

# 推算潮位（毎時・満干潮）

地点名：忍路

緯度：43 °13 N

経度：140 °52 E

潮位表基準面の零点：平均海面下 17.0(cm)

2019 年 1 月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 満潮   |      |       |       | 干潮    |       |    |    |    |    |      |      |       |       |       |    |   |   |   |   |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|------|-------|-------|-------|-------|----|----|----|----|------|------|-------|-------|-------|----|---|---|---|---|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23  | 日合計  | 日平均  | 月     | 時刻    | 潮位    | 時刻    | 潮位 | 時刻 | 潮位 | 時刻 | 潮位   | 時刻   | 潮位    | 時刻    | 潮位    |    |   |   |   |   |
| 1  | 16   | 14 | 12 | 10 | 7  | 5  | 3  | 3  | 4  | 5  | 8  | 10 | 12 | 14 | 14 | 14 | 13 | 13 | 13 | 14 | 14 | 15 | 16 | 17  | 266  | 11.1 |       | 13:49 | 14    | 23:38 | 17 | *  | *  | *  | *    | 6:58 | 3     | 17:11 | 13    | *  | * | * | * |   |
| 2  | 17   | 16 | 14 | 11 | 8  | 5  | 2  | 1  | 0  | 1  | 4  | 7  | 10 | 13 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 18 | 271 | 11.3 |      | *     | *     | *     | *     | *  | *  | *  | *  | 7:48 | 0    | *     | *     | *     | *  | * | * |   |   |
| 3  | 18   | 18 | 16 | 14 | 10 | 7  | 3  | 0  | -1 | -1 | 0  | 4  | 8  | 12 | 15 | 17 | 18 | 18 | 18 | 17 | 17 | 18 | 18 | 19  | 283  | 11.8 |       | 0:8   | 18    | *     | *  | *  | *  | *  | *    | *    | 8:30  | -1    | *     | *  | * | * | * | * |
| 4  | 20   | 20 | 19 | 17 | 14 | 10 | 5  | 2  | -1 | -2 | -1 | 1  | 5  | 10 | 14 | 17 | 19 | 19 | 19 | 19 | 19 | 19 | 20 | 303 | 12.6 |      | 0:43  | 20    | 17:5  | 19    | *  | *  | *  | *  | *    | *    | 9:8   | -2    | 20:0  | 19 | * | * | * | * |
| 5  | 21   | 21 | 21 | 20 | 17 | 13 | 9  | 4  | 1  | -2 | -2 | 0  | 3  | 8  | 12 | 17 | 19 | 21 | 21 | 20 | 19 | 19 | 20 | 322 | 13.4 |      | 1:20  | 21    | 17:27 | 21    | *  | *  | *  | *  | *    | *    | 9:43  | -2    | 20:39 | 19 | * | * | * | * |
| 6  | 21   | 22 | 23 | 22 | 20 | 17 | 12 | 7  | 3  | 0  | -2 | -1 | 1  | 5  | 10 | 15 | 19 | 21 | 21 | 21 | 20 | 19 | 19 | 20  | 335  | 14.0 | N     | 1:59  | 23    | 17:51 | 21 | *  | *  | *  | *    | *    | 10:16 | -2    | 21:16 | 19 | * | * | * | * |
| 7  | 21   | 22 | 23 | 23 | 22 | 20 | 16 | 11 | 6  | 2  | -1 | -1 | 0  | 3  | 8  | 13 | 17 | 20 | 21 | 21 | 20 | 19 | 19 | 19  | 344  | 14.3 |       | 2:38  | 23    | 18:16 | 21 | *  | *  | *  | *    | *    | 10:50 | -1    | 21:52 | 19 | * | * | * | * |
| 8  | 20   | 21 | 23 | 23 | 23 | 21 | 18 | 14 | 9  | 4  | 1  | -1 | -1 | 1  | 5  | 10 | 15 | 18 | 20 | 21 | 20 | 18 | 17 | 17  | 337  | 14.0 |       | 3:16  | 24    | 18:42 | 21 | *  | *  | *  | *    | *    | 11:23 | -1    | 22:30 | 17 | * | * | * | * |
| 9  | 18   | 19 | 21 | 22 | 23 | 22 | 20 | 16 | 11 | 6  | 2  | 0  | -1 | 0  | 3  | 7  | 11 | 15 | 18 | 19 | 19 | 17 | 16 | 16  | 320  | 13.3 |       | 3:53  | 23    | 19:9  | 19 | *  | *  | *  | *    | *    | 11:57 | -1    | 23:10 | 16 | * | * | * | * |
| 10 | 16   | 17 | 18 | 20 | 21 | 21 | 19 | 17 | 13 | 8  | 4  | 1  | -1 | -1 | 1  | 4  | 8  | 12 | 15 | 17 | 17 | 16 | 15 | 14  | 292  | 12.2 |       | 4:29  | 21    | 19:38 | 18 | *  | *  | *  | *    | *    | 12:29 | -1    | 23:56 | 14 | * | * | * | * |
| 11 | 14   | 14 | 15 | 17 | 18 | 19 | 18 | 16 | 13 | 10 | 6  | 2  | 0  | 0  | 1  | 3  | 6  | 9  | 13 | 15 | 16 | 15 | 14 | 13  | 267  | 11.1 |       | 5:5   | 19    | 20:7  | 16 | *  | *  | *  | *    | *    | 13:0  | 0     | *     | *  | * | * | * | * |
| 12 | 12   | 11 | 12 | 13 | 14 | 15 | 15 | 15 | 13 | 10 | 7  | 4  | 2  | 1  | 1  | 2  | 4  | 7  | 10 | 13 | 14 | 14 | 13 | 12  | 234  | 9.8  |       | 5:45  | 15    | 20:35 | 14 | *  | *  | *  | *    | *    | 0:50  | 11    | 13:26 | 1  | * | * | * | * |
| 13 | 10   | 9  | 9  | 10 | 10 | 11 | 12 | 12 | 11 | 10 | 8  | 5  | 3  | 2  | 2  | 3  | 4  | 6  | 9  | 11 | 12 | 13 | 13 | 11  | 206  | 8.6  |       | 6:35  | 12    | 21:4  | 13 | *  | *  | *  | *    | *    | 1:54  | 9     | 13:45 | 2  | * | * | * | * |
| 14 | 10   | 8  | 7  | 7  | 7  | 8  | 9  | 9  | 9  | 9  | 8  | 7  | 5  | 4  | 4  | 4  | 5  | 7  | 8  | 10 | 12 | 12 | 12 | 11  | 192  | 8.0  | U     | 7:52  | 9     | 21:31 | 13 | *  | *  | *  | *    | *    | 3:8   | 7     | 13:54 | 4  | * | * | * | * |
| 15 | 10   | 8  | 6  | 5  | 5  | 5  | 5  | 6  | 7  | 8  | 8  | 8  | 7  | 7  | 6  | 7  | 7  | 8  | 9  | 10 | 12 | 12 | 13 | 12  | 191  | 8.0  |       | 10:13 | 8     | 21:57 | 13 | *  | *  | *  | *    | *    | 4:30  | 4     | 13:56 | 6  | * | * | * | * |
| 16 | 11   | 9  | 6  | 4  | 3  | 2  | 2  | 3  | 4  | 5  | 7  | 8  | 9  | 9  | 9  | 10 | 10 | 11 | 11 | 12 | 13 | 13 | 14 | 14  | 199  | 8.3  |       | 22:27 | 14    | *     | *  | *  | *  | *  | *    | 5:42 | 2     | *     | *     | *  | * | * | * |   |
| 17 | 13   | 11 | 8  | 5  | 3  | 1  | 0  | 0  | 1  | 2  | 5  | 7  | 10 | 11 | 12 | 13 | 13 | 13 | 14 | 14 | 14 | 15 | 15 | 16  | 216  | 9.0  |       | 23:7  | 16    | *     | *  | *  | *  | *  | *    | 6:38 | 0     | *     | *     | *  | * | * | * |   |
| 18 | 15   | 14 | 11 | 8  | 4  | 1  | -1 | -3 | -3 | -1 | 2  | 5  | 9  | 12 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 18  | 234  | 9.8  |       | 23:58 | 18    | *     | *  | *  | *  | *  | *    | 7:27 | -3    | *     | *     | *  | * | * | * |   |
| 19 | 18   | 17 | 15 | 12 | 8  | 3  | -1 | -4 | -5 | -4 | -2 | 2  | 6  | 11 | 15 | 18 | 19 | 19 | 19 | 18 | 18 | 18 | 19 | 257 | 10.7 |      | 16:49 | 19    | *     | *     | *  | *  | *  | *  | 8:16 | -5   | 20:44 | 18    | *     | *  | * | * |   |   |
| 20 | 20   | 20 | 20 | 17 | 13 | 8  | 2  | -2 | -6 | -7 | -6 | -3 | 2  | 8  | 13 | 17 | 20 | 21 | 21 | 20 | 19 | 19 | 19 | 19  | 274  | 11.4 |       | 0:56  | 20    | 17:11 | 21 | *  | *  | *  | *    | *    | 9:4   | -7    | 21:17 | 19 | * | * | * | * |
| 21 | 21   | 22 | 23 | 22 | 19 | 14 | 8  | 1  | -4 | -7 | -8 | -7 | -3 | 3  | 9  | 15 | 19 | 21 | 21 | 20 | 19 | 18 | 18 | 19  | 283  | 11.8 | F     | 1:54  | 23    | 17:39 | 22 | *  | *  | *  | *    | *    | 9:54  | -8    | 21:45 | 18 | * | * | * | * |
| 22 | 20   | 22 | 24 | 24 | 23 | 20 | 14 | 7  | 0  | -5 | -8 | -9 | -7 | -2 | 4  | 11 | 16 | 19 | 21 | 20 | 19 | 17 | 17 | 17  | 284  | 11.8 |       | 2:52  | 24    | 18:10 | 21 | *  | *  | *  | *    | *    | 10:43 | #-9   | 22:20 | 17 | * | * | * | * |
| 23 | 18   | 20 | 22 | 24 | 25 | 23 | 19 | 13 | 6  | -1 | -6 | -8 | -8 | -5 | 0  | 6  | 12 | 16 | 19 | 19 | 18 | 16 | 15 | 14  | 277  | 11.5 |       | 3:50  | #25   | 18:41 | 20 | *  | *  | *  | *    | *    | 11:31 | -8    | 23:4  | 14 | * | * | * | * |
| 24 | 15   | 16 | 18 | 21 | 23 | 24 | 22 | 18 | 12 | 5  | -1 | -5 | -7 | -6 | -3 | 2  | 7  | 12 | 16 | 18 | 17 | 15 | 13 | 12  | 264  | 11.0 |       | 4:48  | 24    | 19:12 | 18 | *  | *  | *  | *    | *    | 12:17 | -7    | 23:57 | 11 | * | * | * | * |
| 25 | 11   | 12 | 13 | 16 | 19 | 21 | 21 | 20 | 16 | 10 | 4  | 0  | -3 | -4 | -3 | 0  | 4  | 9  | 13 | 15 | 16 | 14 | 12 | 10  | 246  | 10.3 |       | 5:48  | 21    | 19:42 | 16 | *  | *  | *  | *    | *    | 13:0  | -4    | *     | *  | * | * | * | * |
| 26 | 8    | 8  | 9  | 10 | 13 | 15 | 17 | 18 | 17 | 13 | 9  | 4  | 1  | -1 | -1 | 1  | 4  | 7  | 11 | 13 | 14 | 14 | 12 | 9   | 225  | 9.4  |       | 6:52  | 18    | 20:11 | 14 | *  | *  | *  | *    | *    | 1:0   | 8     | 13:37 | -1 | * | * | * | * |
| 27 | 7    | 6  | 5  | 5  | 7  | 9  | 11 | 13 | 14 | 13 | 11 | 8  | 5  | 4  | 3  | 3  | 5  | 7  | 10 | 12 | 13 | 13 | 12 | 10  | 206  | 8.6  |       | 8:5   | 14    | 20:36 | 14 | *  | *  | *  | *    | *    | 2:10  | 5     | 14:5  | 3  | * | * | * | * |
| 28 | 7    | 5  | 4  | 3  | 3  | 4  | 5  | 7  | 9  | 10 | 10 | 10 | 8  | 7  | 7  | 7  | 8  | 9  | 10 | 12 | 13 | 13 | 13 | 11  | 195  | 8.1  | L     | 9:40  | 11    | 20:59 | 13 | *  | *  | *  | *    | *    | 3:32  | 3     | 14:15 | 7  | * | * | * | * |
| 29 | 9    | 6  | 4  | 2  | 1  | 0  | 1  | 2  | 4  | 6  | 8  | 9  | 9  | 9  | 9  | 10 | 10 | 11 | 12 | 13 | 14 | 14 | 14 | 13  | 190  | 7.9  |       | 21:17 | 14    | *     | *  | *  | *  | *  | *    | 5:6  | 0     | *     | *     | *  | * | * | * |   |
| 30 | 11   | 9  | 6  | 3  | 1  | -1 | -2 | -1 | 0  | 2  | 4  | 7  | 9  | 10 | 11 | 12 | 13 | 13 | 14 | 14 | 15 | 15 | 15 | 14  | 194  | 8.1  |       | 21:31 | 15    | *     | *  | *  | *  | *  | *    | 6:28 | -2    | *     | *     | *  | * | * | * |   |
| 31 | 13   | 11 | 9  | 6  | 3  | 1  | -2 | -3 | -3 | -1 | 1  | 4  | 8  | 10 | 12 | 14 | 14 | 15 | 15 | 16 | 16 | 16 | 16 | 16  | 207  | 8.6  |       | 22:14 | 16    | *     | *  | *  | *  | *  | *    | 7:30 | -3    | *     | *     | *  | * | * | * |   |

| N<br>総回数 | Sum<br>推算月合計 | Mean<br>推算月平均 | 推算月最高潮位  |    |    | 推算月最低潮位   |    |    |
|----------|--------------|---------------|----------|----|----|-----------|----|----|
|          |              |               | 起時       | 潮位 | 回数 | 起時        | 潮位 | 回数 |
| 744      | 7914         | 10.6          | 23日3時50分 | 25 | 1  | 22日10時43分 | -9 | 1  |

