

0719

【見通しの良い場合の 1m】

[通常時]

```
C:\Users\Y郷平\Desktop>python test1.py
Serial port opened successfully.
2024-07-16 19:21:29 Sensor 1 count: 1 20.01°C LQI: 127 short addr: 00:ff
2024-07-16 19:21:34 Sensor 1 count: 2 20.01°C LQI: 154 short addr: 00:ff
2024-07-16 19:21:39 Sensor 1 count: 3 20.01°C LQI: 154 short addr: 00:ff
2024-07-16 19:21:44 Sensor 1 count: 4 20.01°C LQI: 172 short addr: 00:ff
2024-07-16 19:21:49 Sensor 1 count: 5 20.01°C LQI: 175 short addr: 00:ff
2024-07-16 19:21:54 Sensor 1 count: 6 20.01°C LQI: 166 short addr: 00:ff
2024-07-16 19:21:59 Sensor 1 count: 7 20.01°C LQI: 124 short addr: 00:ff
2024-07-16 19:22:04 Sensor 1 count: 8 20.01°C LQI: 157 short addr: 00:ff
2024-07-16 19:22:09 Sensor 1 count: 9 20.01°C LQI: 136 short addr: 00:ff
2024-07-16 19:22:14 Sensor 1 count: 10 20.01°C LQI: 166 short addr: 00:ff
2024-07-16 19:22:19 Sensor 1 count: 11 20.01°C LQI: 145 short addr: 00:ff
2024-07-16 19:22:24 Sensor 1 count: 12 20.01°C LQI: 151 short addr: 00:ff
2024-07-16 19:22:29 Sensor 1 count: 13 20.01°C LQI: 154 short addr: 00:ff
2024-07-16 19:22:34 Sensor 1 count: 14 20.01°C LQI: 145 short addr: 00:ff
2024-07-16 19:22:39 Sensor 1 count: 15 20.01°C LQI: 151 short addr: 00:ff
2024-07-16 19:22:45 Sensor 1 count: 16 20.01°C LQI: 160 short addr: 00:ff
```

[水中投下]

[デスク下]

```
C:\Users\Y郷平\Desktop>python test1.py
Serial port opened successfully.
2024-07-18 12:13:40 Sensor 1 count: 1 20.01°C LQI: 124 short addr: 00:84
2024-07-18 12:13:45 Sensor 1 count: 2 20.01°C LQI: 127 short addr: 00:84
2024-07-18 12:13:50 Sensor 1 count: 3 20.01°C LQI: 163 short addr: 00:84
2024-07-18 12:13:55 Sensor 1 count: 4 20.01°C LQI: 160 short addr: 00:84
2024-07-18 12:14:00 Sensor 1 count: 5 20.01°C LQI: 133 short addr: 00:84
2024-07-18 12:14:05 Sensor 1 count: 6 20.01°C LQI: 139 short addr: 00:84
2024-07-18 12:14:10 Sensor 1 count: 7 20.01°C LQI: 139 short addr: 00:84
2024-07-18 12:14:15 Sensor 1 count: 8 20.01°C LQI: 139 short addr: 00:84
2024-07-18 12:14:20 Sensor 1 count: 9 20.01°C LQI: 109 short addr: 00:84
2024-07-18 12:14:26 Sensor 1 count: 10 20.01°C LQI: 151 short addr: 00:84
2024-07-18 12:14:31 Sensor 1 count: 11 20.01°C LQI: 145 short addr: 00:84
2024-07-18 12:14:36 Sensor 1 count: 12 20.01°C LQI: 145 short addr: 00:84
2024-07-18 12:14:41 Sensor 1 count: 13 20.01°C LQI: 136 short addr: 00:84
2024-07-18 12:14:46 Sensor 1 count: 14 20.01°C LQI: 133 short addr: 00:84
2024-07-18 12:14:51 Sensor 1 count: 15 20.01°C LQI: 145 short addr: 00:84
Exception in Tkinter callback
```

