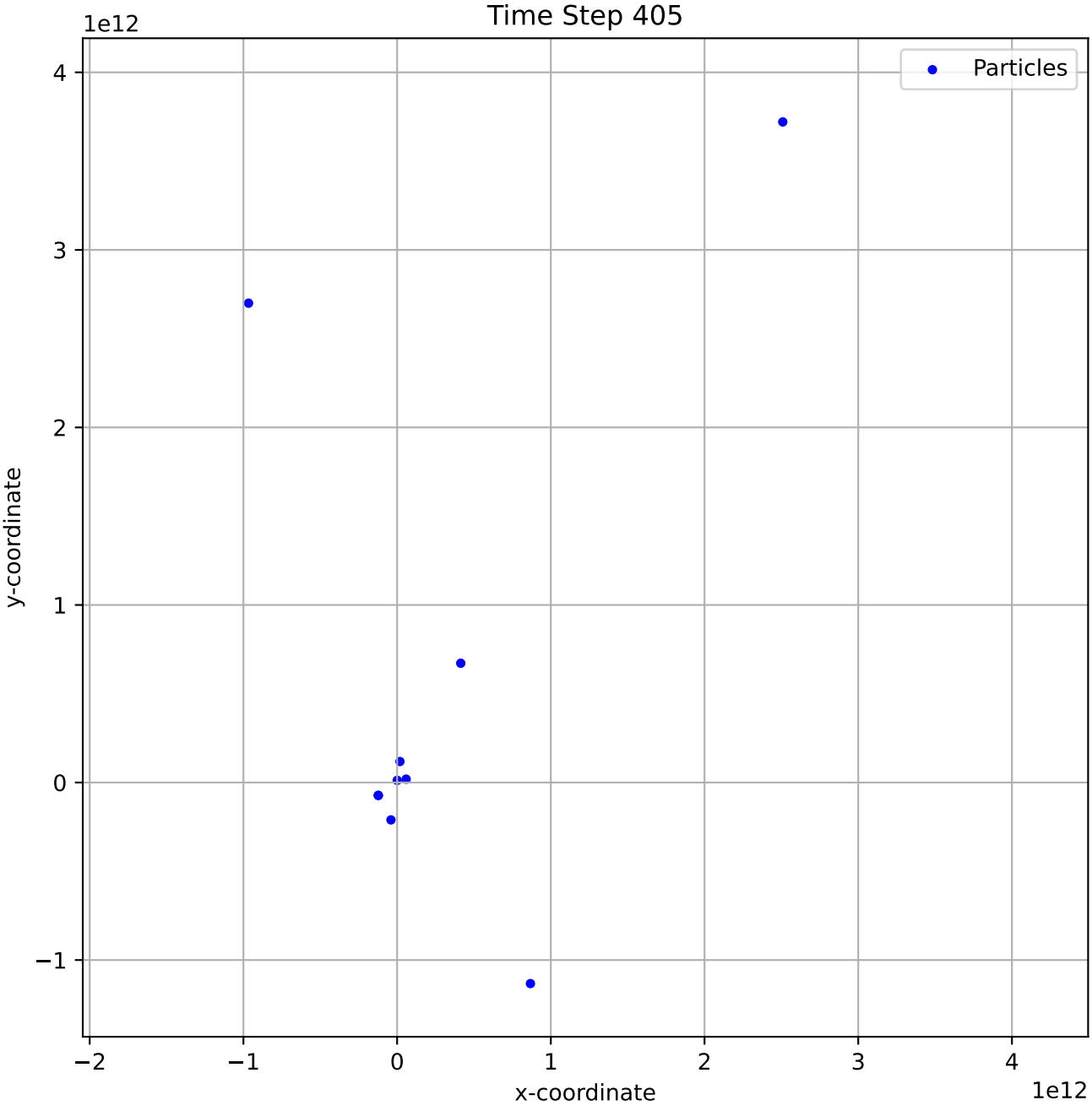

Time Step 400
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

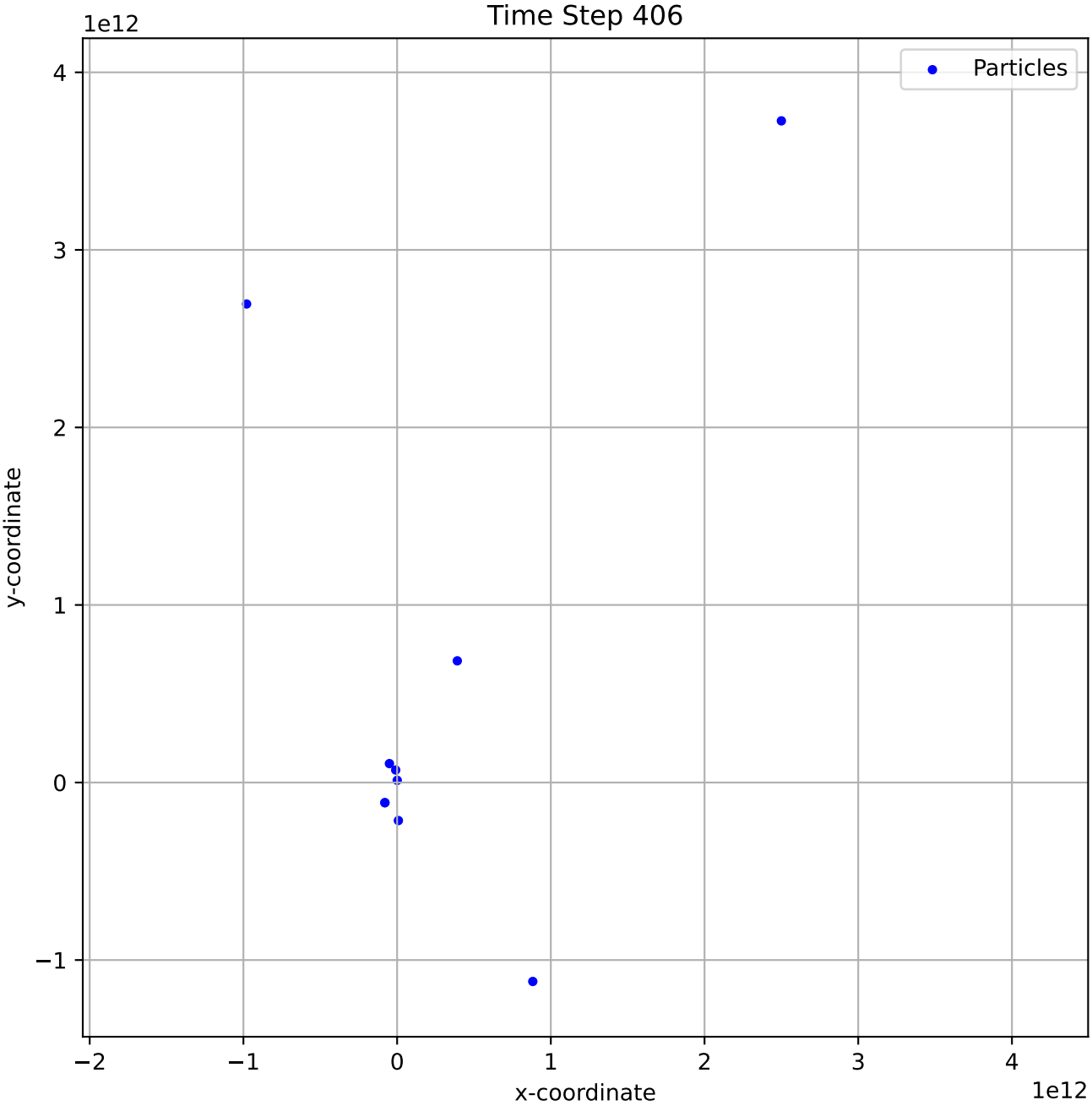

Time Step 401
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

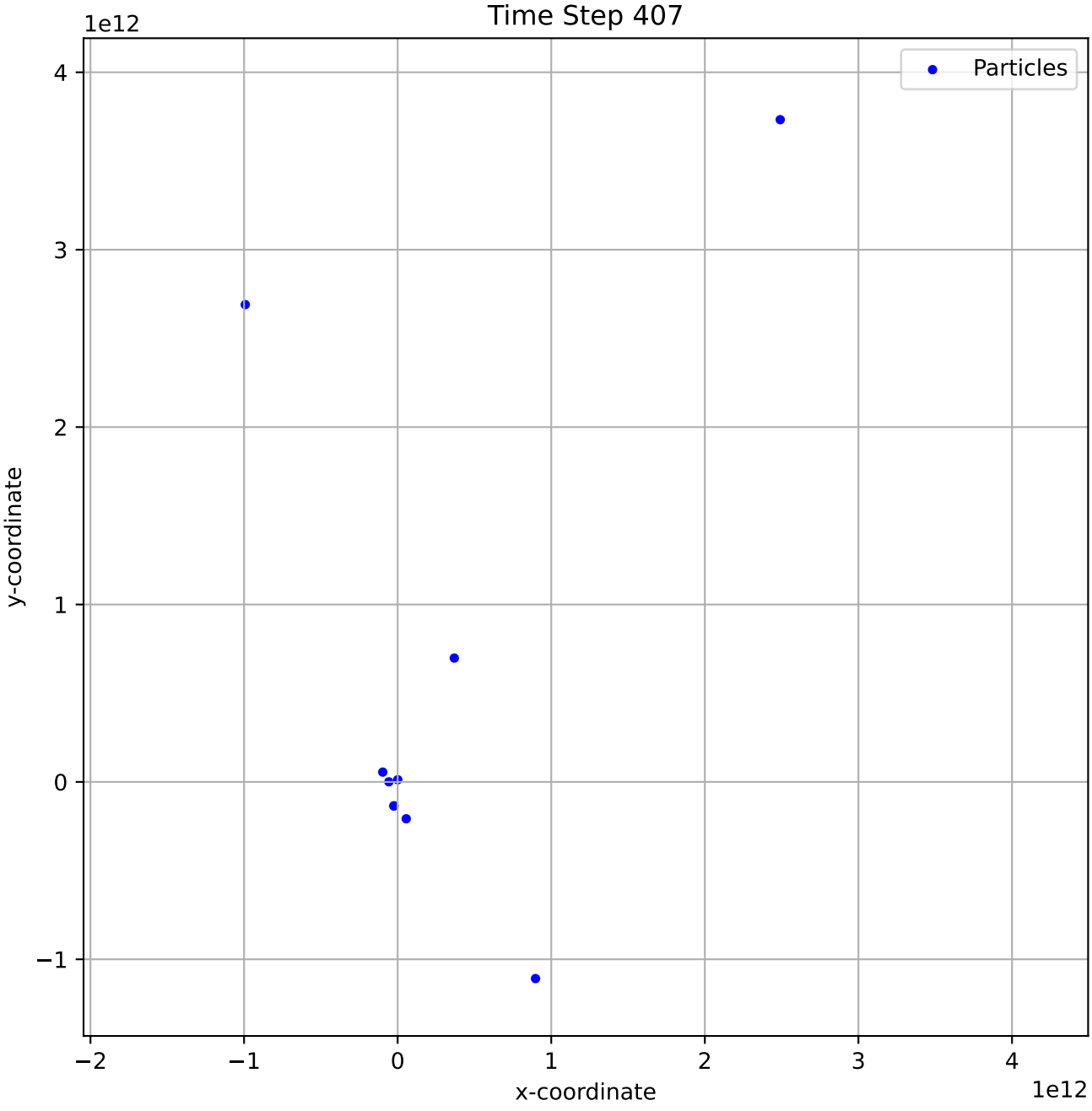

Time Step 402
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

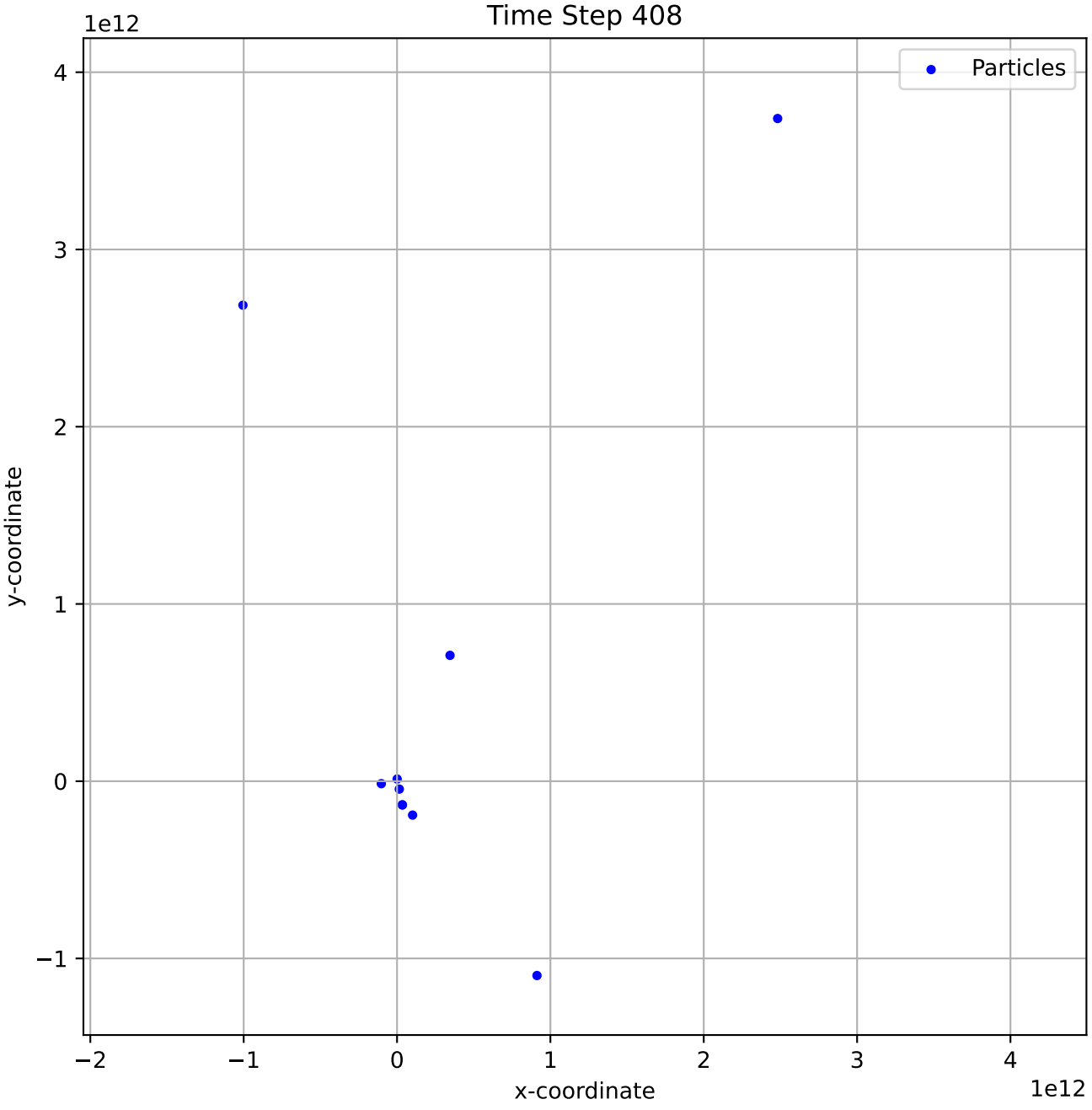

Time Step 403
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

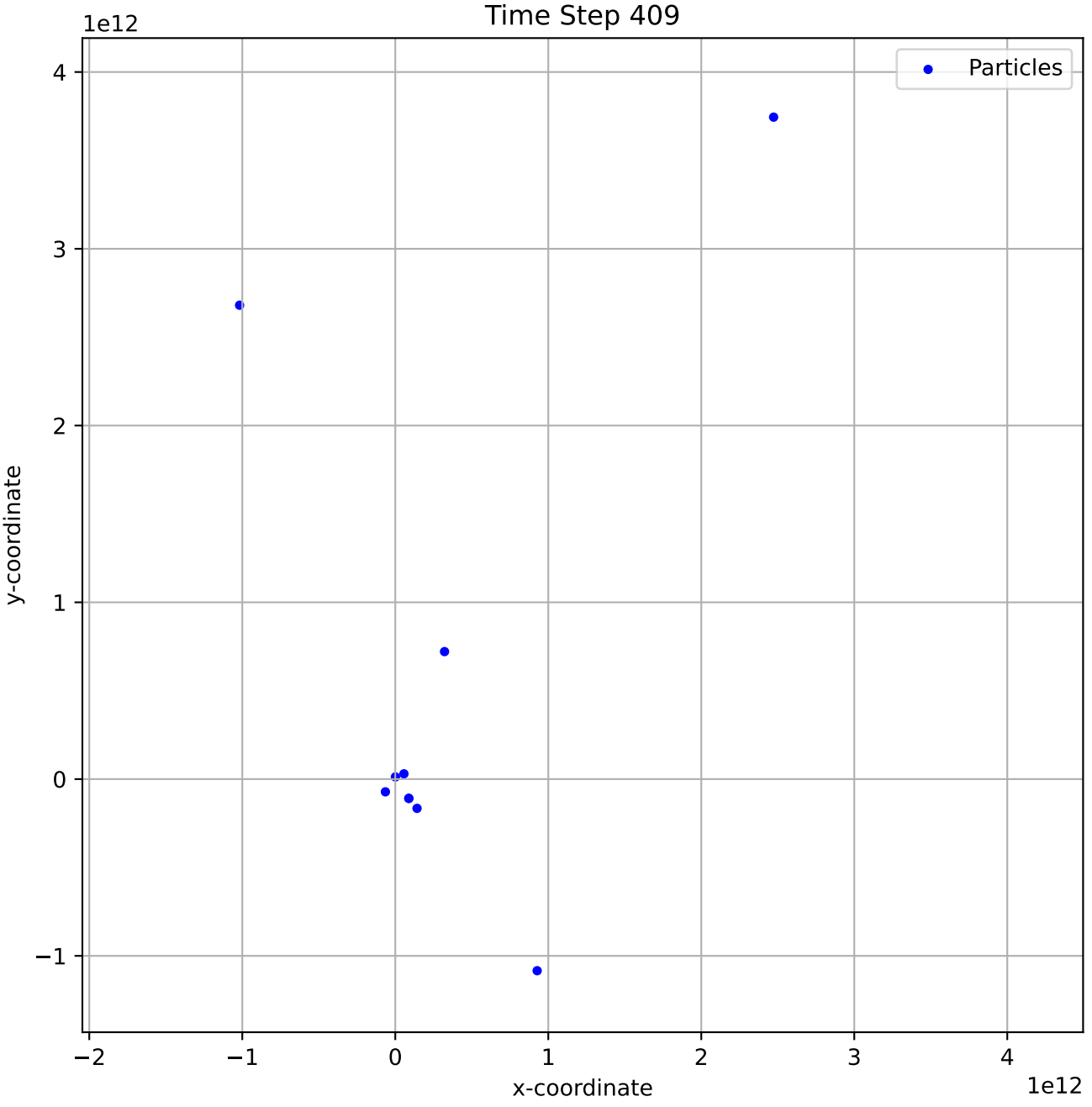

Time Step 404
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

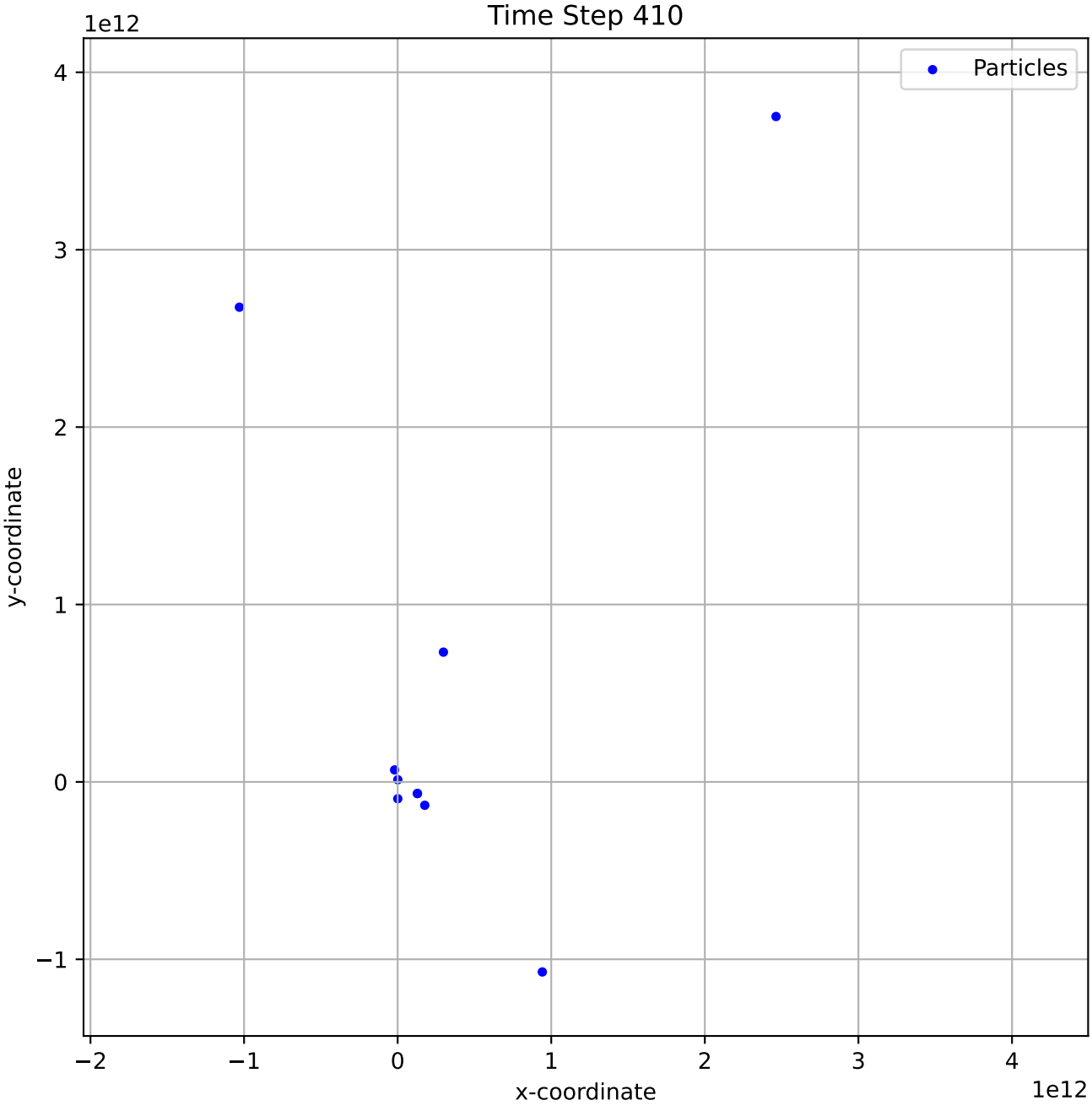

Time Step 405
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

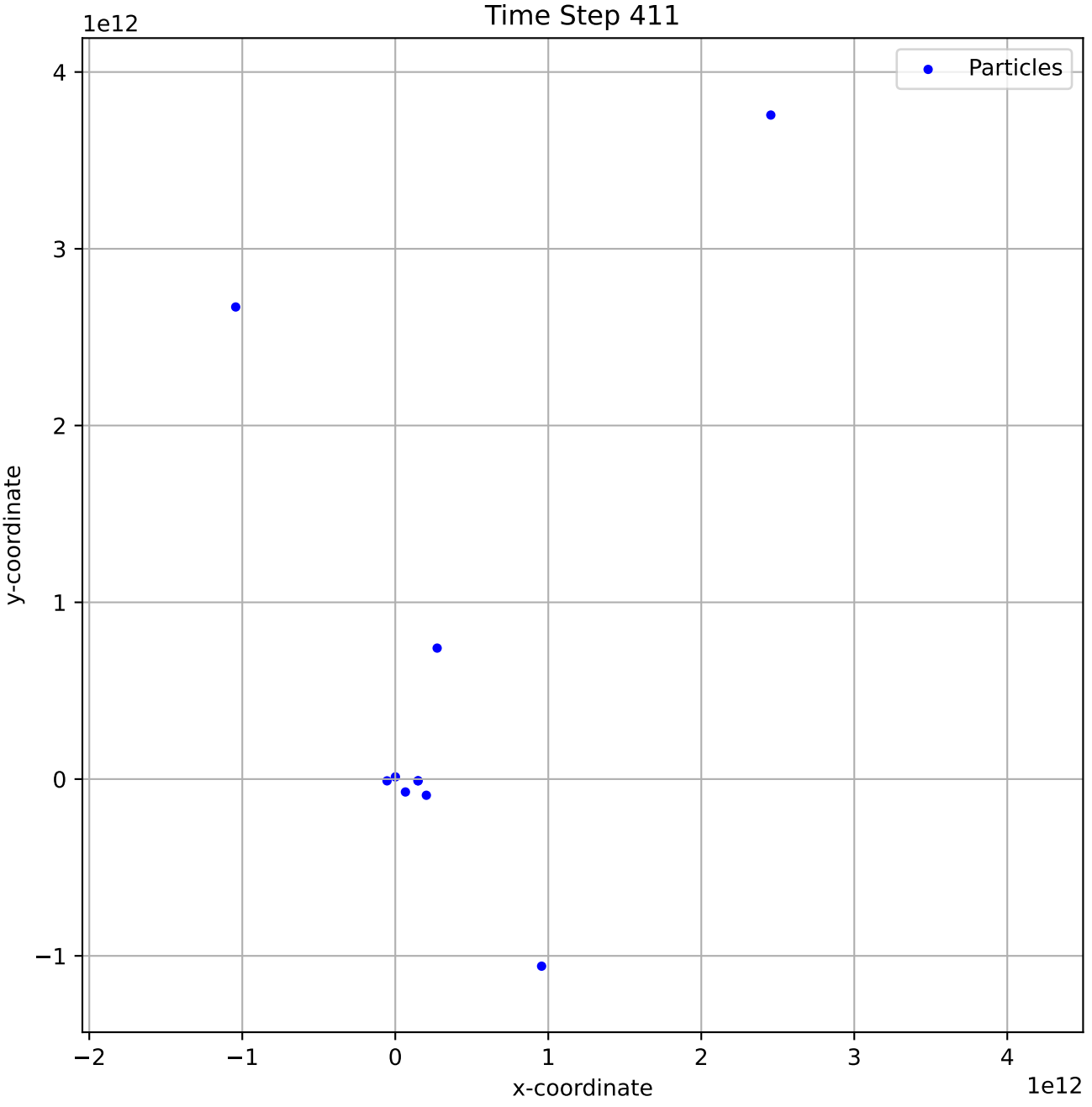

Time Step 406
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

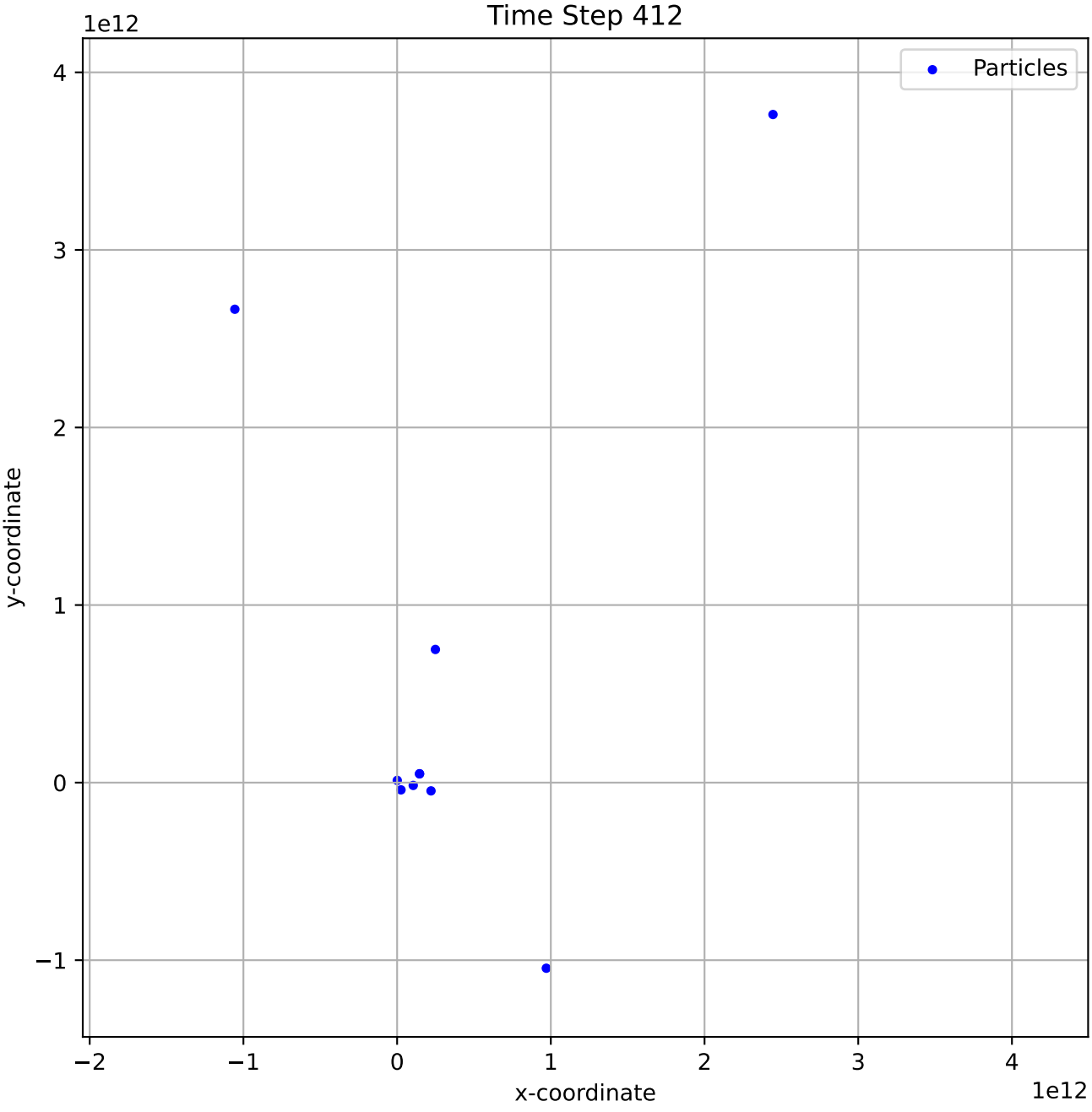

Time Step 407
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

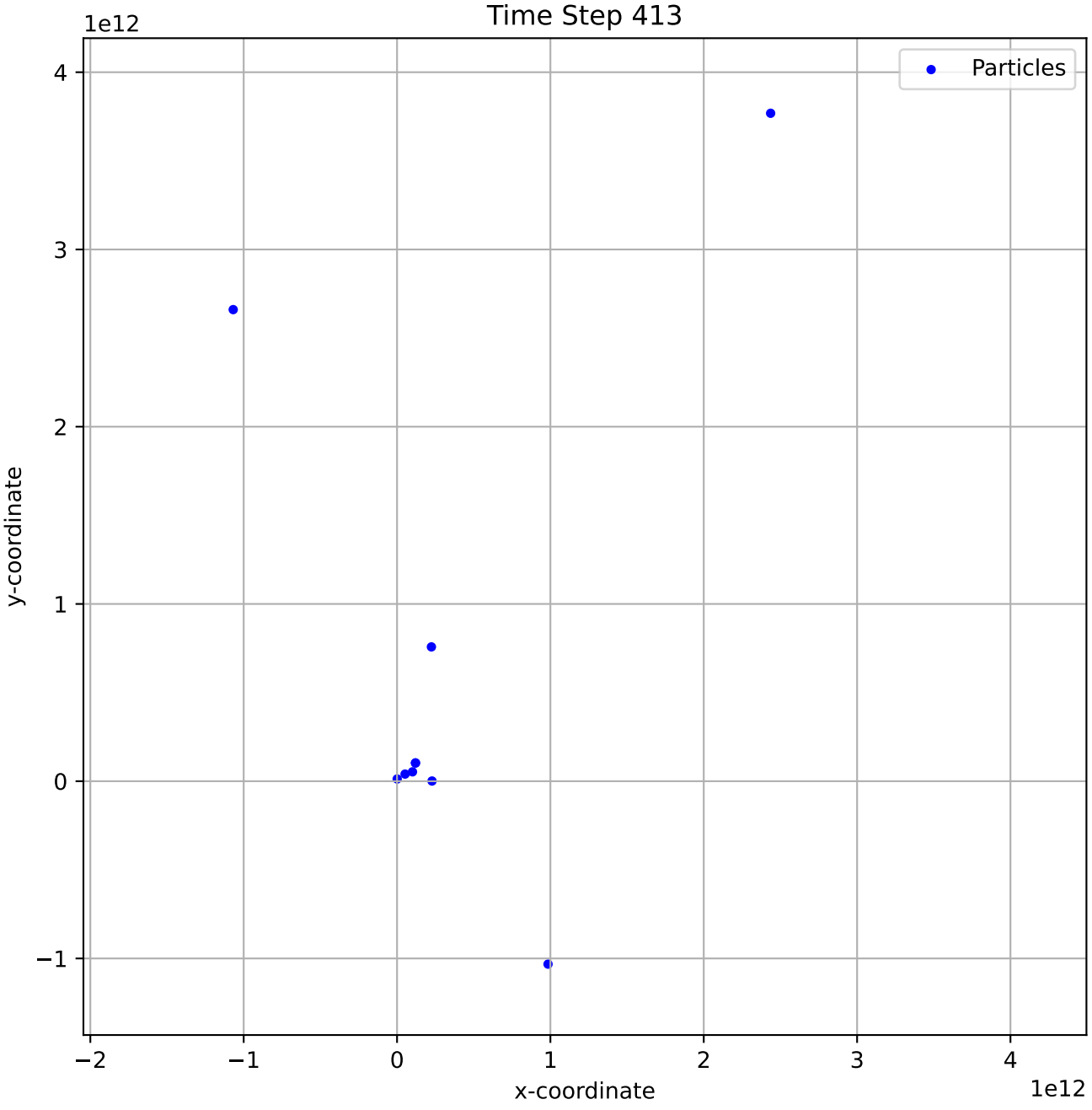

Time Step 408
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

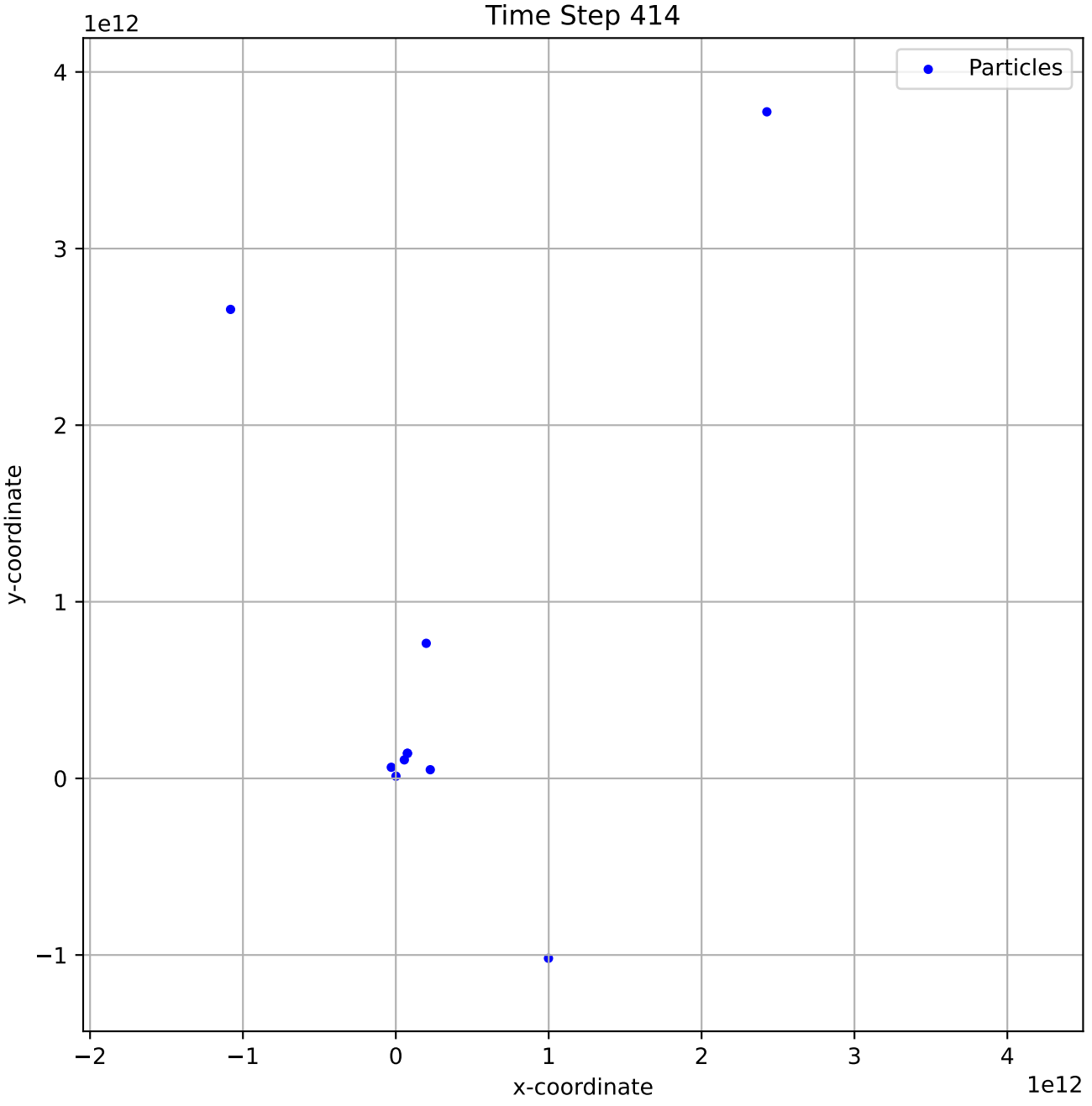

Time Step 409
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

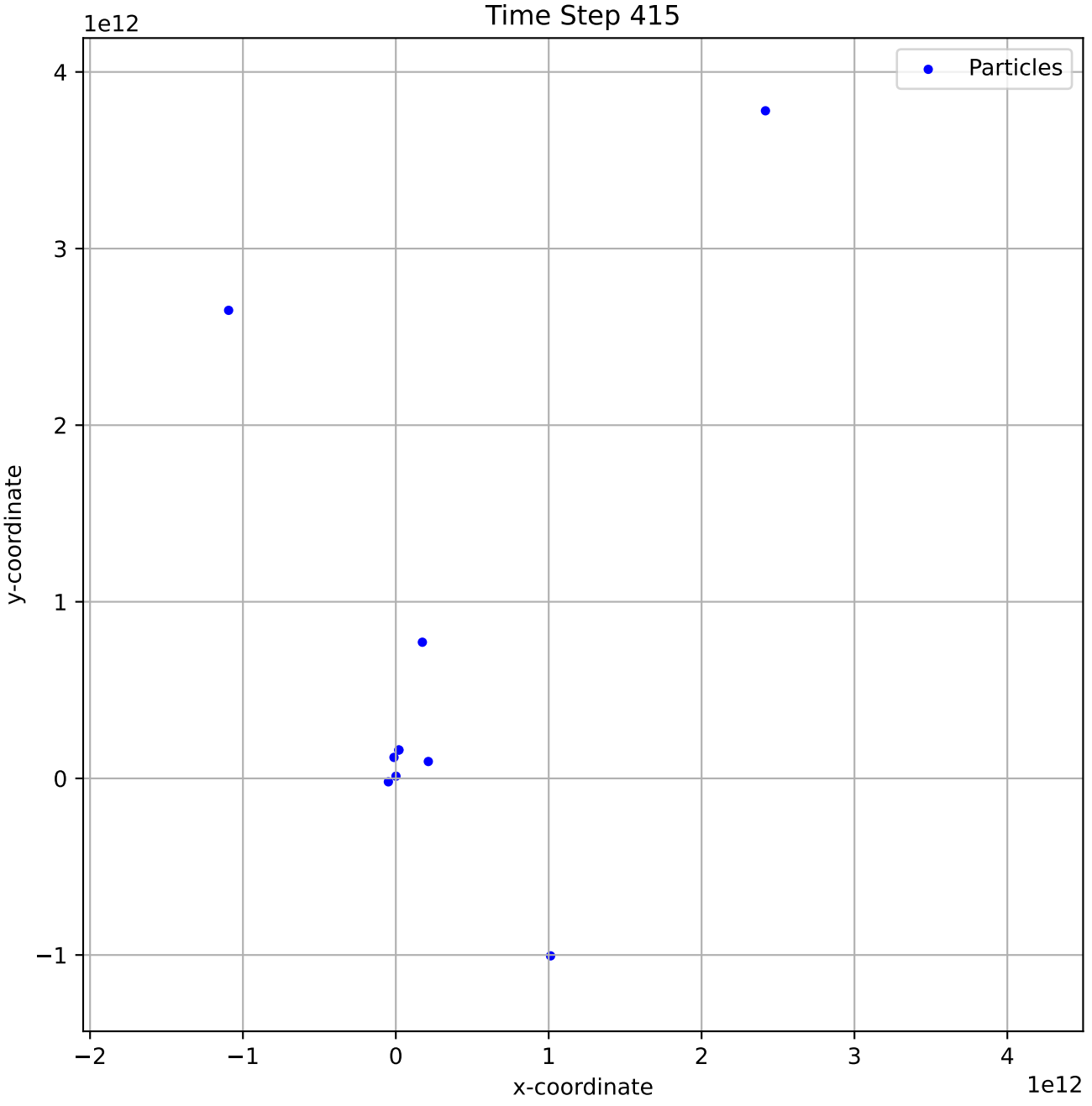

Time Step 410
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

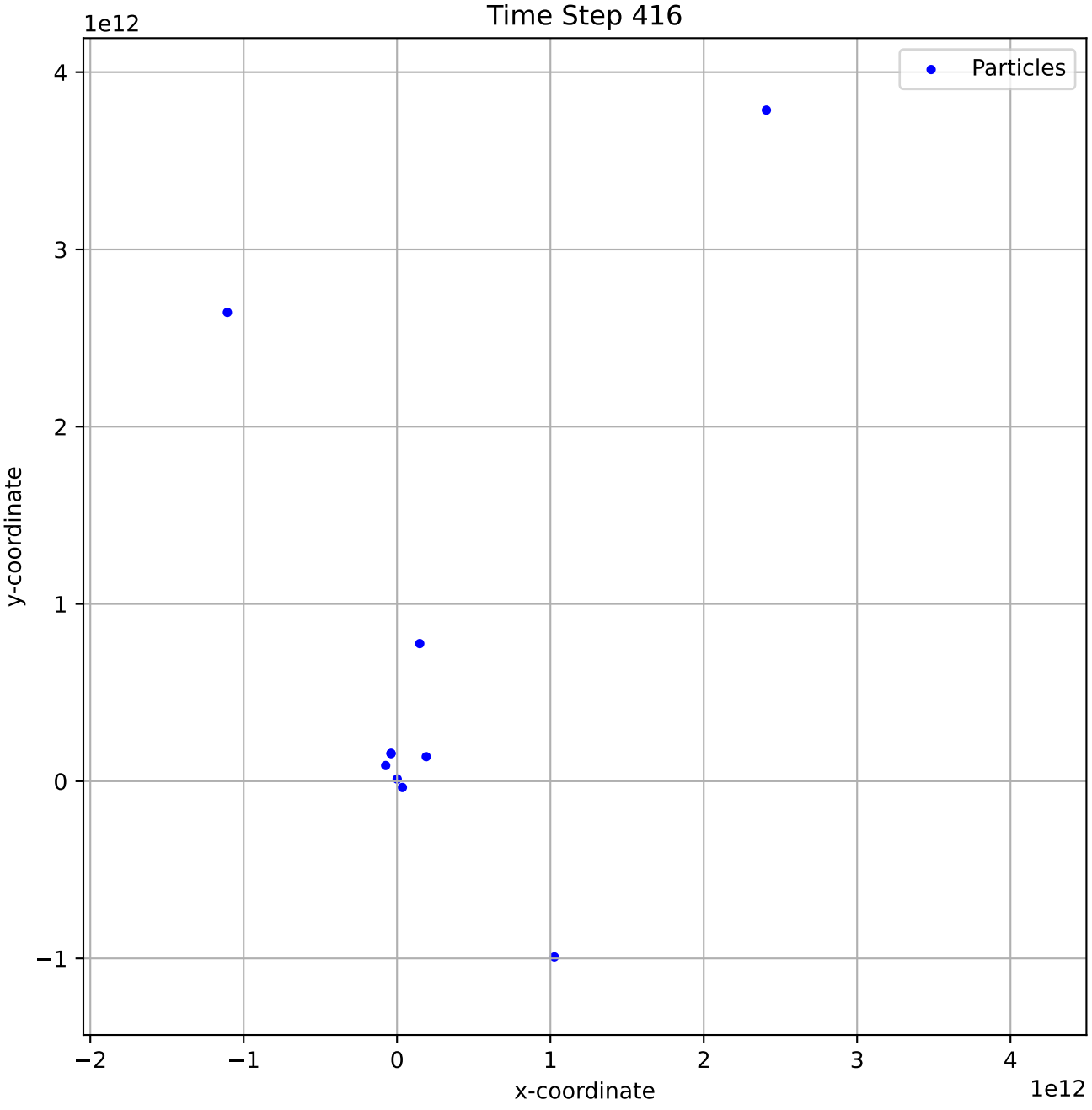

Time Step 411
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

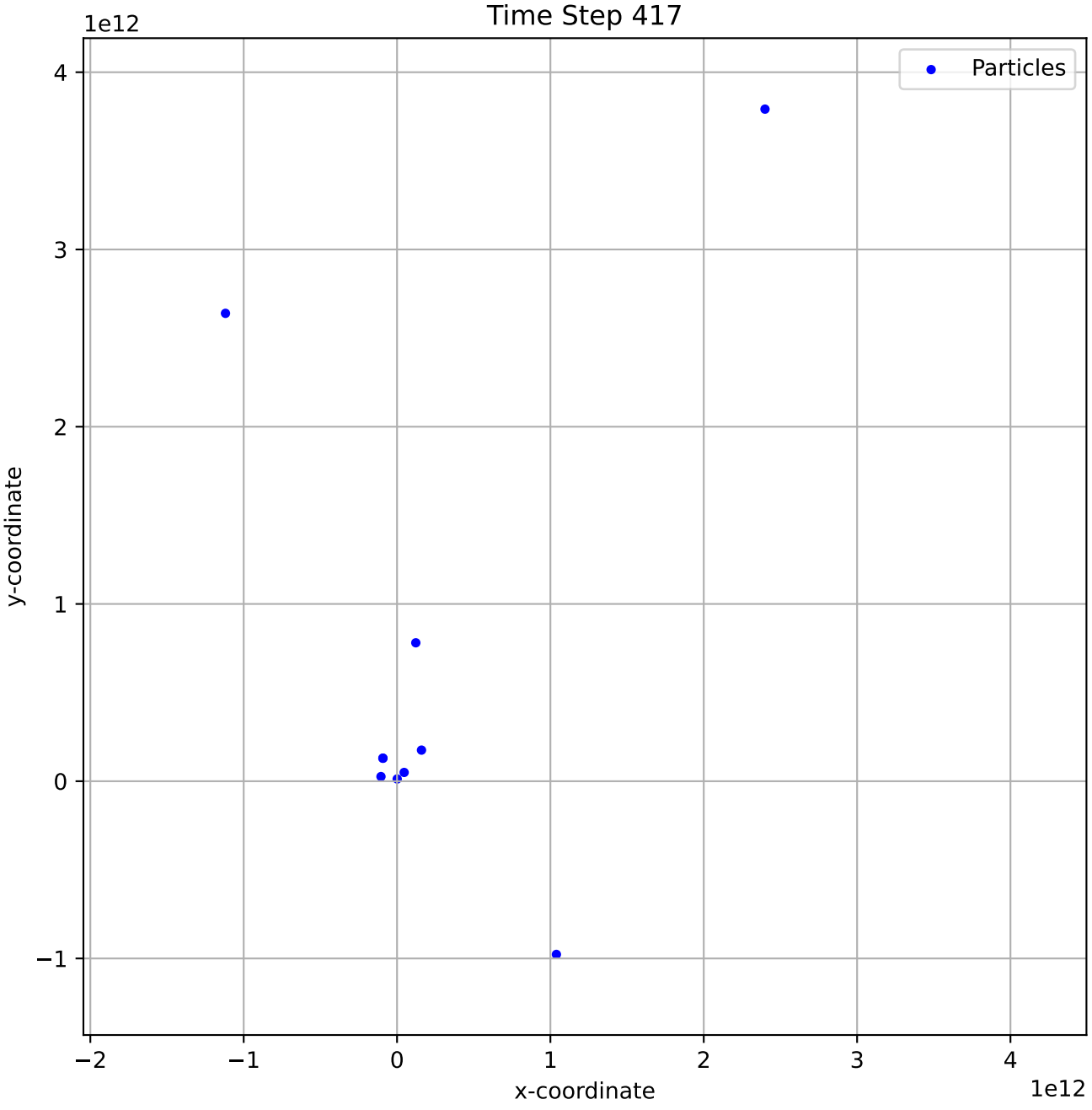