# 推算潮位 (毎時・満干潮)

地点名: 忍路

緯度: 43 °13 N

経度: 140 °52 E

潮位表基準面の零点: 平均海面下 17.0(cm)

2019年2月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |     |     |    |    |    |    |    |    |    |    |    |    |    | 満潮  |      |     |       |       |       | 干潮 |    |    |    |    |      |       |       |       |    |    |    |   |   |
|----|------|----|----|----|----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|-----|------|-----|-------|-------|-------|----|----|----|----|----|------|-------|-------|-------|----|----|----|---|---|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23  | 日合計  | 日平均 | 月     | 時刻    | 潮位    | 時刻 | 潮位 | 時刻 | 潮位 | 時刻 | 潮位   | 時刻    | 潮位    | 時刻    | 潮位 | 時刻 | 潮位 |   |   |
| 1  | 15   | 14 | 12 | 9  | 6  | 3  | 0  | -2 | -3 | -3 | -1  | 2   | 6  | 9  | 12 | 14 | 15 | 16 | 16 | 16 | 16 | 16 | 17 | 221 | 9.2  |     | 21:46 | 17    | *     | *  | *  | *  | *  | *  | *    | 8:18  | -4    | *     | *  | *  | *  | * | * |
| 2  | 17   | 16 | 15 | 13 | 10 | 6  | 2  | -1 | -3 | -4 | -3  | 0   | 4  | 8  | 12 | 14 | 16 | 17 | 17 | 16 | 16 | 16 | 17 | 237 | 9.9  |     | 17:17 | 17    | *     | *  | *  | *  | *  | *  | *    | 8:57  | -4    | 20:22 | 16 | *  | *  | * | * |
| 3  | 17   | 18 | 17 | 16 | 13 | 10 | 5  | 1  | -2 | -3 | -4  | -2  | 2  | 6  | 10 | 14 | 16 | 17 | 17 | 16 | 16 | 15 | 16 | 247 | 10.3 |     | 0:56  | 18    | 17:15 | 17 | *  | *  | *  | *  | *    | 9:33  | -4    | 20:48 | 15 | *  | *  | * | * |
| 4  | 17   | 18 | 18 | 18 | 16 | 13 | 9  | 4  | 0  | -3 | -4  | -3  | 0  | 4  | 8  | 12 | 15 | 17 | 17 | 16 | 15 | 14 | 14 | 250 | 10.4 |     | 1:51  | 18    | 17:27 | 17 | *  | *  | *  | *  | *    | 10: 7 | -4    | 21:19 | 14 | *  | *  | * | * |
| 5  | 16   | 17 | 19 | 19 | 18 | 15 | 11 | 7  | 2  | -2 | -4  | -4  | -2 | 1  | 6  | 10 | 14 | 16 | 16 | 15 | 14 | 13 | 12 | 242 | 10.1 | N   | 2:39  | 19    | 17:44 | 16 | *  | *  | *  | *  | *    | 10:39 | -4    | 21:53 | 12 | *  | *  | * | * |
| 6  | 14   | 16 | 17 | 18 | 18 | 17 | 14 | 9  | 4  | 0  | -3  | -4  | -4 | -1 | 3  | 8  | 12 | 14 | 15 | 15 | 13 | 11 | 10 | 226 | 9.4  |     | 3:23  | 19    | 18: 4 | 15 | *  | *  | *  | *  | *    | 11:11 | -4    | 22:29 | 10 | *  | *  | * | * |
| 7  | 11   | 13 | 15 | 17 | 18 | 17 | 15 | 11 | 6  | 2  | -2  | -4  | -4 | -3 | 1  | 5  | 9  | 12 | 14 | 14 | 12 | 10 | 8  | 205 | 8.5  |     | 4: 3  | 18    | 18:24 | 14 | *  | *  | *  | *  | *    | 11:41 | -4    | 23: 6 | 8  | *  | *  | * | * |
| 8  | 8    | 9  | 12 | 14 | 16 | 16 | 15 | 12 | 8  | 3  | 0   | -3  | -4 | -3 | -1 | 3  | 7  | 10 | 12 | 13 | 11 | 9  | 7  | 180 | 7.5  |     | 4:43  | 16    | 18:46 | 13 | *  | *  | *  | *  | *    | 12: 8 | -4    | 23:46 | 5  | *  | *  | * | * |
| 9  | 5    | 6  | 8  | 10 | 13 | 14 | 14 | 12 | 9  | 5  | 1   | -1  | -3 | -3 | -1 | 2  | 5  | 8  | 11 | 12 | 11 | 9  | 6  | 157 | 6.5  |     | 5:24  | 14    | 19: 6 | 12 | *  | *  | *  | *  | *    | 12:32 | -3    | *     | *  | *  | *  | * | * |
| 10 | 3    | 3  | 5  | 7  | 9  | 11 | 11 | 11 | 9  | 6  | 3   | 1   | -1 | -1 | 0  | 1  | 4  | 7  | 9  | 11 | 11 | 9  | 6  | 139 | 5.8  |     | 6:10  | 11    | 19:26 | 11 | *  | *  | *  | *  | *    | 0:28  | 3     | 12:49 | -1 | *  | *  | * | * |
| 11 | 2    | 2  | 2  | 3  | 5  | 7  | 9  | 9  | 9  | 7  | 5   | 3   | 1  | 1  | 1  | 3  | 5  | 7  | 9  | 10 | 10 | 9  | 7  | 131 | 5.5  |     | 7: 5  | 9     | 19:42 | 11 | *  | *  | *  | *  | *    | 1:14  | 2     | 12:55 | 1  | *  | *  | * | * |
| 12 | 2    | 1  | 0  | 0  | 2  | 4  | 5  | 7  | 7  | 7  | 6   | 5   | 4  | 4  | 4  | 5  | 6  | 8  | 9  | 10 | 11 | 10 | 9  | 132 | 5.5  |     | 8:19  | 7     | 19:56 | 11 | *  | *  | *  | *  | *    | 2: 5  | 0     | 12:54 | 4  | *  | *  | * | * |
| 13 | 3    | 1  | 0  | -1 | -1 | 0  | 2  | 4  | 5  | 6  | 7   | 7   | 6  | 6  | 7  | 8  | 9  | 10 | 11 | 11 | 12 | 11 | 10 | 142 | 5.9  | U   | 20: 5 | 12    | *     | *  | *  | *  | *  | *  | 3: 7 | -1    | *     | *     | *  | *  | *  | * |   |
| 14 | 6    | 3  | 0  | -1 | -2 | -2 | -1 | 0  | 2  | 4  | 6   | 8   | 8  | 9  | 10 | 10 | 11 | 12 | 13 | 13 | 13 | 13 | 12 | 158 | 6.6  |     | 20: 8 | 13    | *     | *  | *  | *  | *  | *  | 4:25 | -2    | *     | *     | *  | *  | *  | * |   |
| 15 | 9    | 6  | 3  | 0  | -2 | -3 | -3 | -3 | -1 | 1  | 4   | 7   | 9  | 11 | 12 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 175 | 7.3  |     | 18:29 | 14    | *     | *  | *  | *  | *  | *  | 5:49 | -3    | *     | *     | *  | *  | *  | * |   |
| 16 | 12   | 10 | 7  | 3  | 0  | -3 | -5 | -5 | -5 | -3 | 1   | 4   | 8  | 11 | 13 | 15 | 16 | 16 | 16 | 16 | 15 | 15 | 15 | 188 | 7.8  |     | 17:21 | 16    | *     | *  | *  | *  | *  | *  | 7: 1 | -5    | *     | *     | *  | *  | *  | * |   |
| 17 | 15   | 14 | 12 | 8  | 4  | 0  | -4 | -6 | -7 | -6 | -4  | 0   | 5  | 10 | 13 | 16 | 17 | 17 | 16 | 16 | 15 | 15 | 16 | 198 | 8.3  |     | 16:42 | 17    | *     | *  | *  | *  | *  | *  | 8: 1 | -7    | 21: 4 | 15    | *  | *  | *  | * |   |
| 18 | 17   | 17 | 16 | 14 | 10 | 4  | -1 | -5 | -8 | -9 | -8  | -4  | 1  | 6  | 11 | 15 | 17 | 17 | 17 | 15 | 15 | 14 | 14 | 200 | 8.3  |     | 0:46  | 17    | 16:48 | 17 | *  | *  | *  | *  | *    | 8:56  | -9    | 21:18 | 14 | *  | *  | * | * |
| 19 | 17   | 19 | 19 | 18 | 15 | 11 | 5  | -2 | -6 | -9 | -10 | -8  | -4 | 2  | 7  | 12 | 16 | 17 | 16 | 14 | 13 | 12 | 12 | 198 | 8.3  |     | 1:58  | 19    | 17: 7 | 17 | *  | *  | *  | *  | *    | 9:47  | #-10  | 21:43 | 12 | *  | *  | * | * |
| 20 | 14   | 17 | 20 | 21 | 20 | 16 | 11 | 4  | -2 | -7 | -9  | -10 | -7 | -3 | 3  | 9  | 13 | 16 | 16 | 14 | 11 | 9  | 9  | 194 | 8.1  | F   | 3: 4  | # 21  | 17:31 | 16 | *  | *  | *  | *  | *    | 10:35 | #-10  | 22:18 | 8  | *  | *  | * | * |
| 21 | 10   | 13 | 17 | 20 | 21 | 20 | 16 | 10 | 3  | -3 | -7  | -9  | -8 | -5 | 0  | 6  | 10 | 14 | 15 | 13 | 10 | 7  | 6  | 184 | 7.7  |     | 4: 5  | # 21  | 17:56 | 15 | *  | *  | *  | *  | *    | 11:19 | -9    | 23: 1 | 5  | *  | *  | * | * |
| 22 | 6    | 8  | 11 | 15 | 18 | 20 | 19 | 15 | 9  | 3  | -2  | -5  | -6 | -5 | -2 | 3  | 8  | 12 | 13 | 13 | 10 | 7  | 4  | 176 | 7.3  |     | 5: 5  | 20    | 18:20 | 14 | *  | *  | *  | *  | *    | 11:59 | -6    | 23:50 | 2  | *  | *  | * | * |
| 23 | 2    | 3  | 5  | 9  | 13 | 16 | 18 | 16 | 13 | 8  | 3   | -1  | -3 | -3 | -1 | 2  | 6  | 10 | 12 | 13 | 11 | 8  | 4  | 165 | 6.9  |     | 6: 4  | 18    | 18:43 | 13 | *  | *  | *  | *  | *    | 12:34 | -3    | *     | *  | *  | *  | * | * |
| 24 | -1   | -1 | 0  | 3  | 7  | 11 | 13 | 15 | 14 | 11 | 7   | 4   | 2  | 1  | 2  | 4  | 7  | 9  | 12 | 12 | 12 | 9  | 5  | 160 | 6.7  |     | 7: 5  | 15    | 19: 3 | 12 | *  | *  | *  | *  | *    | 0:42  | -1    | 13: 1 | 1  | *  | *  | * | * |
| 25 | -1   | -2 | -2 | -1 | 1  | 4  | 8  | 10 | 11 | 11 | 9   | 7   | 5  | 5  | 5  | 6  | 8  | 10 | 12 | 13 | 12 | 11 | 8  | 154 | 6.4  |     | 8:14  | 11    | 19:17 | 13 | *  | *  | *  | *  | *    | 1:39  | -2    | 13:13 | 5  | *  | *  | * | * |
| 26 | 1    | -1 | -3 | -3 | -2 | 0  | 2  | 5  | 7  | 9  | 9   | 9   | 8  | 8  | 8  | 9  | 10 | 11 | 12 | 13 | 13 | 12 | 10 | 154 | 6.4  | L   | 9:50  | 9     | 19:20 | 13 | *  | *  | *  | *  | *    | 2:44  | -3    | 12:54 | 8  | *  | *  | * | * |
| 27 | 4    | 1  | -1 | -2 | -3 | -3 | -1 | 1  | 3  | 5  | 7   | 8   | 9  | 10 | 10 | 11 | 12 | 13 | 14 | 14 | 13 | 13 | 11 | 158 | 6.6  |     | 18:55 | 14    | *     | *  | *  | *  | *  | *  | 4: 6 | -3    | *     | *     | *  | *  | *  | * |   |
| 28 | 7    | 4  | 2  | 0  | -2 | -3 | -3 | -2 | 0  | 2  | 5   | 7   | 9  | 11 | 12 | 13 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 11  | 169  | 7.0 |       | 18:14 | 15    | *  | *  | *  | *  | *  | *    | 5:40  | -3    | *     | *  | *  | *  | * | * |

| N<br>総回数 | Sum<br>推算月合計 | Mean<br>推算月平均 | 推算月最高潮位 |    |    | 推算月最低潮位   |     |    |
|----------|--------------|---------------|---------|----|----|-----------|-----|----|
|          |              |               | 起時      | 潮位 | 回数 | 起時        | 潮位  | 回数 |
| 672      | 5140         | 7.6           | 21日4時5分 | 21 | 2  | 20日10時35分 | -10 | 2  |