[前回の水中投下結果（デスク下）]

```
C:\Users\Y郷平\Desktop>python test1.py
Serial port opened successfully.
2024-07-08 13:56:15 Sensor 1 count: 1 20.01°C LQI: 79 short addr: 00:13
2024-07-08 13:56:20 Sensor 1 count: 2 20.01°C LQI: 64 short addr: 00:13
2024-07-08 13:56:25 Sensor 1 count: 3 20.01°C LQI: 97 short addr: 00:13
2024-07-08 13:56:30 Sensor 1 count: 4 20.01°C LQI: 91 short addr: 00:13
2024-07-08 13:56:35 Sensor 1 count: 5 20.01°C LQI: 94 short addr: 00:13
2024-07-08 13:56:40 Sensor 1 count: 6 20.01°C LQI: 73 short addr: 00:13
2024-07-08 13:56:45 Sensor 1 count: 7 20.01°C LQI: 70 short addr: 00:13
2024-07-08 13:56:50 Sensor 1 count: 8 20.01°C LQI: 70 short addr: 00:13
2024-07-08 13:56:55 Sensor 1 count: 9 20.01°C LQI: 61 short addr: 00:13
2024-07-08 13:57:01 Sensor 1 count: 10 20.01°C LQI: 67 short addr: 00:13
2024-07-08 13:57:06 Sensor 1 count: 11 20.01°C LQI: 67 short addr: 00:13
2024-07-08 13:57:11 Sensor 1 count: 12 20.01°C LQI: 70 short addr: 00:13
2024-07-08 13:57:16 Sensor 1 count: 13 20.01°C LQI: 70 short addr: 00:13
2024-07-08 13:57:21 Sensor 1 count: 14 20.01°C LQI: 40 short addr: 00:13
2024-07-08 13:57:26 Sensor 1 count: 15 20.01°C LQI: 76 short addr: 00:13
2024-07-08 13:57:31 Sensor 1 count: 16 20.01°C LQI: 64 short addr: 00:13
2024-07-08 13:57:36 Sensor 1 count: 17 20.01°C LQI: 70 short addr: 00:13
2024-07-08 13:57:41 Sensor 1 count: 18 20.01°C LQI: 67 short addr: 00:13
2024-07-08 13:57:46 Sensor 1 count: 19 20.01°C LQI: 76 short addr: 00:13
2024-07-08 13:57:51 Sensor 1 count: 20 20.01°C LQI: 97 short addr: 00:13
2024-07-08 13:57:56 Sensor 1 count: 21 20.01°C LQI: 85 short addr: 00:13
2024-07-08 13:58:01 Sensor 1 count: 22 20.01°C LQI: 52 short addr: 00:13
2024-07-08 13:58:06 Sensor 1 count: 23 20.01°C LQI: 61 short addr: 00:13
2024-07-08 13:58:11 Sensor 1 count: 24 20.01°C LQI: 58 short addr: 00:13
```