Time Step 412
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

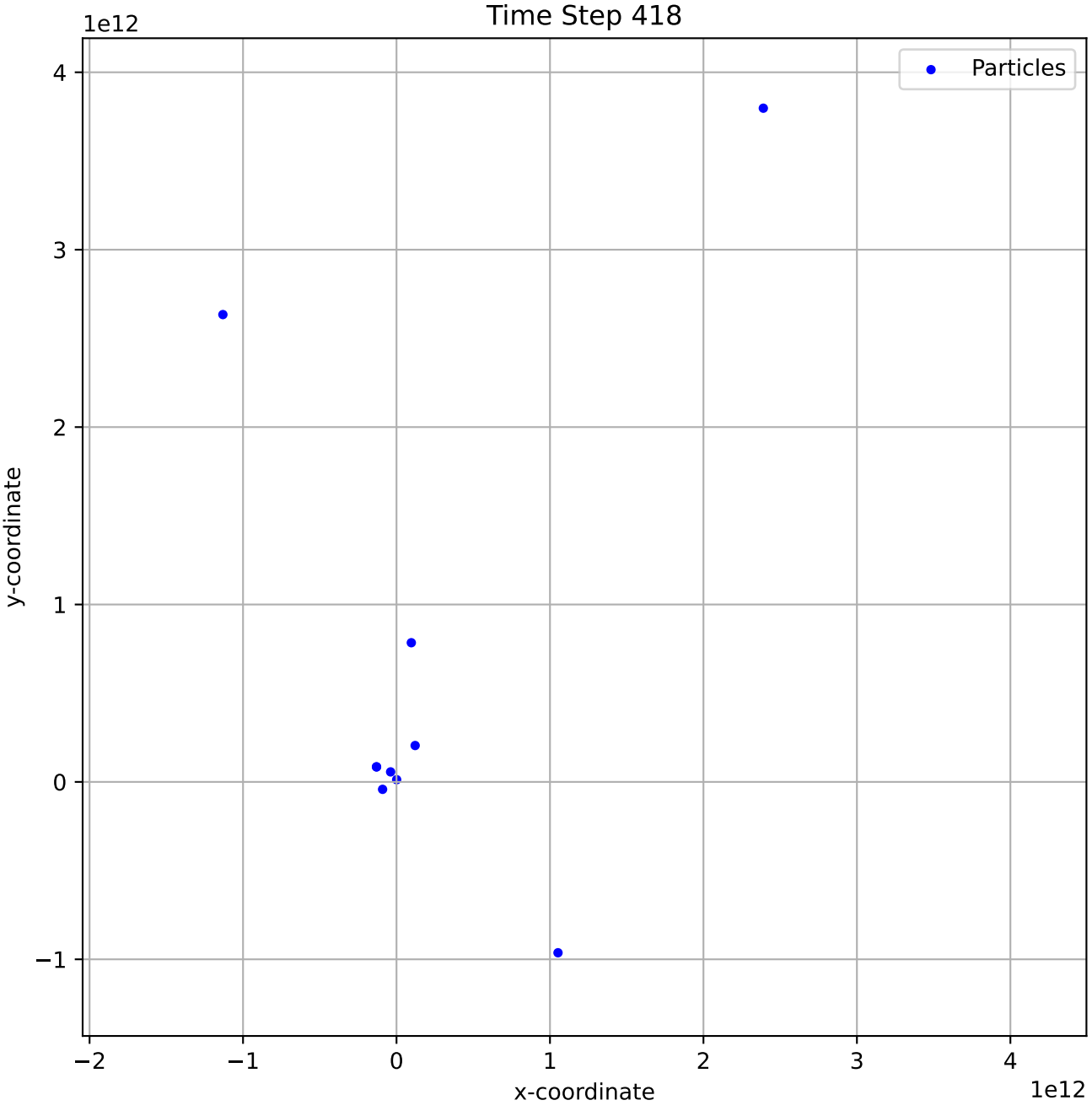

Time Step 413
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

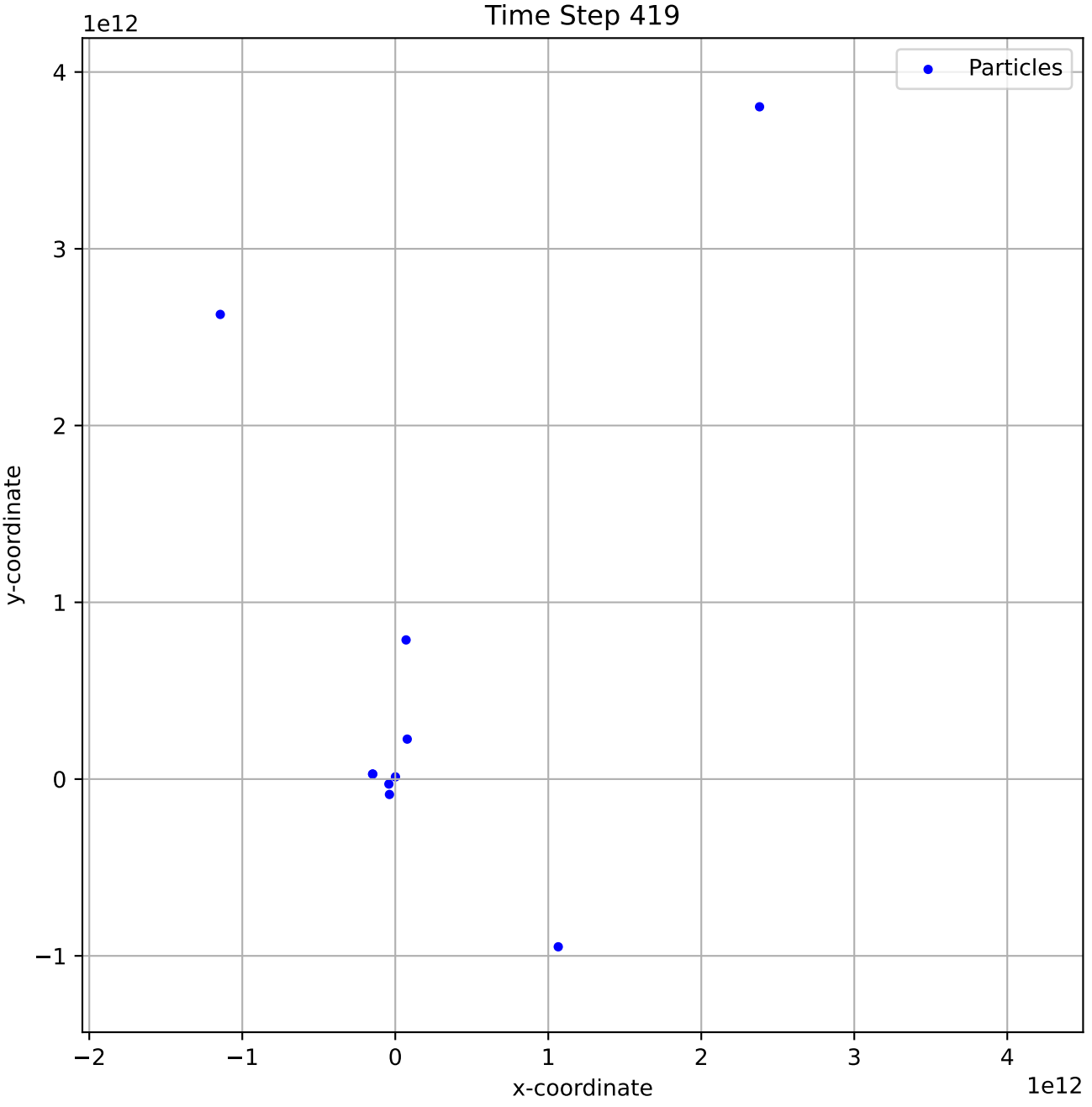

Time Step 414
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

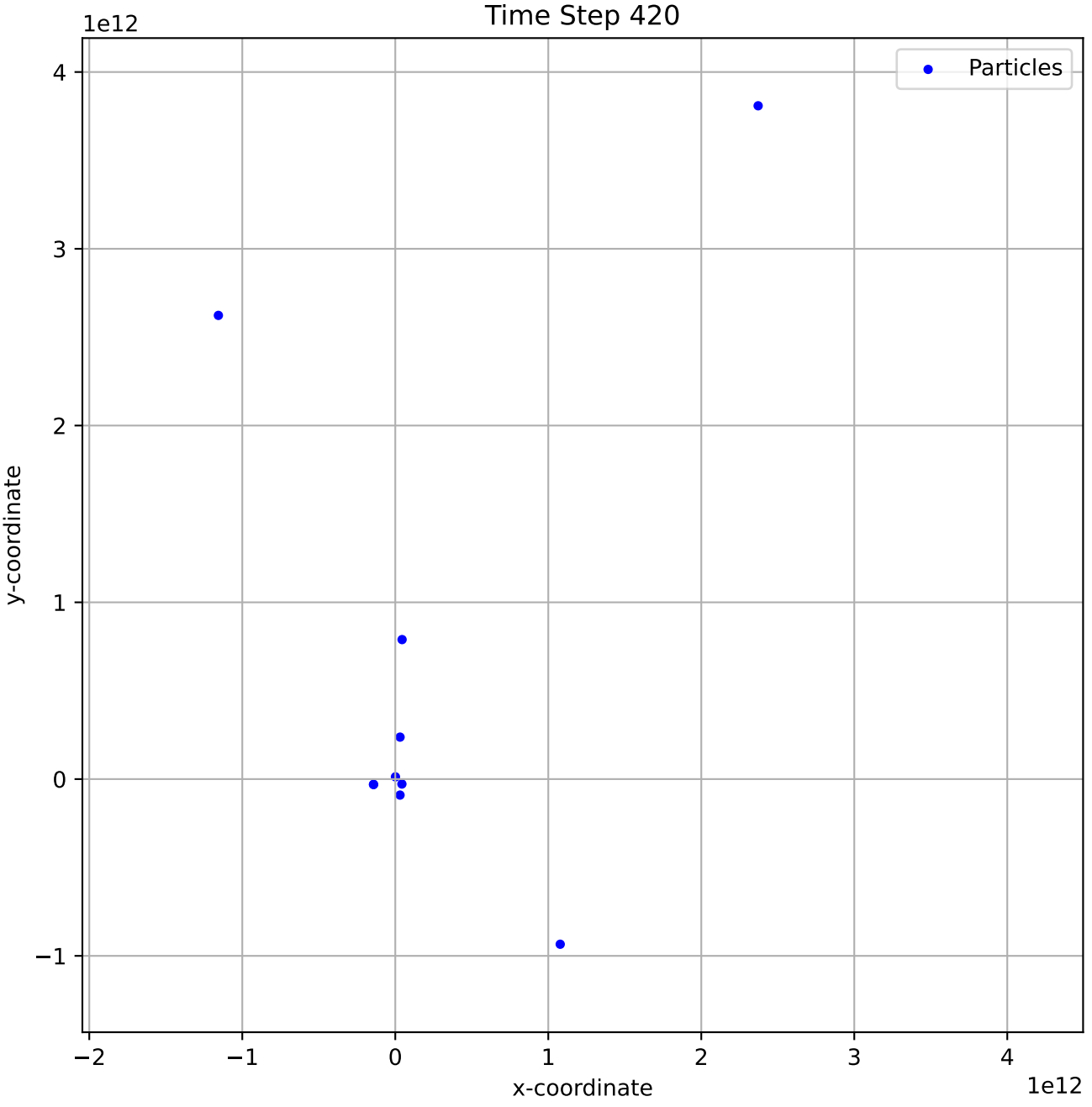

Time Step 415
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

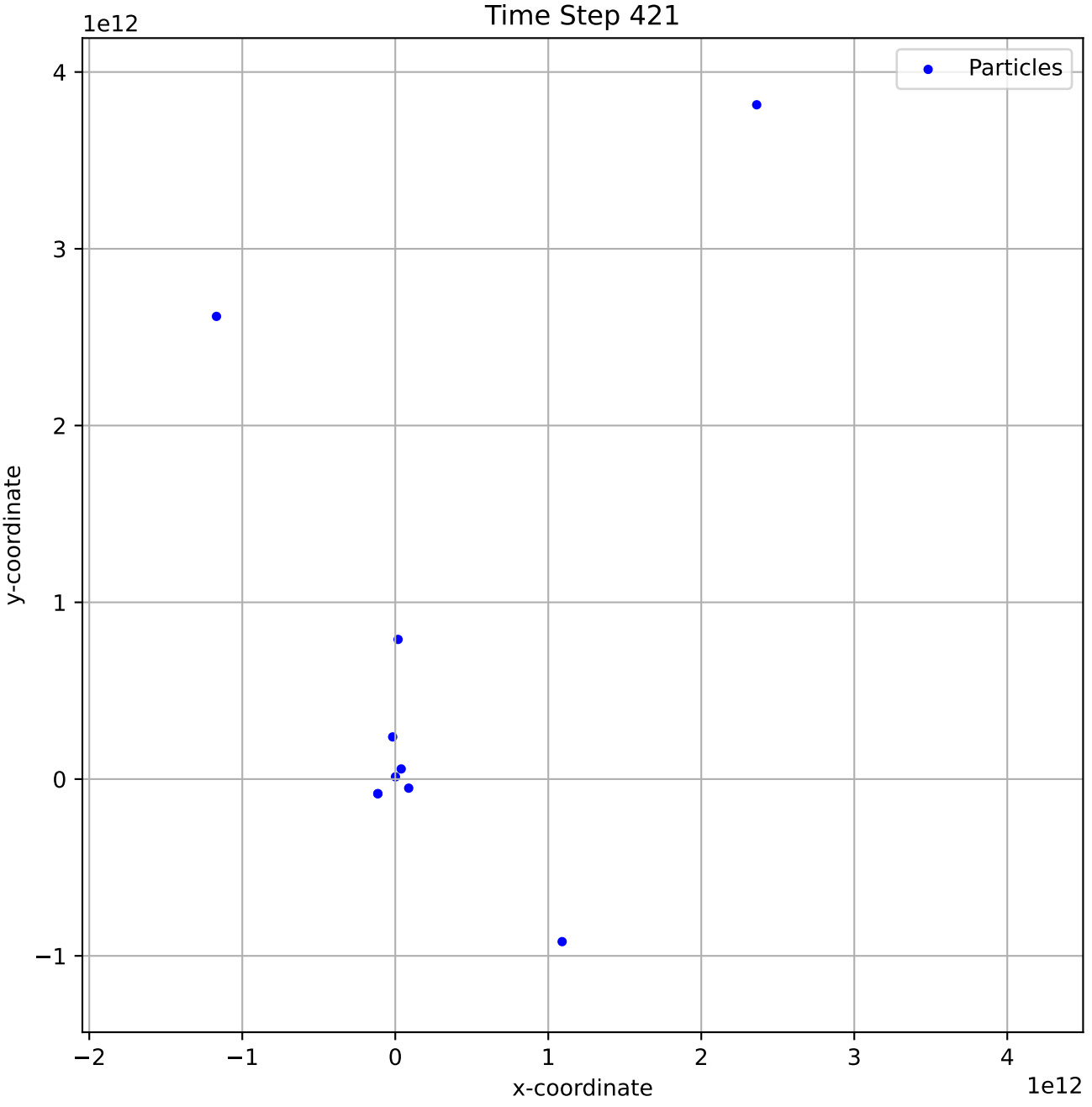

Time Step 416
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

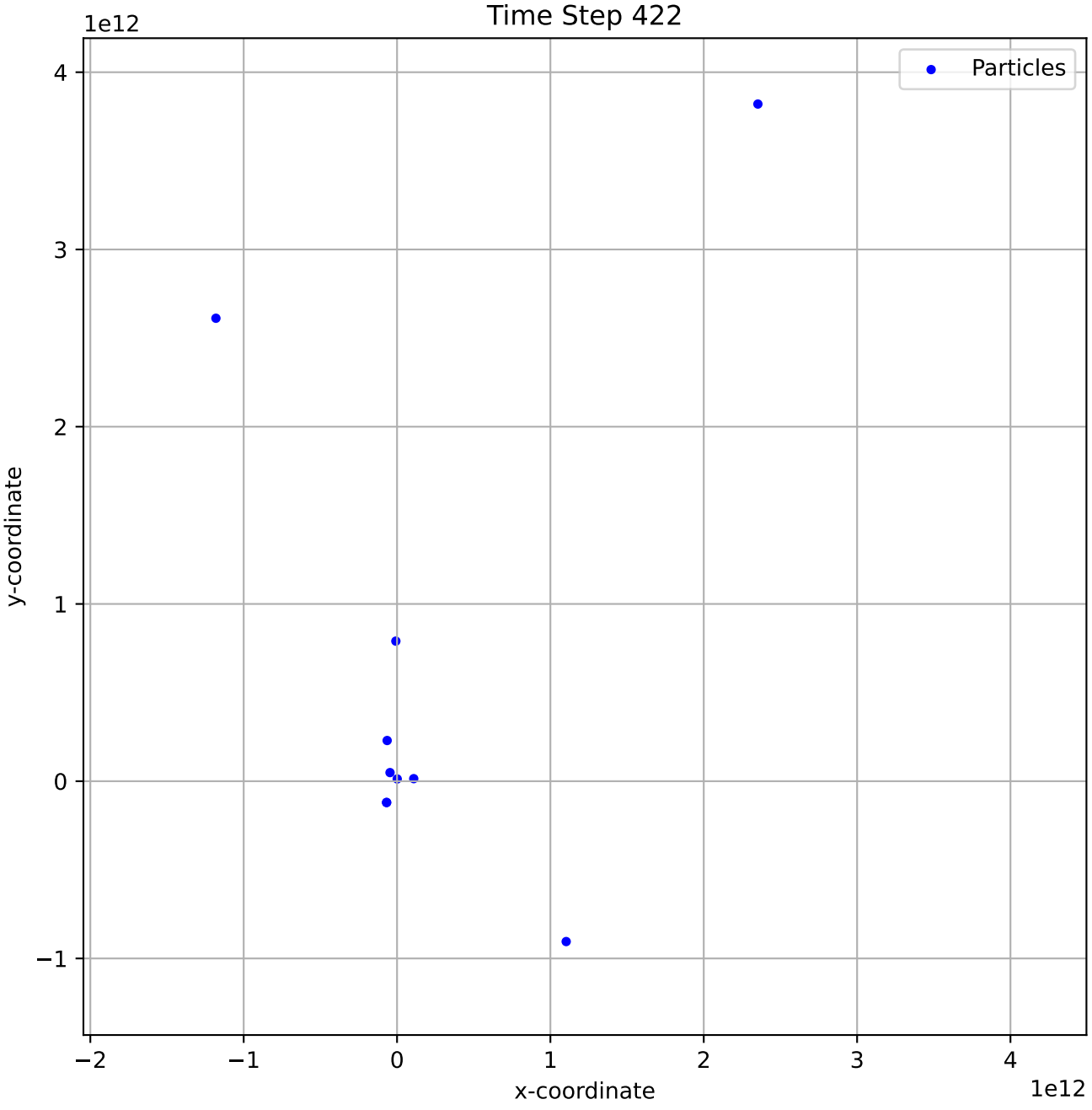

Time Step 417
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

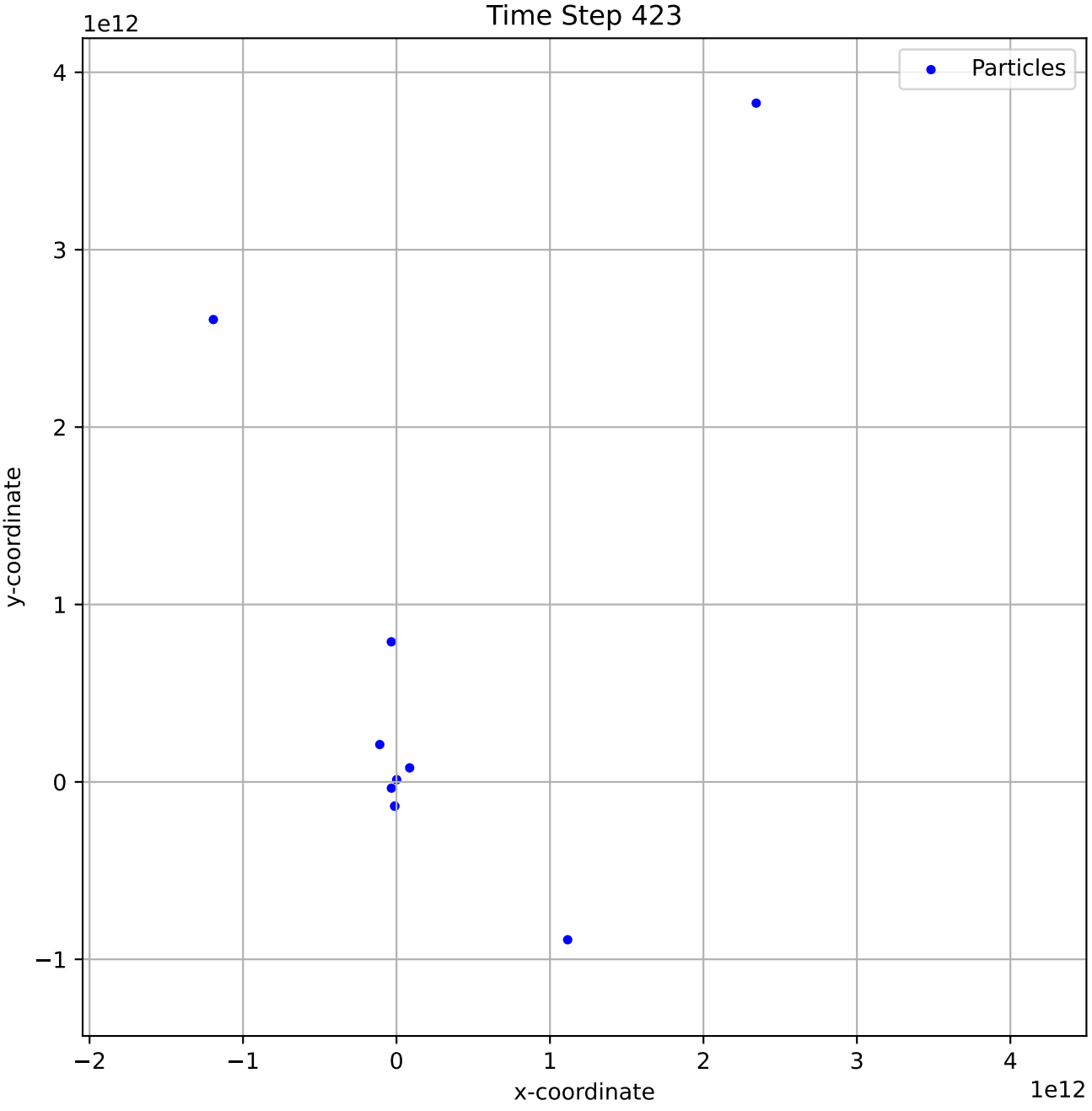

Time Step 418
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

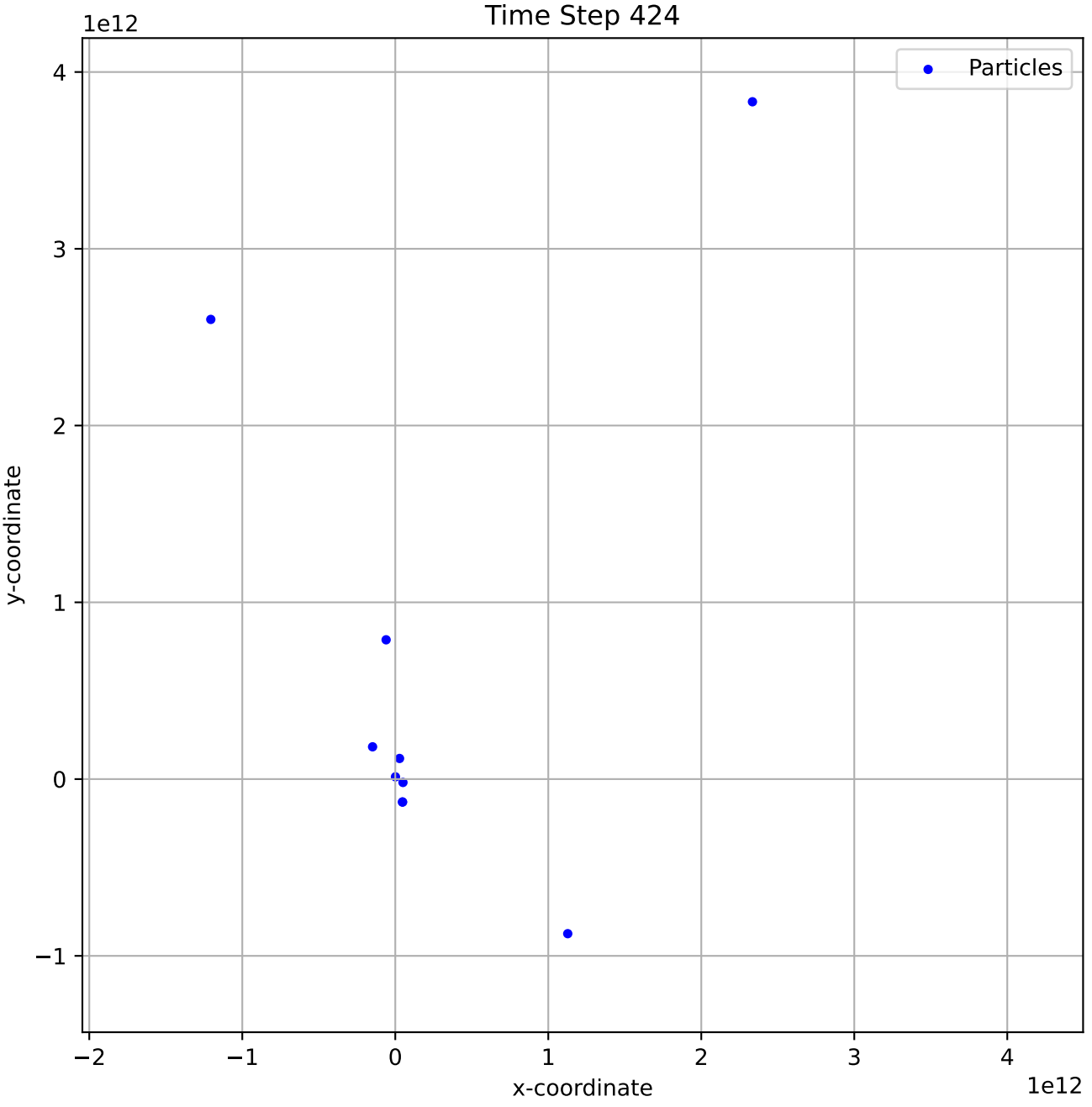

Time Step 419
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

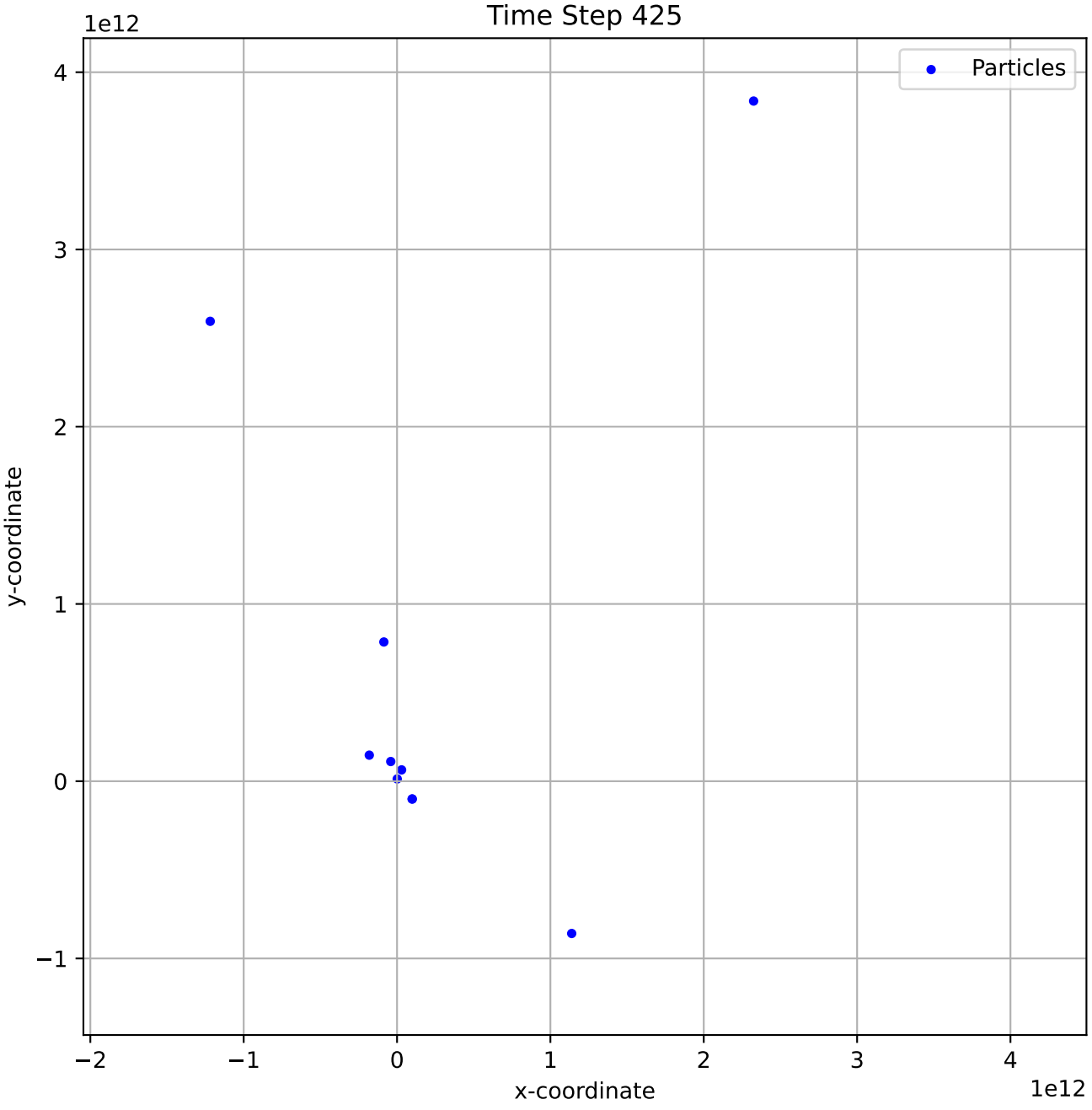

Time Step 420
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

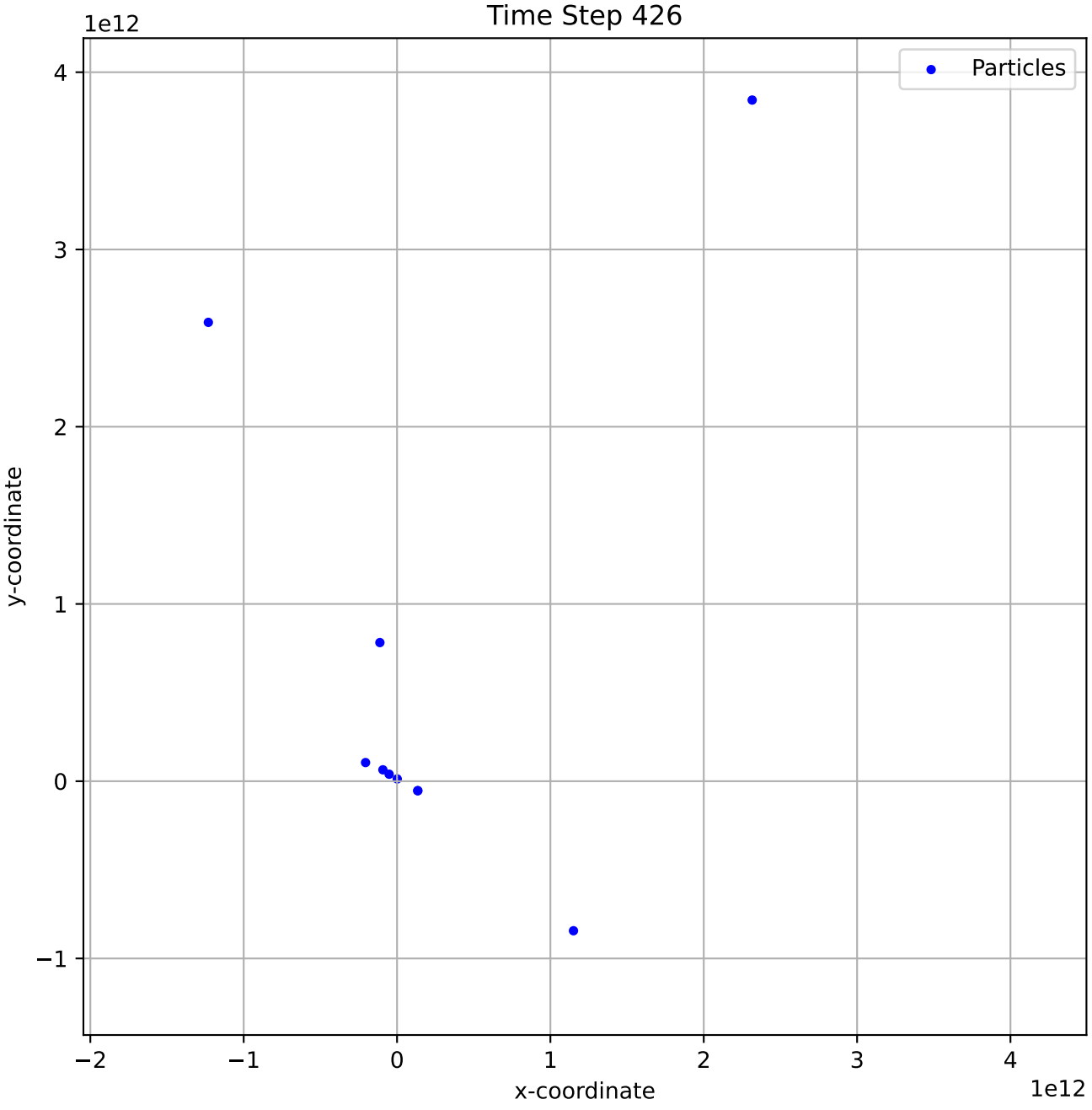

Time Step 421
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

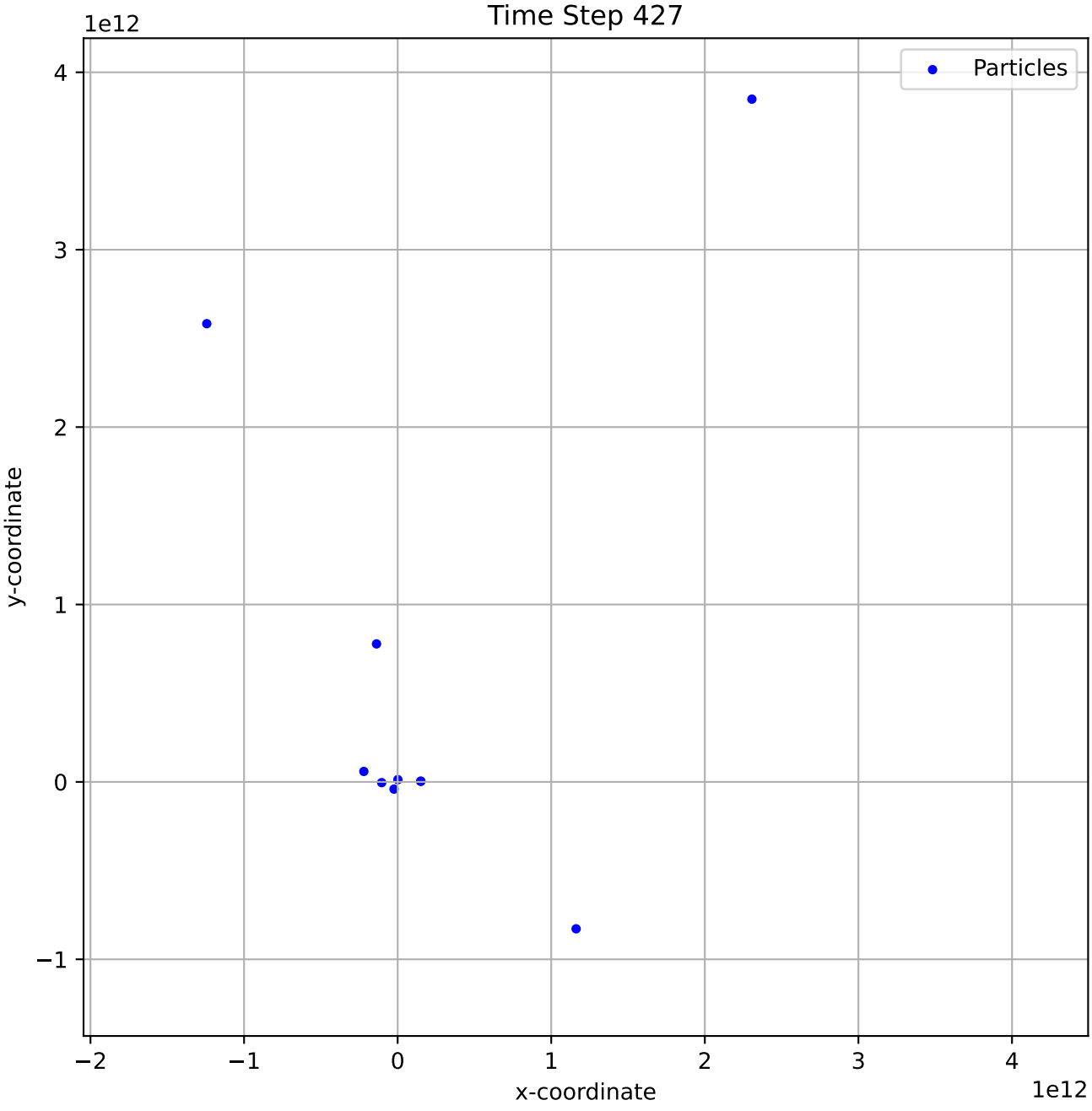

Time Step 422
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

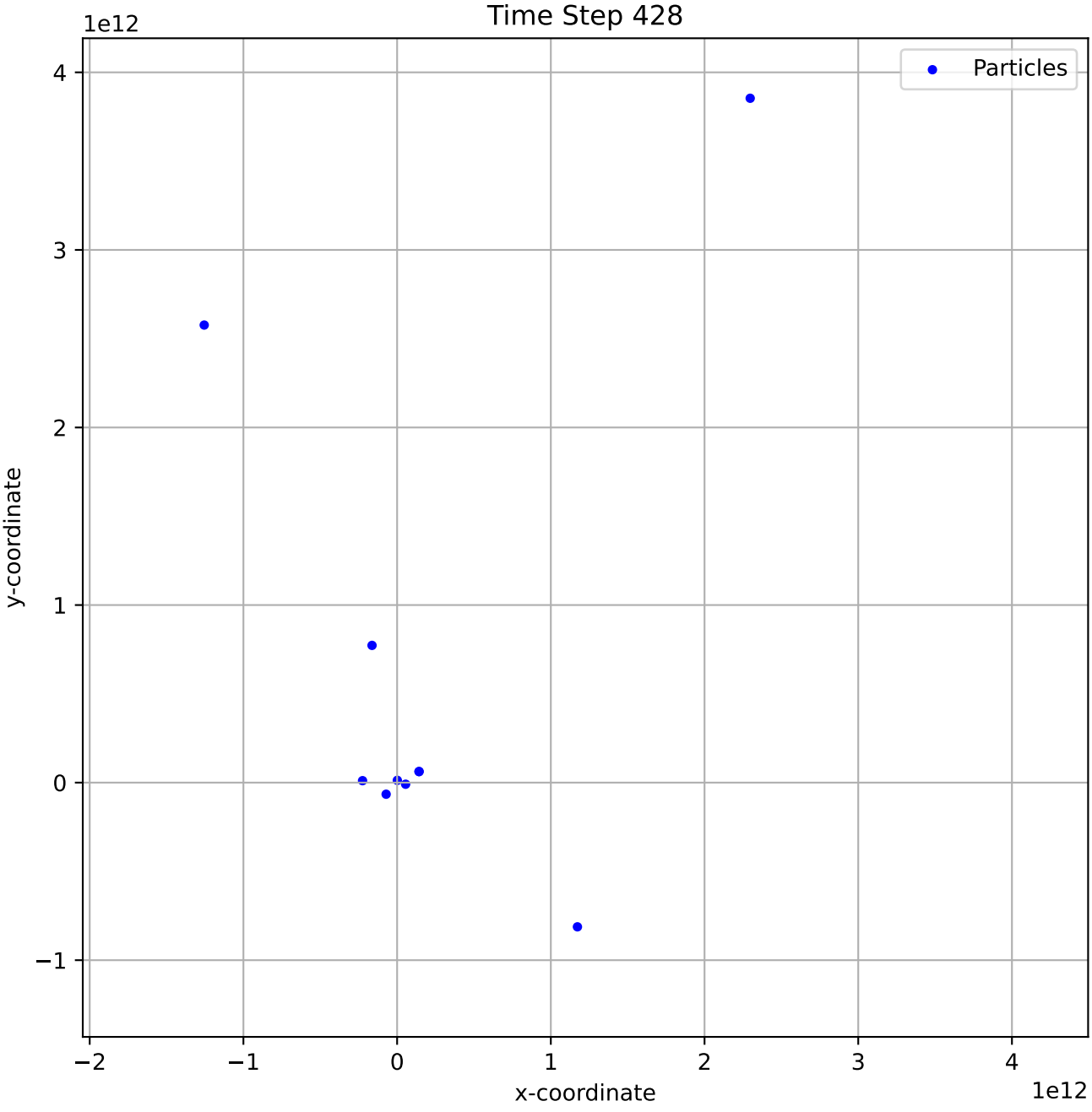

Time Step 423
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

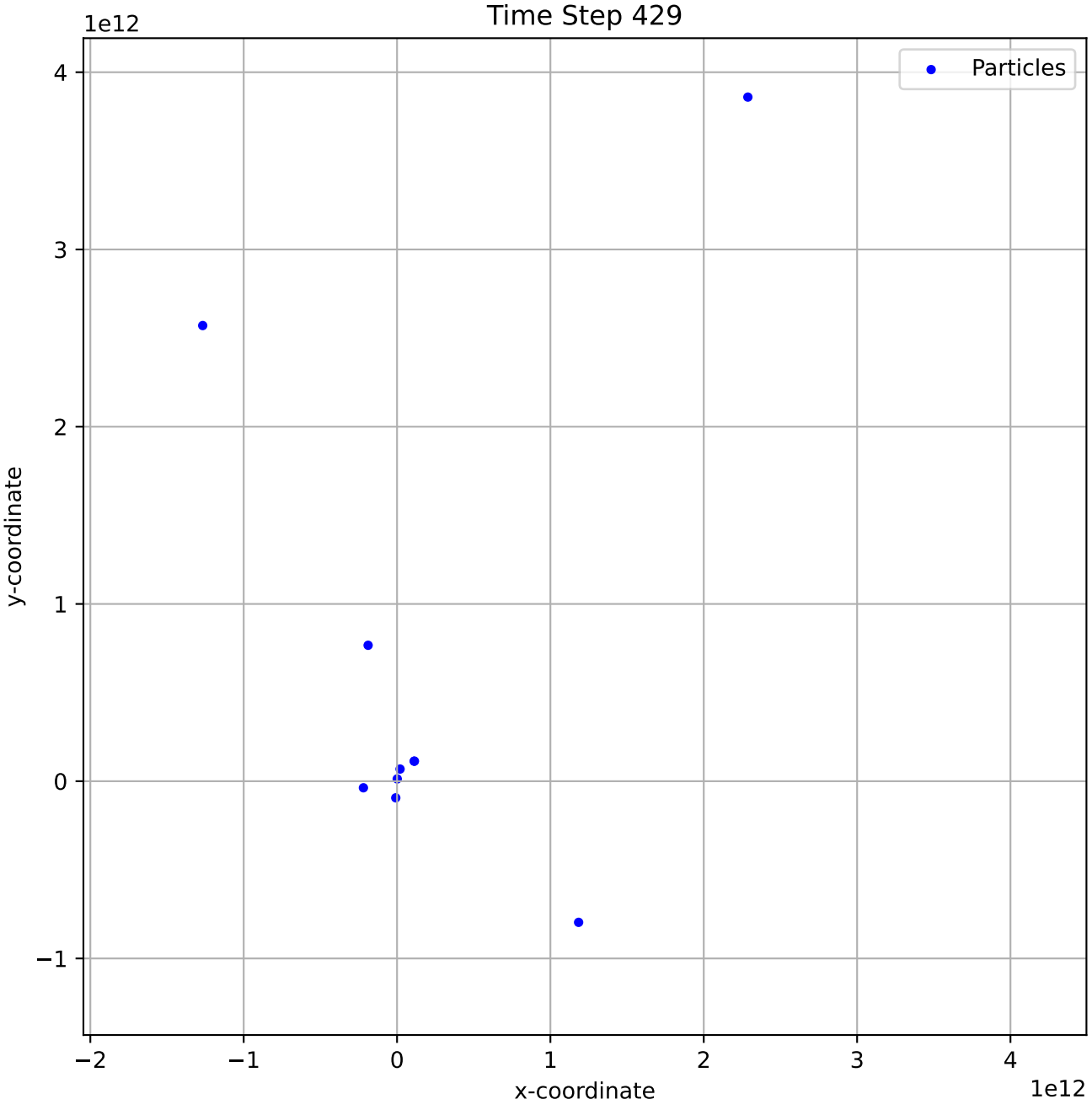

Time Step 424
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