# 推算潮位 ( 毎時・満干潮 )

地点名: 忍路

緯度: 43 °13 N

経度: 140 °52 E

潮位表基準面の零点: 平均海面下 17.0(cm)

2019 年 3 月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 満潮 |     |     |   |       |     | 干潮    |    |    |    |    |    |      |      |       |       |       |    |   |   |   |   |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|---|-------|-----|-------|----|----|----|----|----|------|------|-------|-------|-------|----|---|---|---|---|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 日合計 | 日平均 | 月 | 時刻    | 潮位  | 時刻    | 潮位 | 時刻 | 潮位 | 時刻 | 潮位 | 時刻   | 潮位   | 時刻    | 潮位    | 時刻    | 潮位 |   |   |   |   |
| 1  | 10   | 8  | 5  | 3  | 1  | -1 | -3 | -3 | -2 | -1 | 2  | 5  | 8  | 10 | 12 | 13 | 14 | 15 | 15 | 15 | 14 | 14 | 13 | 13 | 180 | 7.5 |   | 17:56 | 15  | *     | *  | *  | *  | *  | *  | *    | 6:56 | -3    | *     | *     | *  | * | * | * |   |
| 2  | 12   | 10 | 9  | 6  | 4  | 1  | -1 | -3 | -3 | -2 | 0  | 3  | 6  | 9  | 12 | 13 | 14 | 14 | 14 | 14 | 14 | 13 | 13 | 13 | 185 | 7.7 |   | 17:1  | 14  | *     | *  | *  | *  | *  | *  | *    | 7:51 | -3    | *     | *     | *  | * | * | * |   |
| 3  | 13   | 12 | 11 | 9  | 7  | 4  | 1  | -2 | -3 | -3 | -2 | 1  | 4  | 8  | 11 | 13 | 14 | 14 | 14 | 13 | 13 | 12 | 12 | 13 | 189 | 7.9 |   | 16:31 | 14  | *     | *  | *  | *  | *  | *  | *    | 8:36 | -4    | 21:25 | 12    | *  | * | * | * |   |
| 4  | 13   | 14 | 13 | 12 | 10 | 6  | 3  | 0  | -3 | -4 | -3 | -1 | 2  | 6  | 10 | 12 | 14 | 14 | 13 | 12 | 11 | 10 | 11 | 11 | 186 | 7.8 |   | 0:56  | 14  | 16:32 | 14 | *  | *  | *  | *  | *    | *    | 9:13  | -4    | 21:10 | 10 | * | * | * | * |
| 5  | 12   | 14 | 14 | 13 | 12 | 9  | 5  | 1  | -2 | -4 | -4 | -3 | 0  | 4  | 8  | 11 | 13 | 13 | 12 | 10 | 9  | 8  | 8  | 9  | 172 | 7.2 |   | 2:0   | 14  | 16:42 | 13 | *  | *  | *  | *  | *    | *    | 9:48  | -4    | 21:25 | 8  | * | * | * | * |
| 6  | 11   | 12 | 14 | 14 | 13 | 11 | 8  | 3  | -1 | -3 | -5 | -4 | -2 | 1  | 6  | 9  | 12 | 12 | 11 | 9  | 7  | 6  | 6  | 6  | 156 | 6.5 |   | 2:50  | 14  | 16:57 | 12 | *  | *  | *  | *  | *    | *    | 10:20 | -5    | 21:51 | 6  | * | * | * | * |
| 7  | 8    | 10 | 13 | 14 | 14 | 13 | 10 | 6  | 1  | -2 | -4 | -5 | -4 | -1 | 3  | 7  | 10 | 12 | 11 | 9  | 6  | 4  | 3  | 3  | 141 | 5.9 | N | 3:35  | 14  | 17:14 | 12 | *  | *  | *  | *  | *    | *    | 10:50 | -5    | 22:21 | 3  | * | * | * | * |
| 8  | 5    | 7  | 10 | 12 | 14 | 13 | 11 | 8  | 3  | -1 | -3 | -4 | -4 | -2 | 2  | 6  | 9  | 11 | 11 | 9  | 6  | 3  | 1  | 1  | 128 | 5.3 |   | 4:18  | 14  | 17:31 | 11 | *  | *  | *  | *  | *    | *    | 11:18 | -4    | 22:54 | 1  | * | * | * | * |
| 9  | 1    | 4  | 7  | 10 | 12 | 13 | 12 | 9  | 6  | 2  | -1 | -3 | -3 | -2 | 1  | 5  | 8  | 10 | 10 | 9  | 6  | 3  | 0  | -1 | 118 | 4.9 |   | 5:0   | 13  | 17:48 | 10 | *  | *  | *  | *  | *    | *    | 11:43 | -3    | 23:27 | -2 | * | * | * | * |
| 10 | -1   | 0  | 3  | 7  | 10 | 11 | 12 | 10 | 8  | 4  | 1  | -1 | -1 | -1 | 1  | 4  | 7  | 9  | 10 | 10 | 7  | 3  | 0  | -2 | 111 | 4.6 |   | 5:44  | 12  | 18:4  | 10 | *  | *  | *  | *  | *    | *    | 12:3  | -1    | *     | *  | * | * | * | * |
| 11 | -3   | -2 | 0  | 3  | 6  | 9  | 11 | 11 | 9  | 6  | 4  | 2  | 1  | 2  | 3  | 5  | 7  | 9  | 11 | 10 | 8  | 5  | 1  | -2 | 116 | 4.8 |   | 6:32  | 11  | 18:17 | 11 | *  | *  | *  | *  | *    | *    | 0:3   | -3    | 12:14 | 1  | * | * | * | * |
| 12 | -4   | -4 | -3 | 0  | 3  | 6  | 8  | 10 | 10 | 8  | 6  | 5  | 4  | 4  | 5  | 7  | 8  | 10 | 11 | 11 | 10 | 7  | 3  | -1 | 124 | 5.2 |   | 7:28  | 10  | 18:26 | 11 | *  | *  | *  | *  | *    | *    | 0:42  | -4    | 12:13 | 4  | * | * | * | * |
| 13 | -3   | -4 | -4 | -3 | 0  | 3  | 5  | 8  | 9  | 9  | 8  | 7  | 7  | 7  | 8  | 9  | 10 | 11 | 12 | 12 | 11 | 9  | 6  | 2  | 139 | 5.8 |   | 8:40  | 9   | 18:29 | 12 | *  | *  | *  | *  | *    | *    | 1:27  | -4    | 12:8  | 7  | * | * | * | * |
| 14 | -1   | -3 | -4 | -4 | -3 | -1 | 2  | 5  | 7  | 8  | 9  | 9  | 9  | 10 | 10 | 11 | 12 | 13 | 13 | 13 | 12 | 11 | 9  | 6  | 153 | 6.4 | U | 18:18 | 13  | *     | *  | *  | *  | *  | *  | 2:21 | -4   | *     | *     | *     | *  | * | * |   |   |
| 15 | 2    | -1 | -3 | -4 | -4 | -3 | -1 | 1  | 4  | 6  | 8  | 10 | 11 | 12 | 12 | 13 | 14 | 14 | 14 | 14 | 13 | 13 | 11 | 9  | 165 | 6.9 |   | 17:27 | 14  | *     | *  | *  | *  | *  | *  | 3:33 | -4   | *     | *     | *     | *  | * | * |   |   |
| 16 | 6    | 3  | 0  | -2 | -4 | -4 | -4 | -3 | 0  | 3  | 6  | 9  | 11 | 12 | 14 | 14 | 15 | 15 | 15 | 14 | 14 | 13 | 13 | 12 | 172 | 7.2 |   | 16:53 | 15  | *     | *  | *  | *  | *  | *  | 5:7  | -4   | *     | *     | *     | *  | * | * |   |   |
| 17 | 10   | 8  | 5  | 1  | -2 | -4 | -5 | -5 | -4 | -2 | 2  | 6  | 9  | 12 | 14 | 15 | 15 | 15 | 15 | 14 | 13 | 13 | 13 | 14 | 172 | 7.2 |   | 16:7  | 15  | *     | *  | *  | *  | *  | *  | 6:35 | -5   | *     | *     | *     | *  | * | * |   |   |
| 18 | 13   | 12 | 10 | 6  | 3  | -1 | -4 | -6 | -6 | -5 | -2 | 2  | 6  | 10 | 13 | 15 | 15 | 14 | 13 | 12 | 12 | 11 | 12 | 13 | 168 | 7.0 |   | 15:48 | 15  | *     | *  | *  | *  | *  | *  | 7:44 | -6   | 20:51 | 11    | *     | *  | * | * |   |   |
| 19 | 14   | 15 | 14 | 12 | 8  | 3  | -1 | -5 | -7 | -7 | -6 | -2 | 2  | 7  | 11 | 14 | 14 | 14 | 12 | 10 | 9  | 8  | 9  | 10 | 158 | 6.6 |   | 0:59  | 15  | 15:58 | 14 | *  | *  | *  | *  | *    | *    | 8:42  | #-7   | 21:5  | 8  | * | * | * | * |
| 20 | 13   | 15 | 17 | 16 | 14 | 9  | 4  | -1 | -5 | -7 | -7 | -5 | -1 | 4  | 9  | 12 | 14 | 13 | 11 | 8  | 6  | 5  | 5  | 6  | 155 | 6.5 |   | 2:14  | 17  | 16:16 | 14 | *  | *  | *  | *  | *    | *    | 9:32  | #-7   | 21:32 | 5  | * | * | * | * |
| 21 | 9    | 13 | 16 | 18 | 17 | 15 | 10 | 4  | -1 | -5 | -6 | -6 | -3 | 1  | 6  | 10 | 13 | 13 | 11 | 8  | 4  | 2  | 1  | 2  | 152 | 6.3 | F | 3:20  | #18 | 16:38 | 13 | *  | *  | *  | *  | *    | *    | 10:17 | -6    | 22:9  | 1  | * | * | * | * |
| 22 | 4    | 8  | 12 | 16 | 18 | 18 | 15 | 9  | 4  | -1 | -3 | -4 | -3 | 0  | 5  | 9  | 12 | 13 | 12 | 8  | 4  | 0  | -2 | -2 | 152 | 6.3 |   | 4:21  | #18 | 17:0  | 13 | *  | *  | *  | *  | *    | *    | 10:58 | -4    | 22:50 | -2 | * | * | * | * |
| 23 | -1   | 2  | 7  | 12 | 16 | 18 | 17 | 14 | 9  | 4  | 1  | -1 | -1 | 1  | 4  | 8  | 11 | 13 | 13 | 10 | 5  | 1  | -3 | -4 | 156 | 6.5 |   | 5:19  | #18 | 17:22 | 13 | *  | *  | *  | *  | *    | *    | 11:33 | -1    | 23:35 | -5 | * | * | * | * |
| 24 | -5   | -3 | 1  | 6  | 11 | 15 | 16 | 16 | 13 | 9  | 5  | 3  | 3  | 3  | 5  | 9  | 11 | 13 | 13 | 12 | 8  | 3  | -1 | -4 | 162 | 6.8 |   | 6:15  | 17  | 17:40 | 14 | *  | *  | *  | *  | *    | *    | 12:3  | 3     | *     | *  | * | * | * | * |
| 25 | -6   | -5 | -3 | 1  | 5  | 10 | 13 | 15 | 14 | 12 | 9  | 7  | 7  | 7  | 8  | 10 | 12 | 14 | 14 | 13 | 10 | 6  | 2  | -2 | 173 | 7.2 |   | 7:14  | 15  | 17:54 | 14 | *  | *  | *  | *  | *    | *    | 0:21  | -6    | 12:21 | 6  | * | * | * | * |
| 26 | -5   | -6 | -5 | -3 | 1  | 5  | 8  | 11 | 13 | 13 | 11 | 10 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 14 | 12 | 9  | 5  | 1  | 179 | 7.5 |   | 8:21  | 13  | 17:58 | 15 | *  | *  | *  | *  | *    | *    | 1:9   | -6    | 12:21 | 10 | * | * | * | * |
| 27 | -2   | -4 | -5 | -4 | -2 | 1  | 4  | 7  | 10 | 11 | 12 | 12 | 12 | 12 | 13 | 14 | 15 | 15 | 15 | 15 | 14 | 11 | 8  | 5  | 189 | 7.9 |   | 17:44 | 15  | *     | *  | *  | *  | *  | *  | 2:2  | -5   | *     | *     | *     | *  | * | * |   |   |
| 28 | 2    | -1 | -2 | -3 | -2 | -1 | 1  | 4  | 7  | 9  | 11 | 12 | 13 | 13 | 14 | 15 | 15 | 16 | 16 | 15 | 14 | 13 | 10 | 8  | 199 | 8.3 | L | 17:16 | 16  | *     | *  | *  | *  | *  | *  | 3:4  | -3   | *     | *     | *     | *  | * | * |   |   |
| 29 | 5    | 3  | 1  | -1 | -1 | -1 | 0  | 1  | 4  | 6  | 9  | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 15 | 15 | 14 | 13 | 12 | 10 | 201 | 8.4 |   | 16:56 | 16  | *     | *  | *  | *  | *  | *  | 4:28 | -1   | *     | *     | *     | *  | * | * |   |   |
| 30 | 8    | 6  | 4  | 2  | 1  | 0  | -1 | 0  | 1  | 4  | 6  | 9  | 11 | 13 | 14 | 15 | 15 | 15 | 14 | 14 | 13 | 12 | 12 | 11 | 199 | 8.3 |   | 16:15 | 15  | *     | *  | *  | *  | *  | *  | 5:57 | -1   | *     | *     | *     | *  | * | * |   |   |
| 31 | 10   | 9  | 7  | 5  | 3  | 1  | 0  | -1 | 0  | 1  | 4  | 7  | 10 | 12 | 13 | 14 | 14 | 14 | 13 | 12 | 12 | 11 | 11 | 11 | 193 | 8.0 |   | 15:27 | 14  | *     | *  | *  | *  | *  | *  | 7:5  | -1   | *     | *     | *     | *  | * | * |   |   |

| N   | Sum  | Mean | 推算月最高潮位  |    |    | 推算月最低潮位  |    |    |
|-----|------|------|----------|----|----|----------|----|----|
|     |      |      | 起時       | 潮位 | 回数 | 起時       | 潮位 | 回数 |
| 744 | 5043 | 6.8  | 23日5時19分 | 18 | 3  | 20日9時32分 | -7 | 2  |