【見通しの良い場合の 4m】

[通常時]

```
C:\Users\郷平\Desktop>python test1.py
Serial port opened successfully.
2024-07-15 08:22:00 Sensor 1 count: 1 20.01°C LQI: 112 short addr: 00:3e
2024-07-15 08:22:05 Sensor 1 count: 2 20.01°C LQI: 115 short addr: 00:3e
2024-07-15 08:22:10 Sensor 1 count: 3 20.01°C LQI: 115 short addr: 00:3e
2024-07-15 08:22:15 Sensor 1 count: 4 20.01°C LQI: 115 short addr: 00:3e
2024-07-15 08:22:20 Sensor 1 count: 5 20.01°C LQI: 97 short addr: 00:3e
2024-07-15 08:22:25 Sensor 1 count: 6 20.01°C LQI: 100 short addr: 00:3e
2024-07-15 08:22:30 Sensor 1 count: 7 20.01°C LQI: 100 short addr: 00:3e
2024-07-15 08:22:35 Sensor 1 count: 8 20.01°C LQI: 103 short addr: 00:3e
2024-07-15 08:22:40 Sensor 1 count: 9 20.01°C LQI: 109 short addr: 00:3e
2024-07-15 08:22:46 Sensor 1 count: 10 20.01°C LQI: 112 short addr: 00:3e
2024-07-15 08:22:51 Sensor 1 count: 11 20.01°C LQI: 103 short addr: 00:3e
2024-07-15 08:22:56 Sensor 1 count: 12 20.01°C LQI: 115 short addr: 00:3e
2024-07-15 08:23:01 Sensor 1 count: 13 20.01°C LQI: 112 short addr: 00:3e
2024-07-15 08:23:06 Sensor 1 count: 14 20.01°C LQI: 124 short addr: 00:3e
2024-07-15 08:23:11 Sensor 1 count: 15 20.01°C LQI: 118 short addr: 00:3e
2024-07-15 08:23:16 Sensor 1 count: 16 20.01°C LQI: 115 short addr: 00:3e
```

[水中投下]

[前回の通常時結果（デスクと院生部屋の入口付近）]

```
C:\Users\郷平\Desktop>python test1.py
Serial port opened successfully.
2024-07-10 10:25:07 Sensor 1 count: 1 20.01°C LQI: 91 short addr: 00:87
2024-07-10 10:25:12 Sensor 1 count: 2 20.01°C LQI: 94 short addr: 00:87
2024-07-10 10:25:17 Sensor 1 count: 3 20.01°C LQI: 94 short addr: 00:87
2024-07-10 10:25:22 Sensor 1 count: 4 20.01°C LQI: 94 short addr: 00:87
2024-07-10 10:25:28 Sensor 1 count: 5 20.01°C LQI: 97 short addr: 00:87
2024-07-10 10:25:33 Sensor 1 count: 6 20.01°C LQI: 97 short addr: 00:87
2024-07-10 10:25:38 Sensor 1 count: 7 20.01°C LQI: 76 short addr: 00:87
2024-07-10 10:25:43 Sensor 1 count: 8 20.01°C LQI: 85 short addr: 00:87
2024-07-10 10:25:48 Sensor 1 count: 9 20.01°C LQI: 94 short addr: 00:87
2024-07-10 10:25:53 Sensor 1 count: 10 20.01°C LQI: 79 short addr: 00:87
2024-07-10 10:25:58 Sensor 1 count: 11 20.01°C LQI: 58 short addr: 00:87
2024-07-10 10:26:03 Sensor 1 count: 12 20.01°C LQI: 55 short addr: 00:87
2024-07-10 10:26:08 Sensor 1 count: 13 20.01°C LQI: 52 short addr: 00:87
2024-07-10 10:26:13 Sensor 1 count: 14 20.01°C LQI: 76 short addr: 00:87
2024-07-10 10:26:18 Sensor 1 count: 15 20.01°C LQI: 76 short addr: 00:87
2024-07-10 10:26:23 Sensor 1 count: 16 20.01°C LQI: 76 short addr: 00:87
2024-07-10 10:26:28 Sensor 1 count: 17 20.01°C LQI: 85 short addr: 00:87
2024-07-10 10:26:33 Sensor 1 count: 18 20.01°C LQI: 82 short addr: 00:87
2024-07-10 10:26:38 Sensor 1 count: 19 20.01°C LQI: 73 short addr: 00:87
2024-07-10 10:26:43 Sensor 1 count: 20 20.01°C LQI: 76 short addr: 00:87
2024-07-10 10:26:48 Sensor 1 count: 21 20.01°C LQI: 67 short addr: 00:87
2024-07-10 10:26:53 Sensor 1 count: 22 20.01°C LQI: 88 short addr: 00:87
2024-07-10 10:26:58 Sensor 1 count: 23 20.01°C LQI: 85 short addr: 00:87
2024-07-10 10:27:03 Sensor 1 count: 24 20.01°C LQI: 85 short addr: 00:87
2024-07-10 10:27:08 Sensor 1 count: 25 20.01°C LQI: 85 short addr: 00:87
2024-07-10 10:27:13 Sensor 1 count: 26 20.01°C LQI: 61 short addr: 00:87
```