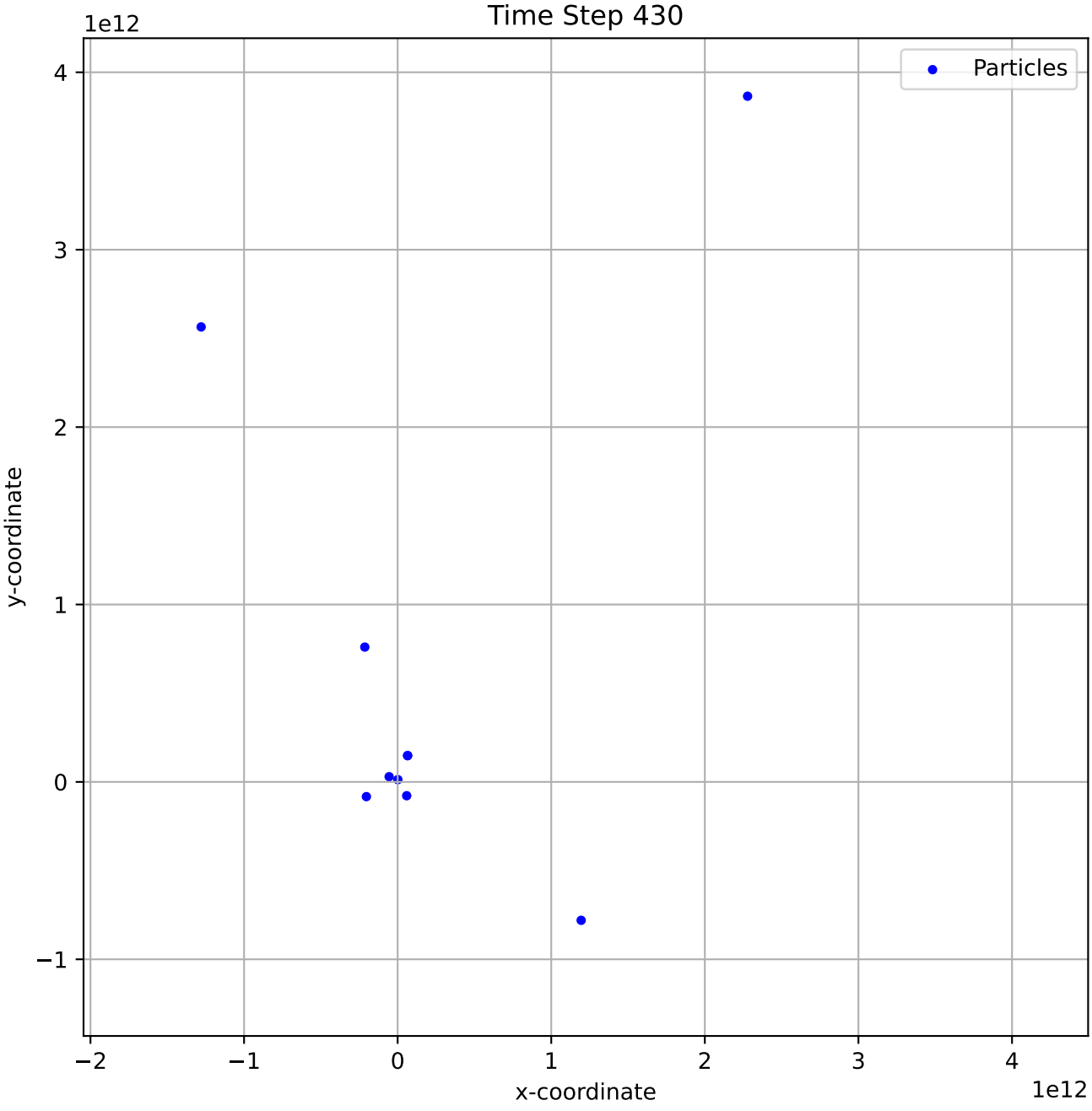

Time Step 425
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

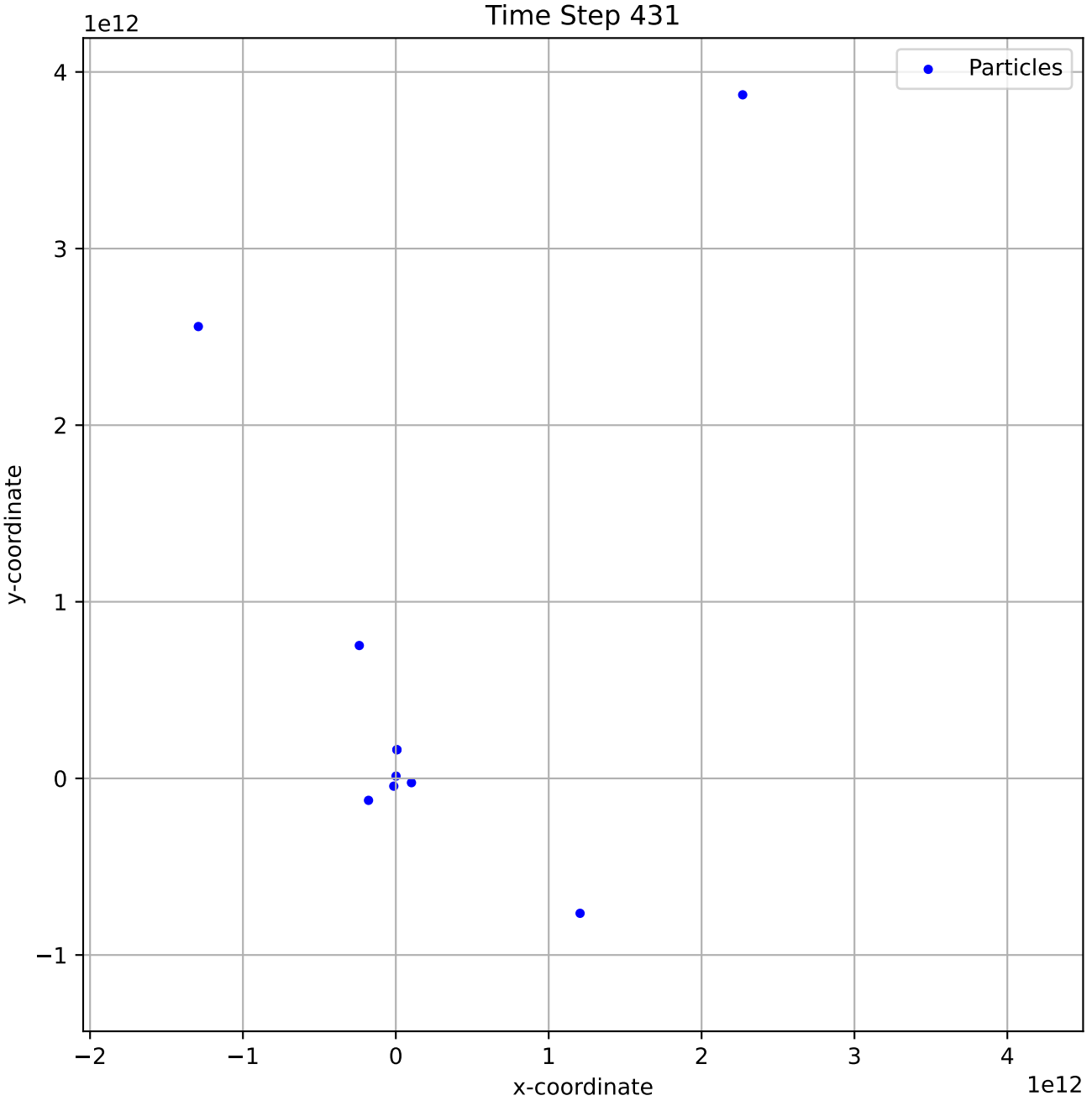

Time Step 426
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

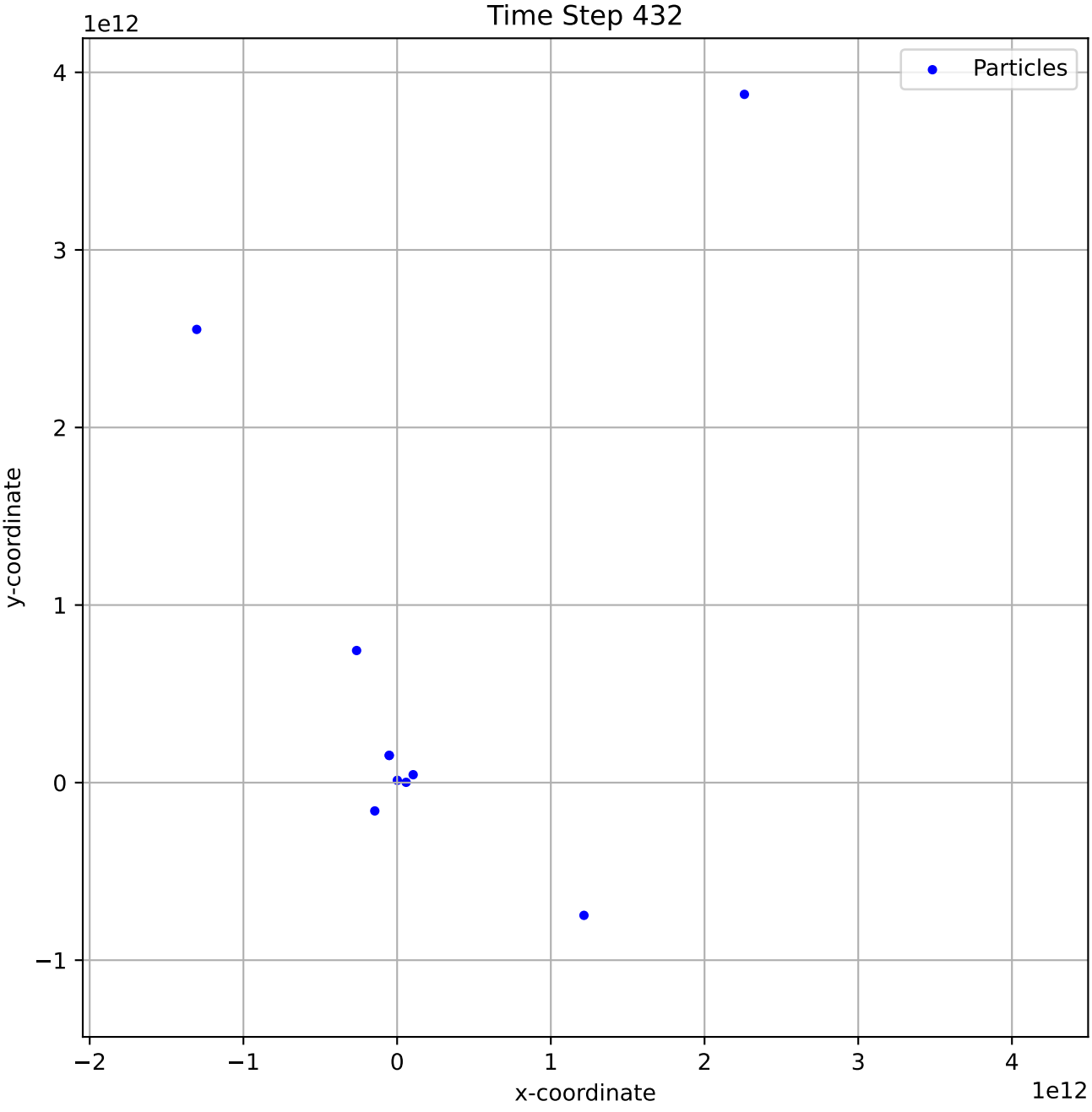

Time Step 427
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

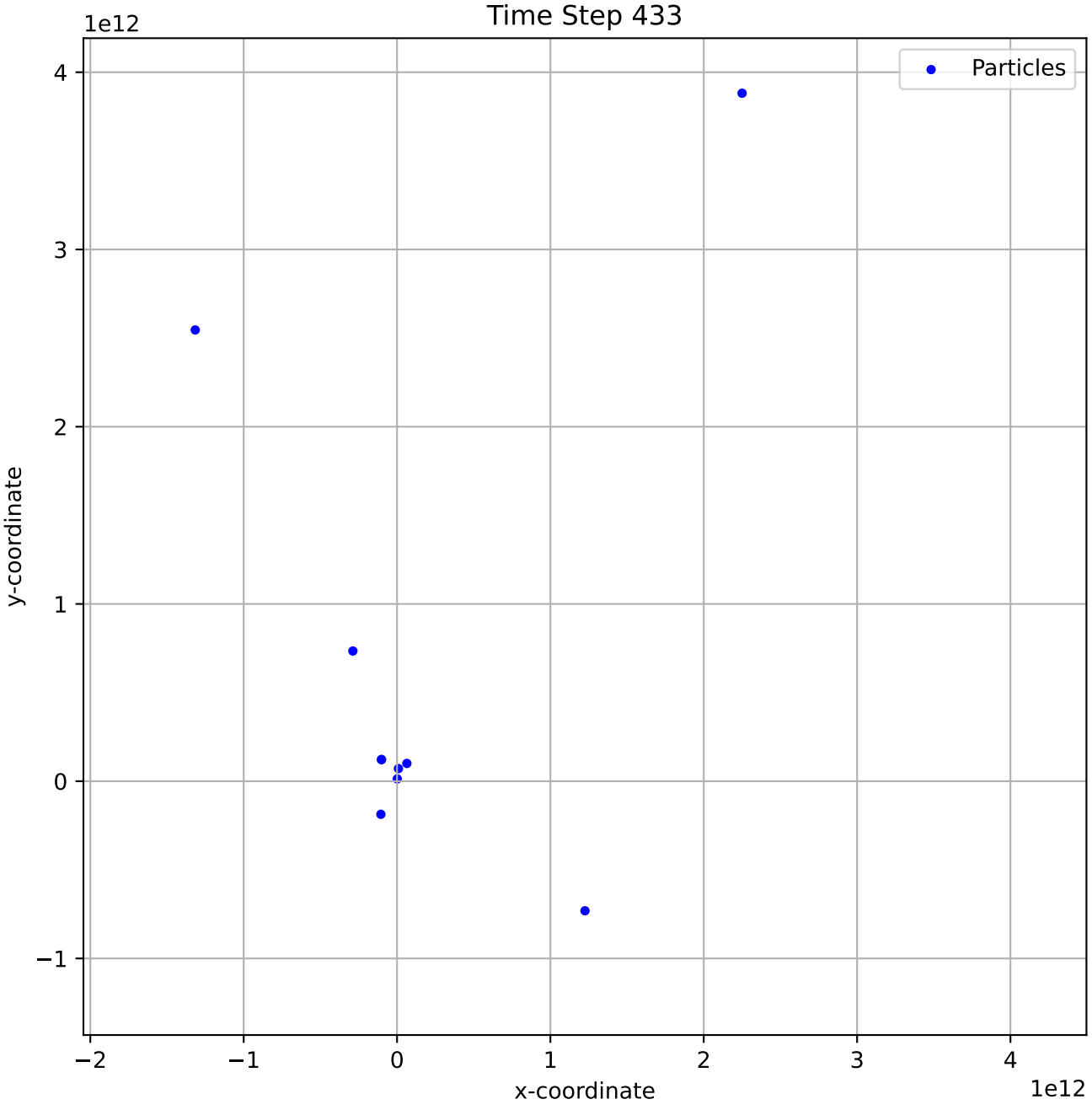

Time Step 428
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

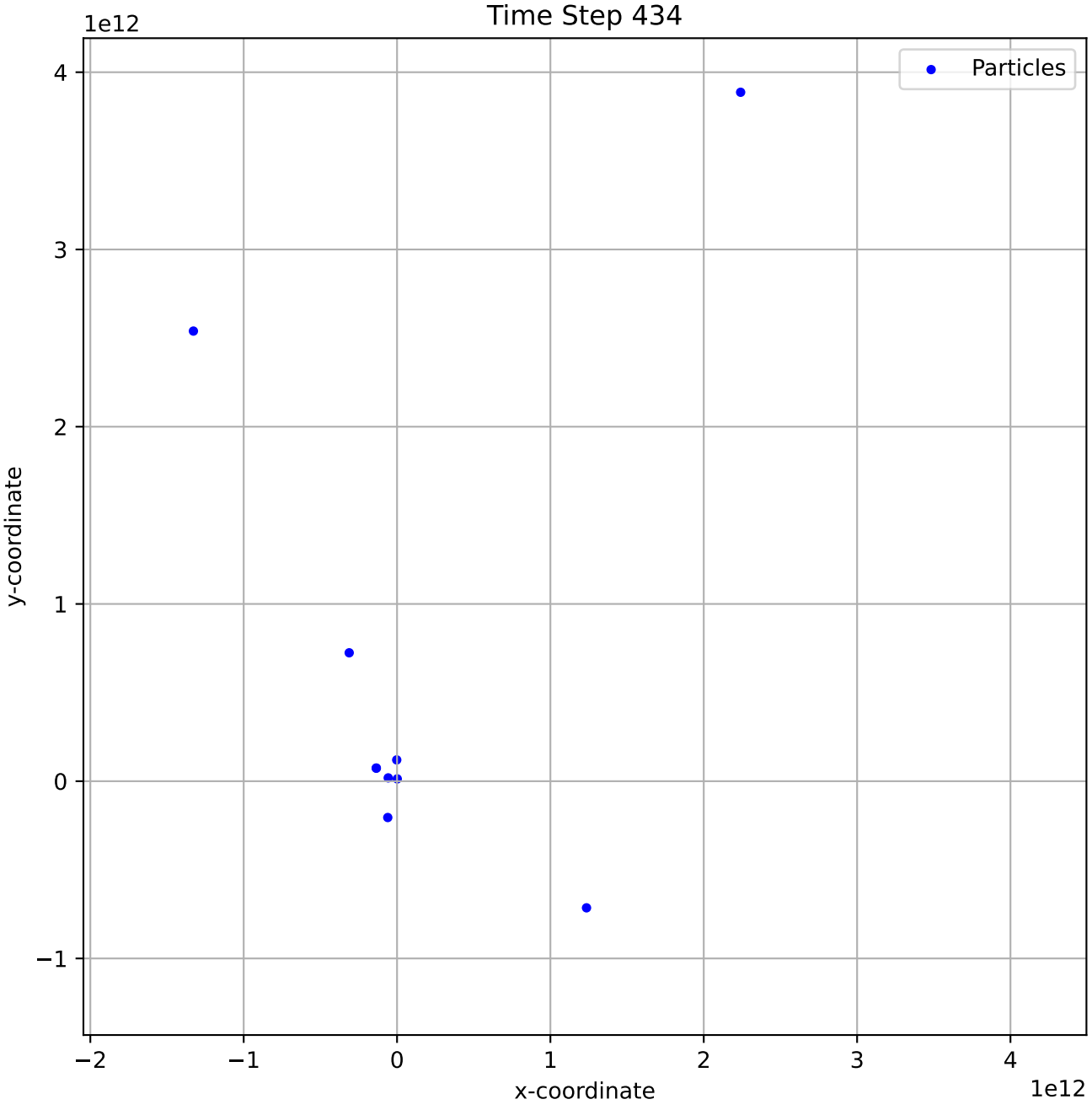

Time Step 429
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

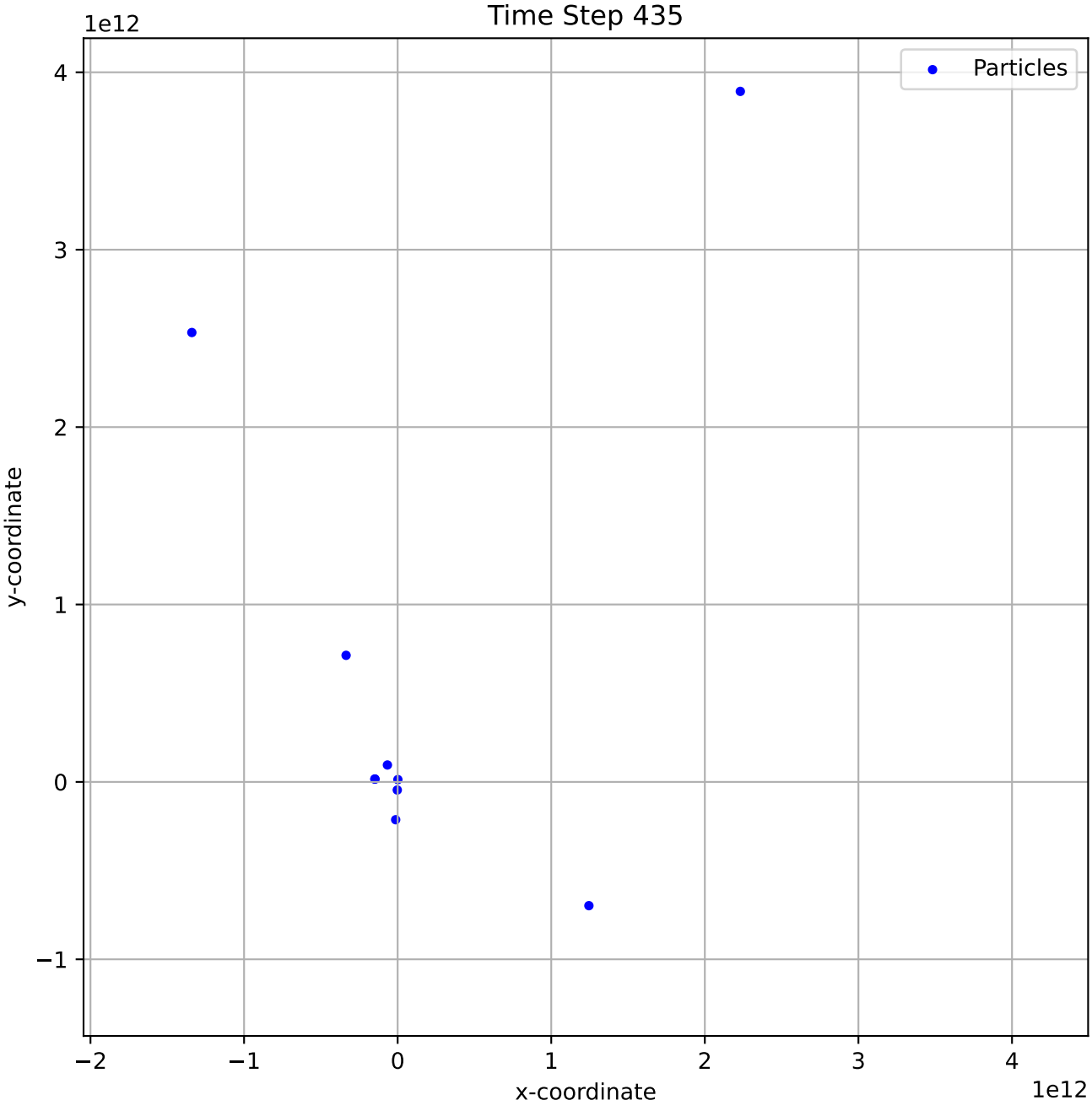

Time Step 430
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

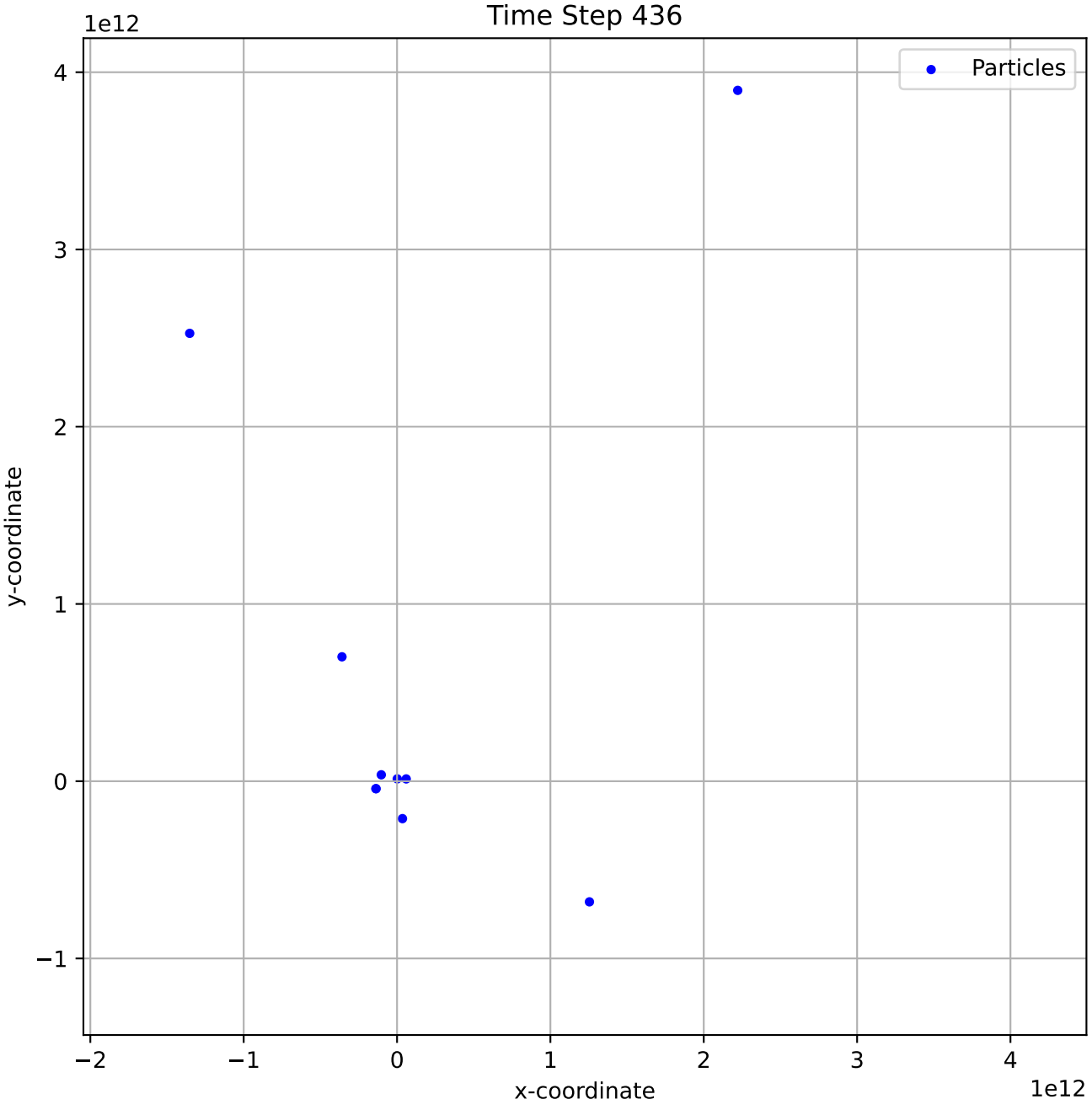

Time Step 431
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

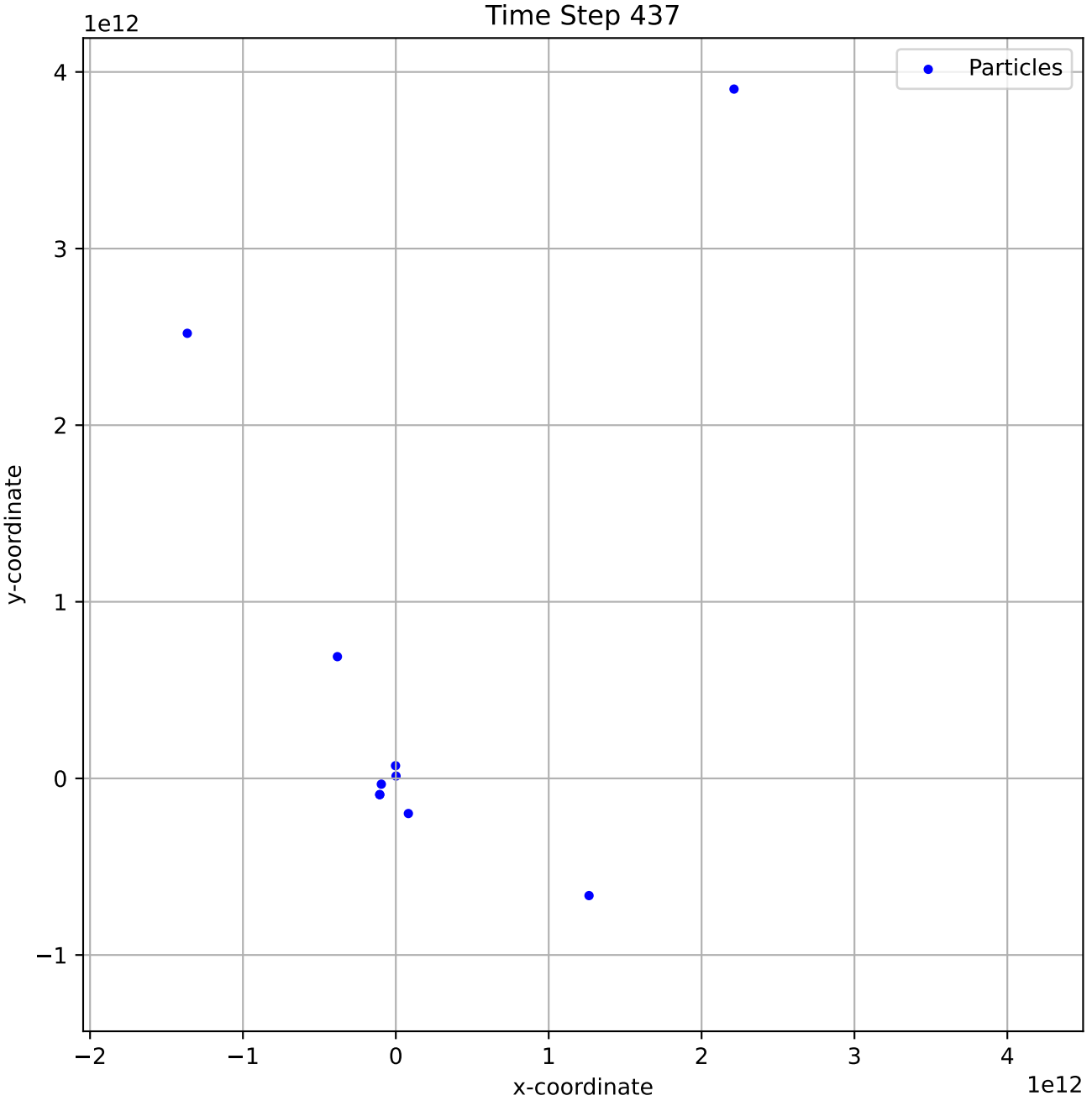

Time Step 432
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

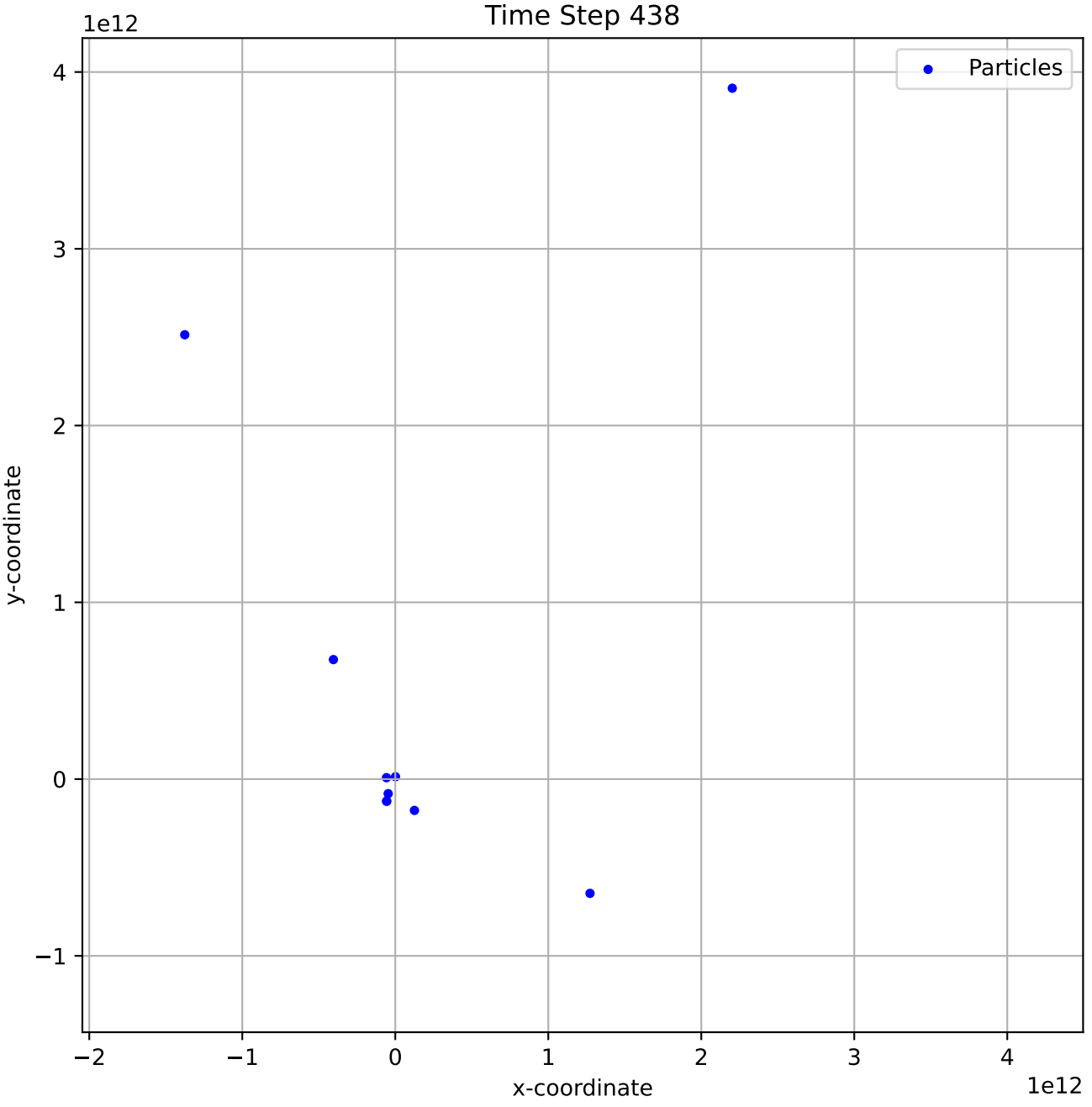

Time Step 433
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

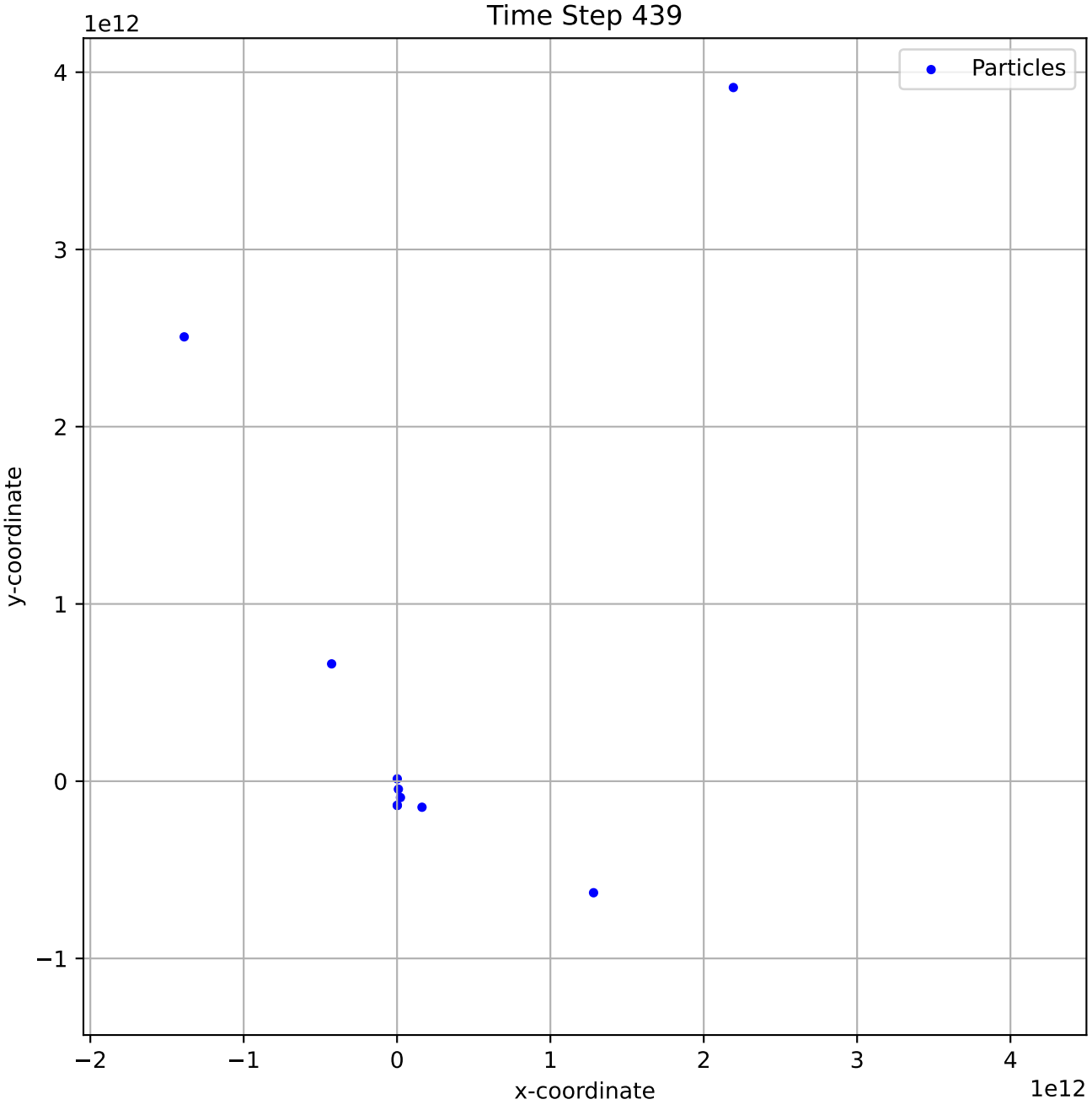

Time Step 434
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

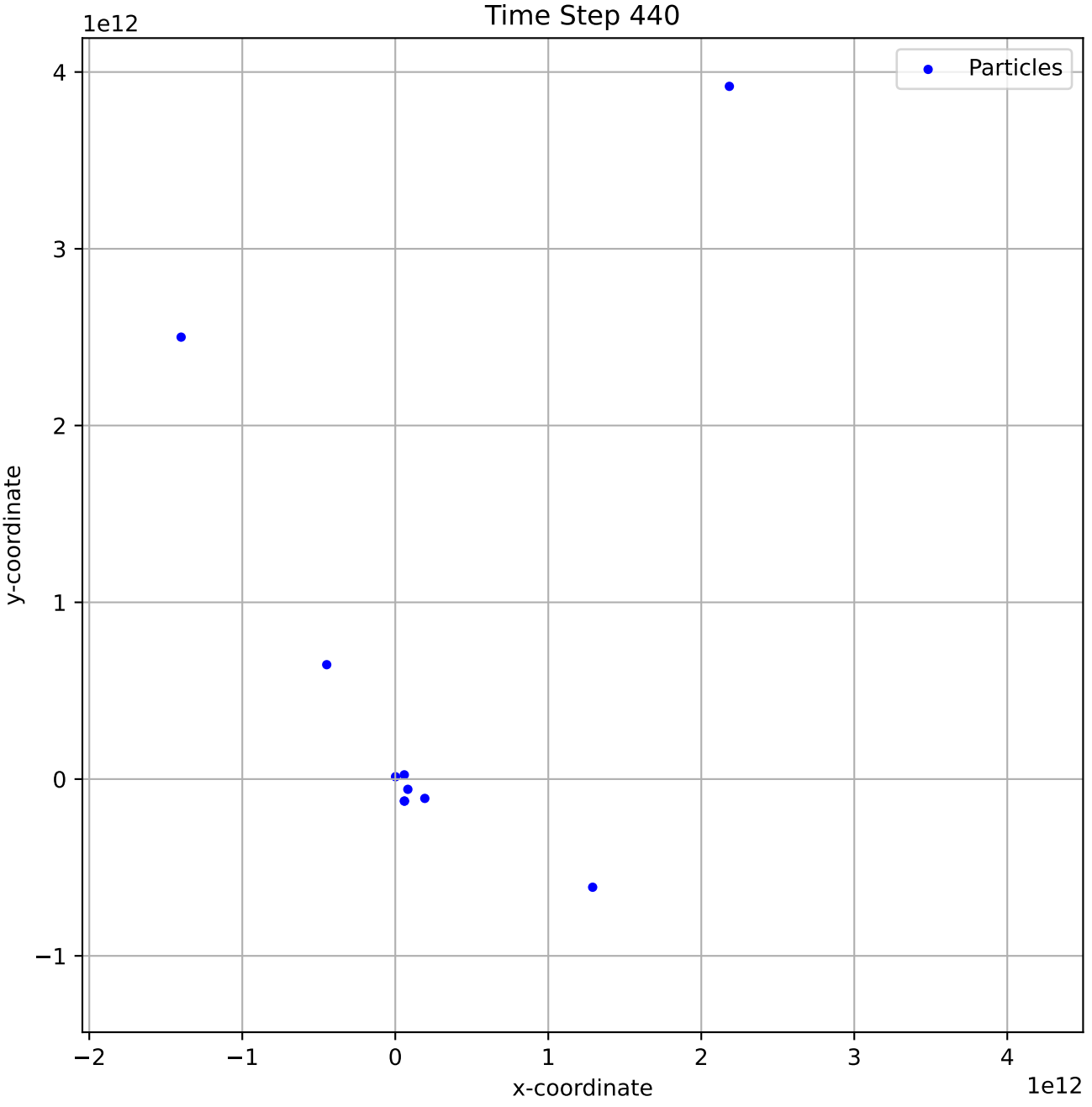

Time Step 435
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

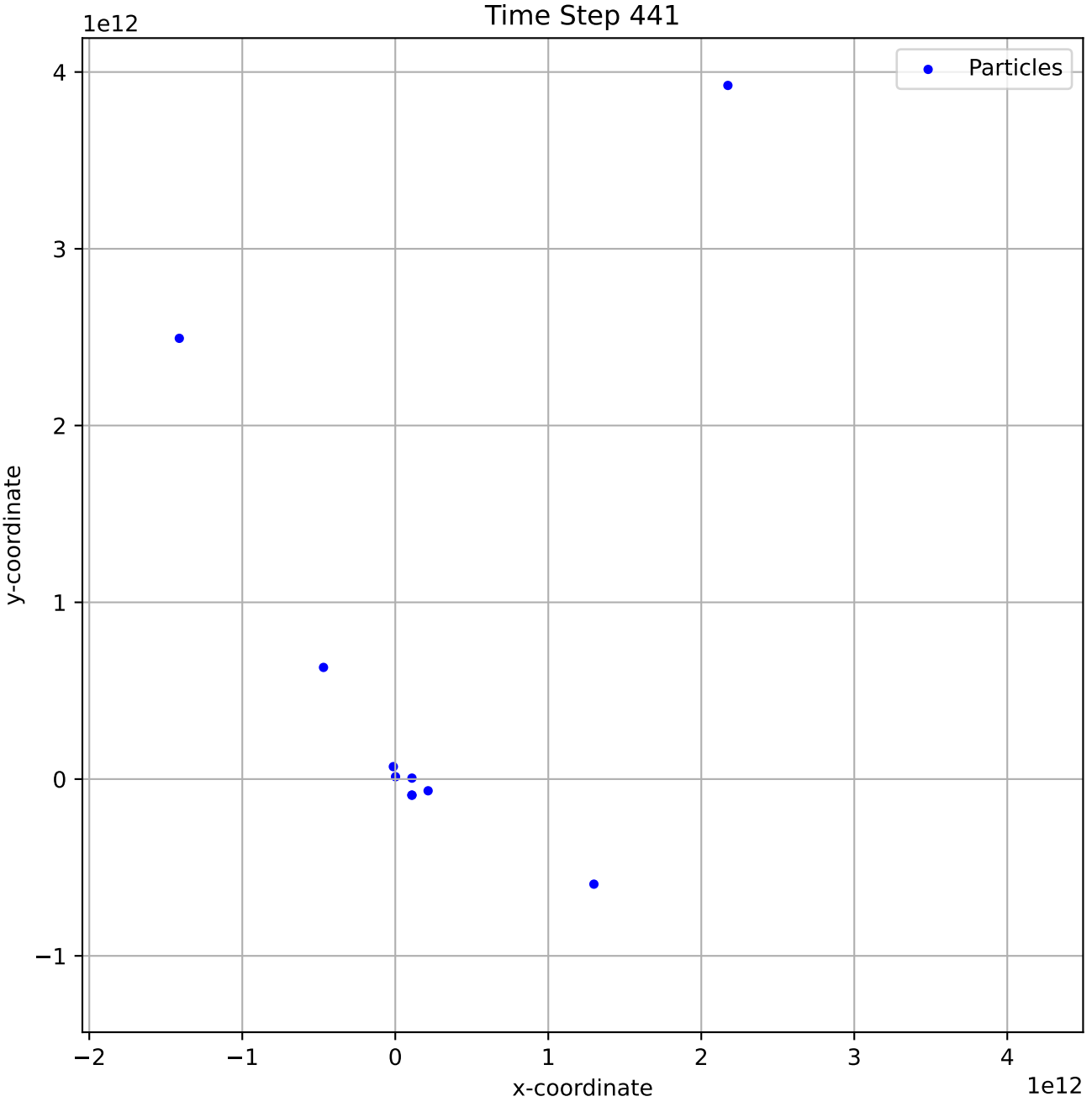

Time Step 436
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

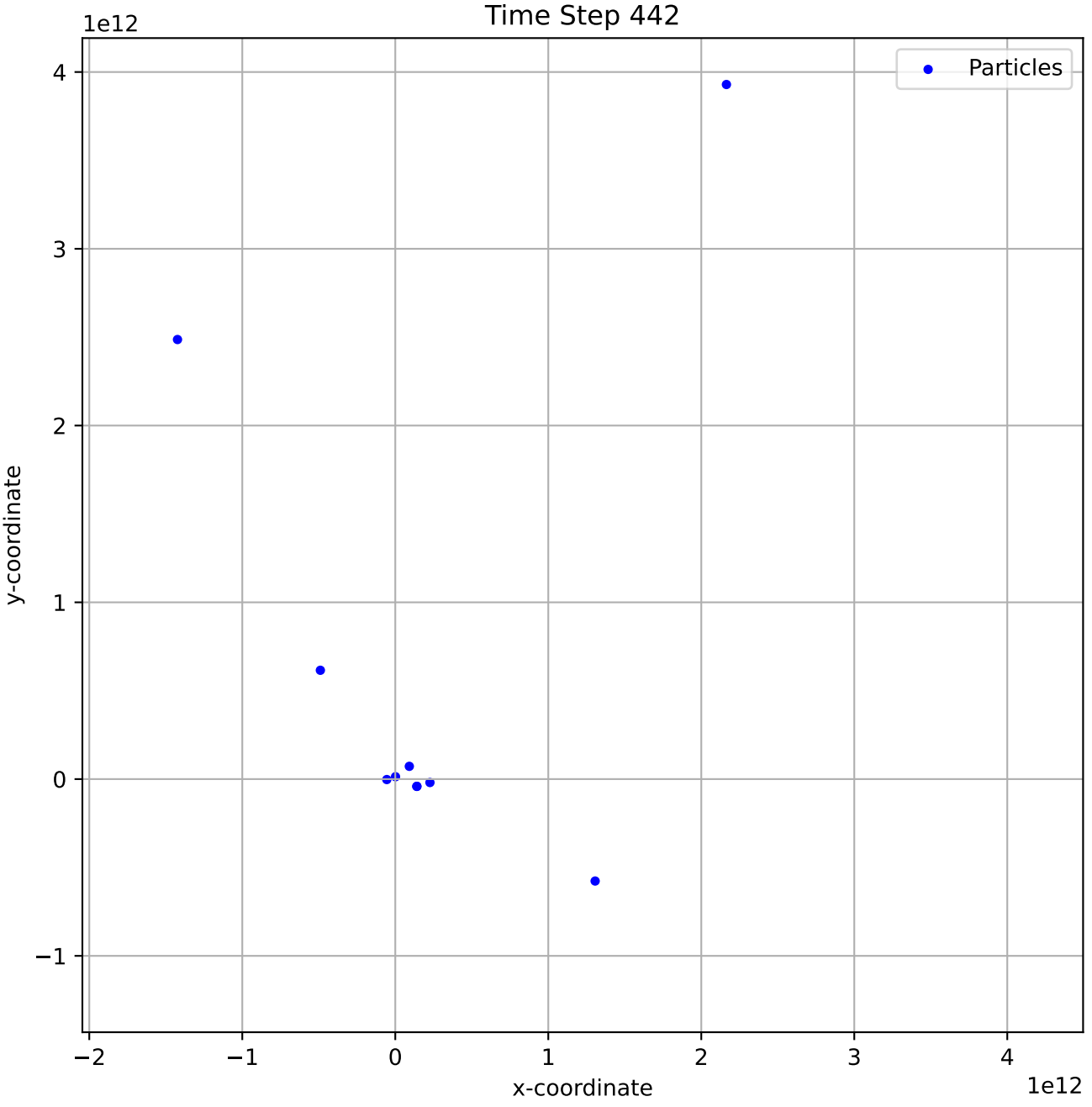

