```
 1 /Users/AlbertoK/ActiveML/venv/bin/python /Users/
   AlbertoK/ActiveML/irlc/Mini-projects/api2.py
 2 -----------------------------------------------------
   ------------------------------------------
 3 Currently running with MPI and an exploration
   weight of 0.01
 4 min = -20.86 expval = 0.01 a_func =  MPI
 5 Location of minima:  [-25.        64.01836583]
 6 Step-index of minimum sample:  21
 7 Updated parameters!
 8 -----------------------------------------------------
   ------------------------------------------
 9 Currently running with MPI and an exploration
   weight of 0.1
10 min = -20.86 expval = 0.1 a_func =  MPI
11 Location of minima:  [-25.        64.01837525]
12 Step-index of minimum sample:  21
13 -----------------------------------------------------
   ------------------------------------------
14 Currently running with MPI and an exploration
   weight of 1
15 min = -20.86 expval = 1 a_func =  MPI
16 Location of minima:  [-25.        64.01838478]
17 Step-index of minimum sample:  21
18 -----------------------------------------------------
   ------------------------------------------
19 Currently running with MPI and an exploration
   weight of 2
20 min = -20.86 expval = 2 a_func =  MPI
21 Location of minima:  [-25.        64.01844149]
22 Step-index of minimum sample:  21
23 -----------------------------------------------------
   ------------------------------------------
24 Currently running with EI and an exploration weight
    of 0.01
25 min = -20.82 expval = 0.01 a_func =  EI
26 Location of minima:  [-24.20463603  64.24198875]
27 Step-index of minimum sample:  47
28 -----------------------------------------------------
   ------------------------------------------
29 Currently running with EI and an exploration weight
    of 0.1
30 min = -20.78 expval = 0.1 a_func =  EI
31 Location of minima:  [-24.46474788  64.22800142]
```

```
32 Step-index of minimum sample:  16
33 -----------------------------------------------
   -----------------------------------------
34 Currently running with EI and an exploration weight
    of 1
35 min = -20.8 expval = 1 a_func =  EI
36 Location of minima:  [-24.32787023  64.27040607]
37 Step-index of minimum sample:  41
38 -----------------------------------------------
   -----------------------------------------
39 Currently running with EI and an exploration weight
    of 2
40 min = -20.82 expval = 2 a_func =  EI
41 Location of minima:  [-25.        64.03333389]
42 Step-index of minimum sample:  42
43 -----------------------------------------------
   -----------------------------------------
44 Currently running with LCB and an exploration
   weight of 0.01
45 min = -20.59 expval = 0.01 a_func =  LCB
46 Location of minima:  [-23.85487909  64.46172426]
47 Step-index of minimum sample:  22
48 -----------------------------------------------
   -----------------------------------------
49 Currently running with LCB and an exploration
   weight of 0.1
50 min = -20.53 expval = 0.1 a_func =  LCB
51 Location of minima:  [-23.75574923  64.48531615]
52 Step-index of minimum sample:  19
53 -----------------------------------------------
   -----------------------------------------
54 Currently running with LCB and an exploration
   weight of 1
55 min = -20.84 expval = 1 a_func =  LCB
56 Location of minima:  [-24.28232068  64.24905358]
57 Step-index of minimum sample:  26
58 -----------------------------------------------
   -----------------------------------------
59 Currently running with LCB and an exploration
   weight of 2
60 min = -20.77 expval = 2 a_func =  LCB
61 Location of minima:  [-25.        63.91928711]
62 Step-index of minimum sample:  47
63 2021-03-01 23:33:47.421 Python[22975:613957]
```

```
63 ApplePersistenceIgnoreState: Existing state will
   not be touched. New state will be written to (null
   )
64 Coordinates with largest wind speed: latitude=64.
   01836583340854, longitude=-25.0
65 Acquistion function = MPI, exploration weight = 0.
   01
66 ========================================================
   ==========================================
67
68
69 Process finished with exit code 0
70
```