[前回の水中投下結果（デスクと院生部屋の入口付近）]

```
C:\Users\郷平\Desktop>python test1.py
Serial port opened successfully.
2024-07-10 11:24:15 Sensor 1 count: 2 20.01°C LQI: 19 short addr: 00:25
2024-07-10 11:24:21 Sensor 1 count: 3 20.01°C LQI: 28 short addr: 00:25
2024-07-10 11:24:26 Sensor 1 count: 4 20.01°C LQI: 61 short addr: 00:25
2024-07-10 11:24:36 Sensor 1 count: 6 20.01°C LQI: 19 short addr: 00:25
2024-07-10 11:24:41 Sensor 1 count: 7 20.01°C LQI: 25 short addr: 00:25
2024-07-10 11:24:51 Sensor 1 count: 9 20.01°C LQI: 31 short addr: 00:25
2024-07-10 11:25:01 Sensor 1 count: 11 20.01°C LQI: 28 short addr: 00:25
2024-07-10 11:25:06 Sensor 1 count: 12 20.01°C LQI: 40 short addr: 00:25
2024-07-10 11:25:11 Sensor 1 count: 13 20.01°C LQI: 31 short addr: 00:25
2024-07-10 11:25:21 Sensor 1 count: 15 20.01°C LQI: 31 short addr: 00:25
```

【見通しの良い場合の 8m】

[通常時]

```
C:\Users\Y郷平\Desktop>python test1.py
Serial port opened successfully.
2024-07-15 08:26:09 | Sensor 1 | count: 1 | 20.01°C | LQI: 46 | short addr: 00:d3
2024-07-15 08:26:14 | Sensor 1 | count: 2 | 20.01°C | LQI: 82 | short addr: 00:d3
2024-07-15 08:26:19 | Sensor 1 | count: 3 | 20.01°C | LQI: 58 | short addr: 00:d3
2024-07-15 08:26:24 | Sensor 1 | count: 4 | 20.01°C | LQI: 76 | short addr: 00:d3
2024-07-15 08:26:29 | Sensor 1 | count: 5 | 20.01°C | LQI: 97 | short addr: 00:d3
2024-07-15 08:26:34 | Sensor 1 | count: 6 | 20.01°C | LQI: 100 | short addr: 00:d3
2024-07-15 08:26:39 | Sensor 1 | count: 7 | 20.01°C | LQI: 103 | short addr: 00:d3
2024-07-15 08:26:44 | Sensor 1 | count: 8 | 20.01°C | LQI: 103 | short addr: 00:d3
2024-07-15 08:26:49 | Sensor 1 | count: 9 | 20.01°C | LQI: 103 | short addr: 00:d3
2024-07-15 08:26:54 | Sensor 1 | count: 10 | 20.01°C | LQI: 100 | short addr: 00:d3
2024-07-15 08:26:59 | Sensor 1 | count: 11 | 20.01°C | LQI: 100 | short addr: 00:d3
2024-07-15 08:27:04 | Sensor 1 | count: 12 | 20.01°C | LQI: 97 | short addr: 00:d3
2024-07-15 08:27:09 | Sensor 1 | count: 13 | 20.01°C | LQI: 85 | short addr: 00:d3
2024-07-15 08:27:14 | Sensor 1 | count: 14 | 20.01°C | LQI: 85 | short addr: 00:d3
2024-07-15 08:27:19 | Sensor 1 | count: 15 | 20.01°C | LQI: 85 | short addr: 00:d3
2024-07-15 08:27:24 | Sensor 1 | count: 16 | 20.01°C | LQI: 97 | short addr: 00:d3
```

[水中投下]