Time Step 437
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

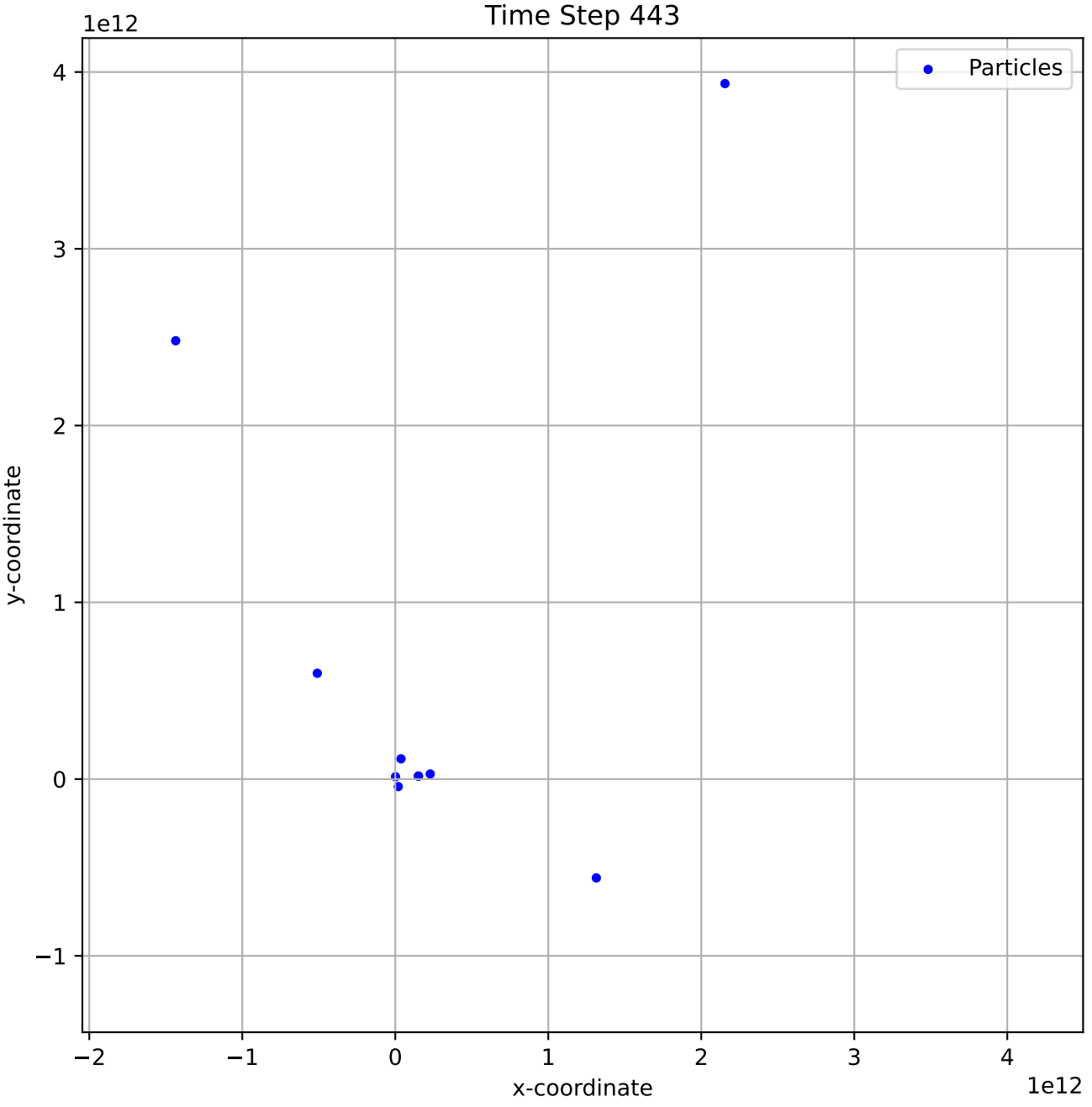

Time Step 438
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

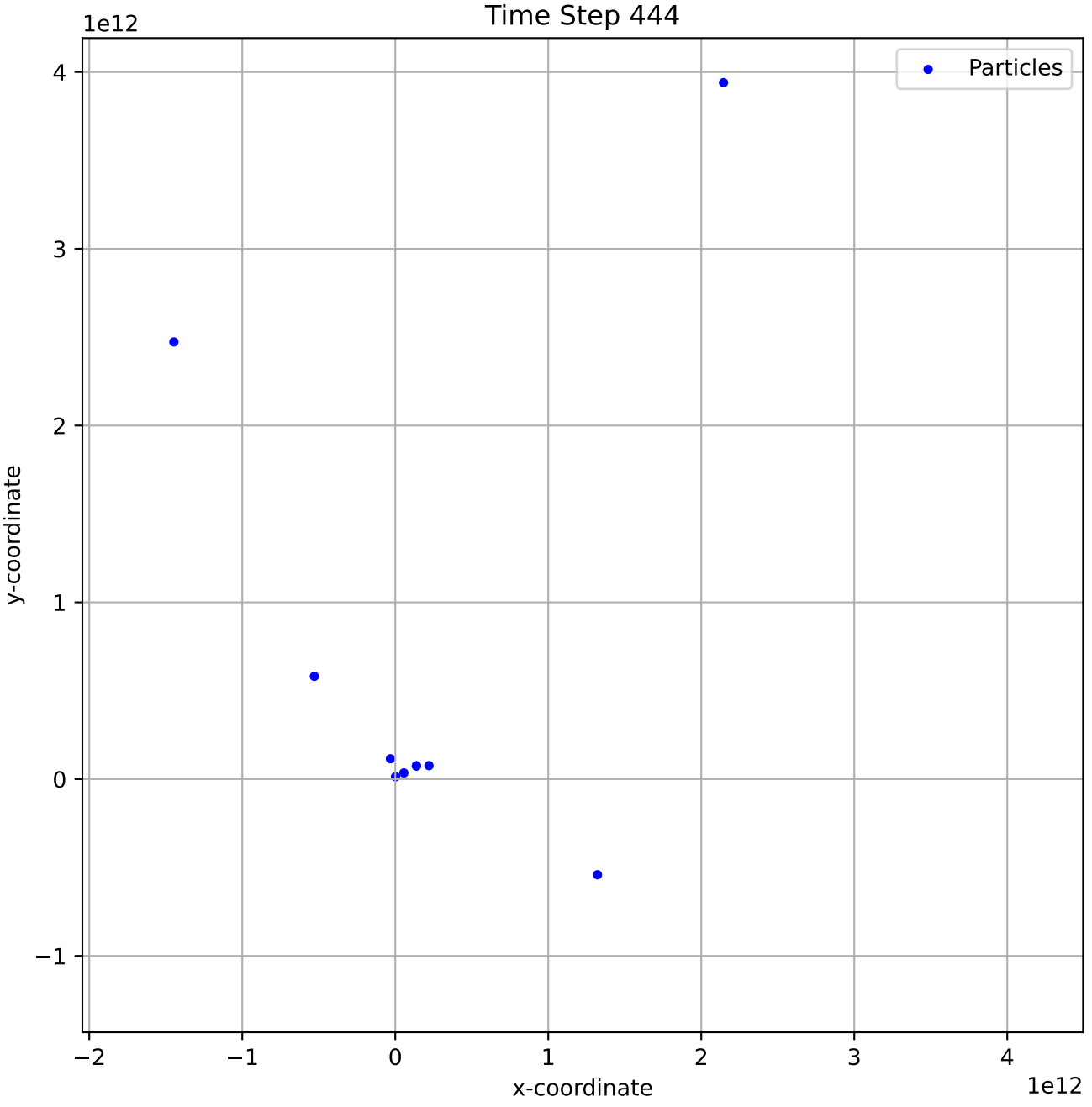

Time Step 439
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

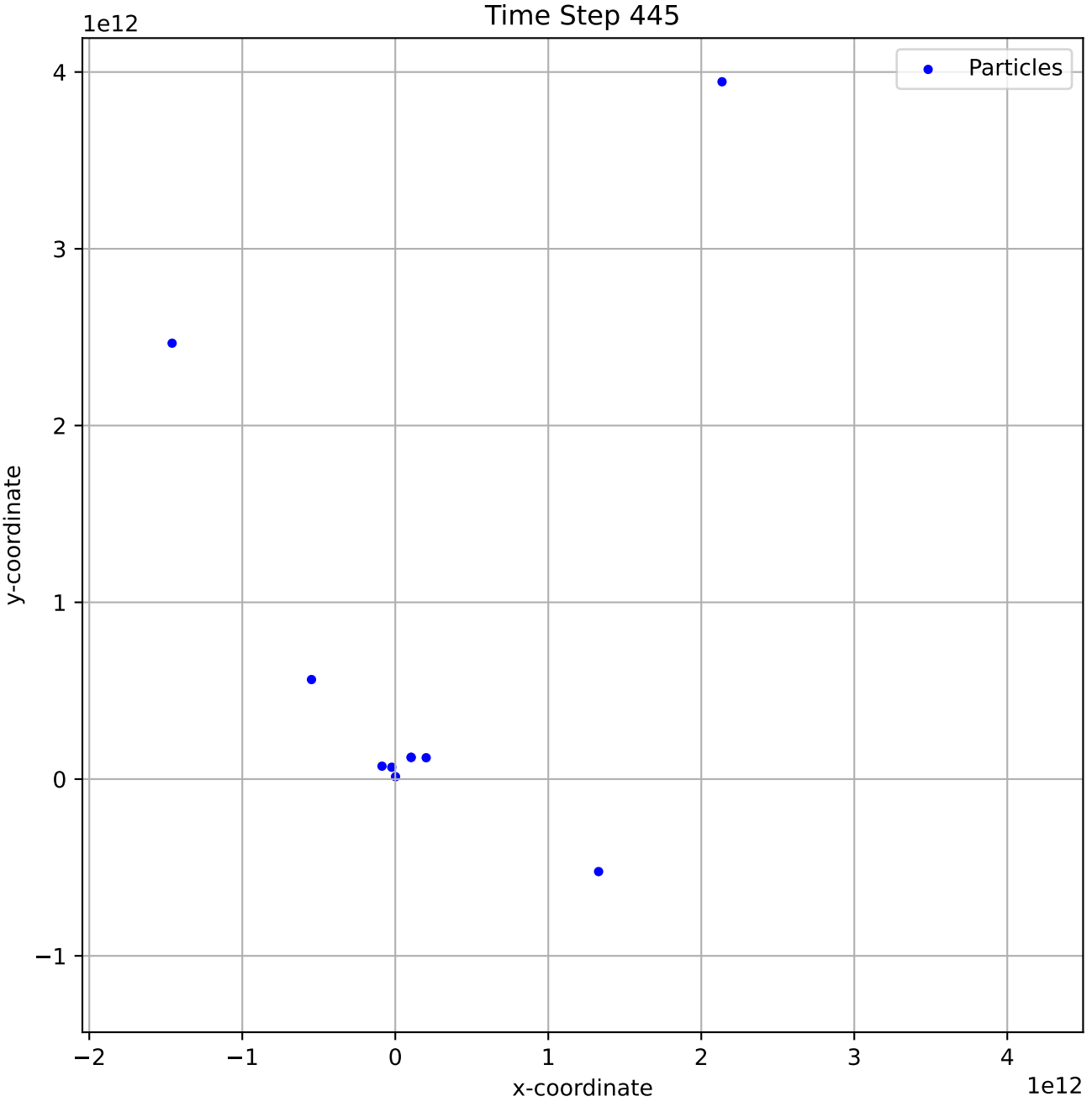

Time Step 440
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

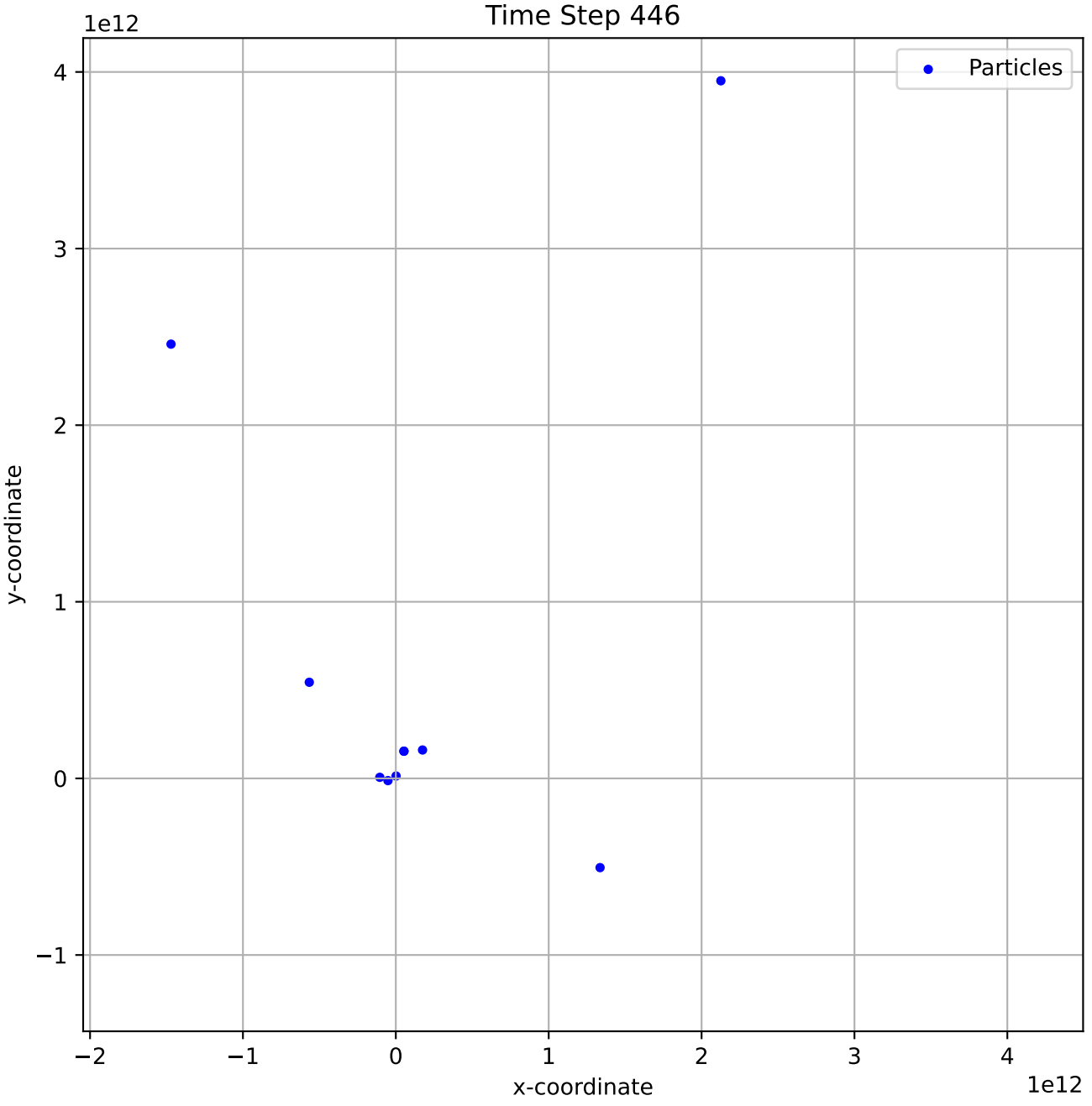

Time Step 441
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

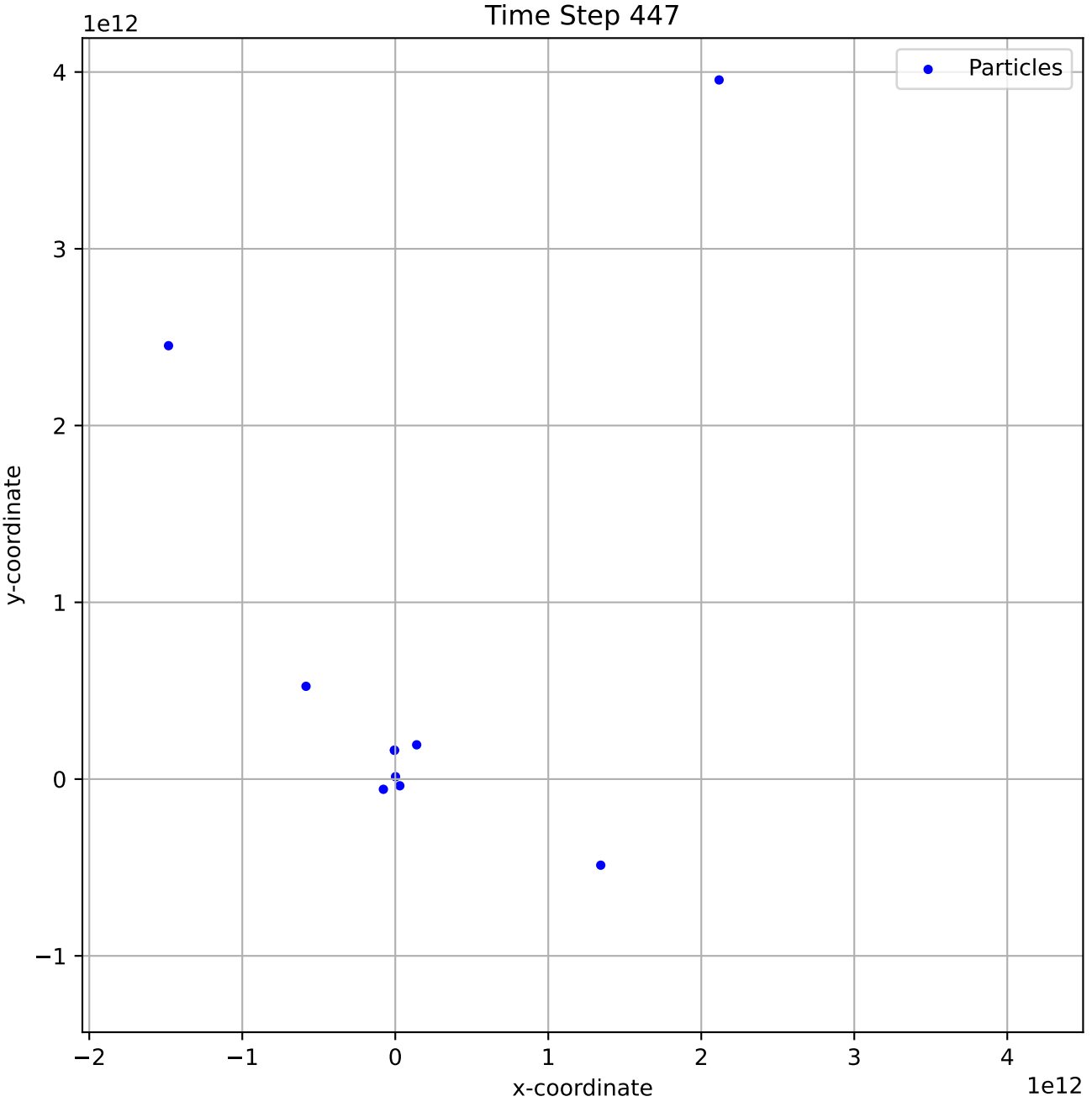

Time Step 442
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

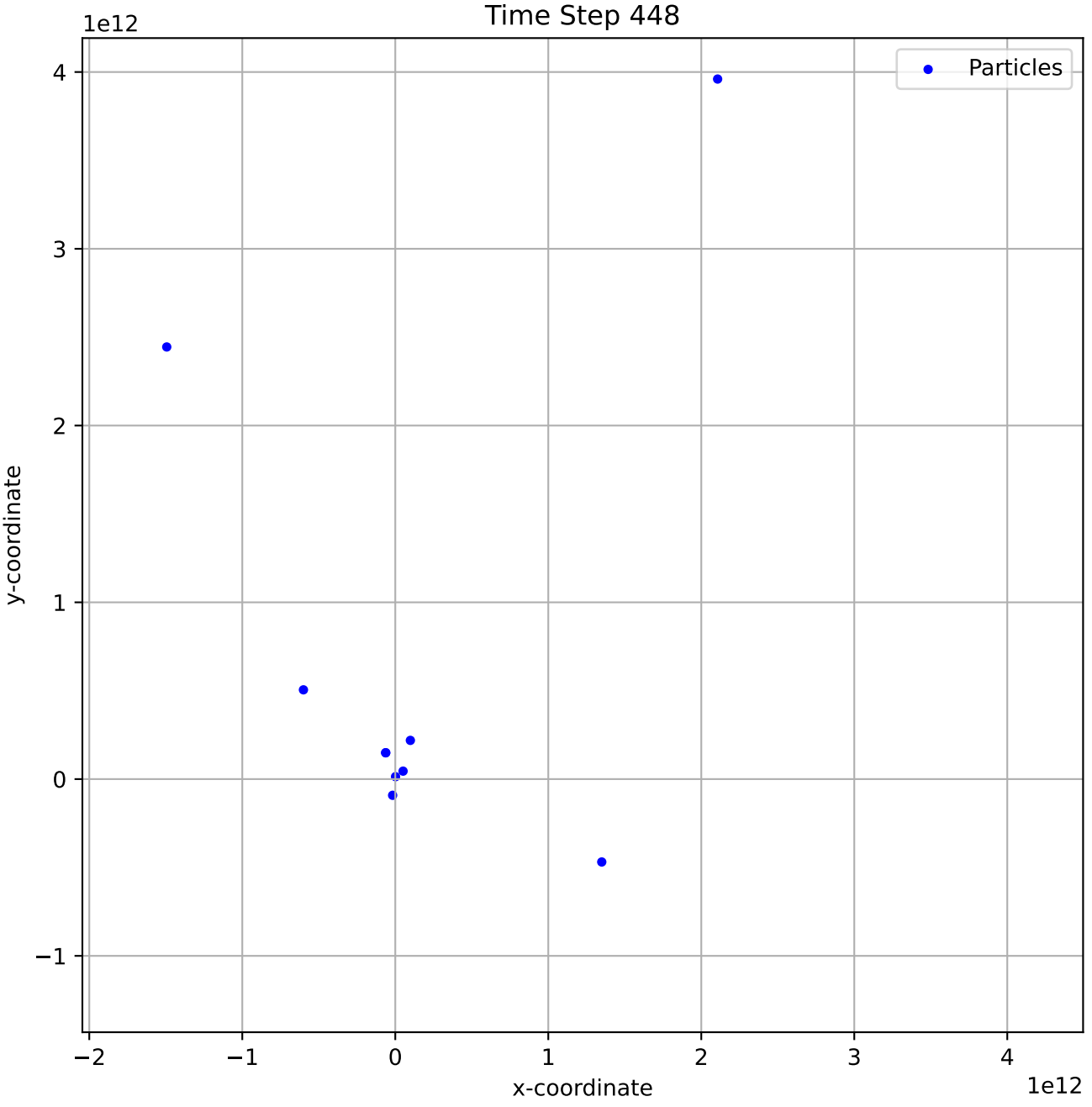

Time Step 443
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

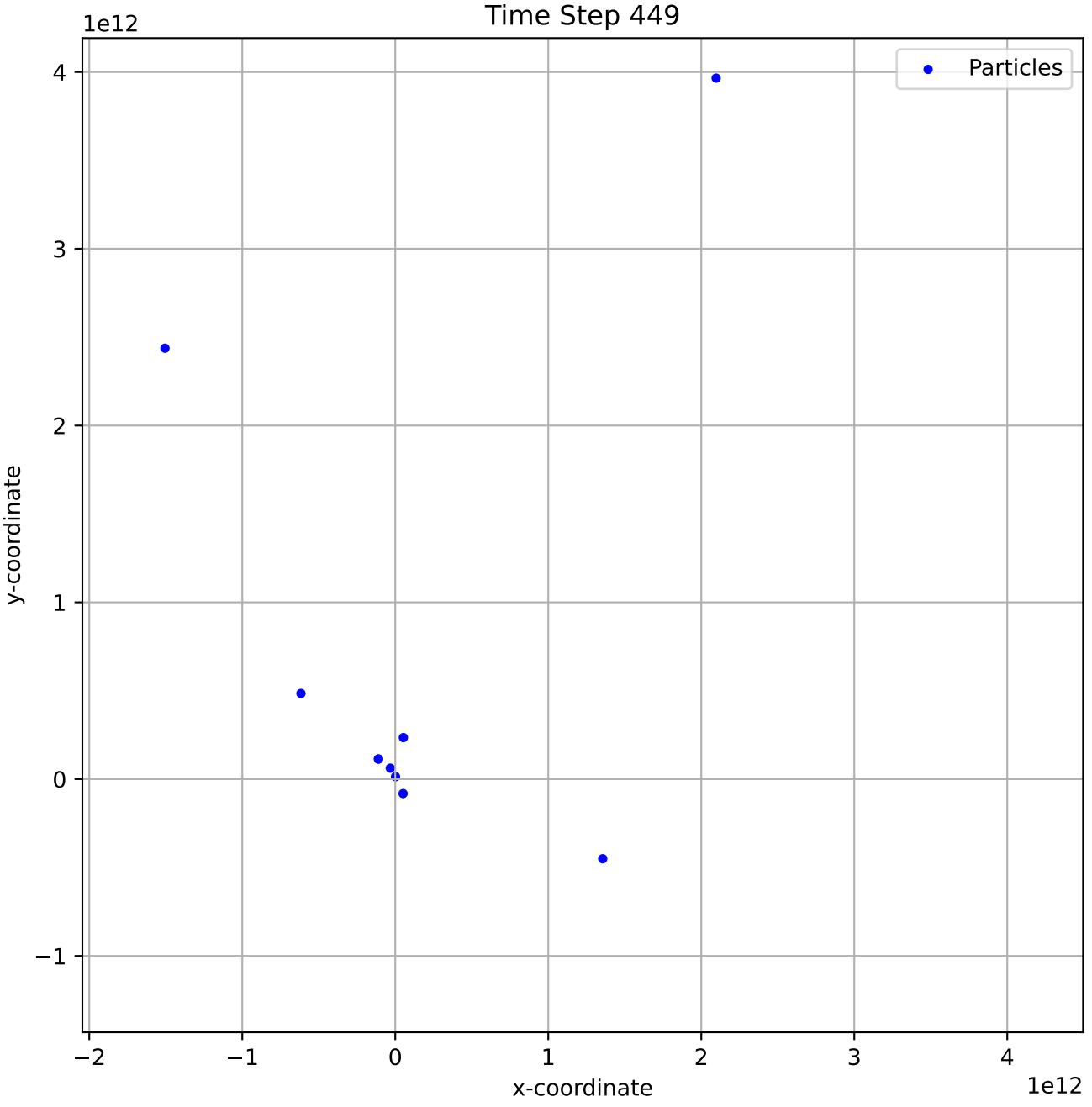

Time Step 444
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

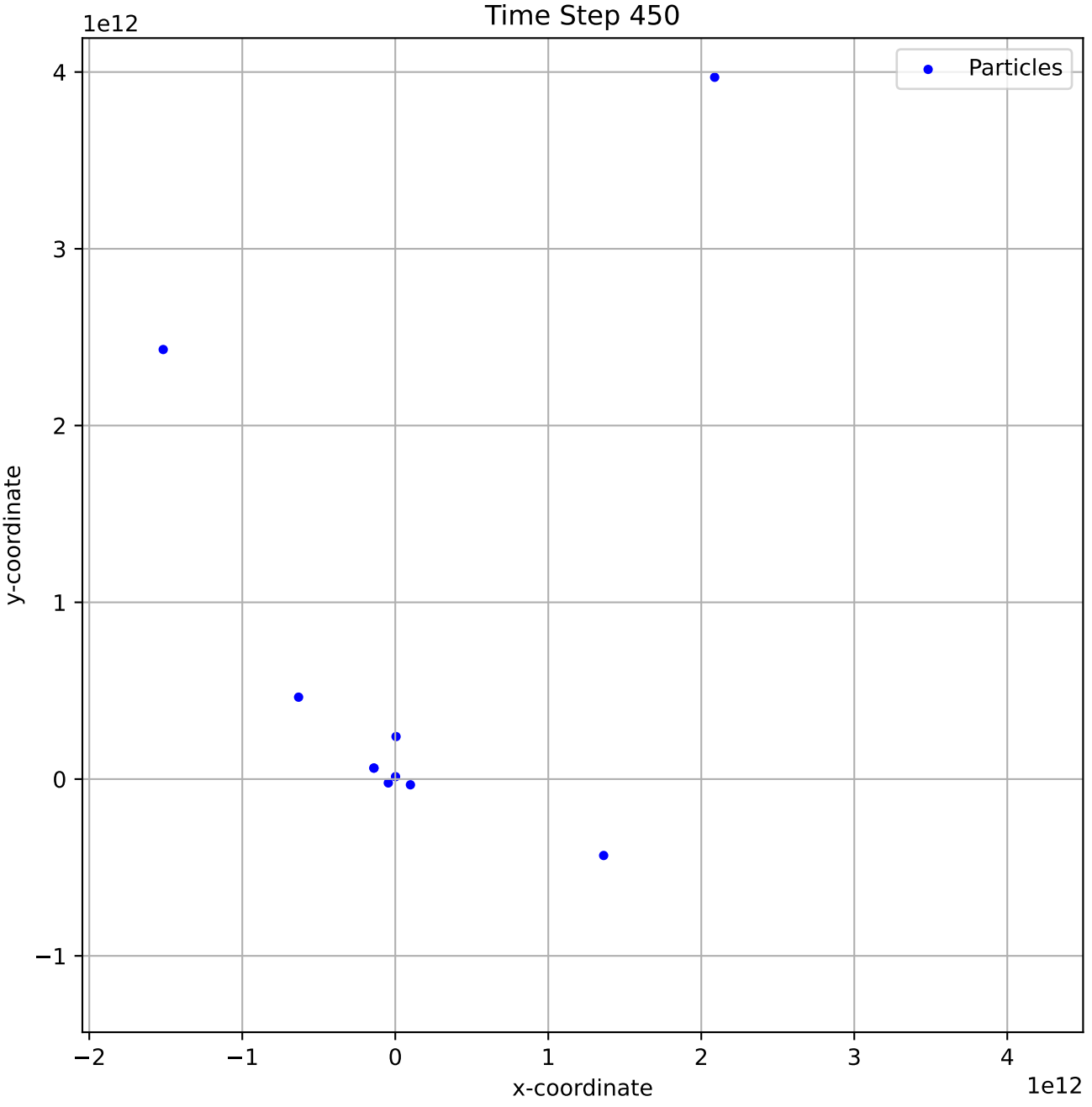

Time Step 445
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

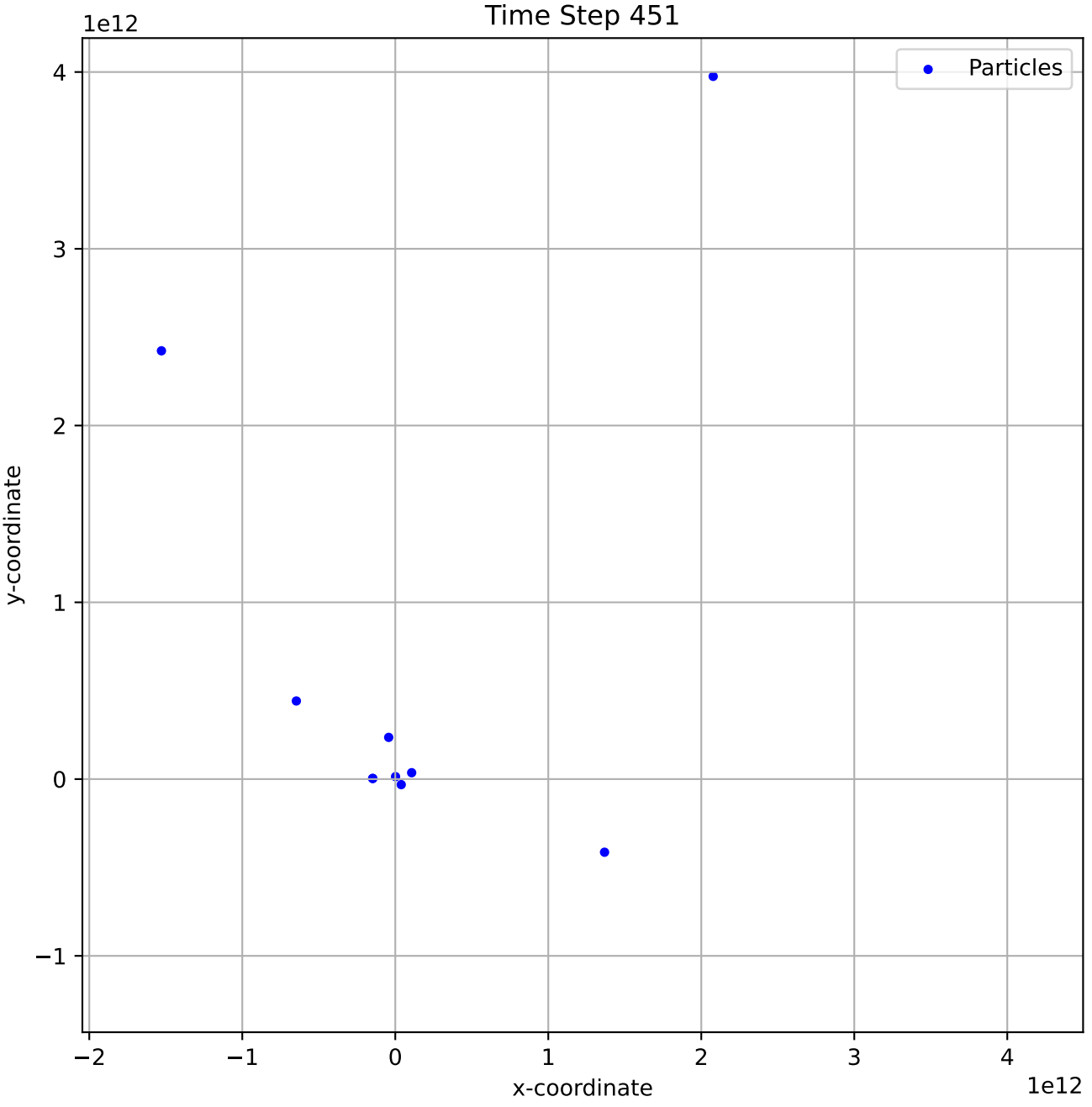

Time Step 446
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

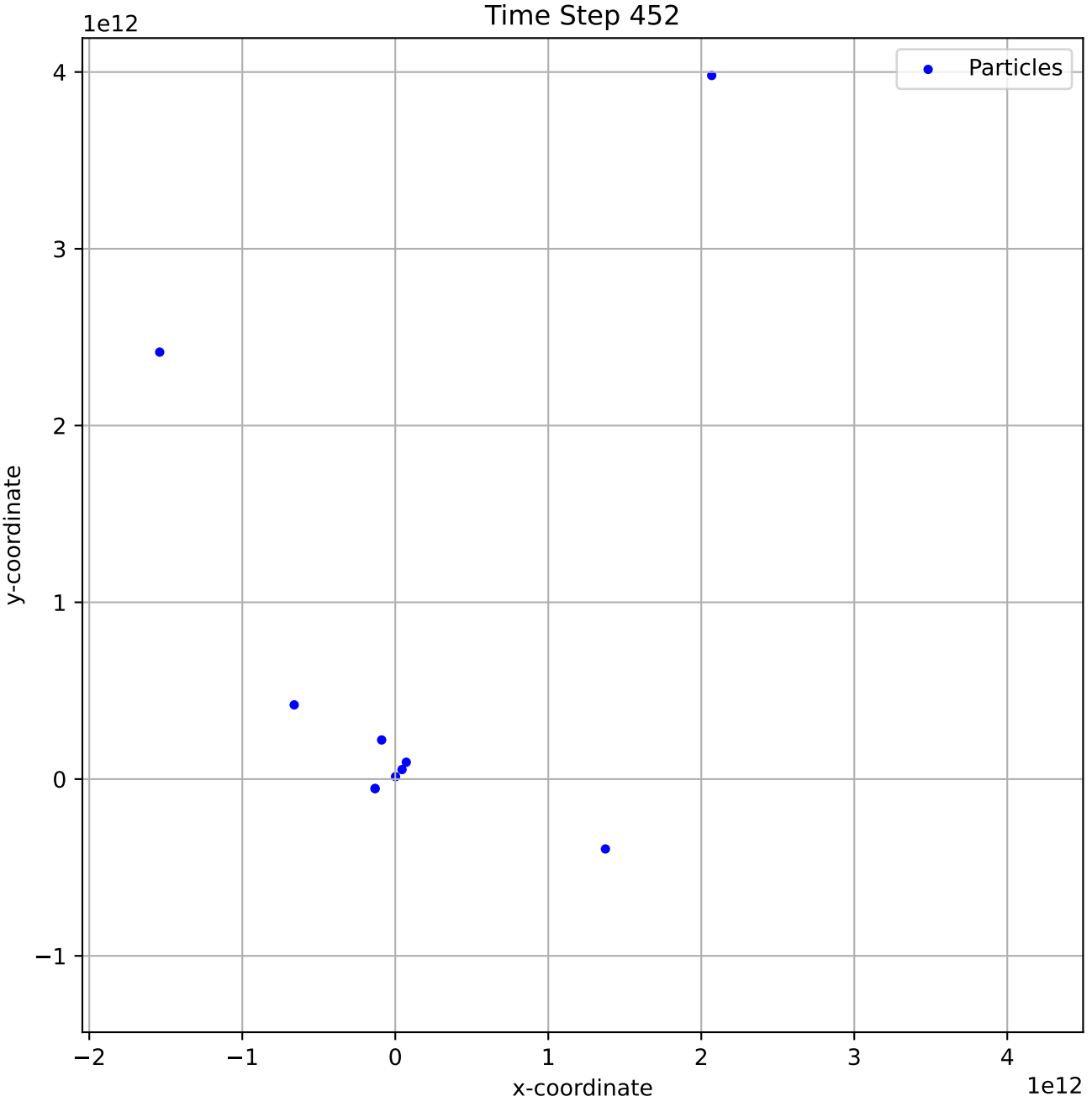

Time Step 447
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

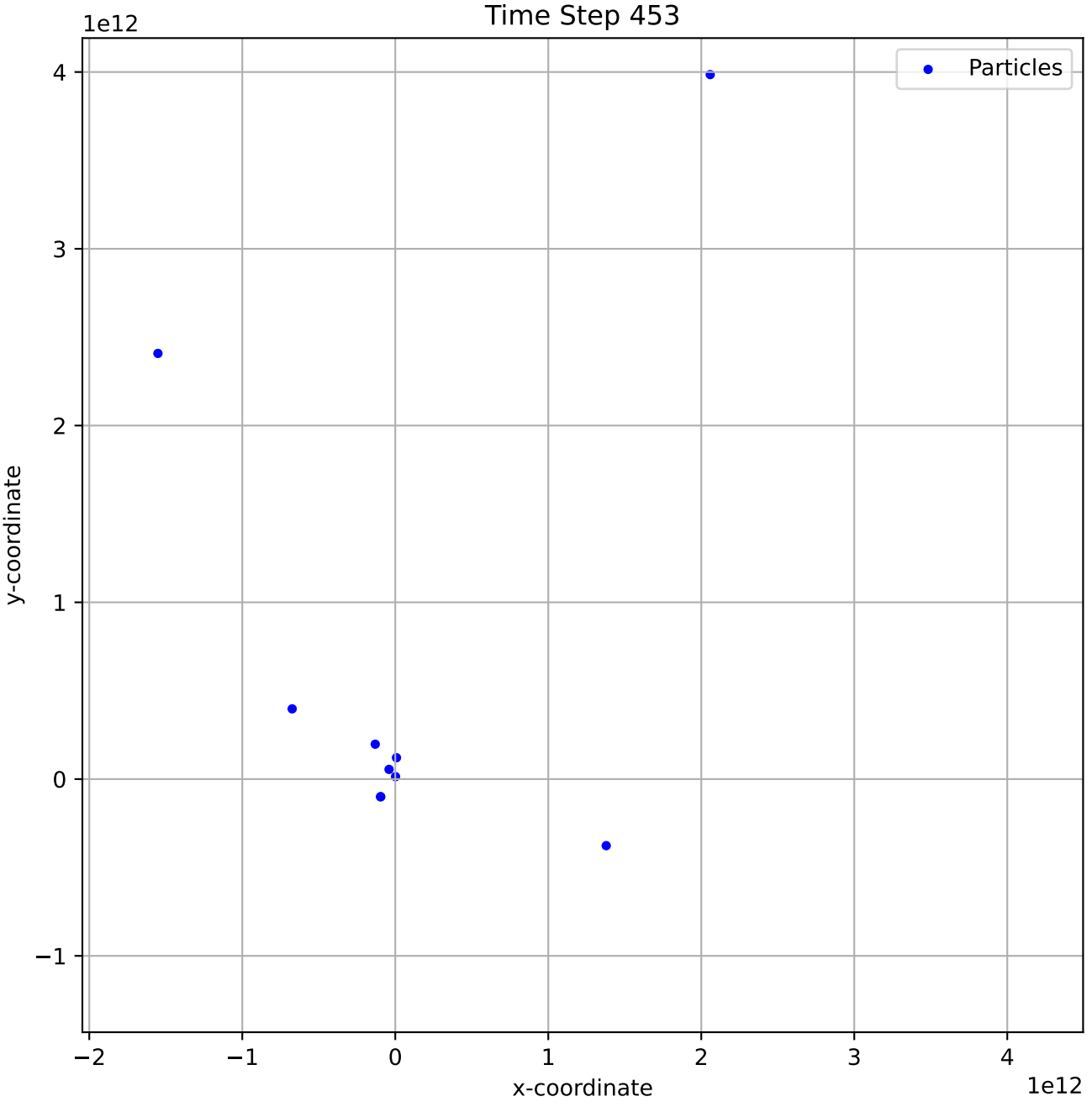

Time Step 448
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

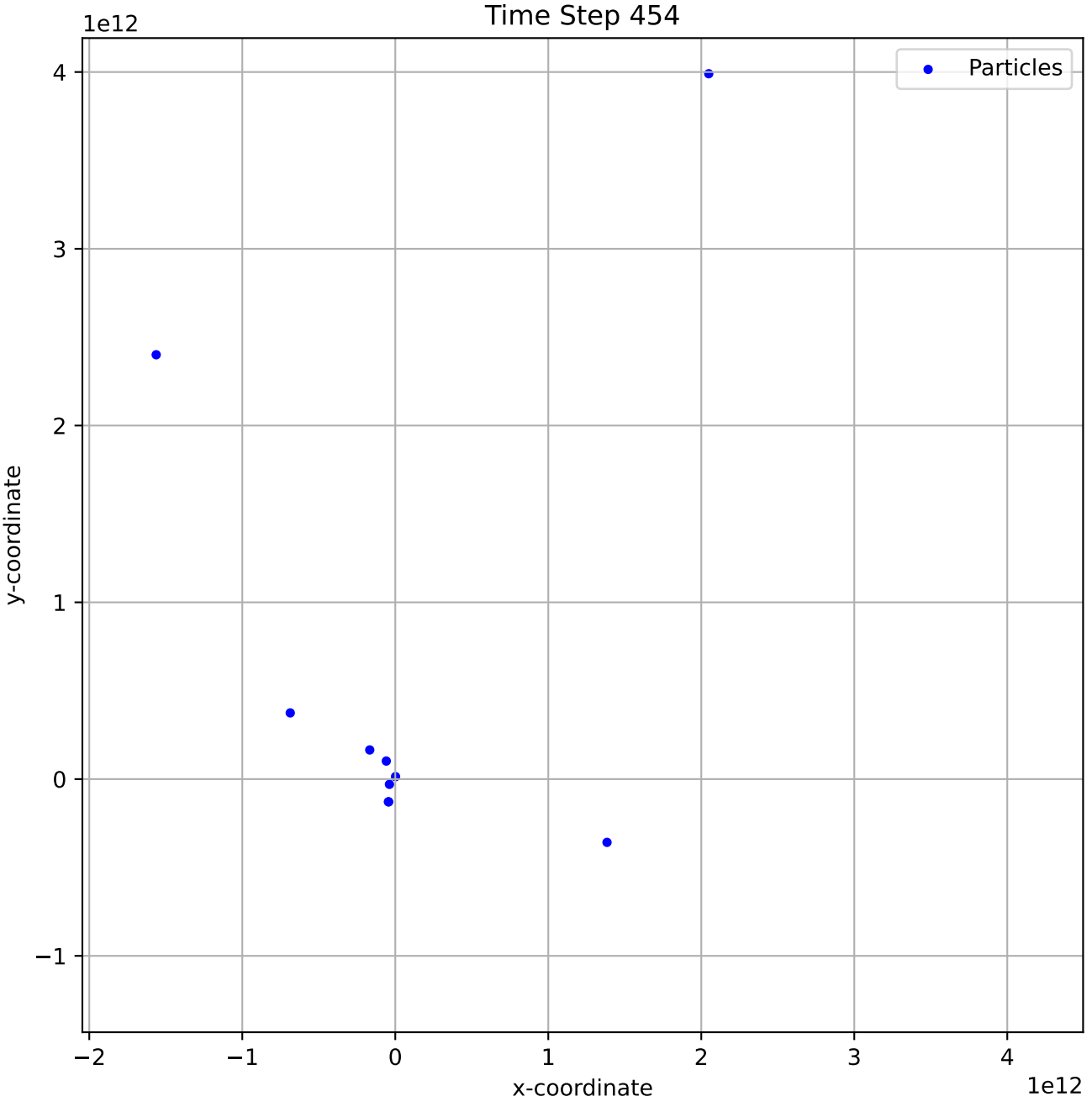

Time Step 449