# 推算潮位（毎時・満干潮）

地点名：忍路

緯度：43 °13 N

経度：140 °52 E

潮位表基準面の零点：平均海面下 17.0(cm)

2019 年 4 月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 満潮  |      |   |       |      |       | 干潮   |    |    |      |    |       |      |       |    |    |    |   |   |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|---|-------|------|-------|------|----|----|------|----|-------|------|-------|----|----|----|---|---|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 日合計 | 日平均  | 月 | 時刻    | 潮位   | 時刻    | 潮位   | 時刻 | 潮位 | 時刻   | 潮位 | 時刻    | 潮位   | 時刻    | 潮位 | 時刻 | 潮位 |   |   |
| 1  | 11   | 10 | 9  | 8  | 6  | 3  | 1  | 0  | -1 | 0  | 2  | 4  | 8  | 10 | 12 | 13 | 13 | 12 | 11 | 10 | 9  | 9  | 9  | 10 | 179 | 7.5  |   | 15:22 | 13   | *     | *    | *  | *  | *    | *  | 7:57  | -1   | 21: 4 | 9  | *  | *  | * | * |
| 2  | 11   | 11 | 11 | 10 | 8  | 5  | 3  | 0  | -1 | -1 | 0  | 2  | 6  | 9  | 11 | 12 | 12 | 11 | 10 | 8  | 7  | 7  | 7  | 8  | 167 | 7.0  |   | 1: 7  | 11   | 15:29 | 13   | *  | *  | *    | *  | 8:40  | -1   | 20:58 | 7  | *  | *  | * | * |
| 3  | 10   | 11 | 12 | 11 | 10 | 7  | 4  | 1  | -1 | -2 | -1 | 0  | 4  | 7  | 10 | 12 | 12 | 11 | 9  | 6  | 5  | 4  | 4  | 6  | 152 | 6.3  |   | 2:11  | 12   | 15:42 | 12   | *  | *  | *    | *  | 9:17  | -2   | 21:12 | 4  | *  | *  | * | * |
| 4  | 8    | 10 | 12 | 12 | 12 | 10 | 7  | 3  | 1  | -1 | -2 | -1 | 2  | 5  | 9  | 11 | 11 | 11 | 8  | 5  | 3  | 1  | 1  | 2  | 140 | 5.8  |   | 3: 2  | 12   | 15:56 | 11   | *  | *  | *    | *  | 9:50  | -2   | 21:36 | 1  | *  | *  | * | * |
| 5  | 5    | 8  | 11 | 12 | 13 | 12 | 9  | 6  | 3  | 0  | -1 | -1 | 1  | 4  | 8  | 10 | 11 | 11 | 9  | 5  | 2  | 0  | -1 | -1 | 136 | 5.7  | N | 3:47  | 13   | 16:12 | 11   | *  | *  | *    | *  | 10:21 | -1   | 22: 3 | -1 | *  | *  | * | * |
| 6  | 2    | 5  | 9  | 12 | 13 | 13 | 11 | 8  | 5  | 3  | 1  | 1  | 2  | 4  | 7  | 10 | 12 | 12 | 10 | 6  | 2  | -1 | -3 | -3 | 141 | 5.9  |   | 4:30  | 13   | 16:28 | 12   | *  | *  | *    | *  | 10:49 | 1    | 22:33 | -3 | *  | *  | * | * |
| 7  | -1   | 2  | 6  | 10 | 13 | 14 | 13 | 11 | 8  | 5  | 4  | 3  | 3  | 5  | 8  | 10 | 12 | 12 | 11 | 8  | 3  | -1 | -4 | -5 | 150 | 6.3  |   | 5:14  | 14   | 16:44 | 13   | *  | *  | *    | *  | 11:13 | 3    | 23: 6 | -5 | *  | *  | * | * |
| 8  | -4   | -1 | 3  | 7  | 11 | 14 | 14 | 14 | 11 | 8  | 7  | 6  | 6  | 7  | 9  | 11 | 13 | 14 | 13 | 10 | 6  | 1  | -3 | -5 | 172 | 7.2  |   | 5:59  | 15   | 16:58 | 14   | *  | *  | *    | *  | 11:33 | 6    | 23:41 | -5 | *  | *  | * | * |
| 9  | -5   | -4 | -1 | 4  | 8  | 12 | 14 | 15 | 14 | 11 | 10 | 9  | 9  | 9  | 10 | 12 | 14 | 15 | 14 | 12 | 8  | 4  | -1 | -4 | 189 | 7.9  |   | 6:48  | 15   | 17:10 | 15   | *  | *  | *    | *  | 11:41 | 9    | *     | *  | *  | *  | * | * |
| 10 | -5   | -5 | -3 | 0  | 5  | 9  | 12 | 14 | 15 | 14 | 12 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 16 | 14 | 11 | 7  | 2  | -2 | 208 | 8.7  |   | 7:45  | 15   | 17:19 | 16   | *  | *  | *    | *  | 0:20  | # -6 | 11:38 | 11 | *  | *  | * | * |
| 11 | -4   | -5 | -4 | -2 | 1  | 5  | 9  | 12 | 14 | 14 | 14 | 14 | 14 | 14 | 15 | 15 | 16 | 17 | 16 | 16 | 14 | 10 | 6  | 2  | 223 | 9.3  |   | 9: 0  | 14   | 17:20 | 17   | *  | *  | *    | *  | 1: 5  | -5   | 11:32 | 14 | *  | *  | * | * |
| 12 | -1   | -3 | -4 | -3 | -1 | 2  | 5  | 8  | 11 | 13 | 14 | 15 | 15 | 16 | 16 | 17 | 17 | 17 | 17 | 16 | 15 | 13 | 10 | 6  | 231 | 9.6  |   | 16:48 | 17   | *     | *    | *  | *  | 1:59 | -4 | *     | *    | *     | *  | *  | *  |   |   |
| 13 | 3    | 0  | -2 | -3 | -2 | -1 | 1  | 4  | 8  | 11 | 13 | 14 | 15 | 16 | 17 | 17 | 17 | 17 | 17 | 16 | 15 | 14 | 13 | 10 | 230 | 9.6  | U | 15:57 | 17   | *     | *    | *  | *  | 3: 8 | -3 | *     | *    | *     | *  | *  | *  |   |   |
| 14 | 7    | 4  | 1  | -1 | -2 | -2 | -1 | 1  | 4  | 7  | 10 | 13 | 15 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | 14 | 14 | 14 | 13 | 221 | 9.2  |   | 15: 8 | 16   | *     | *    | *  | *  | 4:38 | -2 | *     | *    | *     | *  | *  | *  |   |   |
| 15 | 11   | 9  | 6  | 3  | 0  | -1 | -2 | -1 | 0  | 3  | 6  | 10 | 13 | 15 | 16 | 16 | 15 | 14 | 13 | 12 | 12 | 12 | 13 | 14 | 209 | 8.7  |   | 14:30 | 16   | 23:44 | 14   | *  | *  | *    | *  | 6: 8  | -2   | 20:10 | 12 | *  | *  | * | * |
| 16 | 14   | 13 | 11 | 8  | 5  | 1  | -1 | -2 | -2 | 0  | 3  | 7  | 10 | 13 | 15 | 15 | 14 | 12 | 11 | 9  | 9  | 9  | 10 | 12 | 196 | 8.2  |   | 14:36 | 15   | *     | *    | *  | *  | 7:20 | -2 | 20:20 | 9    | *     | *  | *  | *  |   |   |
| 17 | 14   | 15 | 15 | 13 | 10 | 6  | 2  | 0  | -1 | -1 | 1  | 4  | 8  | 11 | 14 | 14 | 13 | 11 | 8  | 6  | 5  | 5  | 6  | 8  | 187 | 7.8  |   | 1:18  | 15   | 14:53 | 14   | *  | *  | *    | *  | 8:18  | -1   | 20:44 | 5  | *  | *  | * | * |
| 18 | 12   | 15 | 17 | 17 | 15 | 11 | 7  | 3  | 1  | 0  | 1  | 3  | 6  | 10 | 13 | 14 | 14 | 11 | 8  | 4  | 2  | 1  | 1  | 3  | 189 | 7.9  |   | 2:31  | 17   | 15:14 | 14   | *  | *  | *    | *  | 9: 8  | 0    | 21:17 | 1  | *  | *  | * | * |
| 19 | 7    | 12 | 16 | 18 | 18 | 16 | 12 | 8  | 5  | 3  | 2  | 3  | 6  | 10 | 13 | 15 | 15 | 13 | 9  | 5  | 1  | -2 | -2 | -1 | 202 | 8.4  | F | 3:35  | 18   | 15:36 | 15   | *  | *  | *    | *  | 9:51  | 2    | 21:55 | -2 | *  | *  | * | * |
| 20 | 2    | 7  | 12 | 16 | 19 | 19 | 17 | 13 | 9  | 7  | 5  | 5  | 7  | 10 | 13 | 15 | 16 | 15 | 12 | 7  | 2  | -2 | -4 | -4 | 218 | 9.1  |   | 4:34  | 19   | 15:57 | 16   | *  | *  | *    | *  | 10:28 | 5    | 22:35 | -5 | *  | *  | * | * |
| 21 | -2   | 2  | 7  | 13 | 17 | 19 | 19 | 17 | 14 | 11 | 9  | 9  | 9  | 11 | 14 | 16 | 17 | 17 | 15 | 10 | 5  | 0  | -4 | -5 | 240 | 10.0 |   | 5:29  | # 20 | 16:18 | 17   | *  | *  | *    | *  | 11: 0 | 9    | 23:17 | -5 | *  | *  | * | * |
| 22 | -5   | -2 | 3  | 8  | 13 | 17 | 19 | 19 | 17 | 15 | 13 | 12 | 12 | 13 | 15 | 17 | 18 | 19 | 17 | 14 | 9  | 3  | -1 | -4 | 261 | 10.9 |   | 6:23  | # 20 | 16:35 | 19   | *  | *  | *    | *  | 11:23 | 12   | 23:59 | -5 | *  | *  | * | * |
| 23 | -5   | -4 | -1 | 4  | 9  | 14 | 17 | 19 | 19 | 17 | 16 | 15 | 15 | 15 | 17 | 18 | 19 | 20 | 19 | 16 | 12 | 7  | 3  | -1 | 280 | 11.7 |   | 7:19  | 19   | 16:46 | # 20 | *  | *  | *    | *  | 11:37 | 15   | *     | *  | *  | *  | * | * |
| 24 | -3   | -3 | -2 | 1  | 5  | 10 | 14 | 17 | 18 | 18 | 18 | 17 | 17 | 17 | 18 | 19 | 20 | 20 | 20 | 18 | 15 | 11 | 7  | 3  | 295 | 12.3 |   | 8:23  | 18   | 16:50 | # 20 | *  | *  | *    | *  | 0:42  | -3   | 11:40 | 17 | *  | *  | * | * |
| 25 | 0    | -1 | -1 | 0  | 3  | 7  | 11 | 14 | 16 | 18 | 18 | 18 | 18 | 18 | 19 | 20 | 20 | 20 | 20 | 18 | 16 | 13 | 10 | 7  | 302 | 12.6 |   | 16:41 | # 20 | *     | *    | *  | *  | 1:27 | -1 | *     | *    | *     | *  | *  | *  |   |   |
| 26 | 4    | 2  | 1  | 1  | 2  | 5  | 8  | 11 | 14 | 16 | 17 | 18 | 18 | 18 | 19 | 19 | 20 | 20 | 19 | 18 | 17 | 15 | 12 | 10 | 304 | 12.7 |   | 16:24 | # 20 | *     | *    | *  | *  | 2:17 | 1  | *     | *    | *     | *  | *  | *  |   |   |
| 27 | 7    | 5  | 3  | 3  | 3  | 4  | 6  | 8  | 11 | 13 | 15 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | 16 | 15 | 13 | 11 | 292 | 12.2 | L | 15:41 | 18   | *     | *    | *  | *  | 3:18 | 3  | *     | *    | *     | *  | *  | *  |   |   |
| 28 | 10   | 8  | 6  | 5  | 4  | 4  | 5  | 6  | 8  | 11 | 13 | 15 | 16 | 17 | 17 | 17 | 17 | 16 | 16 | 15 | 14 | 14 | 13 | 12 | 279 | 11.6 |   | 13:50 | 17   | *     | *    | *  | *  | 4:38 | 4  | *     | *    | *     | *  | *  | *  |   |   |
| 29 | 11   | 10 | 8  | 7  | 5  | 5  | 4  | 5  | 6  | 8  | 11 | 13 | 15 | 16 | 16 | 16 | 15 | 14 | 13 | 12 | 12 | 12 | 12 | 12 | 258 | 10.8 |   | 13:50 | 16   | *     | *    | *  | *  | 5:57 | 4  | *     | *    | *     | *  | *  | *  |   |   |
| 30 | 12   | 11 | 10 | 9  | 7  | 6  | 5  | 4  | 5  | 6  | 8  | 11 | 13 | 15 | 15 | 15 | 14 | 12 | 11 | 10 | 9  | 9  | 10 | 11 | 238 | 9.9  |   | 14: 0 | 15   | *     | *    | *  | *  | 6:59 | 4  | 20:21 | 9    | *     | *  | *  | *  |   |   |

| N   | Sum  | Mean | 推算月最高潮位     |    |    | 推算月最低潮位    |    |    |
|-----|------|------|-------------|----|----|------------|----|----|
|     |      |      | 起時          | 潮位 | 回数 | 起時         | 潮位 | 回数 |
| 720 | 6489 | 9.0  | 26日 16時 24分 | 20 | 6  | 10日 0時 20分 | -6 | 1  |