[前回の通常時結果（デスクと 4 年部屋）]

```
C:\Users\Y郷平\Desktop>python test1.py
Serial port opened successfully.
2024-07-10 10:41:58 | Sensor 1 | count: 1 | 20.01°C | LQI: 64 | short addr: 00:05
2024-07-10 10:42:03 | Sensor 1 | count: 2 | 20.01°C | LQI: 49 | short addr: 00:05
2024-07-10 10:42:08 | Sensor 1 | count: 3 | 20.01°C | LQI: 55 | short addr: 00:05
2024-07-10 10:42:13 | Sensor 1 | count: 4 | 20.01°C | LQI: 58 | short addr: 00:05
2024-07-10 10:42:18 | Sensor 1 | count: 5 | 20.01°C | LQI: 61 | short addr: 00:05
2024-07-10 10:42:23 | Sensor 1 | count: 6 | 20.01°C | LQI: 58 | short addr: 00:05
2024-07-10 10:42:28 | Sensor 1 | count: 7 | 20.01°C | LQI: 61 | short addr: 00:05
2024-07-10 10:42:33 | Sensor 1 | count: 8 | 20.01°C | LQI: 61 | short addr: 00:05
2024-07-10 10:42:38 | Sensor 1 | count: 9 | 20.01°C | LQI: 43 | short addr: 00:05
2024-07-10 10:42:43 | Sensor 1 | count: 10 | 20.01°C | LQI: 52 | short addr: 00:05
2024-07-10 10:42:48 | Sensor 1 | count: 11 | 20.01°C | LQI: 49 | short addr: 00:05
2024-07-10 10:42:53 | Sensor 1 | count: 12 | 20.01°C | LQI: 46 | short addr: 00:05
2024-07-10 10:42:58 | Sensor 1 | count: 13 | 20.01°C | LQI: 58 | short addr: 00:05
2024-07-10 10:43:03 | Sensor 1 | count: 14 | 20.01°C | LQI: 55 | short addr: 00:05
2024-07-10 10:43:08 | Sensor 1 | count: 15 | 20.01°C | LQI: 52 | short addr: 00:05
2024-07-10 10:43:13 | Sensor 1 | count: 16 | 20.01°C | LQI: 52 | short addr: 00:05
2024-07-10 10:43:18 | Sensor 1 | count: 17 | 20.01°C | LQI: 49 | short addr: 00:05
2024-07-10 10:43:24 | Sensor 1 | count: 18 | 20.01°C | LQI: 31 | short addr: 00:05
2024-07-10 10:43:29 | Sensor 1 | count: 19 | 20.01°C | LQI: 40 | short addr: 00:05
```

[前回の水中投下結果（デスクと 4 年部屋）]

```
C:\Users\Y郷平\Desktop>python test1.py
Serial port opened successfully.
```

【表示方法】

1. LQI 値ではなく, dbm 表記にする.
2. 1m, 2m, 4m, 8m …の実験の際, グラフを下記の 2 つのどれかを採用する.

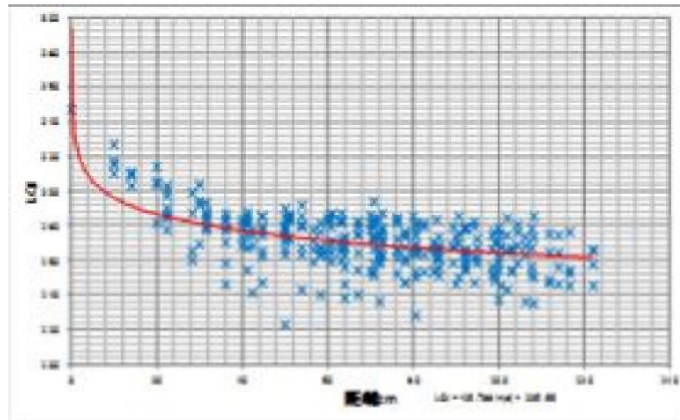


図 2 LQI と距離の関係

Box plots