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

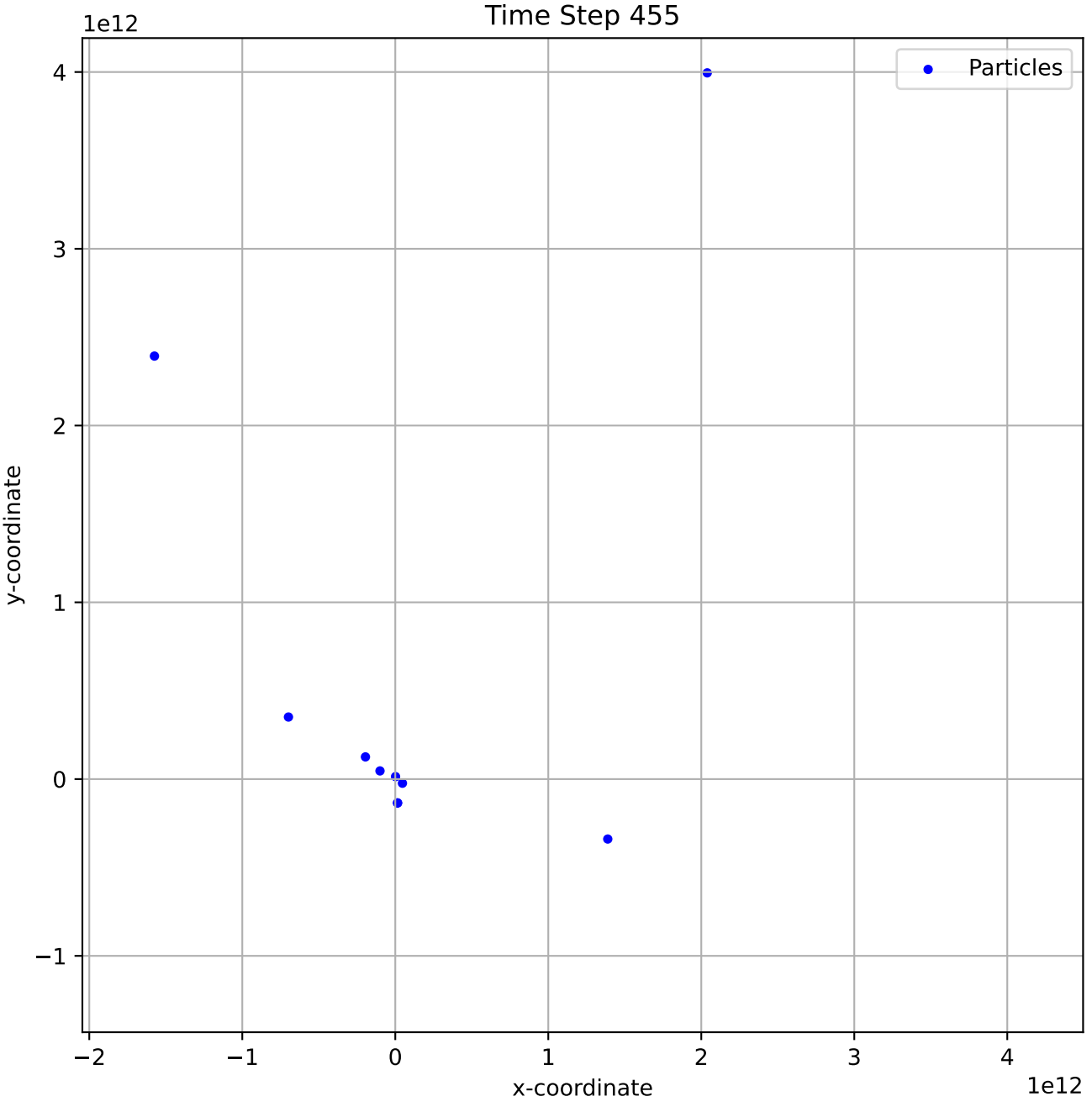

Time Step 450
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

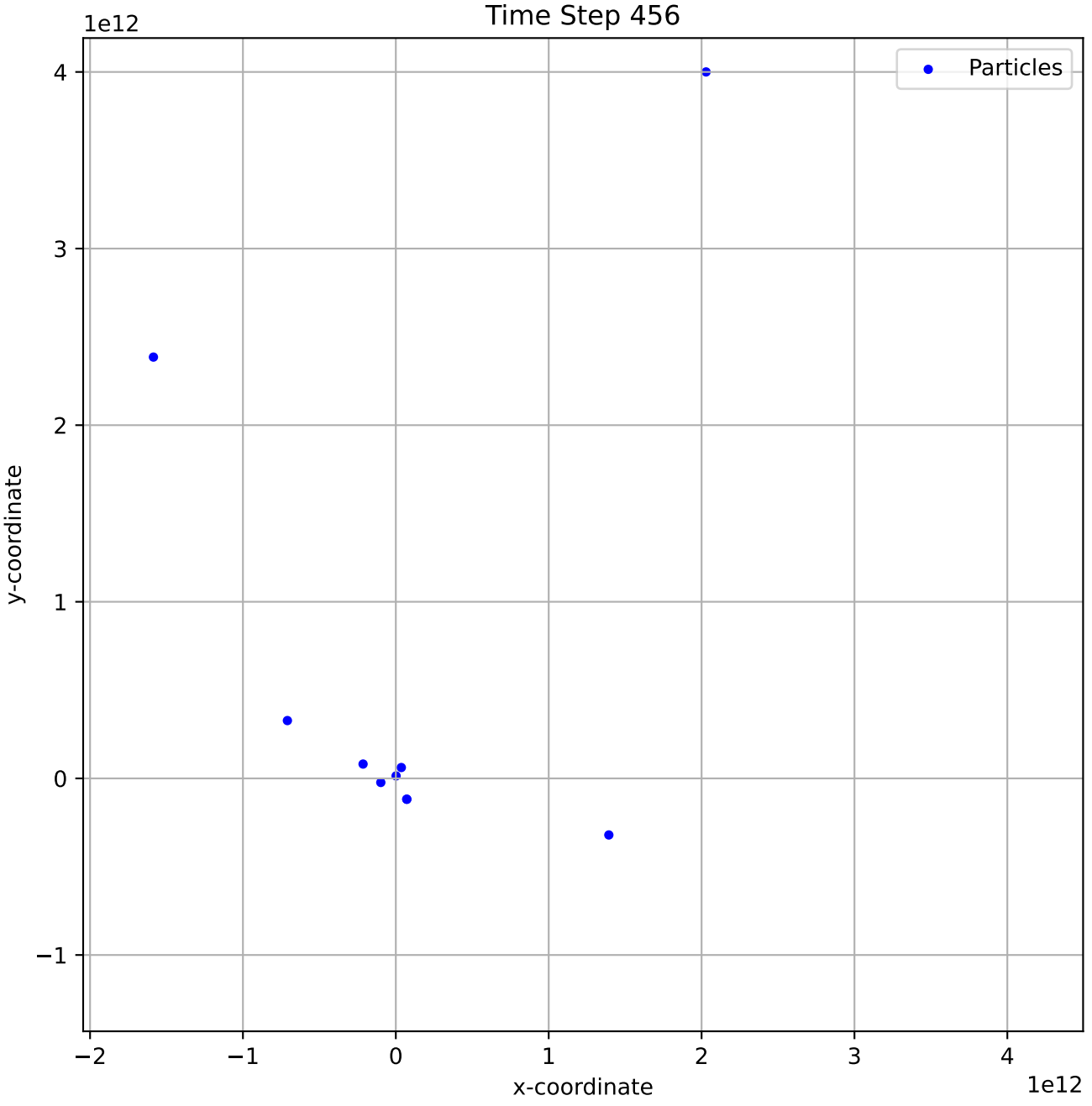

Time Step 451
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

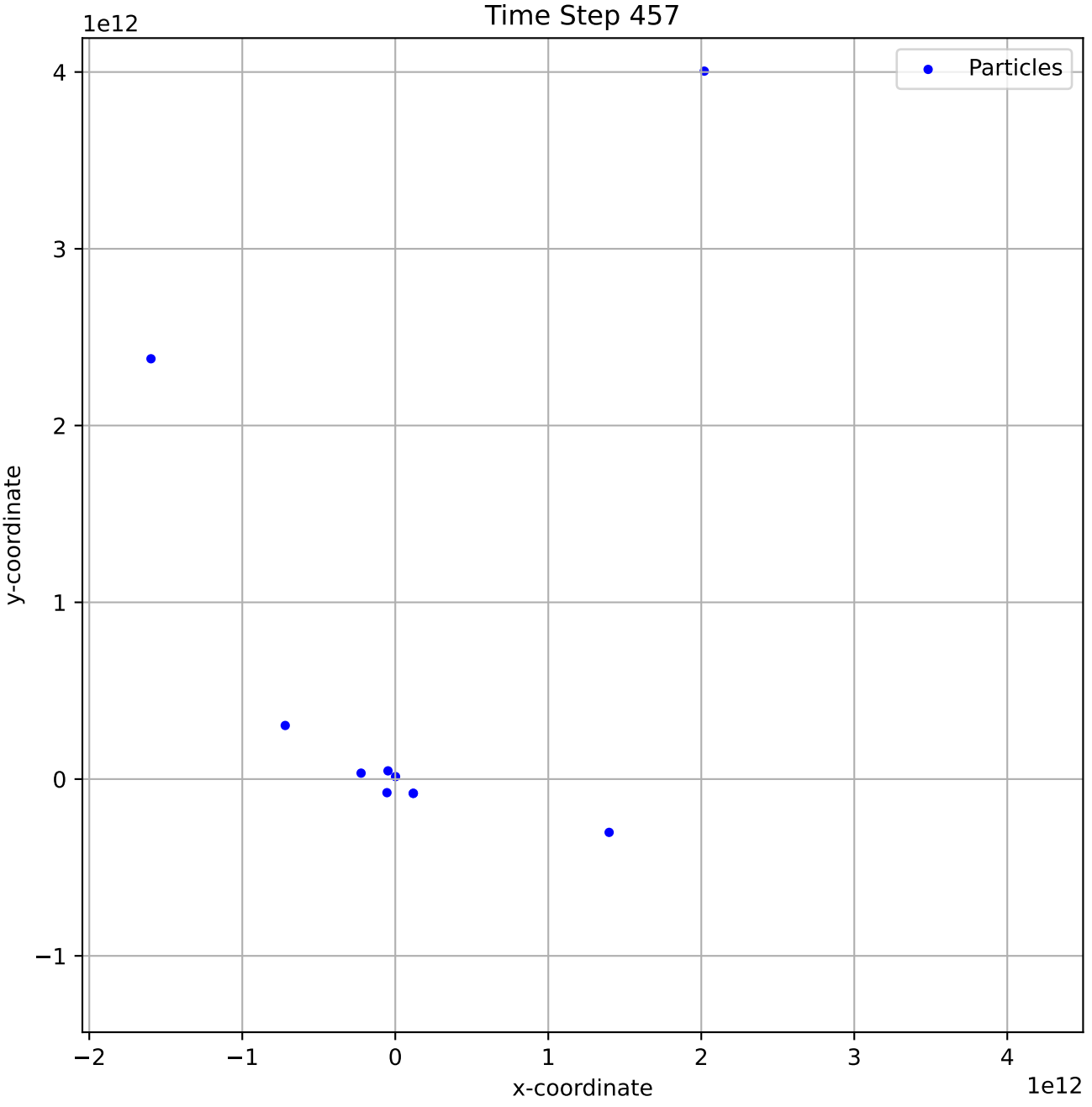

Time Step 452
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

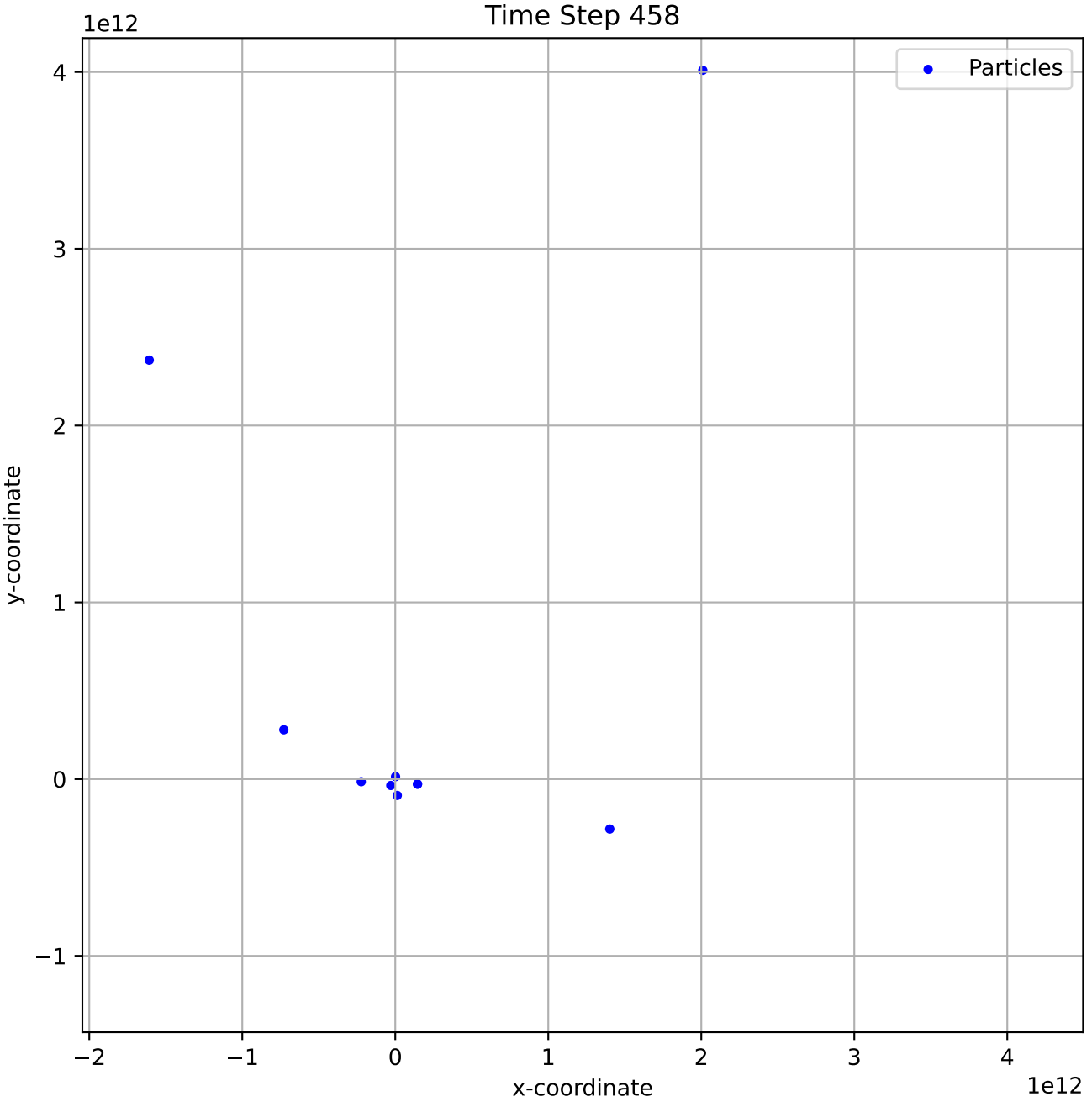

Time Step 453
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

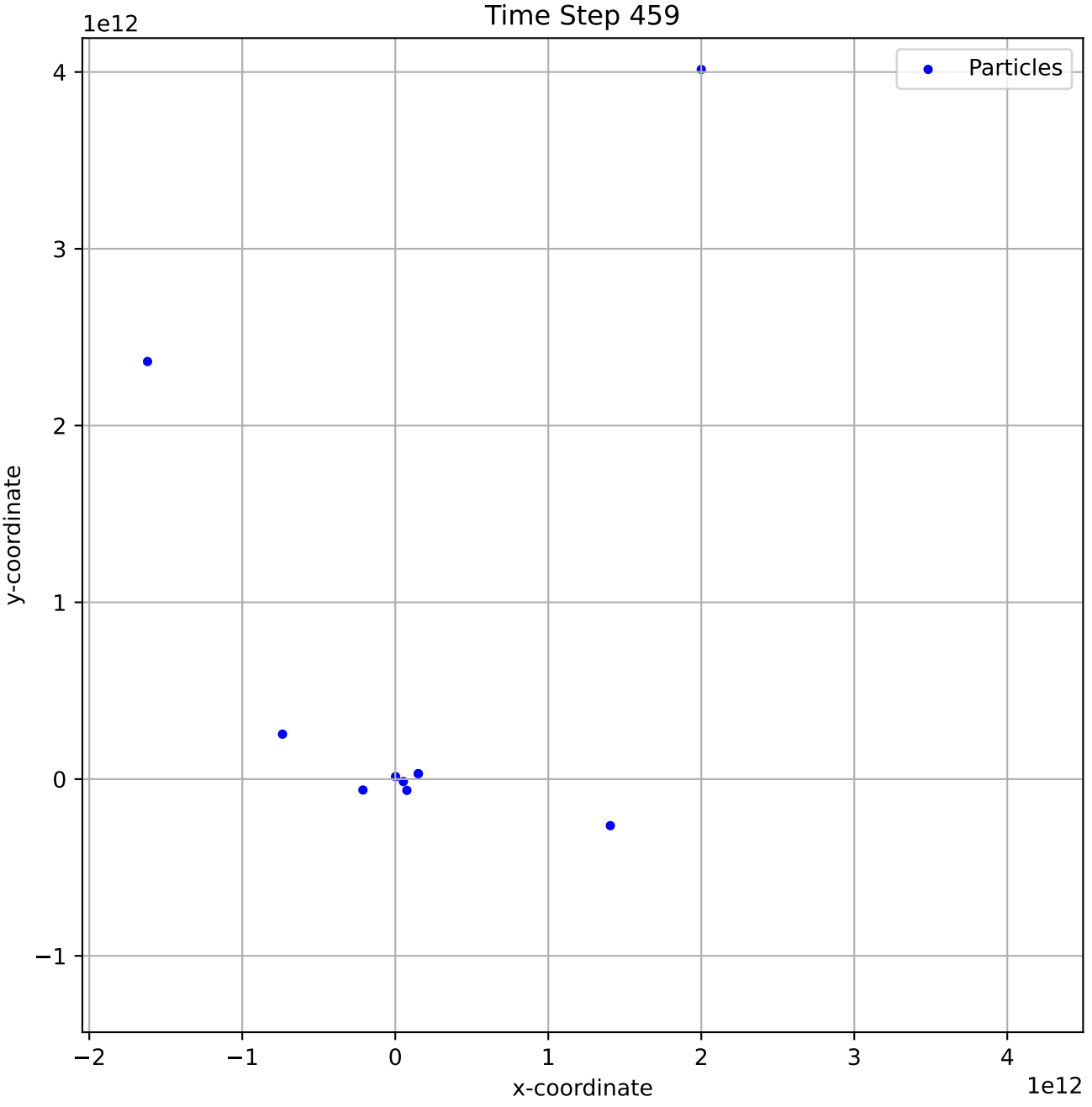

Time Step 454
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

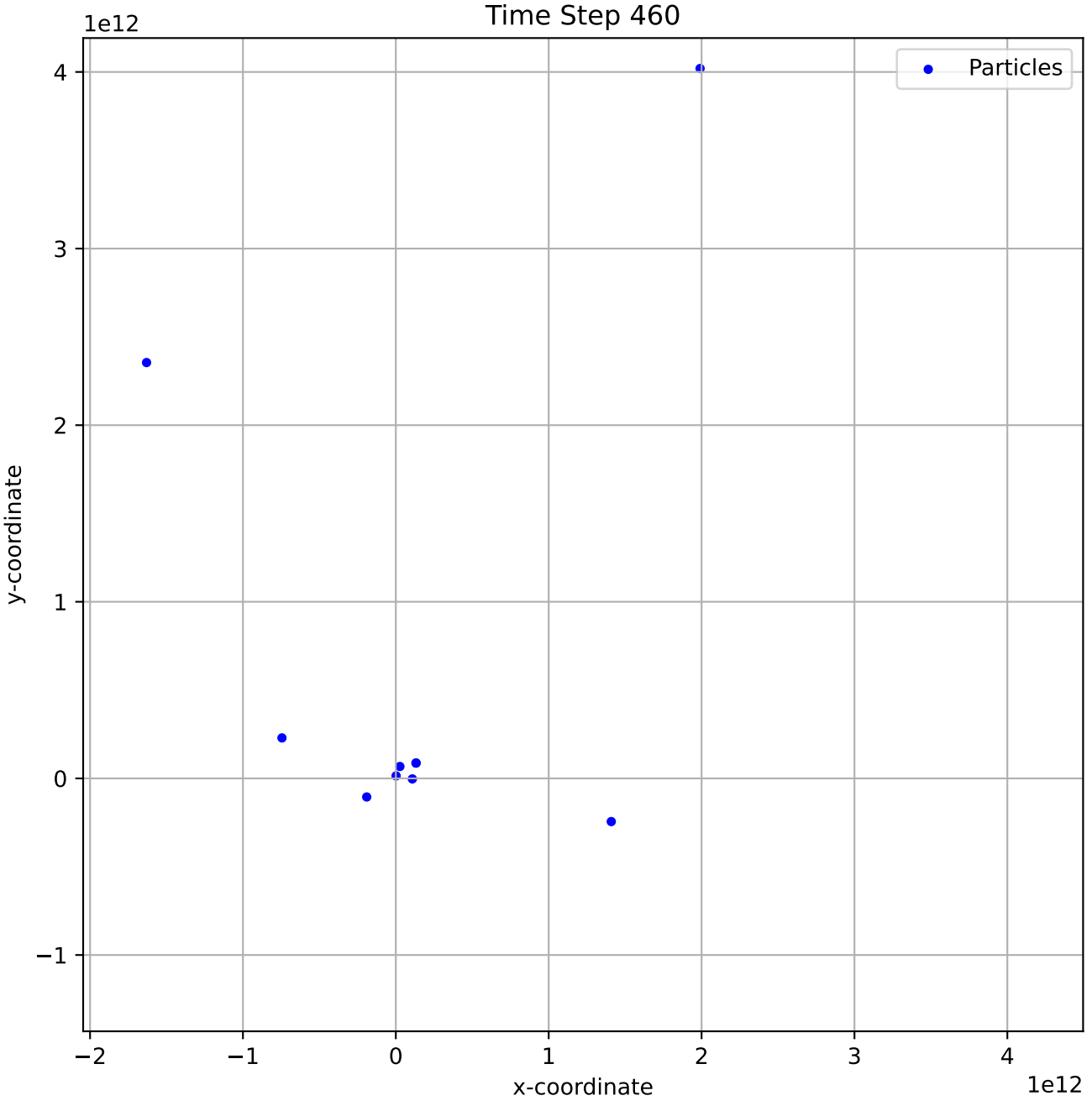

Time Step 455
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

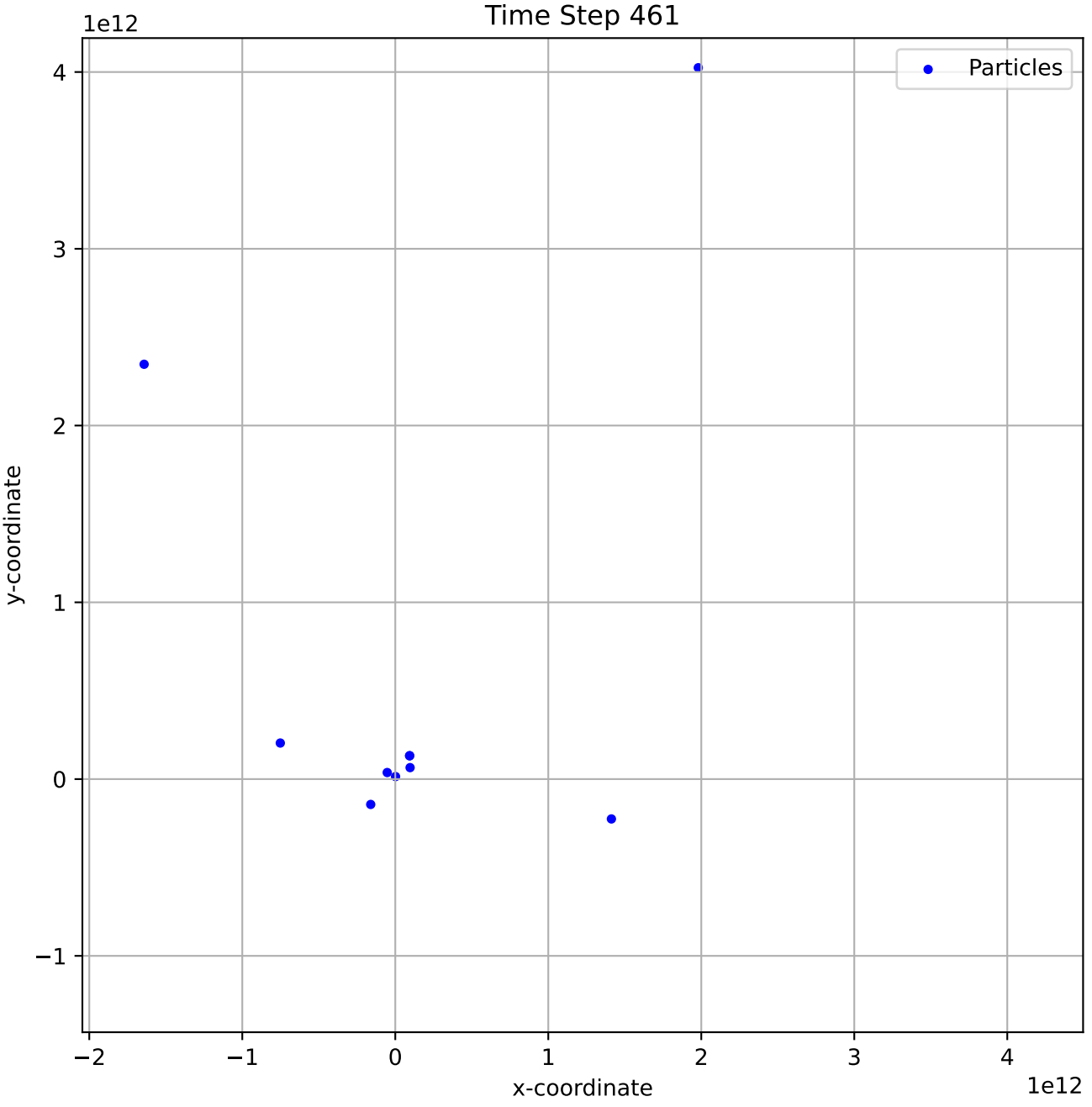

Time Step 456
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

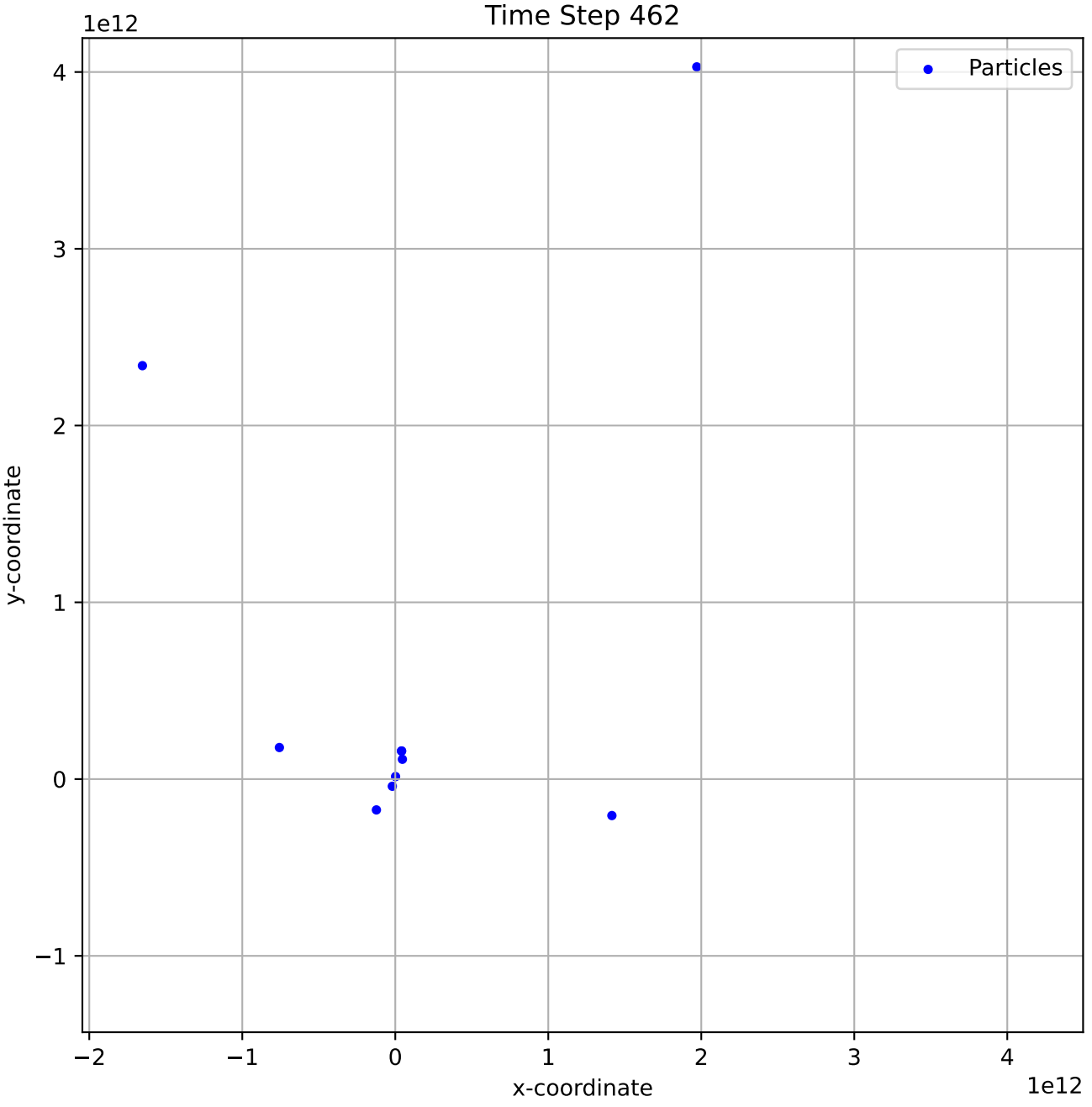

Time Step 457
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

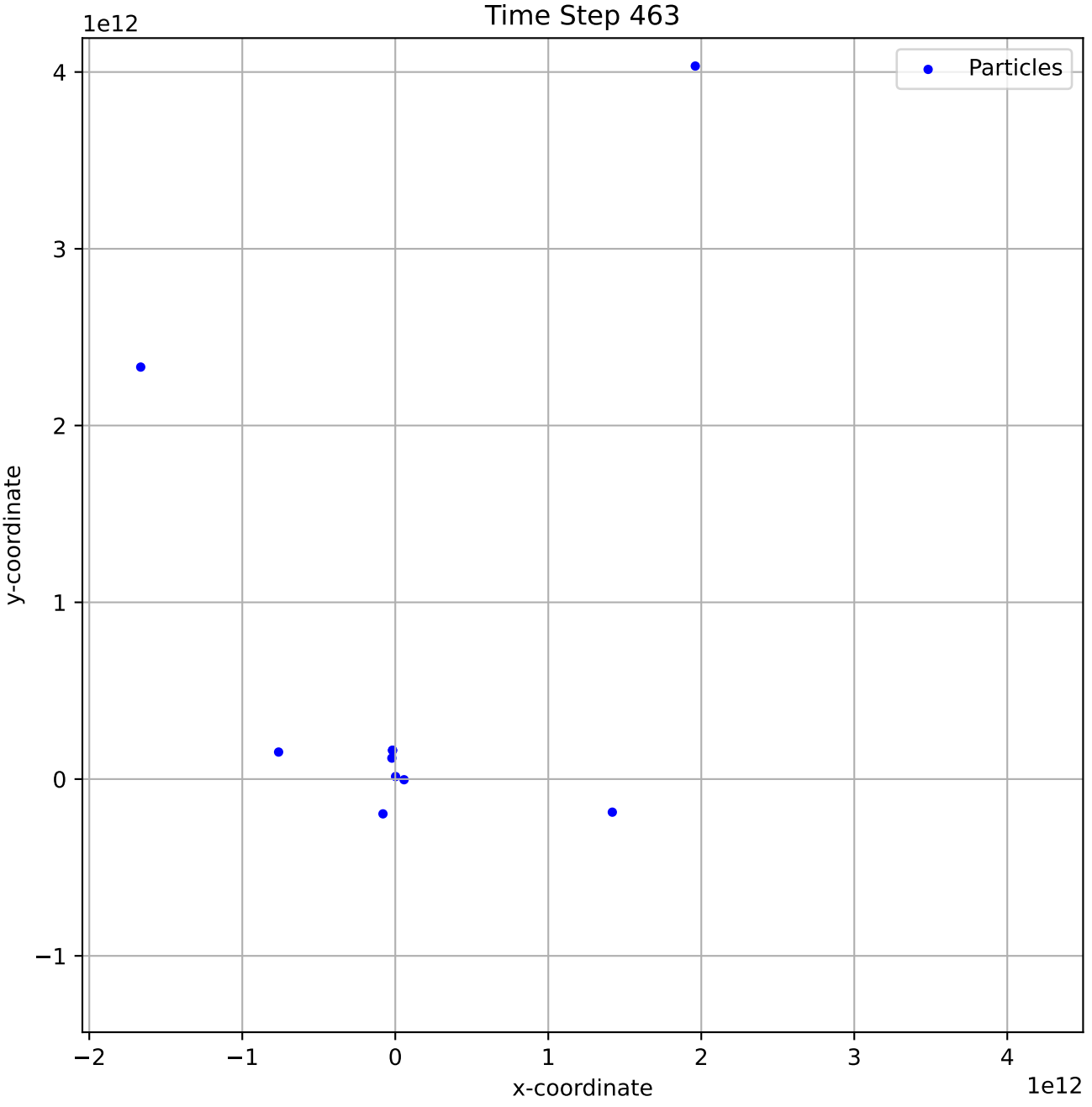

Time Step 458
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

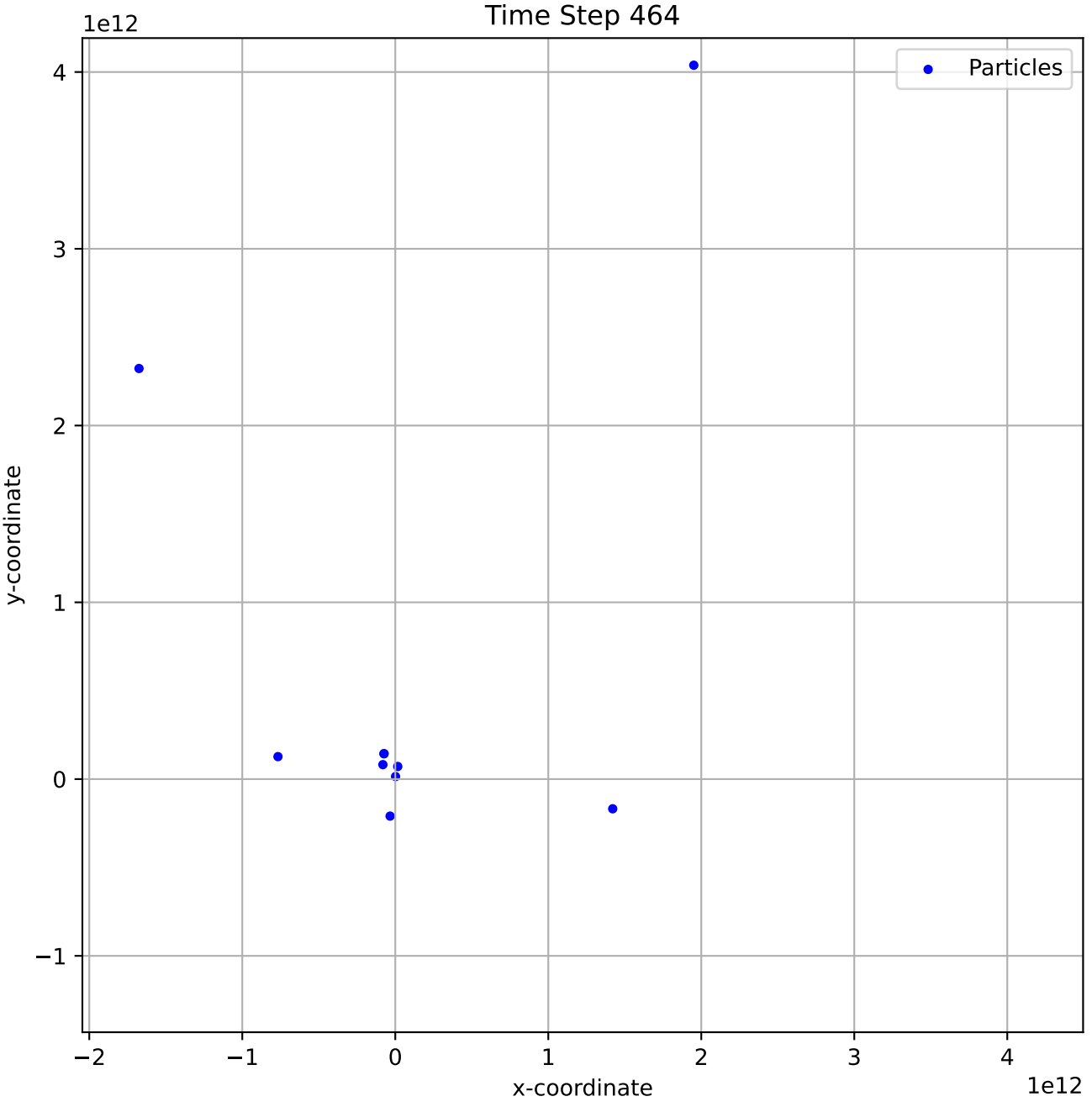

Time Step 459
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

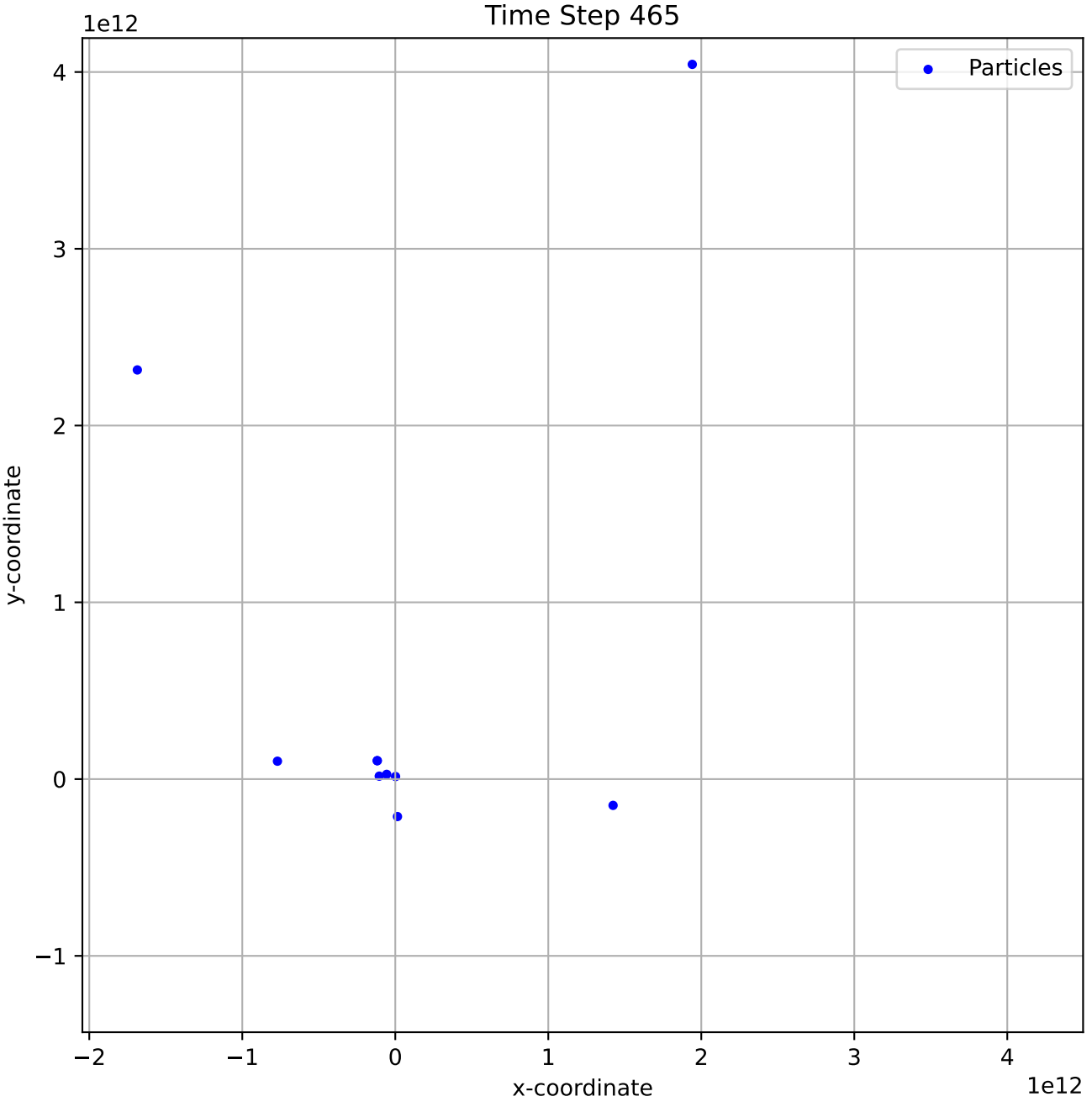

Time Step 460
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

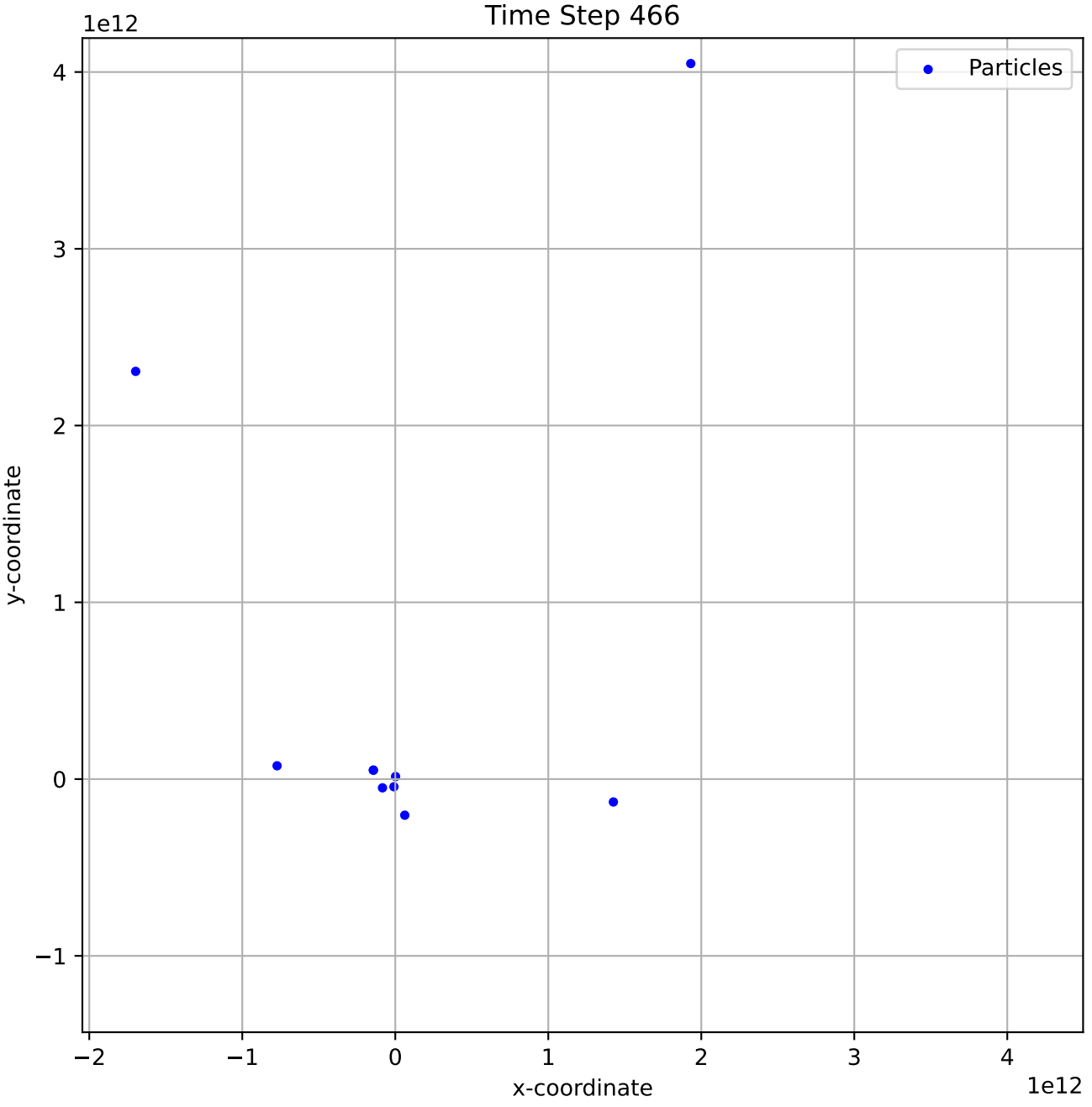

Time Step 461
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