# 推算潮位 (毎時・満干潮)

地点名: 忍路

緯度: 43 °13 N

経度: 140 °52 E

潮位表基準面の零点: 平均海面下 17.0(cm)

2019 年 5 月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 満潮  |      |      |       | 干潮    |       |       |      |    |      |      |      |       |       |       |     |    |    |   |   |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|------|-------|-------|-------|-------|------|----|------|------|------|-------|-------|-------|-----|----|----|---|---|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23  | 日合計  | 日平均  | 月     | 時刻    | 潮位    | 時刻    | 潮位   | 時刻 | 潮位   | 時刻   | 潮位   | 時刻    | 潮位    | 時刻    | 潮位  | 時刻 | 潮位 |   |   |
| 1  | 12   | 12 | 12 | 11 | 9  | 7  | 6  | 5  | 4  | 5  | 7  | 9  | 12 | 14 | 15 | 14 | 13 | 11 | 9  | 7  | 6  | 6  | 7  | 9   | 222  | 9.3  |       | 1: 8  | 12    | 14:14 | 15   | *  | *    | *    | *    | 7:49  | 4     | 20:27 | 6   | *  | *  | * | * |
| 2  | 11   | 12 | 13 | 13 | 11 | 10 | 8  | 6  | 5  | 5  | 6  | 8  | 11 | 13 | 14 | 14 | 13 | 11 | 8  | 5  | 4  | 4  | 4  | 6   | 215  | 9.0  |       | 2:14  | 13    | 14:29 | 15   | *  | *    | *    | *    | 8:31  | 5     | 20:46 | 3   | *  | *  | * | * |
| 3  | 9    | 12 | 13 | 14 | 14 | 12 | 10 | 8  | 7  | 6  | 6  | 8  | 10 | 13 | 15 | 15 | 14 | 11 | 8  | 4  | 2  | 1  | 2  | 4   | 218  | 9.1  |       | 3: 7  | 14    | 14:46 | 15   | *  | *    | *    | *    | 9: 8  | 6     | 21:10 | 1   | *  | *  | * | * |
| 4  | 7    | 10 | 13 | 15 | 16 | 15 | 13 | 11 | 9  | 8  | 8  | 9  | 11 | 13 | 15 | 16 | 15 | 13 | 9  | 5  | 1  | -1 | -1 | 1   | 231  | 9.6  |       | 3:53  | 16    | 15: 3 | 16   | *  | *    | *    | *    | 9:42  | 8     | 21:39 | -1  | *  | *  | * | * |
| 5  | 4    | 8  | 12 | 16 | 17 | 18 | 16 | 14 | 12 | 11 | 10 | 10 | 12 | 14 | 16 | 17 | 17 | 15 | 11 | 7  | 2  | -1 | -2 | -2  | 254  | 10.6 | N     | 4:38  | 18    | 15:21 | 18   | *  | *    | *    | *    | 10:13 | 10    | 22:11 | -2  | *  | *  | * | * |
| 6  | 1    | 5  | 10 | 15 | 18 | 20 | 19 | 18 | 15 | 14 | 13 | 13 | 14 | 15 | 17 | 19 | 19 | 18 | 15 | 10 | 4  | 0  | -2 | -3  | 287  | 12.0 |       | 5:22  | 20    | 15:40 | 19   | *  | *    | *    | *    | 10:40 | 13    | 22:46 | #-3 | *  | *  | * | * |
| 7  | -1   | 2  | 7  | 12 | 17 | 20 | 21 | 21 | 19 | 17 | 16 | 16 | 16 | 17 | 19 | 20 | 21 | 20 | 18 | 14 | 8  | 3  | -1 | -3  | 319  | 13.3 |       | 6: 9  | 21    | 16: 0 | 21   | *  | *    | *    | *    | 10:59 | 16    | 23:25 | #-3 | *  | *  | * | * |
| 8  | -3   | -1 | 4  | 9  | 14 | 18 | 21 | 22 | 21 | 20 | 19 | 18 | 19 | 19 | 20 | 22 | 22 | 22 | 21 | 17 | 12 | 7  | 2  | -1  | 344  | 14.3 |       | 7: 0  | 22    | 16:21 | 23   | *  | *    | *    | *    | 11: 7 | 18    | *     | *   | *  | *  |   |   |
| 9  | -3   | -2 | 1  | 5  | 10 | 15 | 19 | 21 | 22 | 22 | 21 | 20 | 20 | 21 | 21 | 22 | 23 | 23 | 22 | 20 | 16 | 11 | 6  | 2   | 358  | 14.9 |       | 7:58  | 22    | 16:42 | 23   | *  | *    | *    | *    | 0: 9  | #-3   | 11:12 | 20  | *  | *  | * | * |
| 10 | -1   | -1 | -1 | 2  | 6  | 11 | 15 | 19 | 21 | 22 | 22 | 21 | 21 | 22 | 22 | 23 | 23 | 23 | 23 | 22 | 19 | 15 | 11 | 6   | 366  | 15.3 |       | 16:59 | 23    | *     | *    | *  | *    | 0:57 | -1   | *     | *     | *     | *   |    |    |   |   |
| 11 | 3    | 1  | 0  | 1  | 3  | 7  | 11 | 15 | 18 | 20 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 22 | 21 | 20 | 18 | 15 | 11 | 359 | 15.0 |      | 16:17 | 22    | *     | *     | *    | *  | 1:53 | 0    | *    | *     | *     | *     |     |    |    |   |   |
| 12 | 7    | 4  | 2  | 2  | 2  | 4  | 7  | 10 | 14 | 17 | 19 | 20 | 21 | 21 | 20 | 20 | 20 | 20 | 19 | 19 | 19 | 17 | 15 | 340 | 14.2 | U    | 12:51 | 21    | *     | *     | *    | *  | 2:59 | 2    | *    | *     | *     | *     |     |    |    |   |   |
| 13 | 12   | 9  | 6  | 4  | 3  | 4  | 5  | 7  | 10 | 13 | 16 | 18 | 19 | 20 | 19 | 19 | 18 | 17 | 16 | 16 | 16 | 17 | 17 | 318 | 13.3 |      | 12:45 | 20    | 22: 3 | 17    | *    | *  | *    | *    | 4:16 | 3     | 18:56 | 16    | *   | *  | *  | * |   |
| 14 | 16   | 13 | 11 | 8  | 6  | 5  | 5  | 6  | 8  | 11 | 14 | 16 | 18 | 19 | 18 | 17 | 16 | 14 | 13 | 12 | 13 | 14 | 15 | 17  | 305  | 12.7 |       | 13: 2 | 19    | *     | *    | *  | *    | 5:36 | 5    | 19:19 | 12    | *     | *   | *  | *  |   |   |
| 15 | 17   | 17 | 15 | 13 | 10 | 8  | 7  | 6  | 7  | 9  | 12 | 15 | 17 | 18 | 18 | 17 | 14 | 12 | 10 | 9  | 8  | 9  | 11 | 14  | 293  | 12.2 |       | 0: 8  | 17    | 13:22 | 18   | *  | *    | *    | *    | 6:45  | 6     | 19:50 | 8   | *  | *  | * | * |
| 16 | 17   | 18 | 18 | 17 | 15 | 12 | 10 | 9  | 8  | 9  | 11 | 14 | 17 | 18 | 19 | 17 | 15 | 11 | 8  | 6  | 5  | 5  | 7  | 10  | 296  | 12.3 |       | 1:35  | 18    | 13:44 | 19   | *  | *    | *    | *    | 7:43  | 8     | 20:25 | 5   | *  | *  | * | * |
| 17 | 14   | 17 | 20 | 20 | 19 | 17 | 14 | 12 | 11 | 11 | 12 | 14 | 17 | 19 | 20 | 19 | 17 | 13 | 9  | 5  | 3  | 2  | 2  | 5   | 312  | 13.0 |       | 2:48  | 20    | 14: 7 | 20   | *  | *    | *    | *    | 8:32  | 11    | 21: 3 | 2   | *  | *  | * | * |
| 18 | 10   | 14 | 19 | 21 | 22 | 21 | 18 | 16 | 14 | 14 | 14 | 15 | 18 | 20 | 21 | 21 | 20 | 16 | 11 | 6  | 2  | 0  | 0  | 2   | 335  | 14.0 |       | 3:51  | 22    | 14:31 | 22   | *  | *    | *    | *    | 9:13  | 14    | 21:42 | 0   | *  | *  | * | * |
| 19 | 5    | 11 | 16 | 20 | 23 | 24 | 22 | 20 | 18 | 17 | 17 | 17 | 19 | 21 | 23 | 23 | 22 | 20 | 15 | 10 | 5  | 1  | -1 | 0   | 368  | 15.3 | F     | 4:47  | 24    | 14:55 | 23   | *  | *    | *    | *    | 9:46  | 17    | 22:21 | -1  | *  | *  | * | * |
| 20 | 2    | 7  | 12 | 18 | 22 | 25 | 25 | 24 | 22 | 20 | 20 | 20 | 21 | 22 | 24 | 25 | 25 | 23 | 19 | 14 | 8  | 4  | 1  | 0   | 403  | 16.8 |       | 5:39  | 25    | 15:19 | 25   | *  | *    | *    | *    | 10:12 | 20    | 23: 1 | 0   | *  | *  | * | * |
| 21 | 1    | 4  | 9  | 15 | 20 | 24 | 26 | 26 | 24 | 23 | 22 | 22 | 23 | 24 | 25 | 26 | 26 | 25 | 23 | 18 | 13 | 8  | 4  | 2   | 433  | 18.0 |       | 6:28  | 26    | 15:41 | # 27 | *  | *    | *    | *    | 10:33 | 22    | 23:41 | 1   | *  | *  | * | * |
| 22 | 1    | 3  | 7  | 11 | 17 | 21 | 24 | 26 | 26 | 25 | 24 | 23 | 24 | 25 | 26 | 27 | 27 | 27 | 25 | 22 | 17 | 12 | 8  | 4   | 452  | 18.8 |       | 7:18  | 26    | 16: 0 | # 27 | *  | *    | *    | *    | 10:54 | 23    | *     | *   | *  | *  |   |   |
| 23 | 3    | 3  | 5  | 9  | 14 | 18 | 22 | 25 | 26 | 25 | 25 | 24 | 24 | 25 | 26 | 27 | 27 | 27 | 26 | 23 | 20 | 16 | 11 | 8   | 459  | 19.1 |       | 8:11  | 26    | 16:17 | # 27 | *  | *    | *    | *    | 0:21  | 3     | 11:18 | 24  | *  | *  | * | * |
| 24 | 6    | 5  | 6  | 8  | 11 | 15 | 19 | 22 | 24 | 25 | 25 | 24 | 24 | 24 | 25 | 26 | 26 | 26 | 25 | 24 | 21 | 18 | 14 | 11  | 454  | 18.9 |       | 9:13  | 25    | 16:29 | 26   | *  | *    | *    | *    | 1: 2  | 5     | 11:51 | 24  | *  | *  | * | * |
| 25 | 8    | 7  | 7  | 8  | 10 | 13 | 16 | 19 | 22 | 23 | 24 | 24 | 24 | 23 | 24 | 24 | 24 | 24 | 24 | 23 | 21 | 19 | 16 | 14  | 441  | 18.4 |       | 16:33 | 24    | *     | *    | *  | *    | 1:45 | 7    | *     | *     | *     | *   |    |    |   |   |
| 26 | 11   | 9  | 8  | 8  | 9  | 11 | 13 | 16 | 19 | 21 | 22 | 23 | 23 | 22 | 22 | 22 | 22 | 21 | 21 | 20 | 19 | 17 | 15 | 416 | 17.3 |      | 11:23 | 23    | *     | *     | *    | *  | 2:33 | 8    | *    | *     | *     | *     |     |    |    |   |   |
| 27 | 13   | 11 | 10 | 9  | 9  | 10 | 12 | 14 | 16 | 18 | 20 | 21 | 21 | 21 | 20 | 20 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 16  | 387  | 16.1 | L     | 11:54 | 21    | *     | *    | *  | *    | 3:27 | 9    | *     | *     | *     | *   |    |    |   |   |
| 28 | 14   | 13 | 12 | 11 | 10 | 10 | 11 | 12 | 14 | 16 | 18 | 20 | 20 | 20 | 19 | 18 | 17 | 16 | 15 | 15 | 15 | 15 | 15 | 361 | 15.0 |      | 12:16 | 20    | *     | *     | *    | *  | 4:31 | 10   | *    | *     | *     | *     |     |    |    |   |   |
| 29 | 15   | 14 | 13 | 12 | 12 | 11 | 11 | 12 | 13 | 15 | 17 | 19 | 20 | 20 | 19 | 17 | 16 | 14 | 13 | 12 | 12 | 13 | 14 | 15  | 349  | 14.5 |       | 12:35 | 20    | *     | *    | *  | *    | 5:37 | 11   | 19:27 | 12    | *     | *   | *  | *  |   |   |
| 30 | 15   | 16 | 15 | 15 | 14 | 13 | 12 | 12 | 13 | 14 | 16 | 18 | 19 | 20 | 19 | 17 | 15 | 13 | 11 | 9  | 9  | 10 | 11 | 13  | 339  | 14.1 |       | 0:54  | 16    | 12:54 | 20   | *  | *    | *    | *    | 6:36  | 12    | 19:46 | 9   | *  | *  | * | * |
| 31 | 15   | 17 | 17 | 17 | 16 | 15 | 14 | 14 | 14 | 15 | 16 | 18 | 20 | 21 | 20 | 18 | 16 | 13 | 10 | 8  | 7  | 7  | 9  | 11  | 348  | 14.5 |       | 2:13  | 17    | 13:13 | 21   | *  | *    | *    | *    | 7:28  | 14    | 20:12 | 7   | *  | *  | * | * |

| N<br>総回数 | Sum<br>推算月合計 | Mean<br>推算月平均 | 推算月最高潮位        |    |    | 推算月最低潮位     |    |    |
|----------|--------------|---------------|----------------|----|----|-------------|----|----|
|          |              |               | 起時             | 潮位 | 回数 | 起時          | 潮位 | 回数 |
| 744      | 10582        | 14.2          | 23 日 16 時 17 分 | 27 | 3  | 9 日 0 時 9 分 | -3 | 3  |