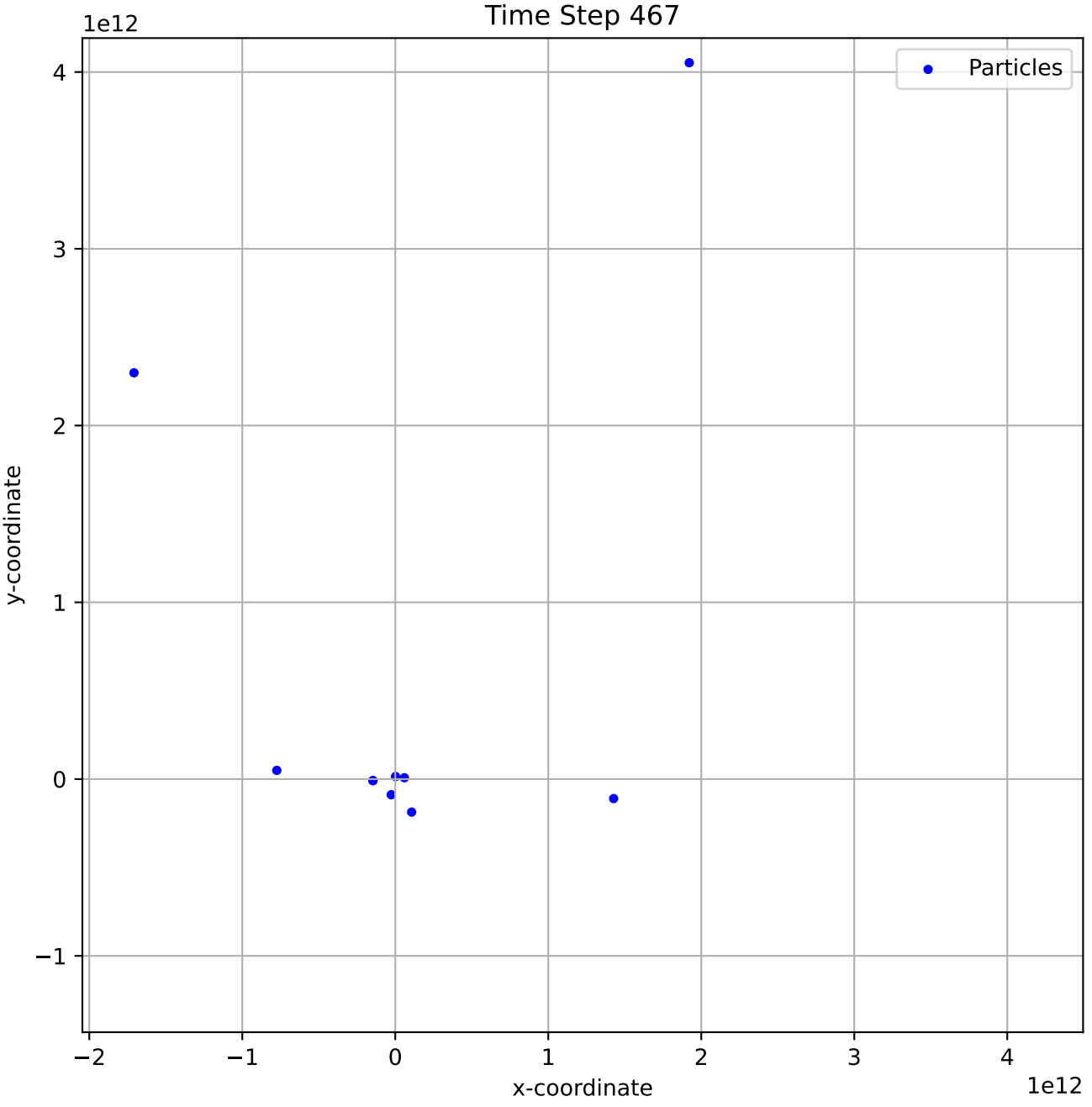

Time Step 462
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

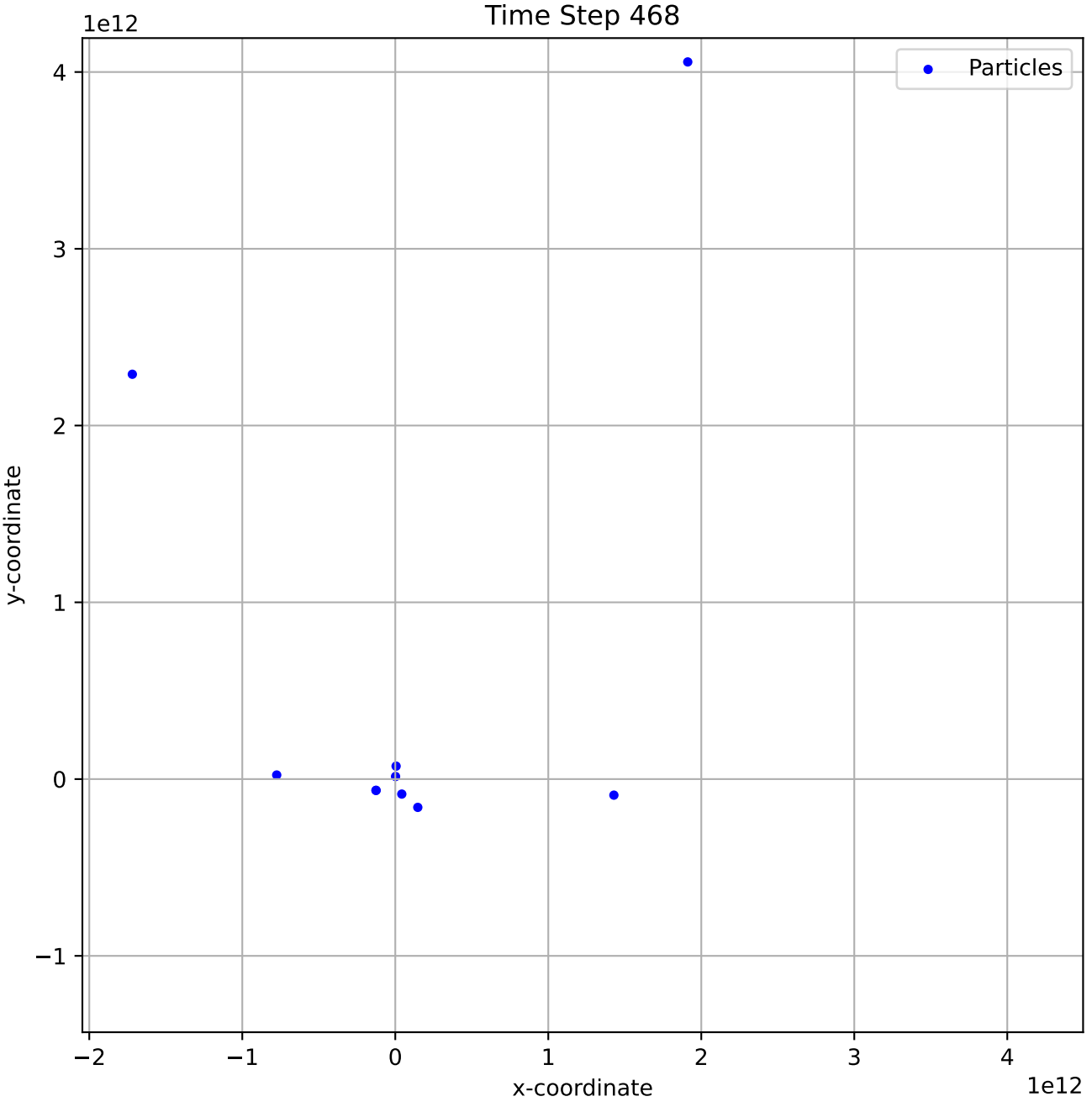

Time Step 463
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

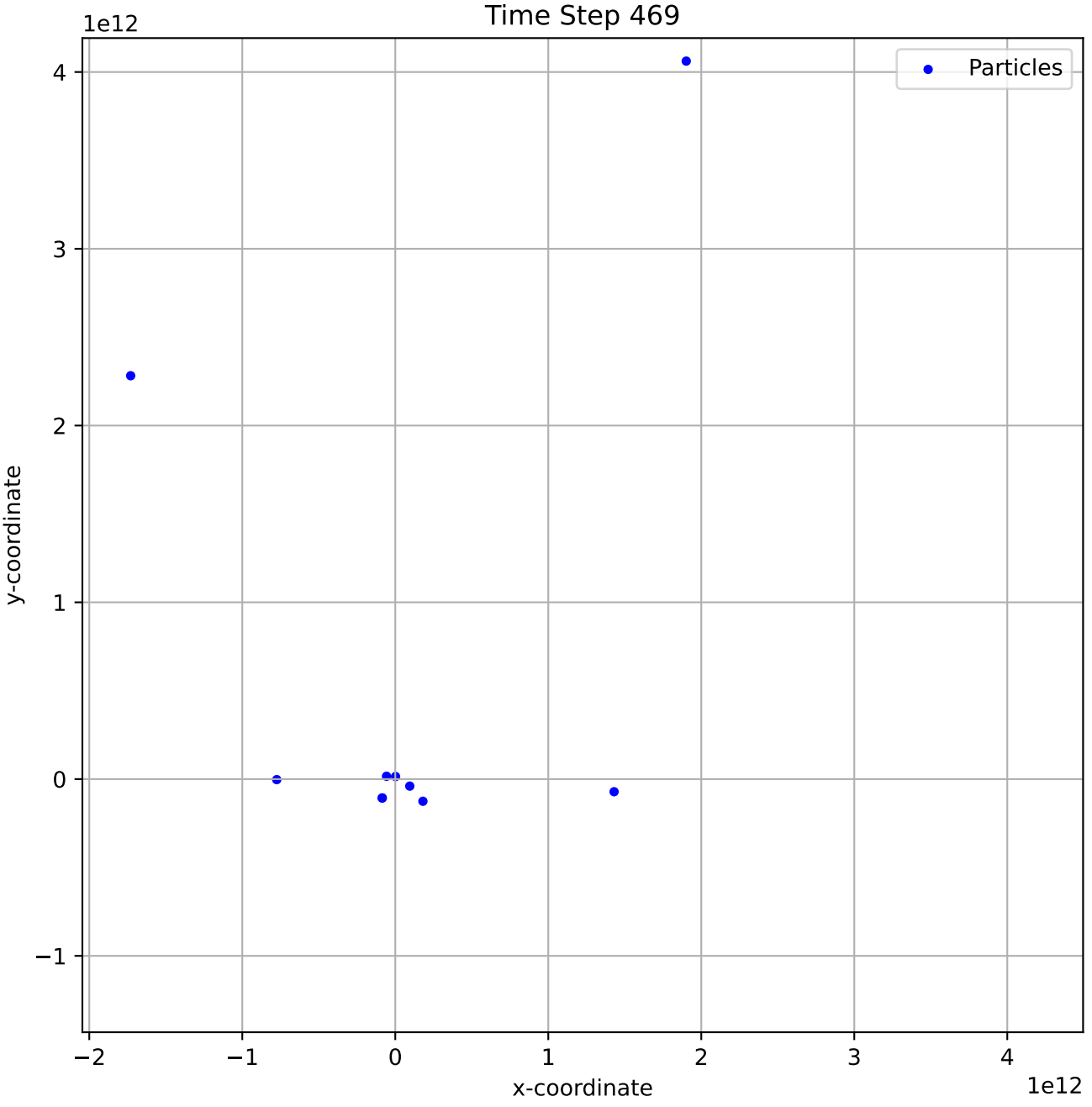

Time Step 464
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

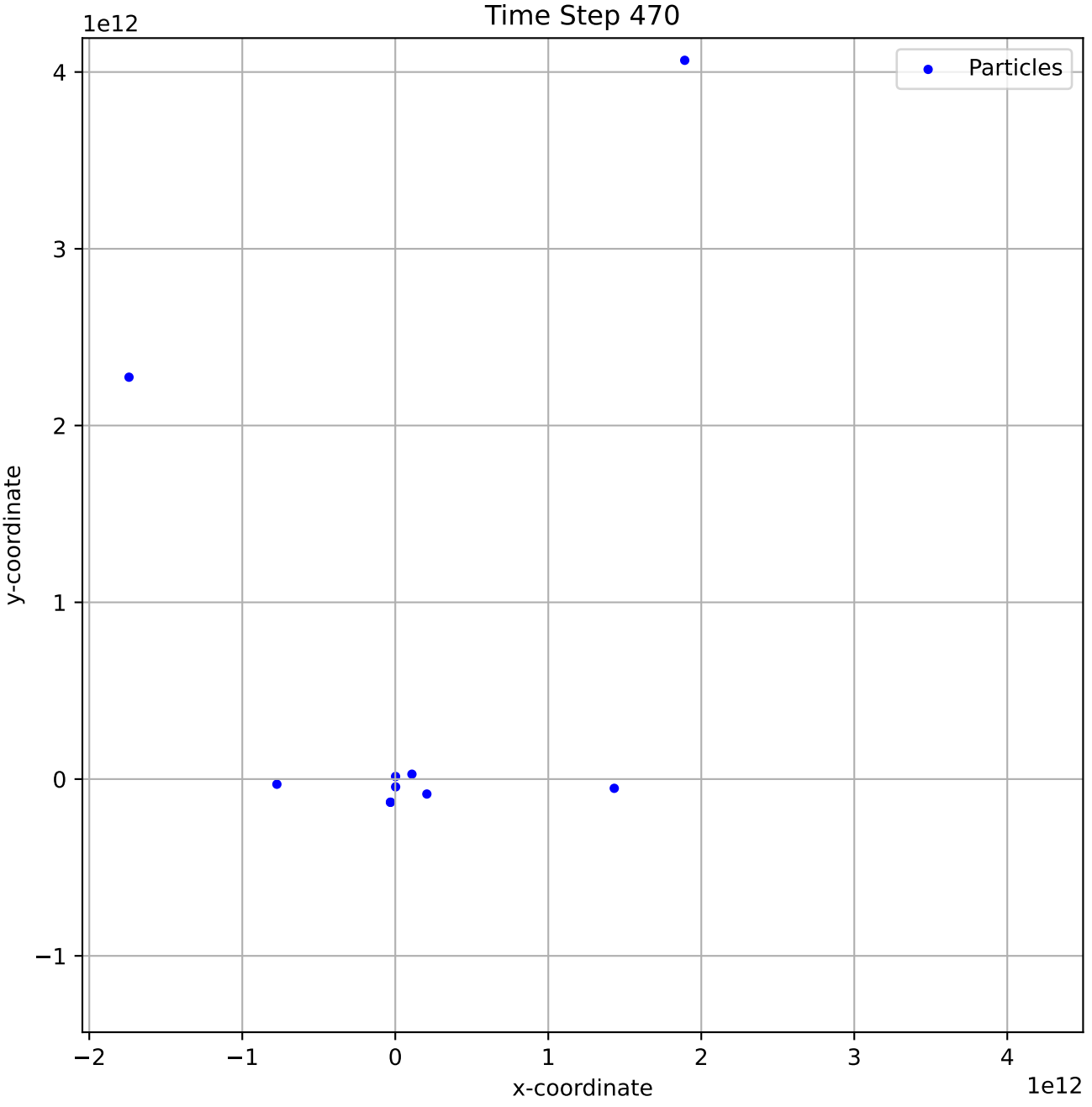

Time Step 465
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

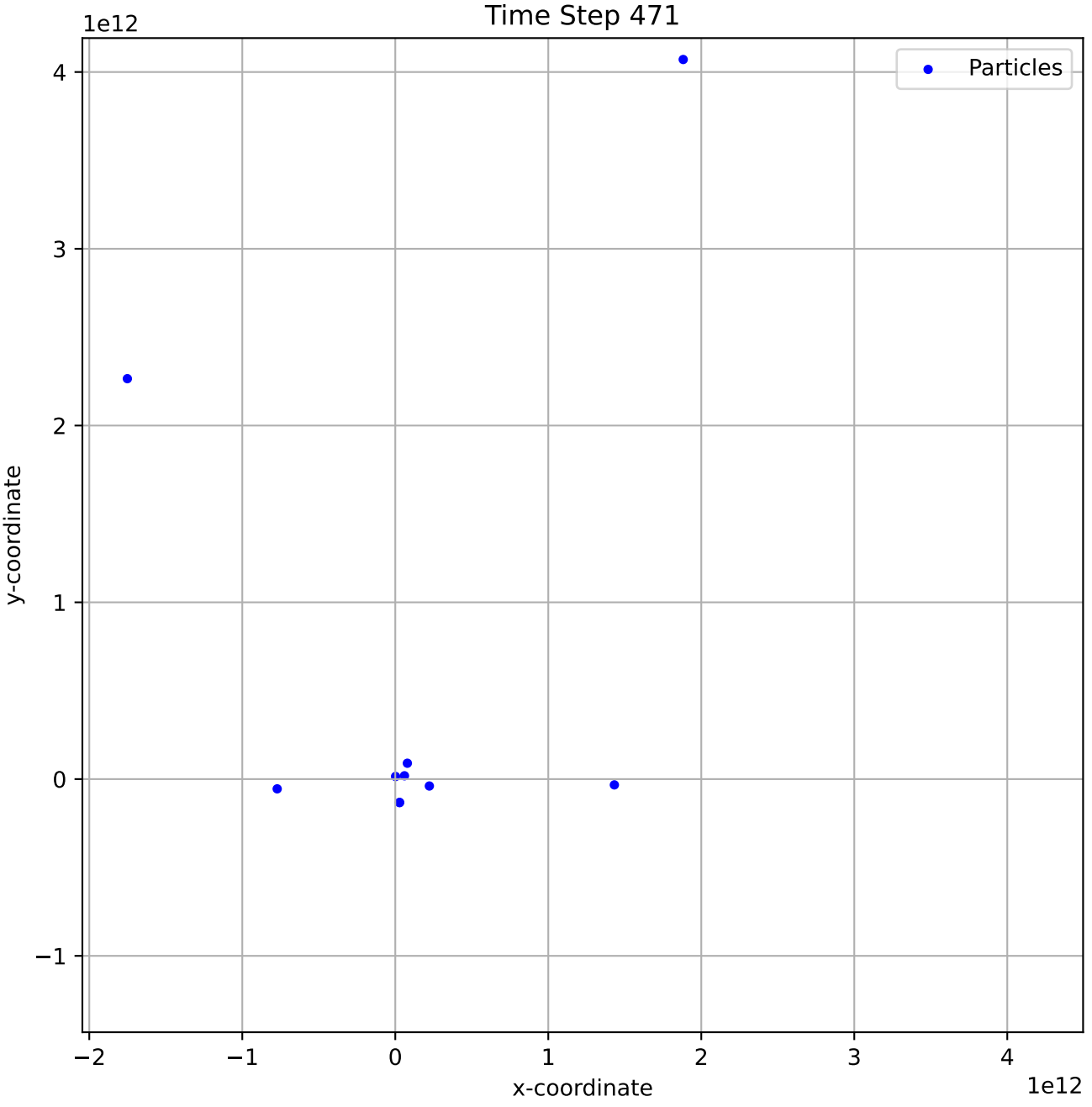

Time Step 466
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

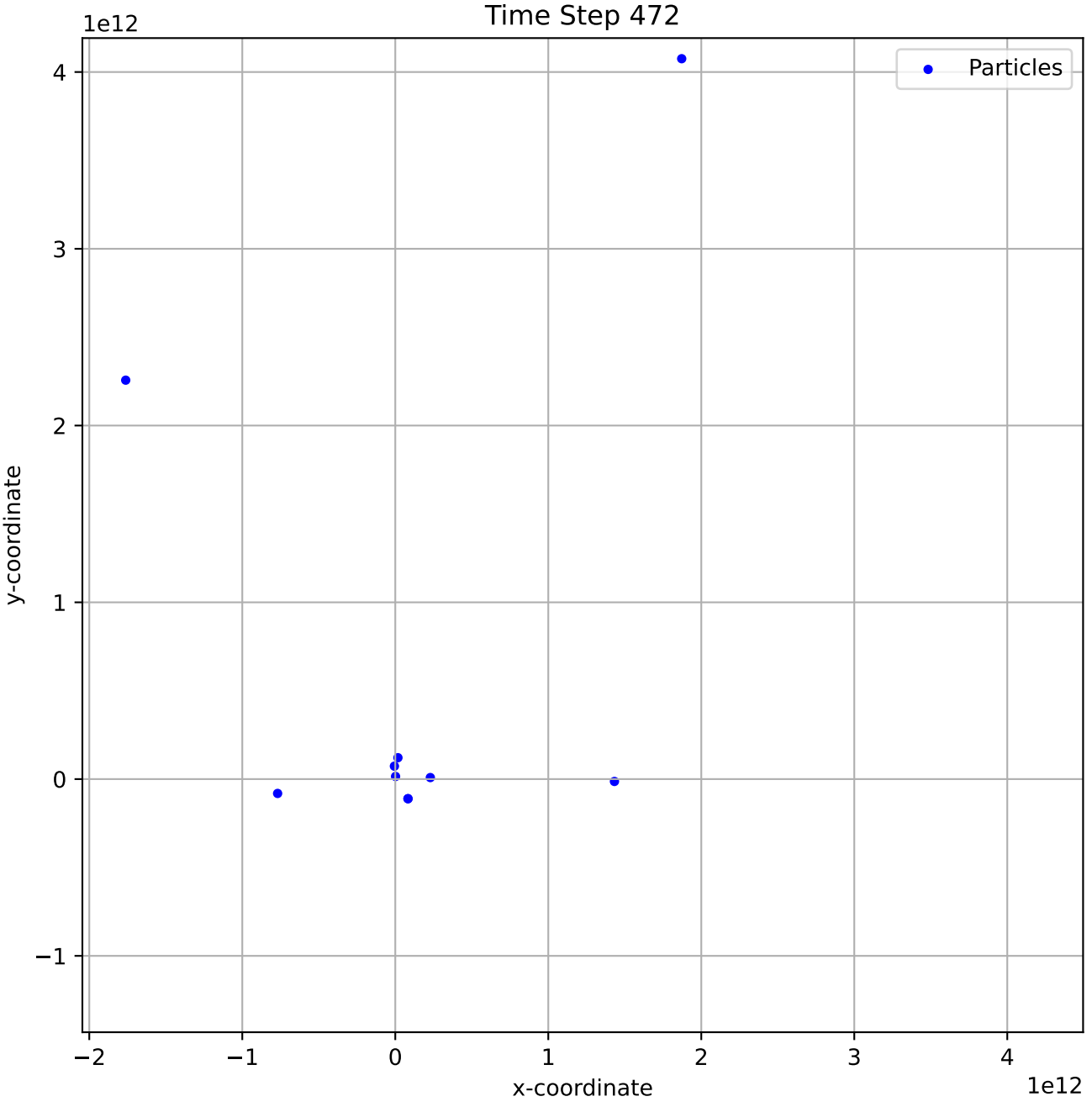

Time Step 467
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

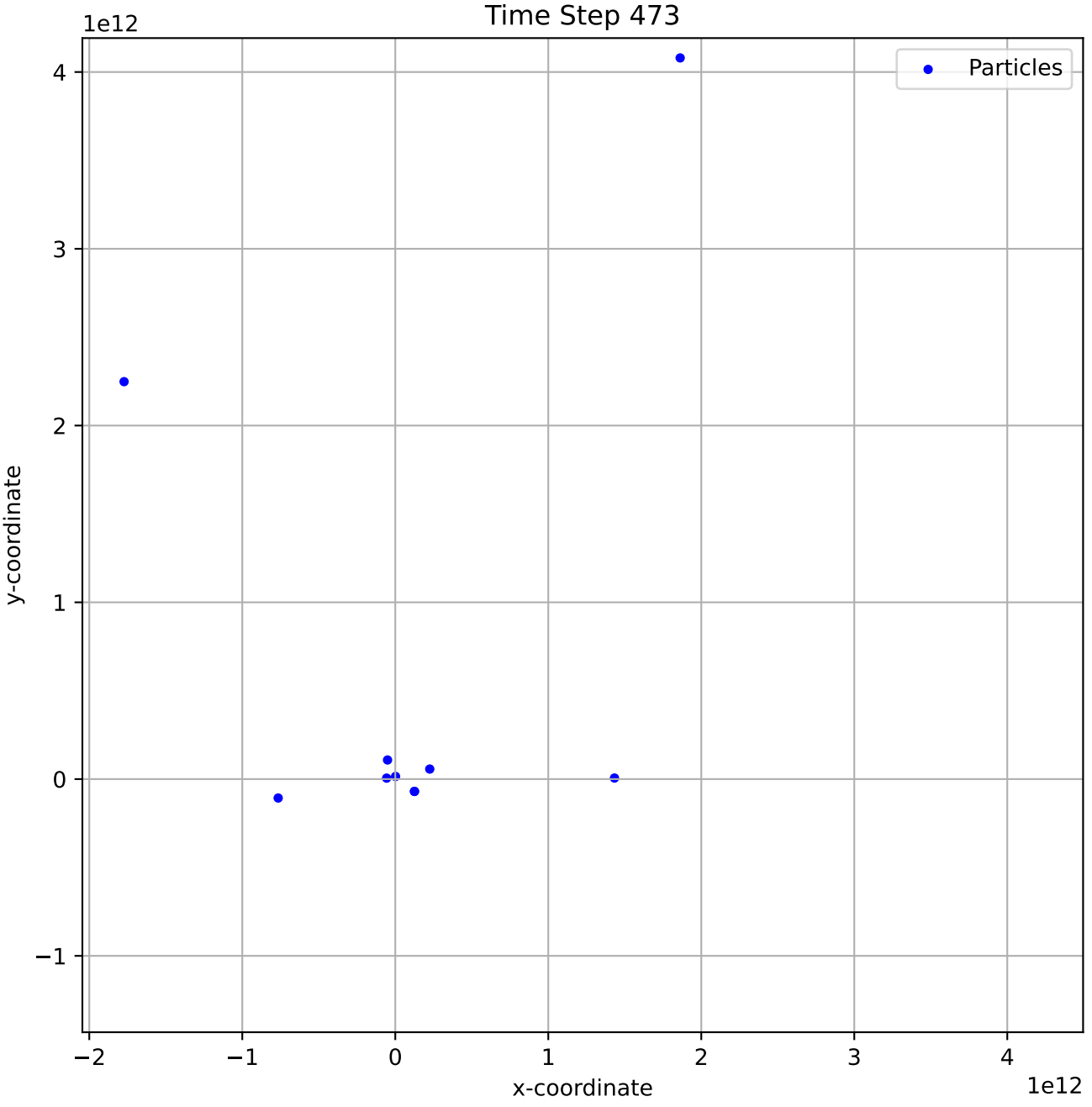

Time Step 468
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

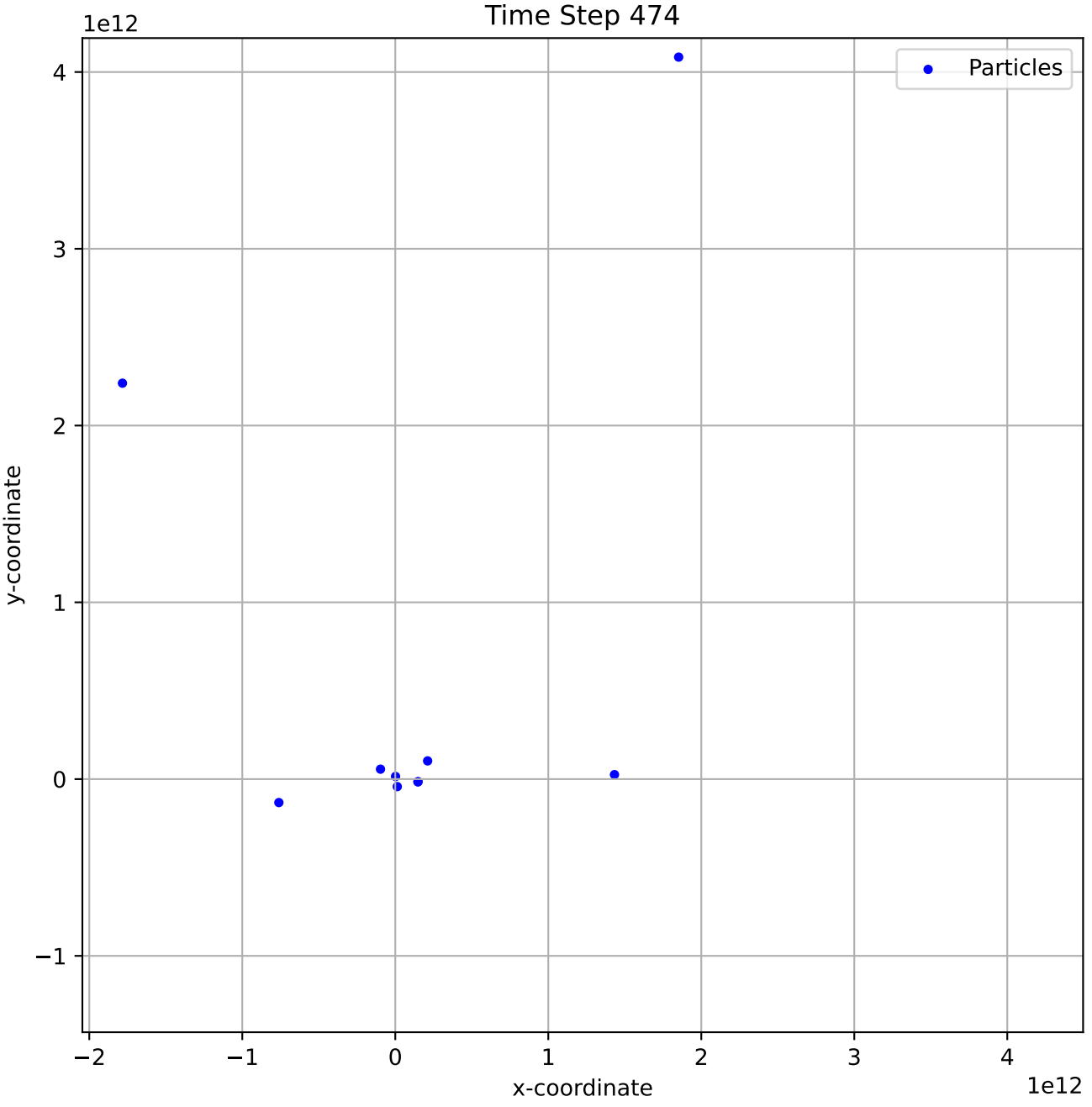

Time Step 469
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

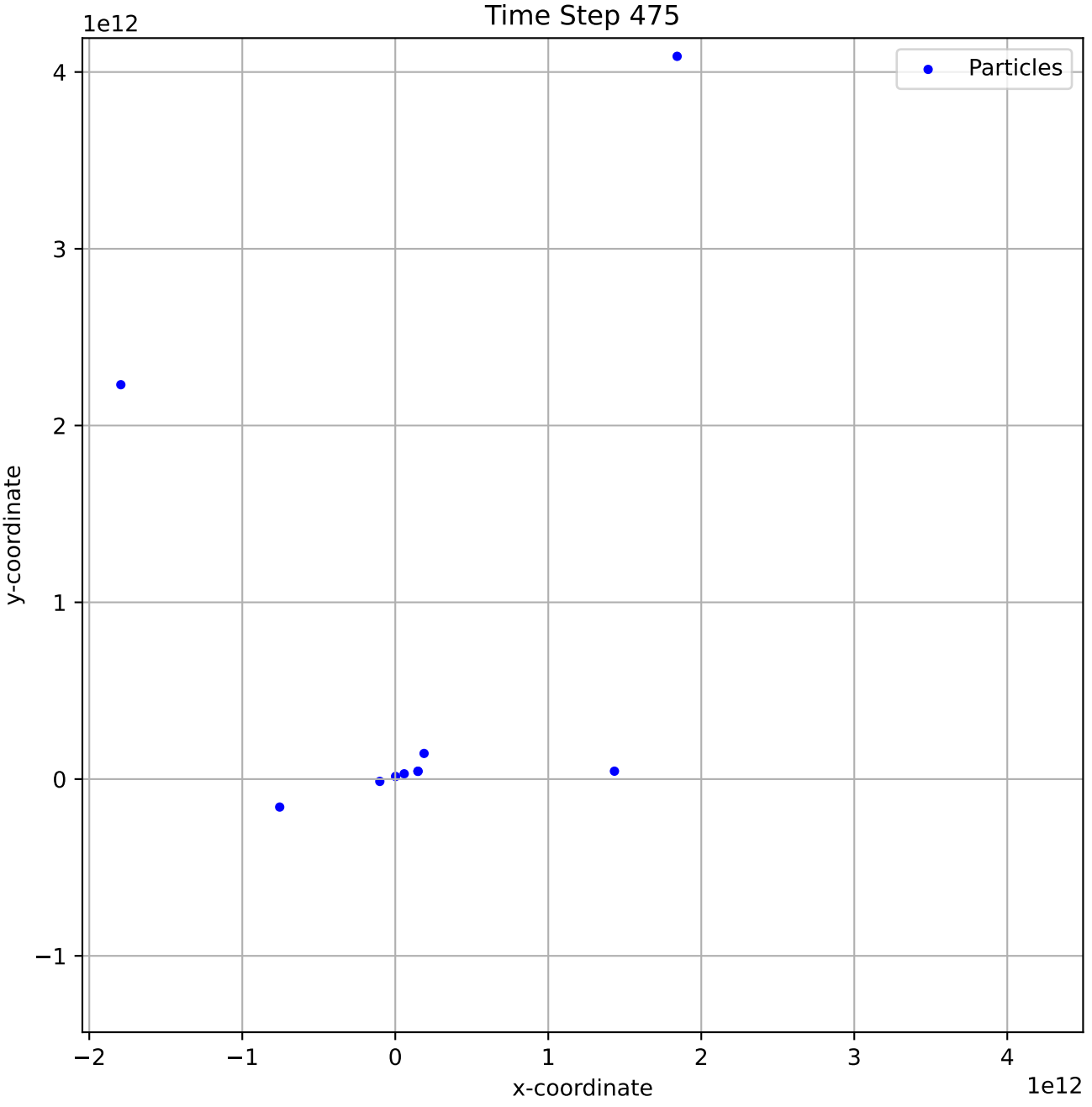

Time Step 470
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

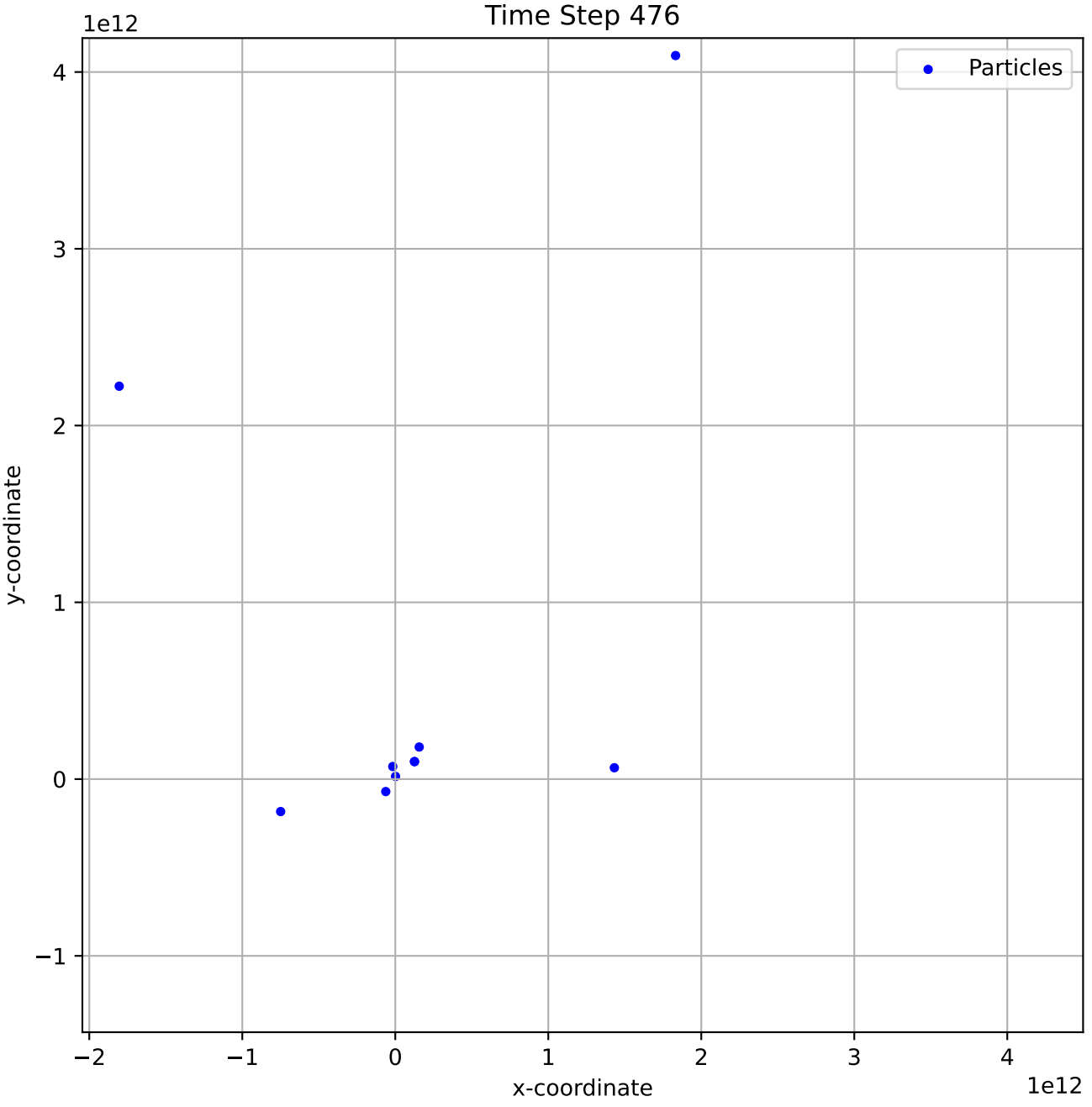

Time Step 471
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

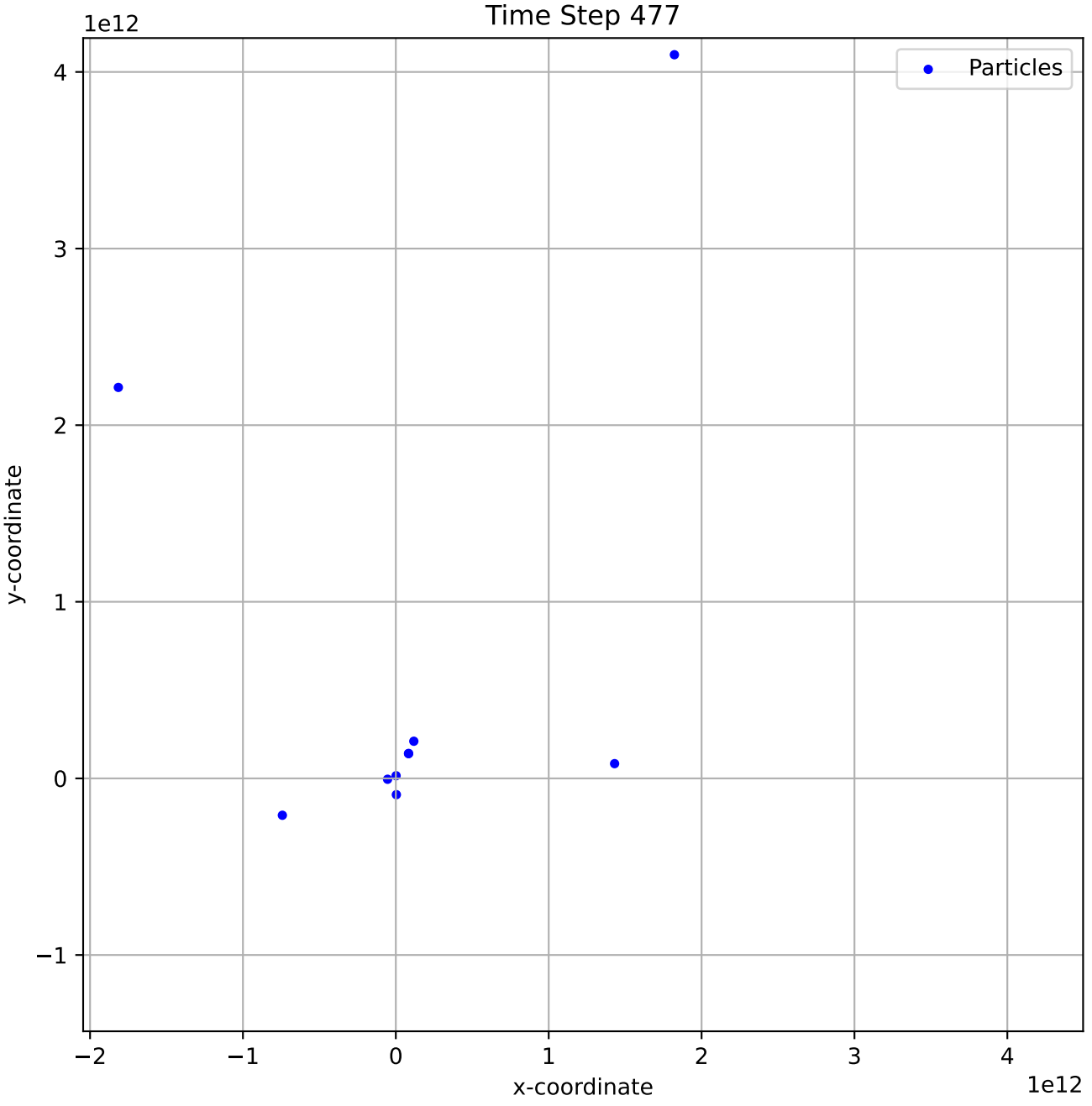

Time Step 472
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

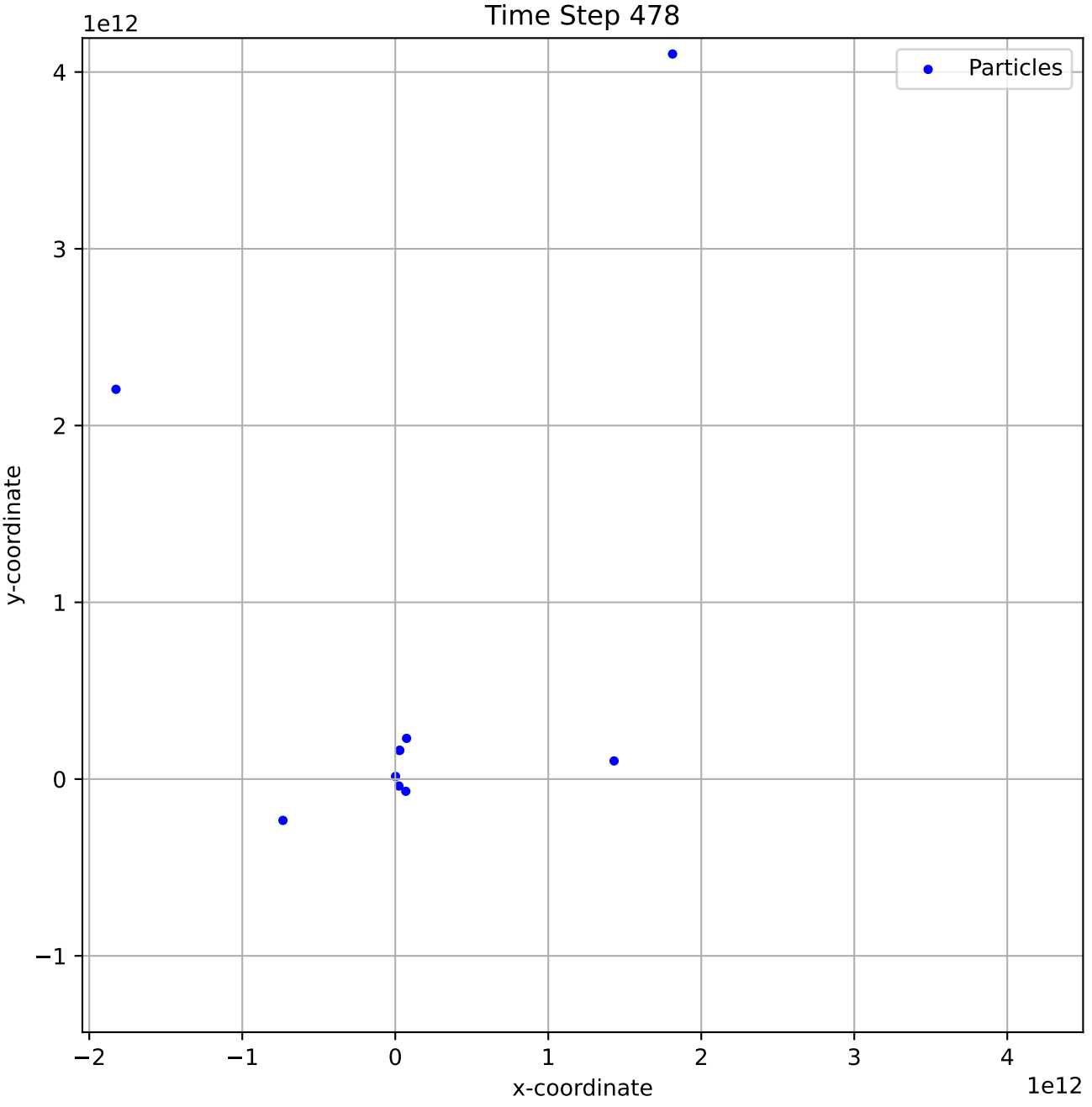

Time Step 473
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

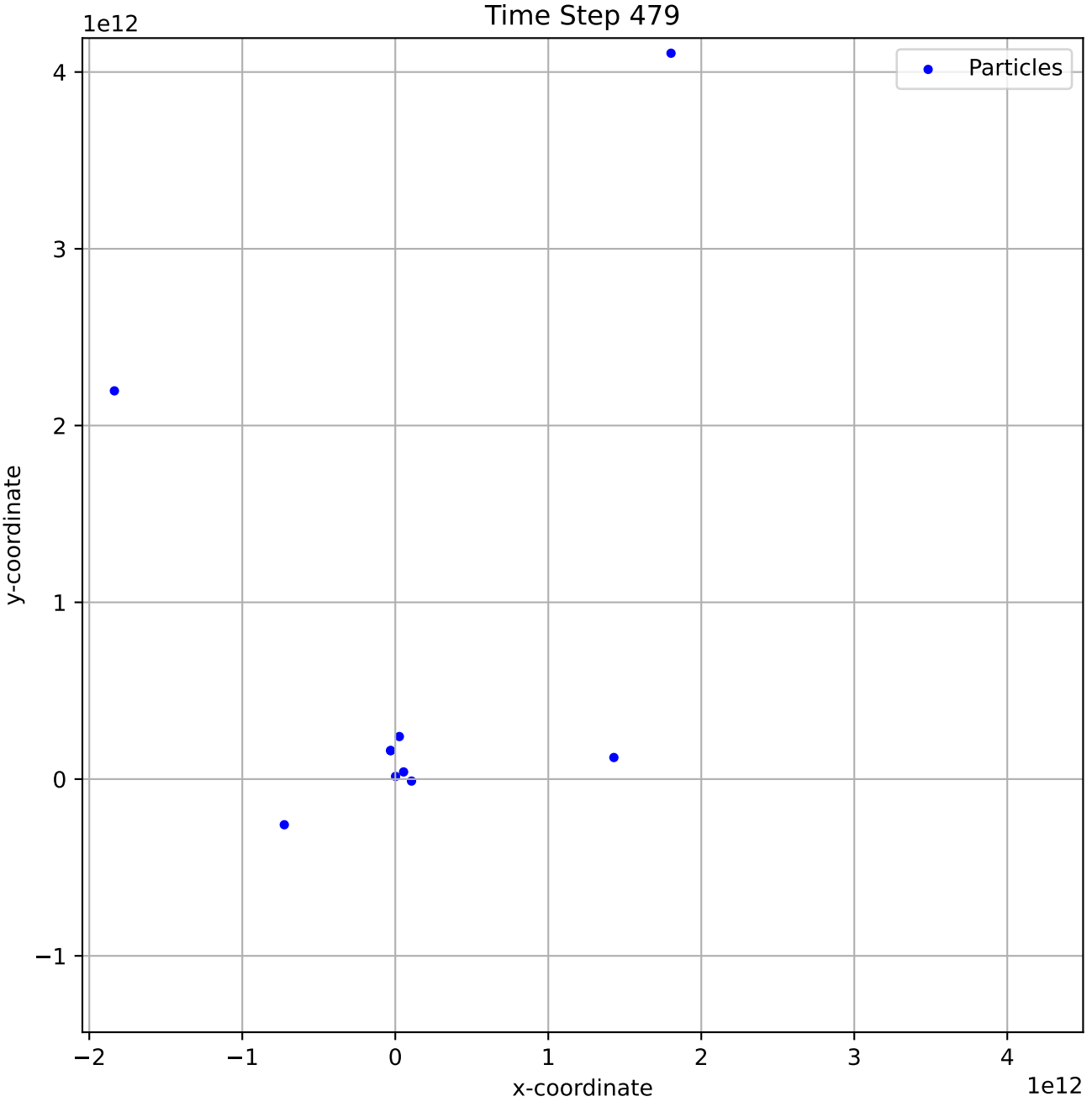

Time Step 474