# 推算潮位（毎時・満干潮）

地点名：忍路

緯度：43 °13 N

経度：140 °52 E

潮位表基準面の零点：平均海面下 17.0(cm)

2019 年 6 月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 満潮   |      |       |       |       |       |     |    | 干潮    |      |      |       |       |       |    |    |    |    |    |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|------|-------|-------|-------|-------|-----|----|-------|------|------|-------|-------|-------|----|----|----|----|----|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23  | 日合計  | 日平均  | 月     | 時刻    | 潮位    | 時刻    | 潮位  | 時刻 | 潮位    | 時刻   | 潮位   | 時刻    | 潮位    | 時刻    | 潮位 | 時刻 | 潮位 | 時刻 | 潮位 |
| 1  | 14   | 17 | 19 | 19 | 19 | 18 | 17 | 16 | 16 | 16 | 17 | 19 | 21 | 22 | 22 | 20 | 18 | 14 | 10 | 7  | 5  | 5  | 6  | 9   | 366  | 15.3 |       | 3:12  | 19    | 13:34 | 22  | *  | *     | *    | *    | 8:13  | 16    | 20:42 | 5  | *  | *  | *  | *  |
| 2  | 13   | 17 | 20 | 22 | 22 | 22 | 21 | 20 | 19 | 19 | 19 | 20 | 22 | 23 | 24 | 23 | 21 | 17 | 12 | 8  | 5  | 3  | 4  | 6   | 402  | 16.8 |       | 4:1   | 22    | 13:56 | 24  | *  | *     | *    | *    | 8:53  | 19    | 21:15 | 3  | *  | *  | *  | *  |
| 3  | 10   | 15 | 19 | 23 | 25 | 25 | 24 | 23 | 22 | 21 | 21 | 22 | 23 | 25 | 26 | 26 | 24 | 21 | 16 | 10 | 6  | 3  | 2  | 4   | 436  | 18.2 | N     | 4:46  | 25    | 14:22 | 26  | *  | *     | *    | *    | 9:27  | 21    | 21:52 | #2 | *  | *  | *  | *  |
| 4  | 7    | 12 | 17 | 22 | 26 | 27 | 27 | 26 | 25 | 24 | 24 | 24 | 25 | 27 | 28 | 29 | 28 | 25 | 20 | 14 | 9  | 4  | 2  | 2   | 474  | 19.8 |       | 5:31  | 28    | 14:52 | 29  | *  | *     | *    | *    | 9:55  | 24    | 22:33 | #2 | *  | *  | *  | *  |
| 5  | 4    | 8  | 14 | 20 | 24 | 28 | 29 | 29 | 28 | 27 | 26 | 26 | 27 | 28 | 29 | 30 | 30 | 29 | 25 | 19 | 13 | 8  | 4  | 2   | 507  | 21.1 |       | 6:17  | 29    | 15:25 | 31  | *  | *     | *    | *    | 10:15 | 26    | 23:18 | #2 | *  | *  | *  | *  |
| 6  | 2    | 5  | 10 | 16 | 21 | 26 | 29 | 30 | 29 | 28 | 28 | 28 | 28 | 28 | 30 | 31 | 32 | 31 | 29 | 24 | 19 | 12 | 7  | 4   | 527  | 22.0 |       | 7:6   | 30    | 16:3  | 32  | *  | *     | *    | *    | 10:35 | 27    | *     | *  | *  | *  | *  | *  |
| 7  | 3    | 4  | 6  | 11 | 17 | 22 | 26 | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 29 | 30 | 31 | 31 | 30 | 28 | 23 | 18 | 12 | 8   | 528  | 22.0 |       | 7:59  | 29    | 16:46 | 31  | *  | *     | *    | *    | 0:7   | 3     | 11:4  | 28 | *  | *  | *  | *  |
| 8  | 5    | 4  | 5  | 8  | 12 | 17 | 22 | 26 | 28 | 28 | 28 | 27 | 27 | 27 | 28 | 28 | 29 | 30 | 30 | 29 | 26 | 22 | 17 | 12  | 515  | 21.5 |       | 8:56  | 28    | 17:37 | 30  | *  | *     | *    | *    | 0:58  | 4     | 11:53 | 27 | *  | *  | *  | *  |
| 9  | 9    | 6  | 6  | 7  | 9  | 13 | 18 | 22 | 25 | 26 | 27 | 26 | 26 | 26 | 25 | 26 | 26 | 26 | 27 | 27 | 26 | 25 | 21 | 17  | 492  | 20.5 |       | 9:54  | 27    | 18:47 | 27  | *  | *     | *    | *    | 1:53  | 6     | 14:20 | 25 | *  | *  | *  | *  |
| 10 | 13   | 10 | 8  | 8  | 9  | 11 | 14 | 18 | 21 | 24 | 25 | 25 | 24 | 23 | 23 | 22 | 22 | 23 | 24 | 24 | 24 | 23 | 21 | 464 | 19.3 | U    | 10:41 | 25    | 20:29 | 24    | *   | *  | *     | *    | 2:50 | 8     | 16:31 | 22    | *  | *  | *  | *  |    |
| 11 | 18   | 15 | 12 | 11 | 11 | 11 | 13 | 16 | 19 | 21 | 23 | 24 | 24 | 23 | 22 | 20 | 19 | 18 | 18 | 19 | 20 | 21 | 22 | 22  | 442  | 18.4 |       | 11:16 | 24    | 22:33 | 22  | *  | *     | *    | *    | 3:50  | 11    | 17:46 | 18 | *  | *  | *  | *  |
| 12 | 21   | 19 | 17 | 15 | 14 | 13 | 14 | 15 | 17 | 20 | 22 | 24 | 24 | 23 | 21 | 19 | 17 | 15 | 14 | 14 | 15 | 17 | 19 | 21  | 430  | 17.9 |       | 11:45 | 24    | *     | *   | *  | *     | 4:53 | 13   | 18:41 | 14    | *     | *  | *  | *  |    |    |
| 13 | 22   | 22 | 21 | 19 | 18 | 17 | 16 | 17 | 18 | 20 | 22 | 24 | 24 | 24 | 22 | 20 | 17 | 14 | 12 | 11 | 11 | 12 | 15 | 18  | 436  | 18.2 |       | 0:23  | 22    | 12:12 | 24  | *  | *     | *    | *    | 5:54  | 16    | 19:28 | 10 | *  | *  | *  | *  |
| 14 | 21   | 23 | 23 | 23 | 22 | 20 | 20 | 19 | 20 | 21 | 22 | 24 | 25 | 26 | 24 | 22 | 18 | 14 | 11 | 9  | 8  | 8  | 11 | 14  | 448  | 18.7 |       | 1:55  | 23    | 12:38 | 26  | *  | *     | *    | *    | 6:50  | 19    | 20:11 | 8  | *  | *  | *  | *  |
| 15 | 18   | 22 | 24 | 25 | 25 | 24 | 23 | 22 | 22 | 23 | 24 | 25 | 27 | 28 | 27 | 25 | 21 | 17 | 13 | 9  | 7  | 6  | 7  | 11  | 475  | 19.8 |       | 3:13  | 25    | 13:6  | 28  | *  | *     | *    | *    | 7:36  | 22    | 20:52 | 6  | *  | *  | *  | *  |
| 16 | 15   | 20 | 24 | 26 | 28 | 27 | 26 | 25 | 25 | 25 | 26 | 27 | 28 | 29 | 30 | 28 | 25 | 21 | 16 | 12 | 8  | 6  | 6  | 8   | 511  | 21.3 |       | 4:15  | 28    | 13:35 | 30  | *  | *     | *    | *    | 8:12  | 25    | 21:32 | 6  | *  | *  | *  | *  |
| 17 | 12   | 17 | 22 | 26 | 29 | 30 | 29 | 28 | 27 | 27 | 28 | 28 | 30 | 31 | 32 | 31 | 29 | 26 | 21 | 15 | 11 | 8  | 6  | 7   | 550  | 22.9 | F     | 5:5   | 30    | 14:7  | 32  | *  | *     | *    | *    | 8:44  | 27    | 22:11 | 6  | *  | *  | *  | *  |
| 18 | 10   | 14 | 20 | 25 | 28 | 31 | 31 | 30 | 29 | 29 | 29 | 30 | 31 | 32 | 33 | 33 | 32 | 29 | 25 | 20 | 15 | 10 | 8  | 7   | 581  | 24.2 |       | 5:47  | 31    | 14:39 | 33  | *  | *     | *    | *    | 9:15  | 29    | 22:50 | 7  | *  | *  | *  | *  |
| 19 | 9    | 12 | 17 | 22 | 27 | 30 | 32 | 32 | 31 | 30 | 30 | 30 | 31 | 32 | 33 | 34 | 34 | 32 | 29 | 24 | 19 | 14 | 10 | 9   | 603  | 25.1 |       | 6:26  | 32    | 15:12 | #34 | *  | *     | *    | *    | 9:47  | 30    | 23:27 | 8  | *  | *  | *  | *  |
| 20 | 9    | 11 | 15 | 20 | 24 | 28 | 31 | 32 | 32 | 31 | 30 | 30 | 31 | 32 | 33 | 34 | 34 | 33 | 31 | 27 | 23 | 18 | 13 | 11  | 613  | 25.5 |       | 7:3   | 32    | 15:45 | #34 | *  | *     | *    | *    | 10:23 | 30    | *     | *  | *  | *  | *  | *  |
| 21 | 10   | 10 | 13 | 17 | 22 | 26 | 29 | 31 | 31 | 31 | 30 | 29 | 30 | 30 | 31 | 32 | 33 | 33 | 31 | 29 | 25 | 21 | 16 | 13  | 603  | 25.1 |       | 7:41  | 31    | 16:17 | 33  | *  | *     | *    | *    | 0:5   | 10    | 11:3  | 29 | *  | *  | *  | *  |
| 22 | 11   | 11 | 12 | 15 | 19 | 23 | 26 | 29 | 30 | 30 | 29 | 28 | 28 | 28 | 29 | 30 | 31 | 31 | 30 | 29 | 26 | 23 | 19 | 15  | 582  | 24.3 |       | 8:19  | 30    | 16:49 | 31  | *  | *     | *    | *    | 0:43  | 11    | 11:54 | 28 | *  | *  | *  | *  |
| 23 | 13   | 12 | 12 | 14 | 17 | 20 | 23 | 26 | 28 | 29 | 28 | 27 | 27 | 27 | 27 | 28 | 28 | 28 | 28 | 26 | 23 | 20 | 17 | 15  | 555  | 23.1 |       | 8:59  | 29    | 17:24 | 28  | *  | *     | *    | *    | 1:21  | 12    | 13:3  | 27 | *  | *  | *  | *  |
| 24 | 15   | 13 | 13 | 14 | 15 | 18 | 21 | 24 | 26 | 27 | 27 | 26 | 26 | 25 | 24 | 24 | 25 | 25 | 25 | 25 | 24 | 23 | 21 | 19  | 525  | 21.9 |       | 9:37  | 27    | 18:8  | 25  | *  | *     | *    | *    | 1:58  | 13    | 14:34 | 24 | *  | *  | *  | *  |
| 25 | 17   | 15 | 14 | 14 | 15 | 17 | 19 | 21 | 24 | 25 | 26 | 26 | 25 | 24 | 23 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 21 | 20  | 500  | 20.8 | L     | 10:12 | 26    | 19:27 | 22  | *  | *     | *    | *    | 2:33  | 14    | 16:21 | 22 | *  | *  | *  | *  |
| 26 | 18   | 17 | 16 | 16 | 16 | 17 | 18 | 20 | 22 | 24 | 25 | 25 | 24 | 23 | 22 | 20 | 19 | 19 | 19 | 19 | 19 | 20 | 20 | 20  | 478  | 19.9 |       | 10:43 | 25    | 22:10 | 20  | *  | *     | *    | *    | 3:7   | 16    | 17:39 | 19 | *  | *  | *  | *  |
| 27 | 19   | 19 | 18 | 18 | 18 | 18 | 19 | 20 | 22 | 23 | 25 | 25 | 25 | 24 | 22 | 20 | 18 | 17 | 16 | 16 | 17 | 18 | 19 | 20  | 476  | 19.8 |       | 11:9  | 25    | *     | *   | *  | *     | 3:40 | 18   | 18:25 | 16    | *     | *  | *  | *  |    |    |
| 28 | 21   | 21 | 20 | 20 | 20 | 20 | 21 | 22 | 23 | 25 | 26 | 26 | 25 | 23 | 20 | 18 | 15 | 14 | 13 | 14 | 15 | 17 | 19 | 478 | 19.9 |      | 0:39  | 21    | 11:34 | 26    | *   | *  | *     | *    | 4:20 | 20    | 19:2  | 13    | *  | *  | *  | *  |    |
| 29 | 21   | 22 | 23 | 23 | 23 | 23 | 23 | 24 | 25 | 26 | 27 | 27 | 27 | 25 | 22 | 19 | 16 | 13 | 12 | 11 | 13 | 15 | 18 | 501 | 20.9 |      | 12:0  | 27    | *     | *     | *   | *  | 19:38 | 11   | *    | *     | *     | *     | *  | *  |    |    |    |
| 30 | 21   | 24 | 25 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 27 | 29 | 29 | 29 | 28 | 25 | 21 | 17 | 14 | 11 | 10 | 10 | 12 | 16  | 530  | 22.1 |       | 3:45  | 26    | 12:28 | 29  | *  | *     | *    | *    | 6:59  | 26    | 20:15 | 10 | *  | *  | *  | *  |

| N   | Sum   | Mean | 推算月最高潮位     |    |    | 推算月最低潮位    |    |    |
|-----|-------|------|-------------|----|----|------------|----|----|
|     |       |      | 起時          | 潮位 | 回数 | 起時         | 潮位 | 回数 |
| 720 | 15028 | 20.9 | 20日 15時 45分 | 34 | 2  | 5日 23時 18分 | 2  | 3  |

# 推算潮位（毎時・満干潮）

地点名：忍路

緯度：43 °13 N

経度：140 °52 E

潮位表基準面の零点：平均海面下 17.0(cm)

2019 年 7 月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 満潮   |      |      |       |       |       |      |    | 干潮 |       |      |       |       |       |     |    |    |    |    |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|------|------|-------|-------|-------|------|----|----|-------|------|-------|-------|-------|-----|----|----|----|----|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23  | 日合計  | 日平均  | 月    | 時刻    | 潮位    | 時刻    | 潮位   | 時刻 | 潮位 | 時刻    | 潮位   | 時刻    | 潮位    | 時刻    | 潮位  | 時刻 | 潮位 | 時刻 | 潮位 |
| 1  | 20   | 24 | 27 | 29 | 29 | 29 | 29 | 28 | 29 | 29 | 30 | 31 | 32 | 31 | 29 | 25 | 21 | 16 | 12 | 9  | 8  | 9  | 12 | 567 | 23.6 |      | 4:25 | 29    | 13: 2 | 32    | *    | *  | *  | *     | 7:55 | 28    | 20:56 | 8     | *   | *  | *  | *  |    |
| 2  | 17   | 22 | 26 | 30 | 32 | 32 | 32 | 31 | 31 | 31 | 31 | 32 | 33 | 34 | 34 | 33 | 30 | 26 | 20 | 15 | 10 | 8  | 7  | 9   | 606  | 25.3 |      | 5: 1  | 32    | 13:42 | 35   | *  | *  | *     | *    | 8:36  | 31    | 21:40 | # 7 | *  | *  | *  | *  |
| 3  | 13   | 18 | 24 | 29 | 32 | 34 | 34 | 33 | 33 | 32 | 32 | 33 | 34 | 35 | 37 | 37 | 35 | 31 | 26 | 19 | 13 | 9  | 7  | 7   | 637  | 26.5 | N    | 5:38  | 34    | 14:27 | 37   | *  | *  | *     | *    | 9: 8  | 32    | 22:27 | # 7 | *  | *  | *  | *  |
| 4  | 9    | 14 | 20 | 26 | 30 | 34 | 35 | 35 | 34 | 33 | 33 | 33 | 34 | 35 | 37 | 38 | 38 | 35 | 31 | 25 | 18 | 12 | 8  | 7   | 654  | 27.3 |      | 6:16  | 35    | 15:16 | 38   | *  | *  | *     | *    | 9:41  | 33    | 23:16 | # 7 | *  | *  | *  | *  |
| 5  | 7    | 10 | 15 | 21 | 27 | 31 | 34 | 35 | 34 | 33 | 32 | 32 | 33 | 34 | 36 | 37 | 38 | 38 | 35 | 31 | 24 | 18 | 12 | 9   | 656  | 27.3 |      | 6:55  | 35    | 16: 9 | 38   | *  | *  | *     | *    | 10:20 | 32    | *     | *   | *  | *  | *  | *  |
| 6  | 7    | 8  | 12 | 17 | 22 | 27 | 31 | 33 | 33 | 32 | 31 | 31 | 31 | 32 | 33 | 35 | 36 | 37 | 37 | 34 | 29 | 23 | 17 | 13  | 641  | 26.7 |      | 7:34  | 34    | 17: 6 | 37   | *  | *  | *     | *    | 0: 6  | # 7   | 11:11 | 31  | *  | *  | *  | *  |
| 7  | 10   | 9  | 10 | 13 | 18 | 23 | 28 | 31 | 32 | 32 | 30 | 29 | 29 | 29 | 29 | 31 | 32 | 34 | 35 | 34 | 32 | 28 | 23 | 18  | 619  | 25.8 |      | 8:13  | 32    | 18: 9 | 35   | *  | *  | *     | *    | 0:55  | 9     | 12:27 | 29  | *  | *  | *  | *  |
| 8  | 14   | 12 | 11 | 13 | 16 | 20 | 24 | 28 | 30 | 30 | 29 | 28 | 27 | 26 | 26 | 26 | 27 | 29 | 30 | 31 | 31 | 30 | 26 | 22  | 586  | 24.4 |      | 8:50  | 30    | 19:24 | 32   | *  | *  | *     | *    | 1:43  | 11    | 14: 0 | 26  | *  | *  | *  | *  |
| 9  | 19   | 16 | 15 | 15 | 16 | 19 | 22 | 25 | 28 | 29 | 29 | 28 | 26 | 24 | 23 | 23 | 23 | 23 | 25 | 26 | 28 | 28 | 28 | 25  | 563  | 23.5 | U    | 9:26  | 29    | 20:56 | 28   | *  | *  | *     | *    | 2:29  | 14    | 15:32 | 23  | *  | *  | *  | *  |
| 10 | 23   | 20 | 19 | 18 | 18 | 20 | 22 | 24 | 26 | 28 | 29 | 28 | 26 | 24 | 22 | 21 | 19 | 19 | 19 | 21 | 23 | 25 | 26 | 26  | 546  | 22.8 |      | 9:59  | 29    | 22:47 | 26   | *  | *  | *     | *    | 3:12  | 18    | 16:59 | 19  | *  | *  | *  | *  |
| 11 | 26   | 24 | 23 | 22 | 22 | 22 | 23 | 25 | 26 | 28 | 29 | 29 | 28 | 26 | 23 | 20 | 18 | 17 | 16 | 16 | 18 | 20 | 23 | 25  | 549  | 22.9 |      | 10:31 | 29    | *     | *    | *  | *  | 3:49  | 22   | 18:13 | 16    | *     | *   | *  | *  |    |    |
| 12 | 26   | 26 | 26 | 26 | 25 | 25 | 26 | 27 | 28 | 29 | 30 | 30 | 30 | 28 | 25 | 22 | 19 | 16 | 14 | 13 | 14 | 16 | 19 | 22  | 562  | 23.4 |      | 0:50  | 26    | 11: 3 | 30   | *  | *  | *     | *    | 4:19  | 25    | 19:12 | 13  | *  | *  | *  | *  |
| 13 | 25   | 27 | 28 | 28 | 28 | 28 | 28 | 29 | 29 | 30 | 31 | 32 | 32 | 31 | 29 | 26 | 22 | 18 | 15 | 13 | 12 | 13 | 15 | 19  | 588  | 24.5 |      | 11:37 | 32    | *     | *    | *  | *  | 20: 2 | 12   | *     | *     | *     | *   | *  | *  |    |    |
| 14 | 23   | 26 | 29 | 30 | 31 | 31 | 31 | 31 | 31 | 32 | 32 | 33 | 34 | 34 | 32 | 29 | 26 | 22 | 18 | 14 | 12 | 12 | 13 | 16  | 622  | 25.9 |      | 12:16 | 34    | *     | *    | *  | *  | 20:46 | 12   | *     | *     | *     | *   | *  | *  |    |    |
| 15 | 20   | 25 | 29 | 31 | 33 | 33 | 33 | 33 | 33 | 33 | 34 | 34 | 35 | 36 | 35 | 33 | 30 | 26 | 21 | 17 | 14 | 12 | 12 | 14  | 656  | 27.3 |      | 12:58 | 36    | *     | *    | *  | *  | 21:26 | 12   | *     | *     | *     | *   | *  | *  |    |    |
| 16 | 18   | 23 | 27 | 31 | 33 | 34 | 34 | 34 | 33 | 34 | 34 | 35 | 36 | 37 | 37 | 36 | 34 | 30 | 25 | 20 | 16 | 14 | 12 | 13  | 680  | 28.3 |      | 5:18  | 34    | 13:41 | 37   | *  | *  | *     | *    | 7:58  | 33    | 22: 4 | 12  | *  | *  | *  | *  |
| 17 | 16   | 21 | 25 | 30 | 33 | 35 | 35 | 34 | 34 | 34 | 34 | 35 | 36 | 37 | 38 | 38 | 36 | 34 | 29 | 24 | 19 | 16 | 13 | 13  | 699  | 29.1 | F    | 5:41  | 35    | 14:24 | 38   | *  | *  | *     | *    | 8:42  | 34    | 22:41 | 13  | *  | *  | *  | *  |
| 18 | 15   | 18 | 23 | 28 | 32 | 34 | 35 | 35 | 34 | 33 | 33 | 34 | 35 | 36 | 38 | 38 | 38 | 36 | 32 | 28 | 23 | 18 | 15 | 14  | 705  | 29.4 |      | 6: 6  | 35    | 15: 6 | 38   | *  | *  | *     | *    | 9:24  | 33    | 23:16 | 14  | *  | *  | *  | *  |
| 19 | 14   | 16 | 21 | 25 | 30 | 33 | 35 | 35 | 34 | 32 | 32 | 32 | 33 | 34 | 36 | 37 | 37 | 37 | 34 | 30 | 25 | 21 | 17 | 15  | 695  | 29.0 |      | 6:32  | 35    | 15:45 | 38   | *  | *  | *     | *    | 10: 6 | 32    | 23:50 | 14  | *  | *  | *  | *  |
| 20 | 14   | 15 | 18 | 22 | 27 | 30 | 33 | 34 | 33 | 32 | 31 | 30 | 31 | 32 | 33 | 35 | 36 | 36 | 34 | 32 | 28 | 23 | 19 | 16  | 674  | 28.1 |      | 6:59  | 34    | 16:24 | 36   | *  | *  | *     | *    | 10:50 | 30    | *     | *   | *  | *  | *  | *  |
| 21 | 15   | 15 | 17 | 20 | 24 | 28 | 31 | 32 | 32 | 31 | 29 | 29 | 28 | 29 | 30 | 32 | 33 | 34 | 33 | 31 | 28 | 25 | 21 | 18  | 645  | 26.9 |      | 7:26  | 32    | 17: 3 | 34   | *  | *  | *     | *    | 0:23  | 15    | 11:40 | 28  | *  | *  | *  | *  |
| 22 | 16   | 15 | 16 | 19 | 22 | 25 | 28 | 30 | 31 | 30 | 29 | 27 | 27 | 26 | 27 | 28 | 30 | 31 | 31 | 30 | 28 | 25 | 22 | 19  | 612  | 25.5 |      | 7:54  | 31    | 17:45 | 31   | *  | *  | *     | *    | 0:54  | 15    | 12:38 | 26  | *  | *  | *  | *  |
| 23 | 18   | 17 | 17 | 18 | 21 | 23 | 26 | 28 | 30 | 29 | 28 | 27 | 25 | 24 | 24 | 25 | 26 | 27 | 28 | 28 | 27 | 26 | 23 | 21  | 586  | 24.4 |      | 8:21  | 30    | 18:38 | 28   | *  | *  | *     | *    | 1:22  | 16    | 13:43 | 24  | *  | *  | *  | *  |
| 24 | 19   | 18 | 18 | 19 | 20 | 23 | 25 | 27 | 28 | 29 | 28 | 26 | 25 | 23 | 23 | 22 | 23 | 24 | 24 | 25 | 25 | 25 | 24 | 23  | 566  | 23.6 |      | 8:47  | 29    | 19:54 | 25   | *  | *  | *     | *    | 1:43  | 18    | 14:53 | 22  | *  | *  | *  | *  |
| 25 | 21   | 20 | 20 | 21 | 22 | 23 | 25 | 27 | 28 | 29 | 28 | 27 | 25 | 23 | 22 | 21 | 20 | 21 | 21 | 22 | 23 | 24 | 24 | 24  | 561  | 23.4 | L    | 9:13  | 29    | 21:55 | 24   | *  | *  | *     | *    | 1:52  | 20    | 16: 8 | 20  | *  | *  | *  | *  |
| 26 | 23   | 23 | 23 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 29 | 28 | 27 | 24 | 22 | 20 | 19 | 18 | 19 | 19 | 21 | 22 | 24 | 25  | 568  | 23.7 |      | 9:38  | 29    | *     | *    | *  | *  | 1:46  | 23   | 17:18 | 18    | *     | *   | *  | *  |    |    |
| 27 | 25   | 25 | 25 | 26 | 26 | 27 | 28 | 28 | 29 | 30 | 30 | 30 | 29 | 27 | 24 | 21 | 19 | 17 | 16 | 17 | 18 | 20 | 22 | 24  | 583  | 24.3 |      | 10: 6 | 30    | *     | *    | *  | *  | 18:16 | 16   | *     | *     | *     | *   | *  | *  |    |    |
| 28 | 26   | 27 | 28 | 29 | 29 | 29 | 30 | 30 | 31 | 32 | 32 | 32 | 31 | 30 | 27 | 23 | 20 | 17 | 16 | 15 | 15 | 17 | 20 | 23  | 609  | 25.4 |      | 10:42 | 32    | *     | *    | *  | *  | 19: 6 | 15   | *     | *     | *     | *   | *  | *  |    |    |
| 29 | 26   | 29 | 30 | 31 | 32 | 32 | 32 | 32 | 33 | 33 | 34 | 34 | 34 | 33 | 31 | 27 | 23 | 19 | 16 | 14 | 13 | 14 | 17 | 20  | 639  | 26.6 |      | 11:30 | 34    | *     | *    | *  | *  | 19:54 | 13   | *     | *     | *     | *   | *  | *  |    |    |
| 30 | 24   | 28 | 31 | 33 | 34 | 34 | 34 | 34 | 34 | 35 | 35 | 36 | 37 | 37 | 35 | 32 | 28 | 23 | 18 | 14 | 12 | 12 | 13 | 16  | 669  | 27.9 |      | 12:27 | 37    | *     | *    | *  | *  | 20:43 | 11   | *     | *     | *     | *   | *  | *  |    |    |
| 31 | 21   | 26 | 31 | 34 | 36 | 36 | 36 | 35 | 35 | 35 | 36 | 37 | 38 | 39 | 39 | 37 | 33 | 28 | 22 | 17 | 13 | 10 | 10 | 12  | 696  | 29.0 |      | 5: 4  | 36    | 13:25 | # 39 | *  | *  | *     | *    | 8:11  | 35    | 21:32 | 10  | *  | *  | *  | *  |