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

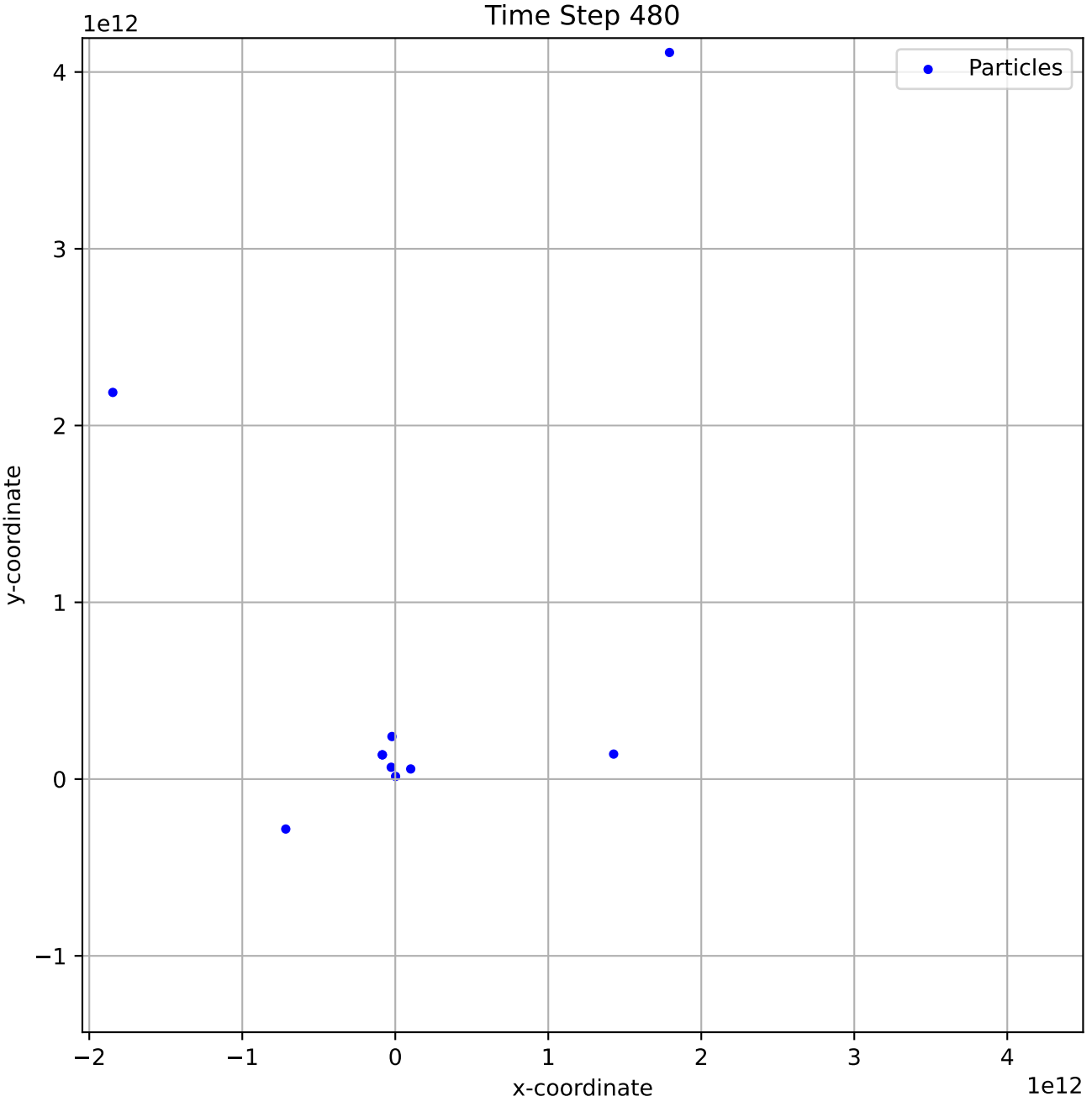

Time Step 475
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

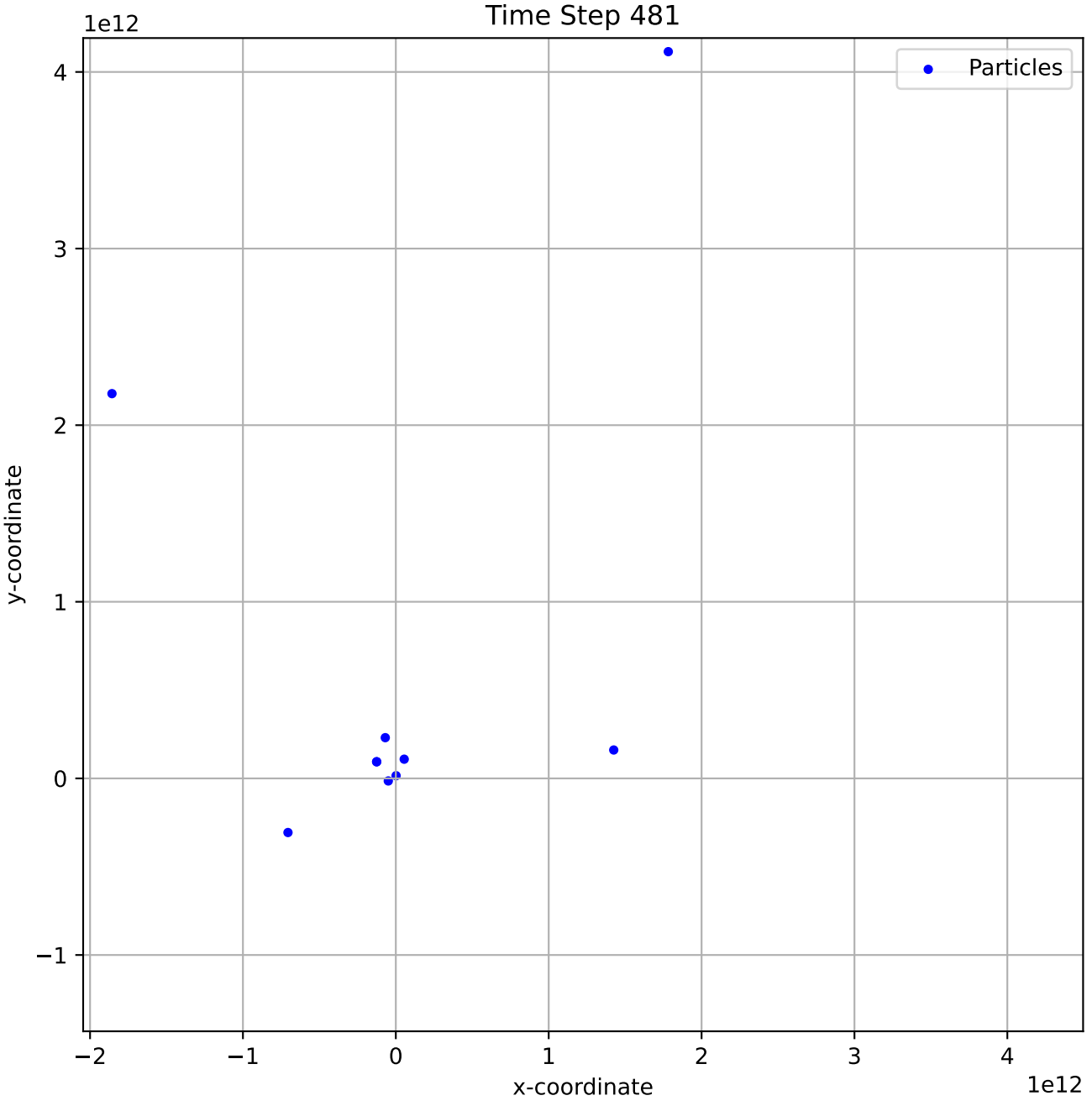

Time Step 476
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

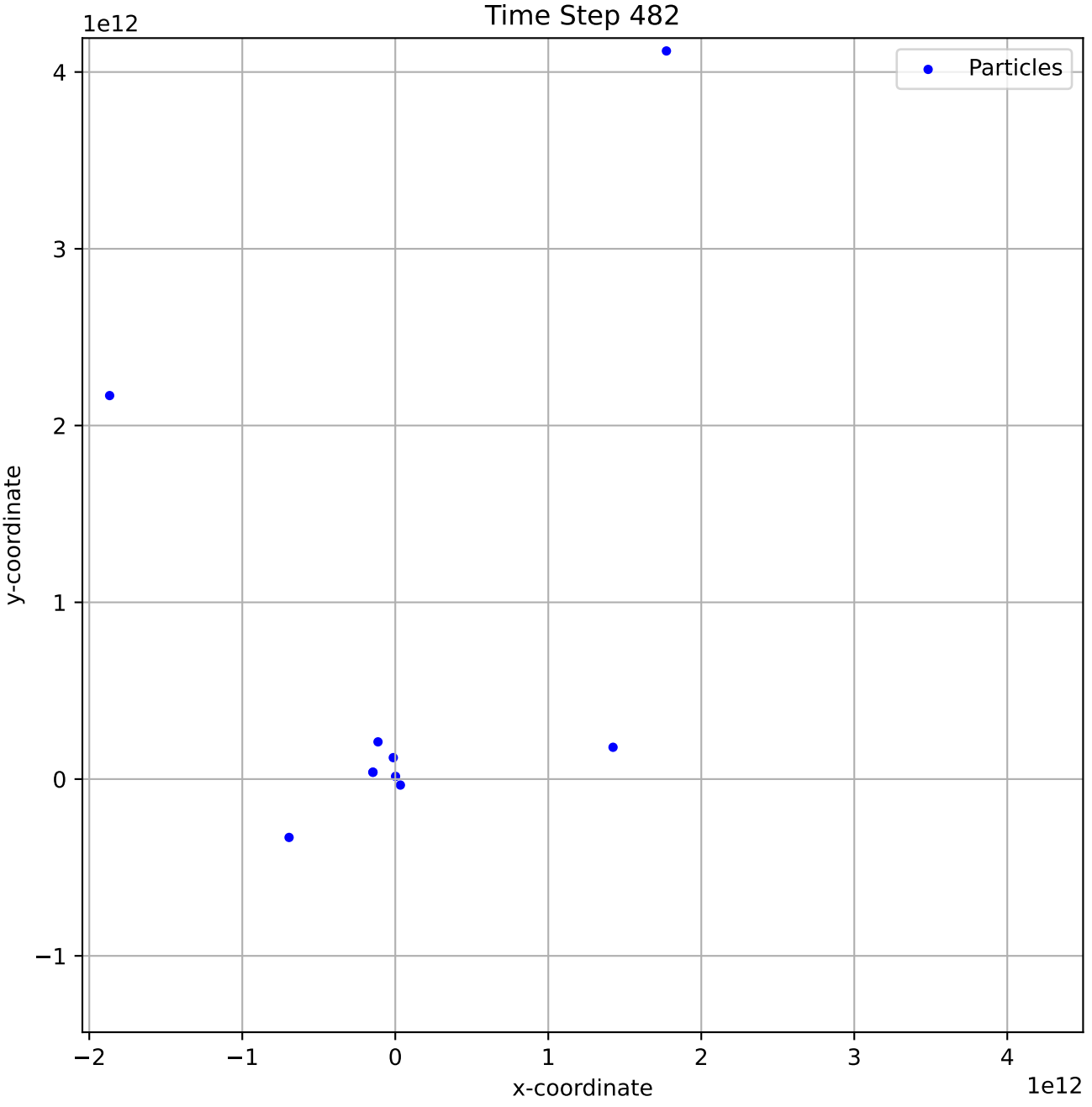

Time Step 477
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

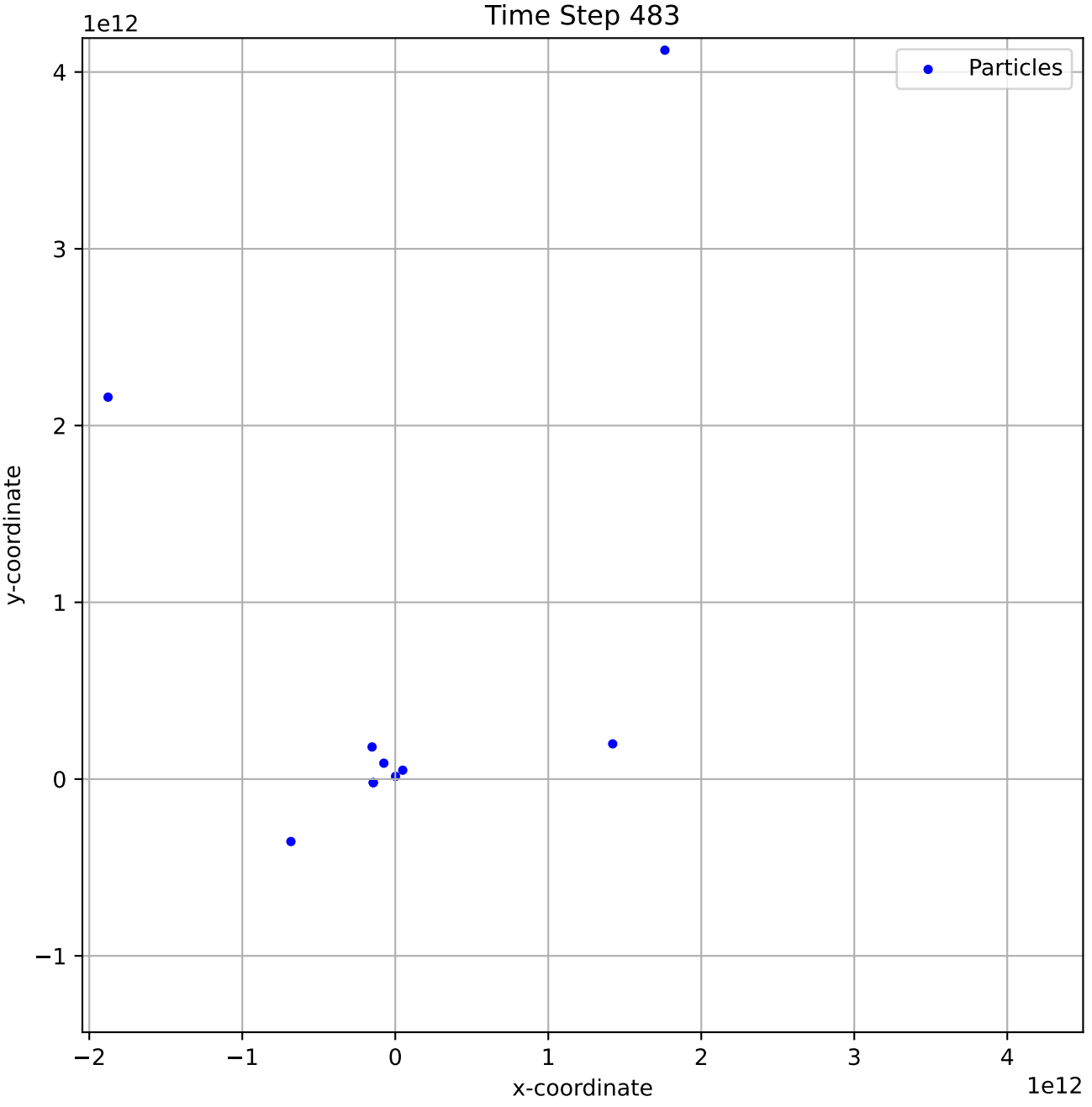

Time Step 478
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

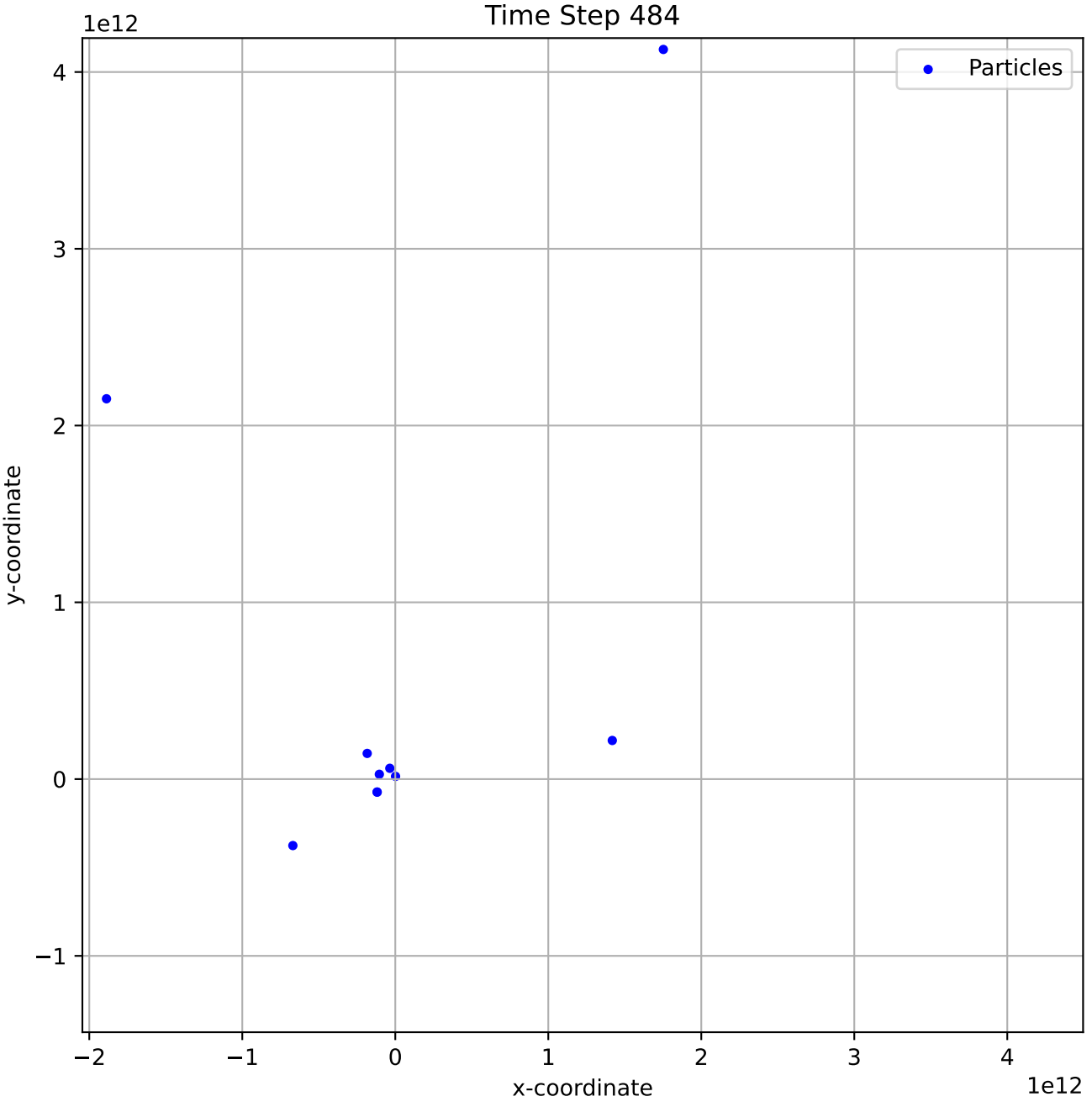

Time Step 479
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

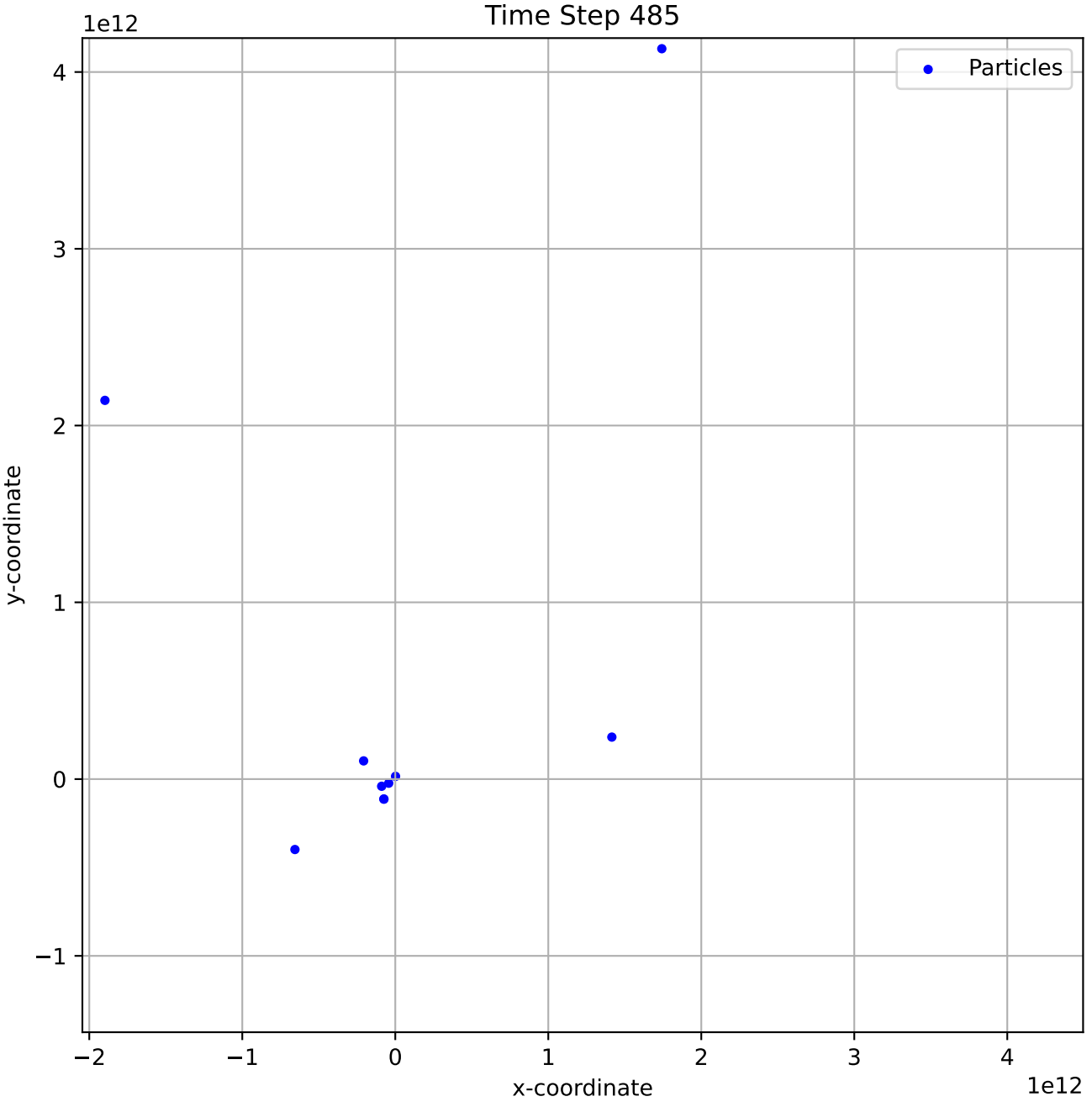

Time Step 480
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

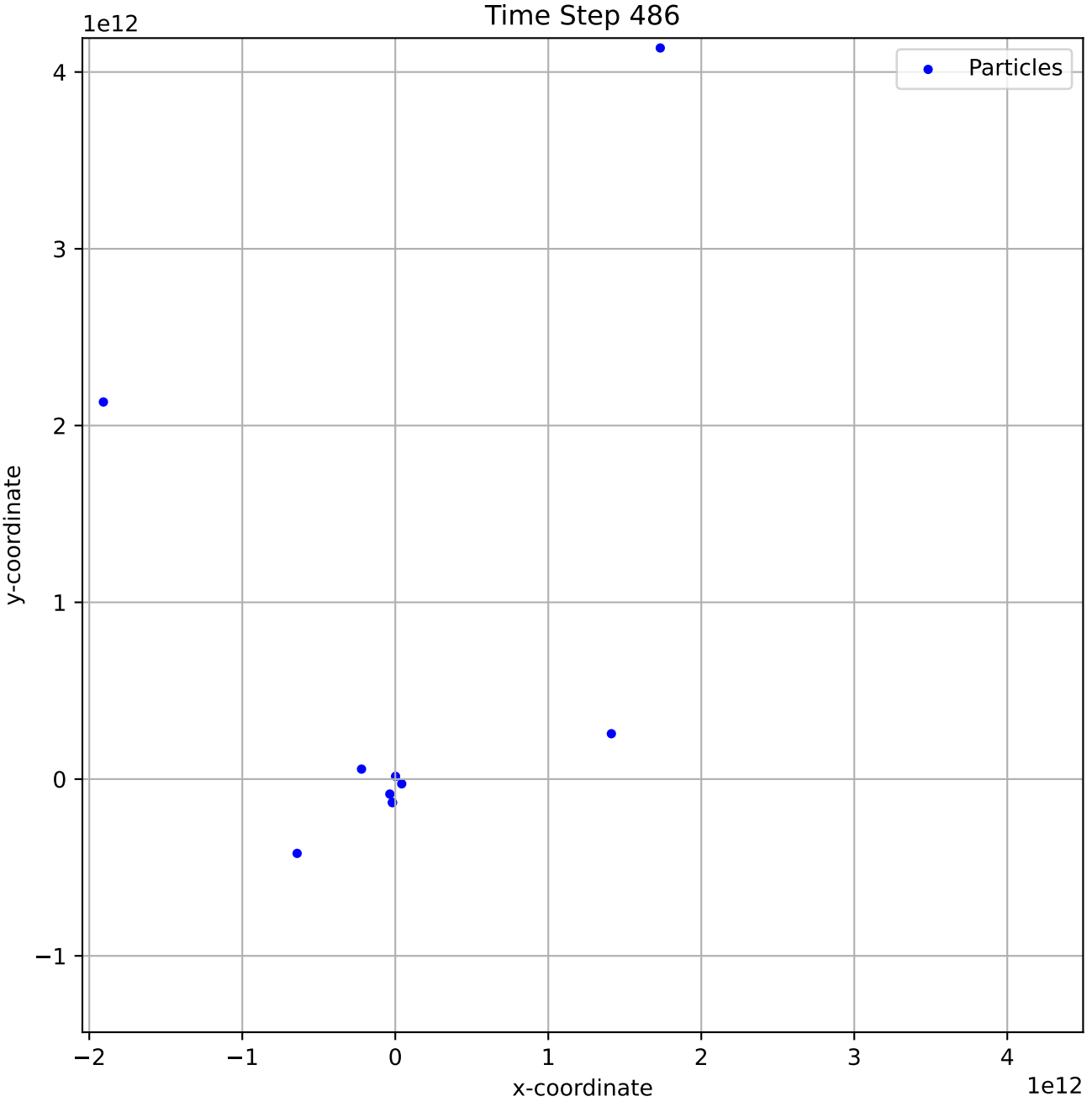

Time Step 481
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

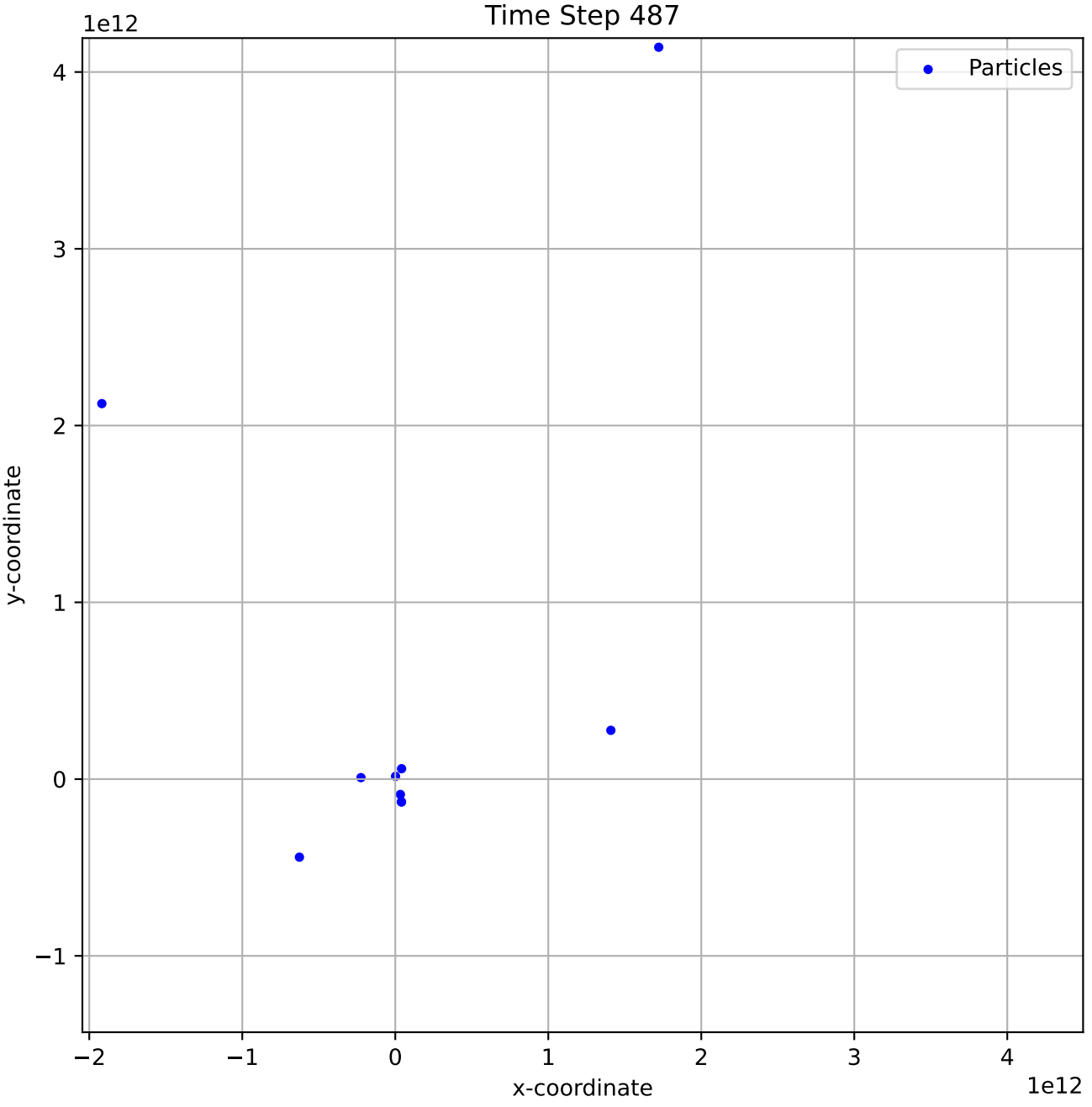

Time Step 482
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

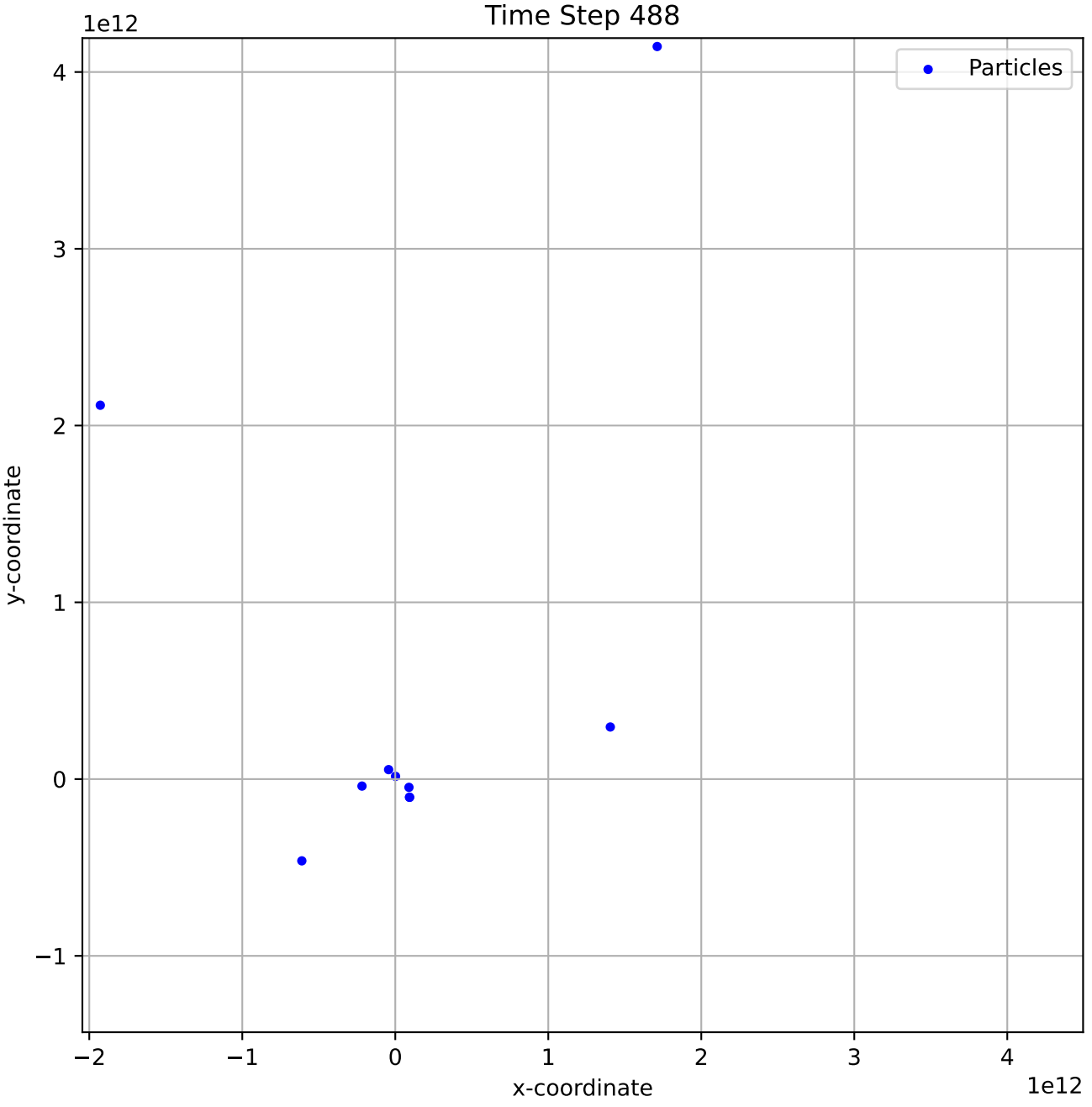

Time Step 483
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

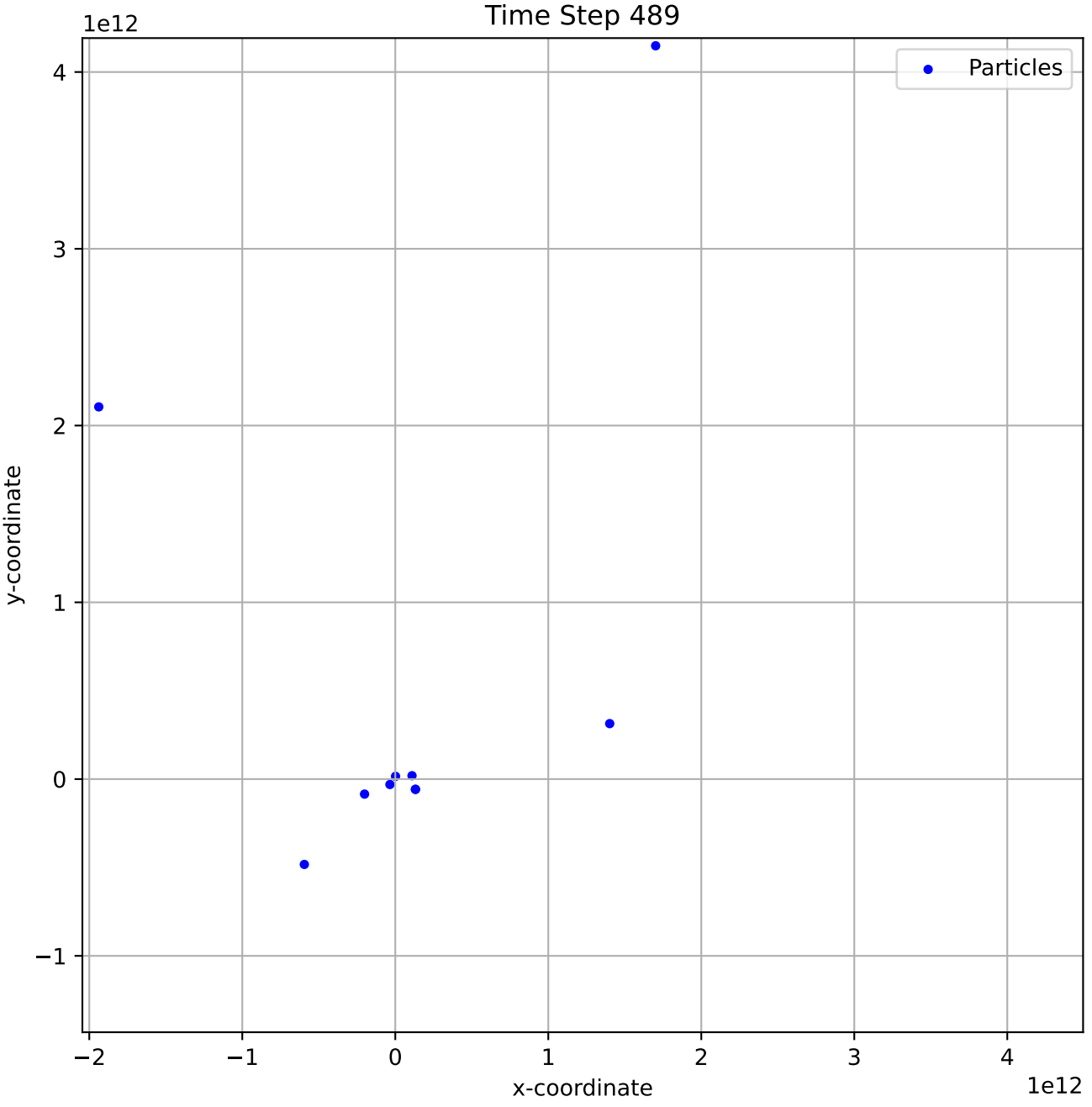

Time Step 484
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

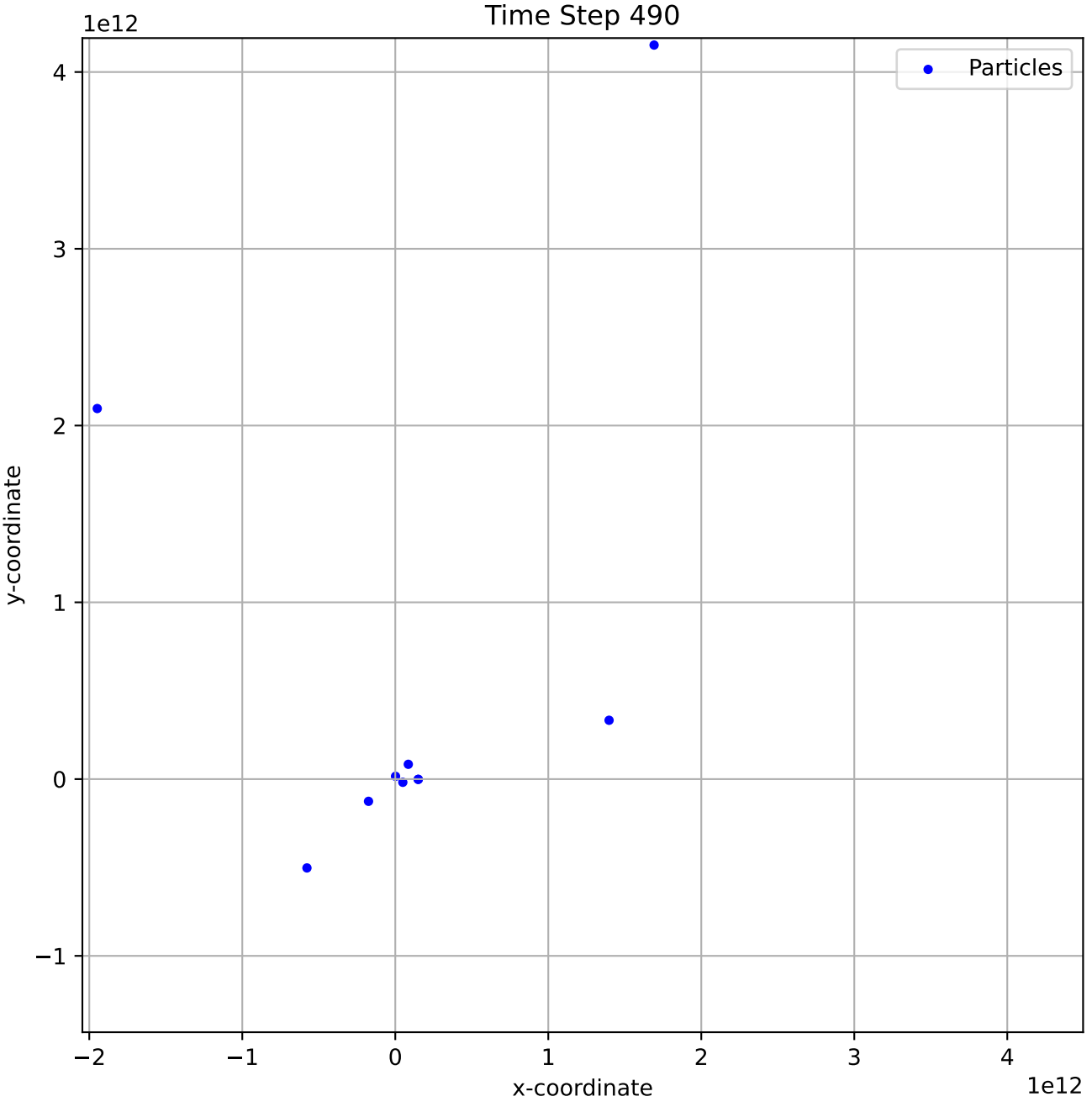

Time Step 485
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

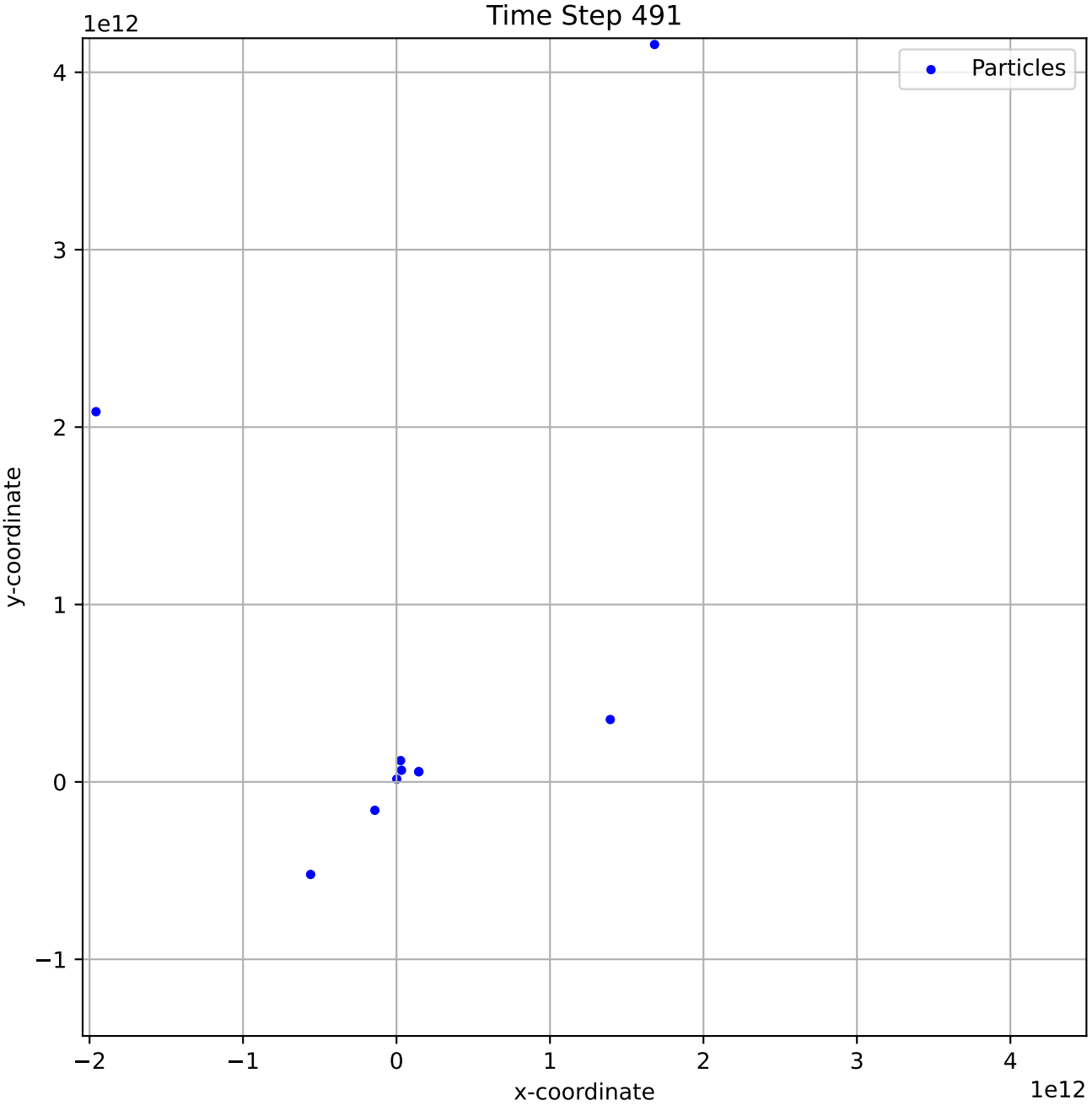

Time Step 486
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

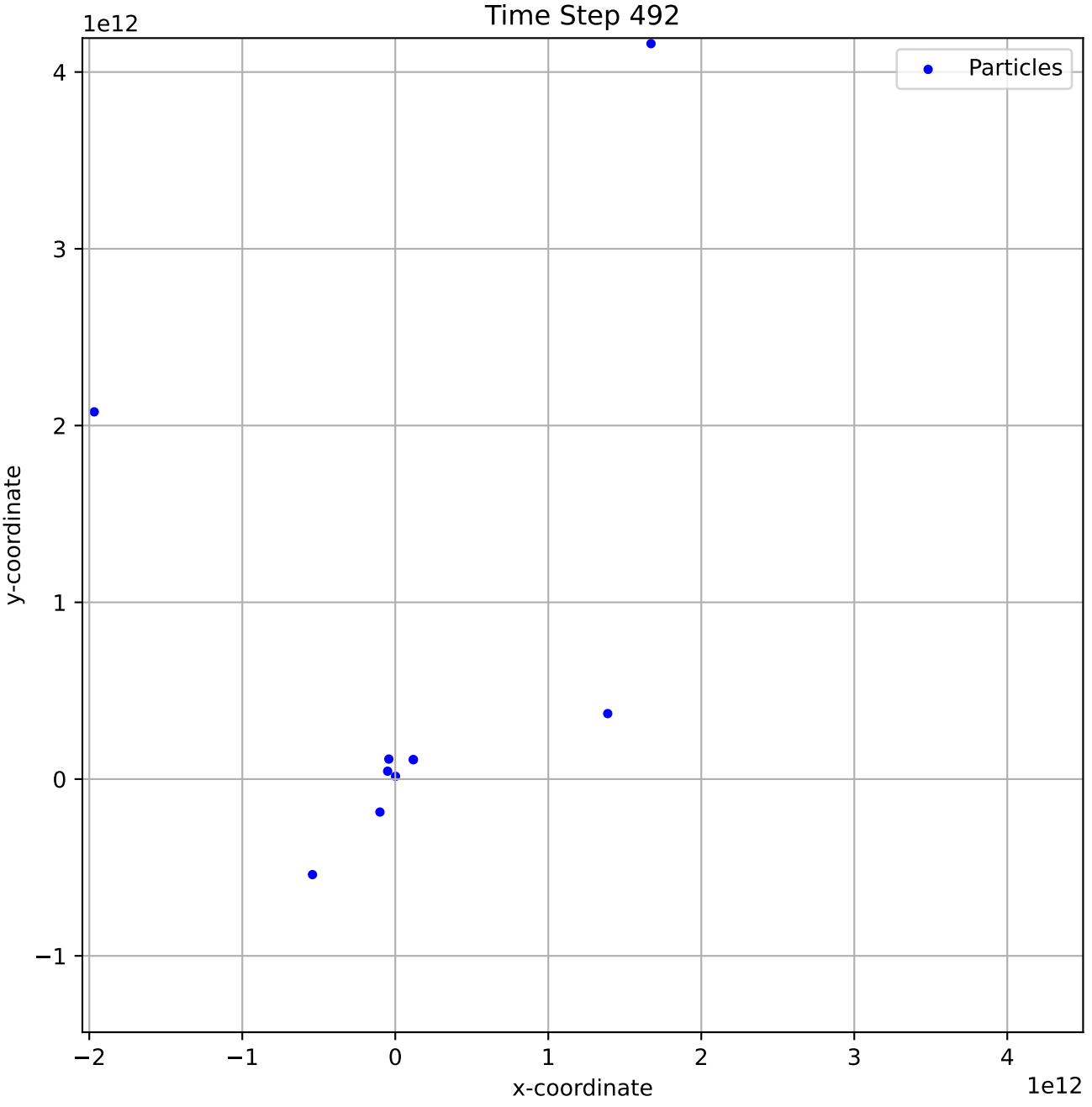

Time Step 487
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

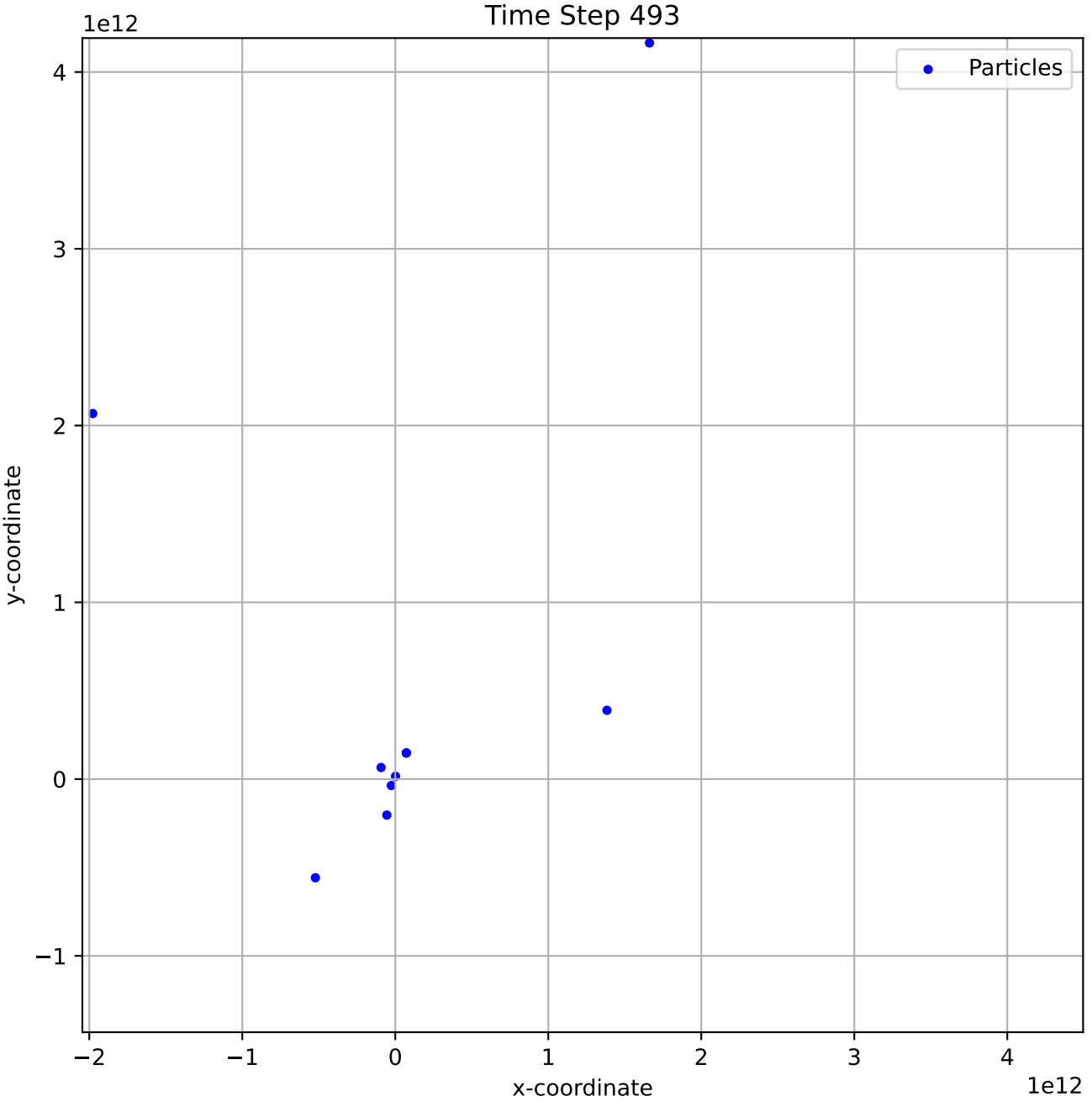

Time Step 488
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

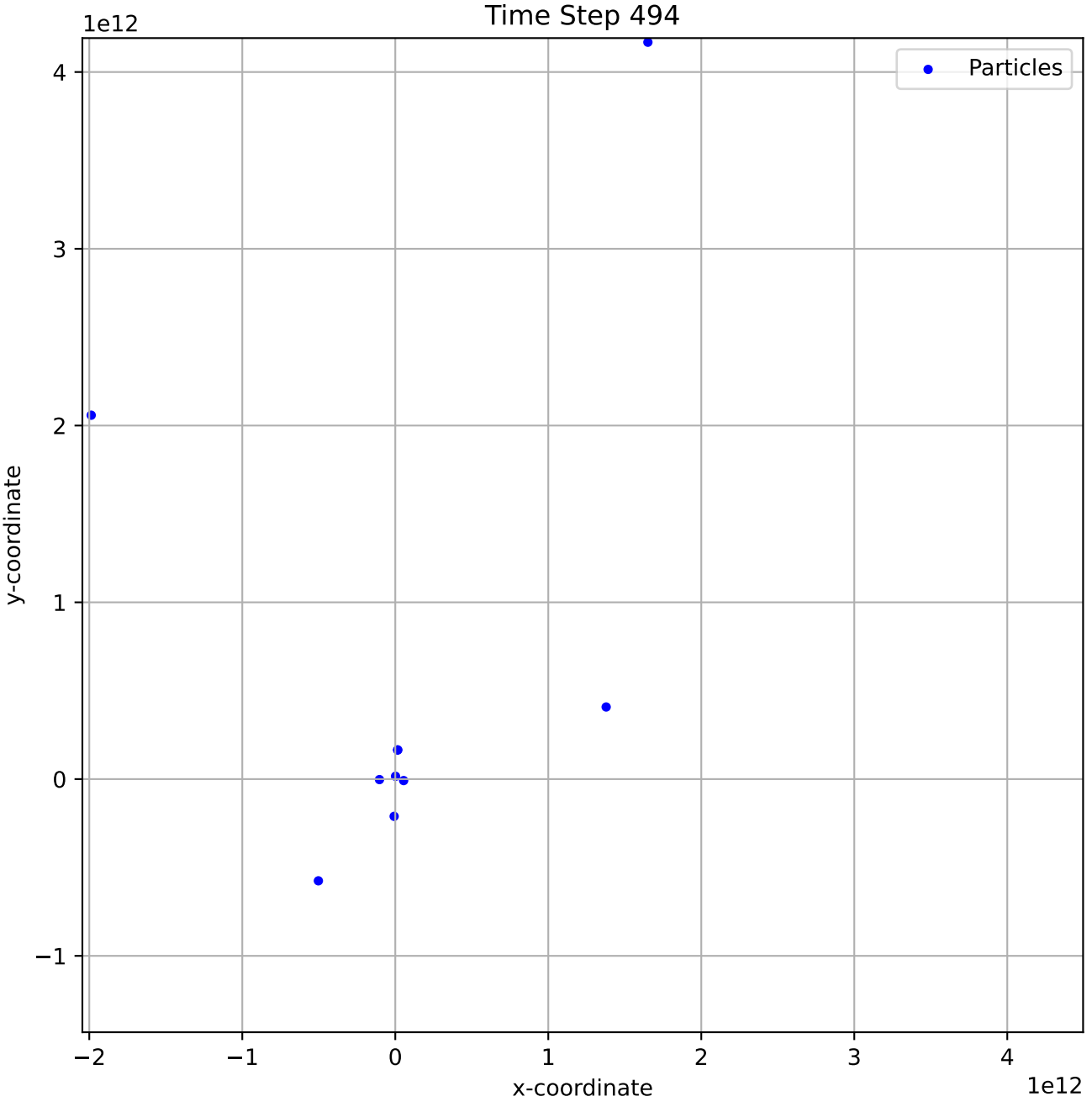

Time Step 489
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

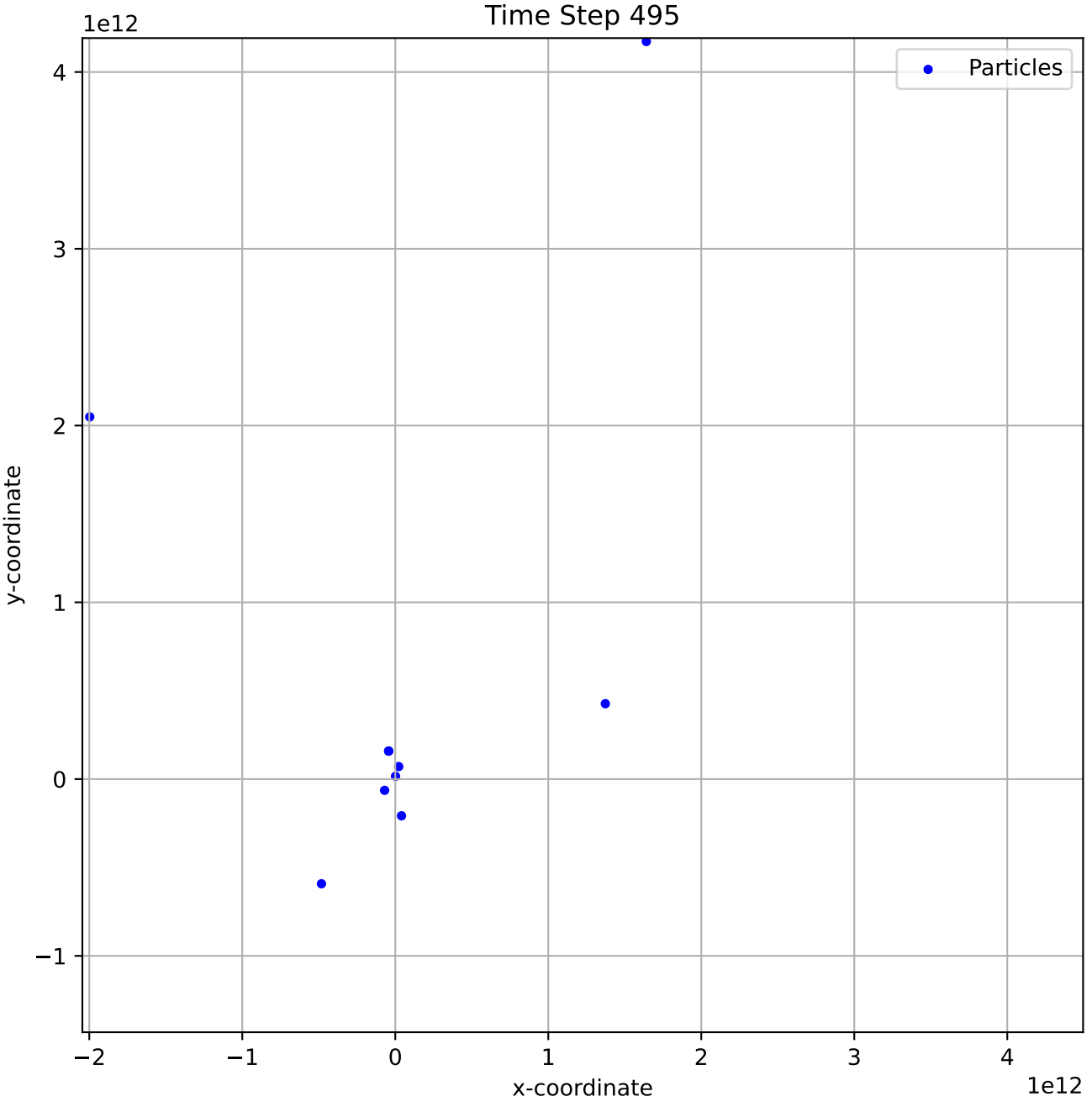

Time Step 490
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

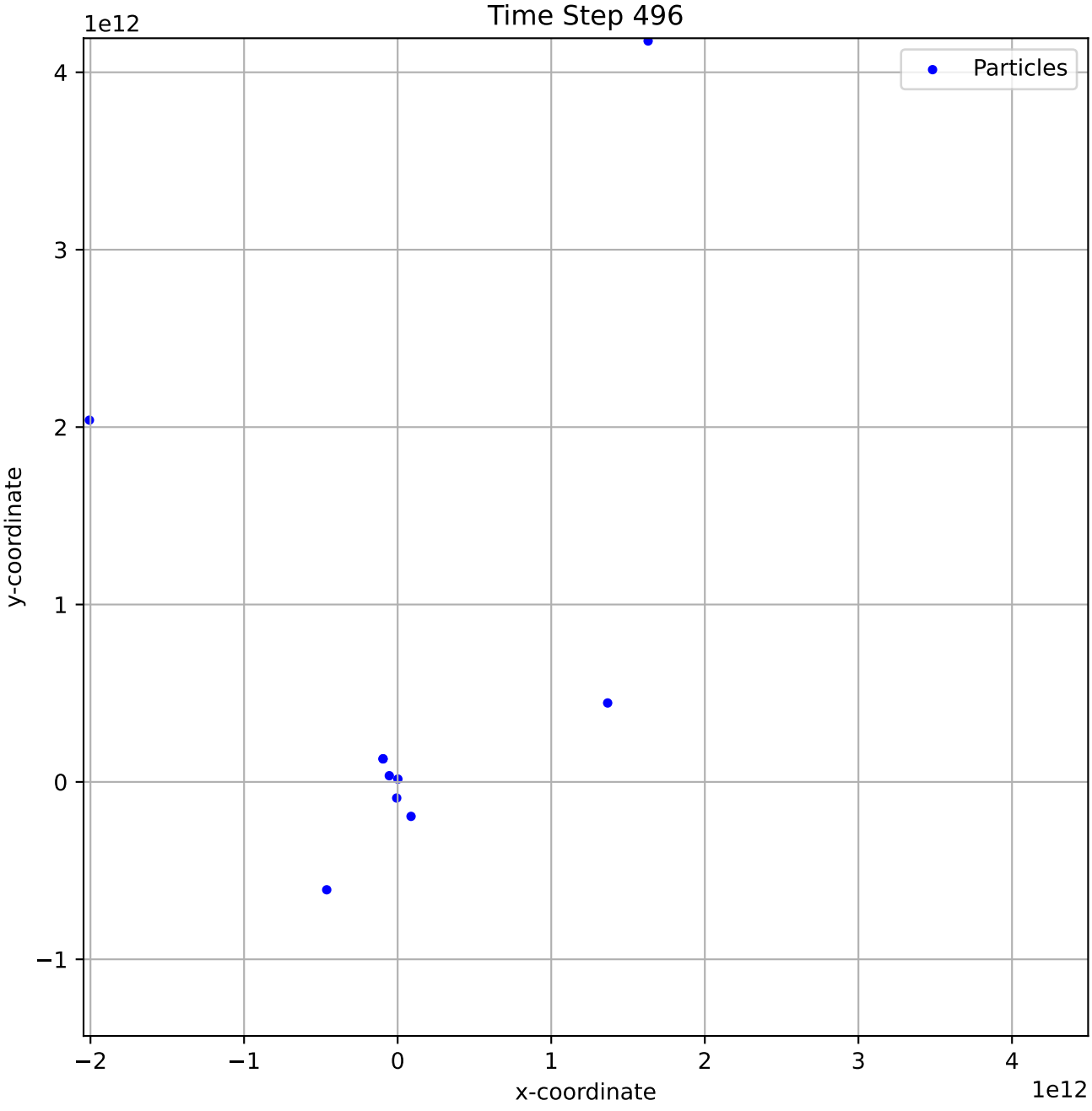

Time Step 491
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

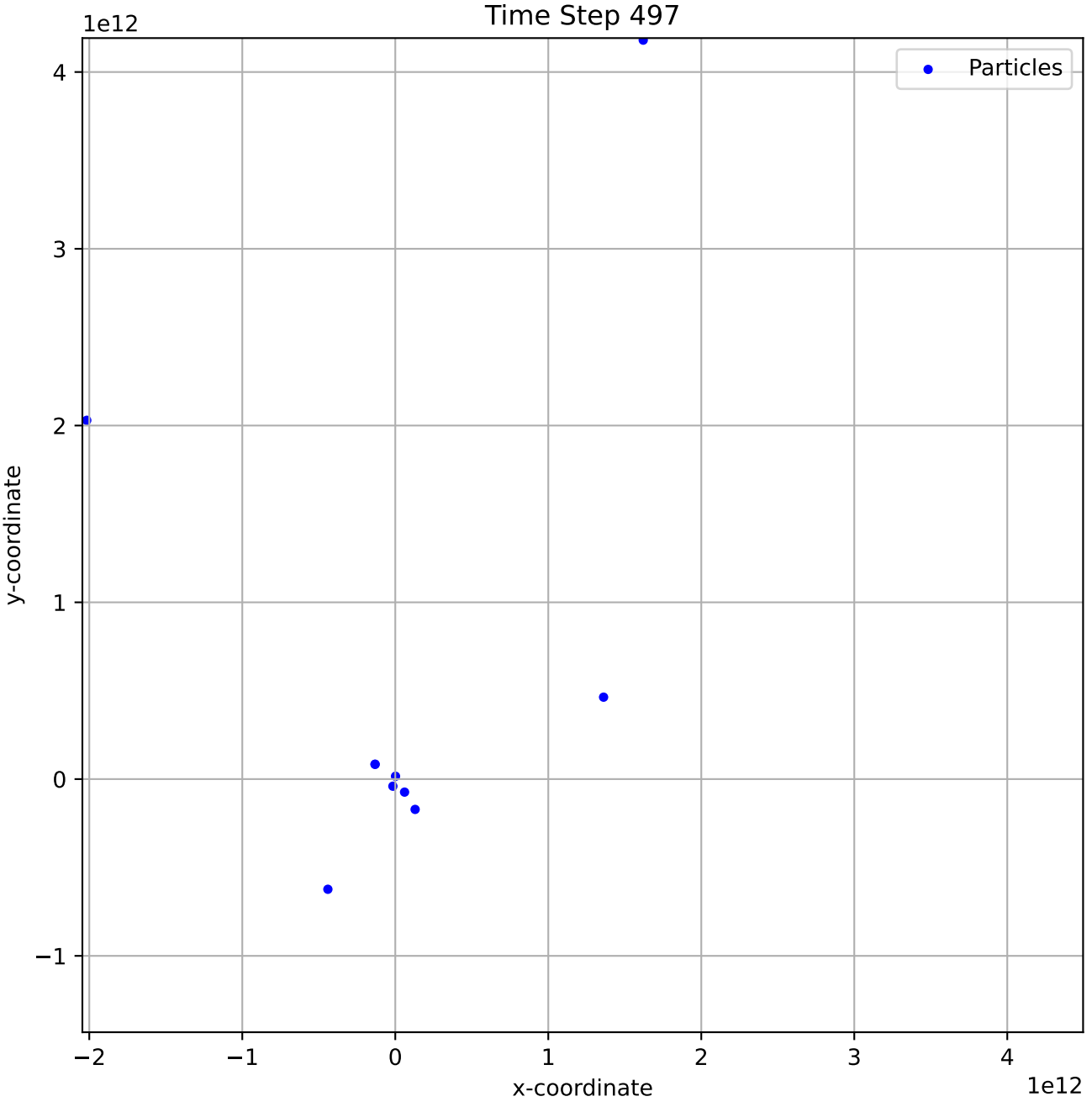

Time Step 492
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

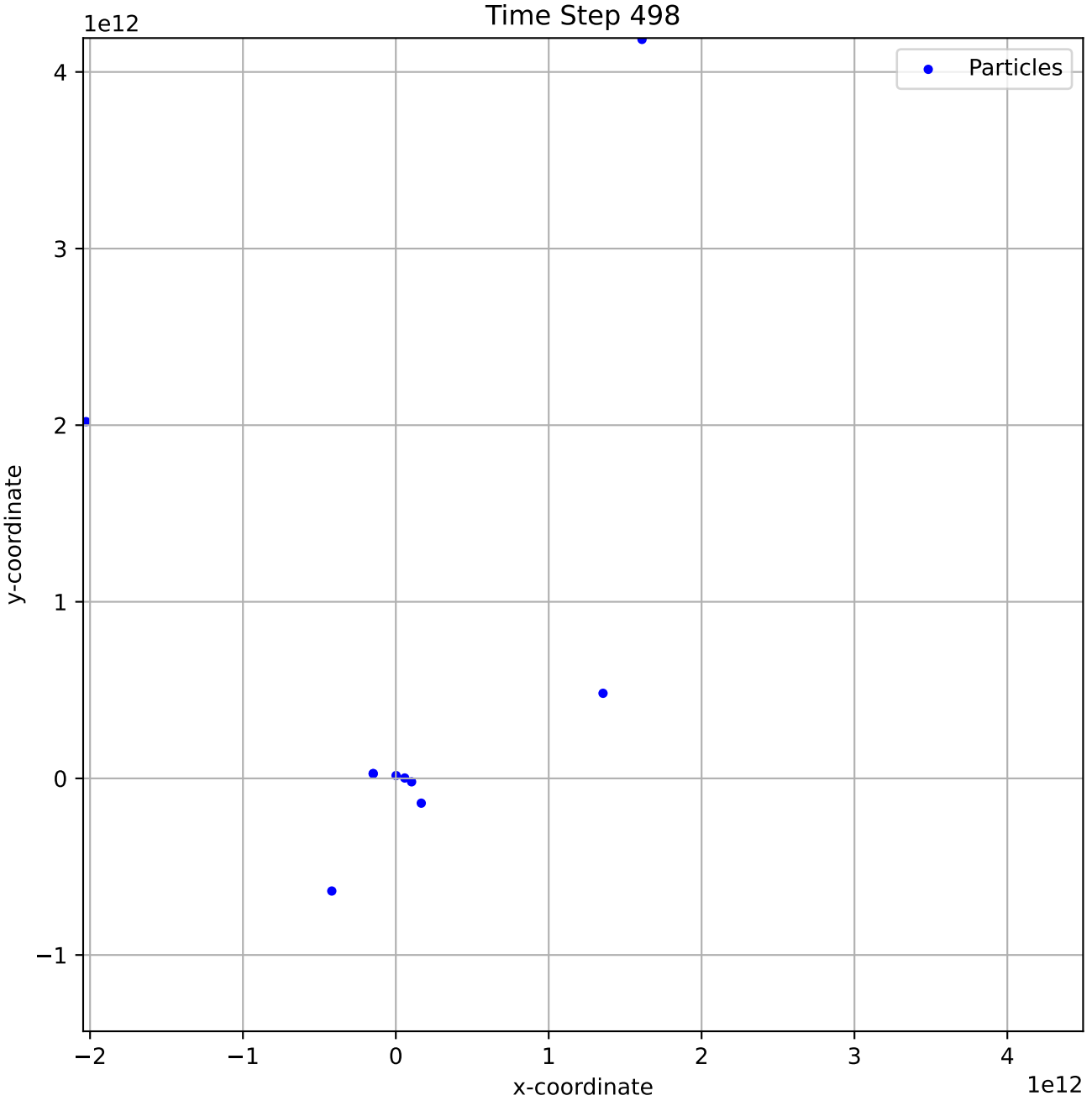

Time Step 493
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

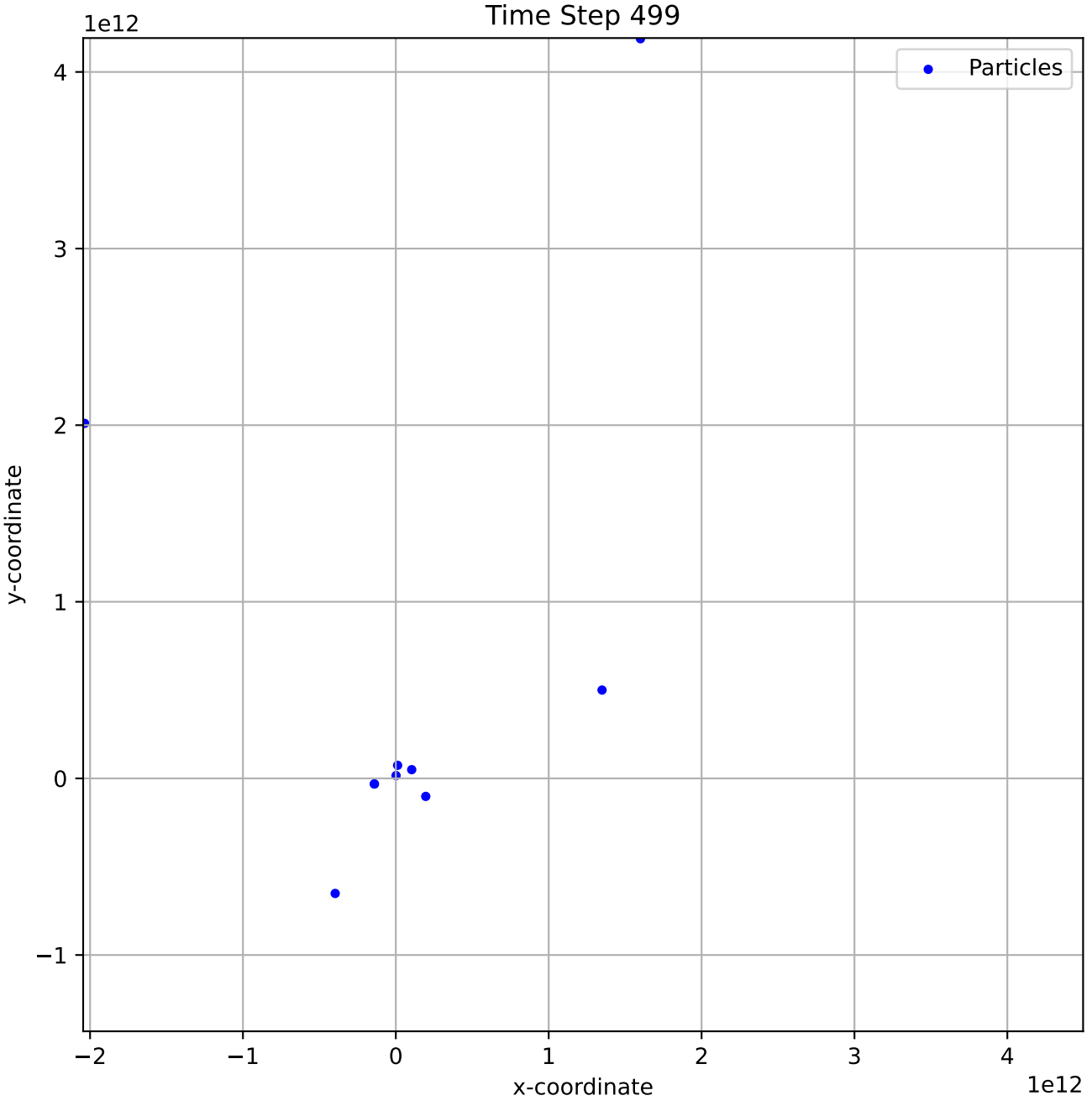

Time Step 494
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4

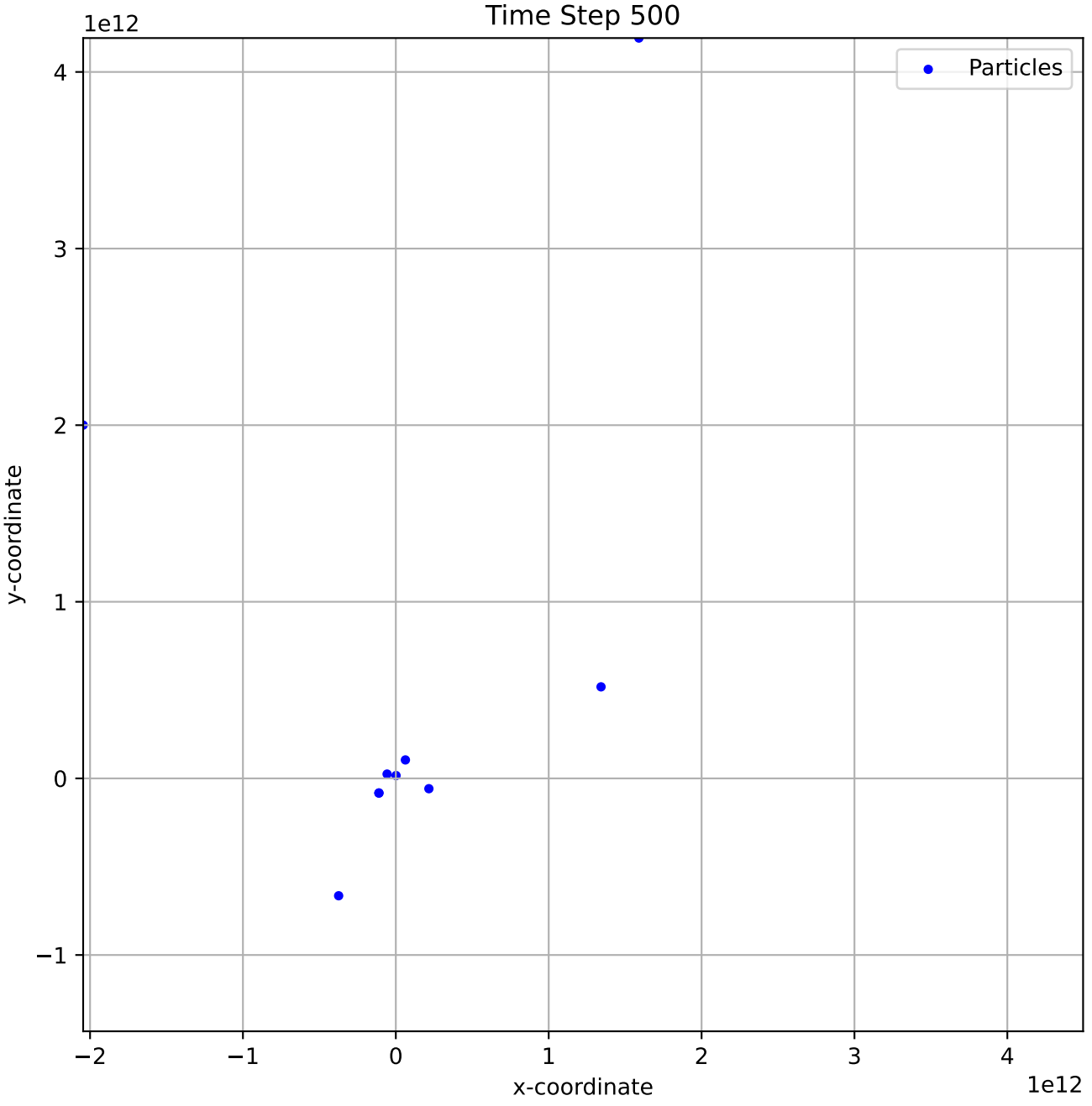

Time Step 495
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4


Time Step 496
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4


Time Step 497
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4


Time Step 498
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4


Time Step 499
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4


Time Step 500
1e12
Particles
y-coordinate
x-coordinate
1e12
4
3
2
1
0
−1
−2
−1
0
1
2
3
4