| N<br>総回数 | Sum<br>推算月合計 | Mean<br>推算月平均 | 推算月最高潮位        |    |    | 推算月最低潮位     |    |    |
|----------|--------------|---------------|----------------|----|----|-------------|----|----|
|          |              |               | 起時             | 潮位 | 回数 | 起時          | 潮位 | 回数 |
| 744      | 19239        | 25.9          | 31 日 13 時 25 分 | 39 | 1  | 6 日 0 時 6 分 | 7  | 4  |

# 推算潮位（毎時・満干潮）

地点名：忍路

緯度：43 °13 N

経度：140 °52 E

潮位表基準面の零点：平均海面下 17.0(cm)

2019 年 8 月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 満潮  |      |   |       |    |       |     |    | 干潮 |       |    |       |    |       |    |    |    |    |    |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|---|-------|----|-------|-----|----|----|-------|----|-------|----|-------|----|----|----|----|----|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 日合計 | 日平均  | 月 | 時刻    | 潮位 | 時刻    | 潮位  | 時刻 | 潮位 | 時刻    | 潮位 | 時刻    | 潮位 | 時刻    | 潮位 | 時刻 | 潮位 | 時刻 | 潮位 |
| 1  | 17   | 22 | 28 | 32 | 35 | 37 | 37 | 36 | 35 | 35 | 35 | 36 | 37 | 39 | 41 | 40 | 38 | 34 | 28 | 21 | 15 | 11 | 9  | 10 | 708 | 29.5 | N | 5:25  | 37 | 14:23 | 41  | *  | *  | *     | *  | 8:50  | 35 | 22:21 | #9 | *  | *  | *  | *  |
| 2  | 13   | 17 | 23 | 29 | 33 | 36 | 37 | 36 | 34 | 34 | 34 | 34 | 35 | 38 | 40 | 41 | 41 | 39 | 34 | 28 | 20 | 15 | 11 | 9  | 711 | 29.6 |   | 5:52  | 37 | 15:22 | #42 | *  | *  | *     | *  | 9:31  | 33 | 23:10 | #9 | *  | *  | *  | *  |
| 3  | 10   | 14 | 19 | 25 | 30 | 34 | 36 | 35 | 34 | 32 | 31 | 31 | 32 | 34 | 37 | 39 | 41 | 41 | 38 | 33 | 26 | 20 | 15 | 11 | 698 | 29.1 |   | 6:21  | 36 | 16:22 | 41  | *  | *  | *     | *  | 10:19 | 31 | 23:56 | 10 | *  | *  | *  | *  |
| 4  | 10   | 12 | 16 | 21 | 26 | 31 | 33 | 34 | 33 | 31 | 29 | 28 | 29 | 30 | 32 | 35 | 38 | 39 | 39 | 36 | 32 | 25 | 20 | 16 | 675 | 28.1 |   | 6:50  | 34 | 17:24 | 39  | *  | *  | *     | *  | 11:17 | 28 | *     | *  | *  | *  | *  | *  |
| 5  | 13   | 13 | 15 | 18 | 23 | 28 | 31 | 33 | 32 | 30 | 28 | 26 | 25 | 26 | 27 | 29 | 32 | 35 | 36 | 36 | 34 | 30 | 25 | 20 | 645 | 26.9 |   | 7:20  | 33 | 18:29 | 37  | *  | *  | *     | *  | 0:40  | 13 | 12:25 | 25 | *  | *  | *  | *  |
| 6  | 18   | 16 | 16 | 19 | 22 | 26 | 29 | 31 | 32 | 31 | 28 | 26 | 24 | 23 | 23 | 24 | 26 | 28 | 31 | 33 | 33 | 31 | 28 | 25 | 623 | 26.0 |   | 7:48  | 32 | 19:41 | 33  | *  | *  | *     | *  | 1:21  | 16 | 13:37 | 23 | *  | *  | *  | *  |
| 7  | 22   | 21 | 20 | 21 | 23 | 25 | 28 | 30 | 32 | 31 | 29 | 27 | 24 | 22 | 21 | 20 | 21 | 23 | 25 | 27 | 29 | 30 | 30 | 28 | 609 | 25.4 |   | 8:16  | 32 | 21: 8 | 30  | *  | *  | *     | *  | 1:55  | 20 | 14:55 | 20 | *  | *  | *  | *  |
| 8  | 26   | 25 | 24 | 24 | 25 | 27 | 29 | 30 | 32 | 32 | 31 | 29 | 26 | 23 | 21 | 19 | 18 | 18 | 20 | 22 | 24 | 26 | 28 | 29 | 608 | 25.3 | U | 8:42  | 32 | 23:11 | 29  | *  | *  | *     | *  | 2:17  | 24 | 16:22 | 18 | *  | *  | *  | *  |
| 9  | 28   | 28 | 28 | 28 | 28 | 29 | 30 | 31 | 32 | 33 | 32 | 31 | 29 | 26 | 23 | 20 | 18 | 17 | 17 | 17 | 19 | 22 | 25 | 27 | 618 | 25.8 |   | 9: 9  | 33 | *     | *   | *  | *  | 2:10  | 28 | 17:48 | 17 | *     | *  | *  | *  |    |    |
| 10 | 29   | 30 | 30 | 31 | 31 | 32 | 32 | 33 | 33 | 34 | 34 | 33 | 32 | 29 | 26 | 23 | 20 | 18 | 16 | 16 | 16 | 18 | 21 | 25 | 642 | 26.8 |   | 9:40  | 34 | *     | *   | *  | *  | 18:57 | 16 | *     | *  | *     | *  | *  | *  |    |    |
| 11 | 28   | 30 | 31 | 32 | 33 | 33 | 34 | 34 | 34 | 34 | 35 | 35 | 35 | 34 | 33 | 30 | 27 | 24 | 20 | 18 | 16 | 15 | 16 | 19 | 668 | 27.8 |   | 10:32 | 35 | *     | *   | *  | *  | 19:52 | 15 | *     | *  | *     | *  | *  | *  |    |    |
| 12 | 26   | 29 | 32 | 33 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 36 | 36 | 35 | 34 | 31 | 28 | 24 | 20 | 17 | 15 | 15 | 17 | 20 | 691 | 28.8 |   | 11:40 | 36 | *     | *   | *  | *  | 20:38 | 15 | *     | *  | *     | *  | *  | *  |    |    |
| 13 | 24   | 28 | 31 | 33 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 36 | 37 | 37 | 36 | 34 | 31 | 28 | 23 | 19 | 17 | 15 | 16 | 18 | 708 | 29.5 |   | 12:43 | 37 | *     | *   | *  | *  | 21:17 | 15 | *     | *  | *     | *  | *  | *  |    |    |
| 14 | 22   | 26 | 30 | 33 | 35 | 35 | 35 | 34 | 34 | 34 | 35 | 36 | 37 | 38 | 38 | 37 | 34 | 31 | 27 | 22 | 18 | 16 | 15 | 17 | 719 | 30.0 |   | 4:57  | 35 | 13:38 | 38  | *  | *  | *     | *  | 7:59  | 34 | 21:53 | 15 | *  | *  | *  | *  |
| 15 | 20   | 24 | 28 | 32 | 34 | 35 | 35 | 34 | 33 | 33 | 33 | 34 | 35 | 37 | 38 | 38 | 36 | 34 | 30 | 25 | 20 | 17 | 15 | 16 | 716 | 29.8 | F | 5:10  | 35 | 14:25 | 38  | *  | *  | *     | *  | 8:39  | 33 | 22:27 | 15 | *  | *  | *  | *  |
| 16 | 18   | 21 | 26 | 30 | 33 | 34 | 34 | 33 | 32 | 31 | 31 | 32 | 33 | 35 | 37 | 38 | 37 | 35 | 32 | 27 | 22 | 19 | 16 | 15 | 701 | 29.2 |   | 5:27  | 35 | 15: 9 | 38  | *  | *  | *     | *  | 9:19  | 31 | 22:58 | 15 | *  | *  | *  | *  |
| 17 | 16   | 19 | 23 | 27 | 31 | 33 | 34 | 33 | 31 | 29 | 29 | 29 | 30 | 32 | 35 | 36 | 37 | 36 | 33 | 29 | 25 | 20 | 17 | 16 | 680 | 28.3 |   | 5:48  | 34 | 15:51 | 37  | *  | *  | *     | *  | 9:58  | 29 | 23:29 | 15 | *  | *  | *  | *  |
| 18 | 16   | 18 | 21 | 25 | 29 | 31 | 33 | 32 | 30 | 28 | 27 | 27 | 27 | 29 | 31 | 34 | 35 | 35 | 34 | 31 | 26 | 22 | 19 | 17 | 657 | 27.4 |   | 6: 9  | 33 | 16:31 | 35  | *  | *  | *     | *  | 10:40 | 27 | 23:57 | 16 | *  | *  | *  | *  |
| 19 | 16   | 17 | 19 | 23 | 27 | 30 | 31 | 31 | 30 | 27 | 25 | 25 | 25 | 26 | 28 | 30 | 32 | 33 | 33 | 31 | 28 | 24 | 21 | 18 | 630 | 26.3 |   | 6:30  | 31 | 17:14 | 33  | *  | *  | *     | *  | 11:24 | 24 | *     | *  | *  | *  | *  | *  |
| 20 | 17   | 17 | 19 | 22 | 25 | 28 | 30 | 31 | 30 | 27 | 25 | 23 | 23 | 23 | 24 | 26 | 29 | 30 | 31 | 30 | 28 | 25 | 22 | 20 | 605 | 25.2 |   | 6:51  | 31 | 18: 0 | 31  | *  | *  | *     | *  | 0:21  | 17 | 12:11 | 23 | *  | *  | *  | *  |
| 21 | 19   | 19 | 20 | 22 | 25 | 27 | 29 | 30 | 30 | 28 | 25 | 23 | 22 | 21 | 22 | 23 | 25 | 27 | 28 | 29 | 28 | 26 | 24 | 22 | 594 | 24.8 |   | 7:10  | 30 | 18:56 | 29  | *  | *  | *     | *  | 0:40  | 19 | 13: 1 | 21 | *  | *  | *  | *  |
| 22 | 21   | 21 | 22 | 23 | 25 | 27 | 29 | 30 | 30 | 28 | 26 | 24 | 21 | 20 | 20 | 20 | 22 | 24 | 25 | 27 | 27 | 27 | 26 | 25 | 590 | 24.6 |   | 7:29  | 30 | 20: 8 | 27  | *  | *  | *     | *  | 0:47  | 21 | 13:55 | 20 | *  | *  | *  | *  |
| 23 | 24   | 24 | 24 | 25 | 26 | 28 | 29 | 30 | 30 | 30 | 28 | 25 | 23 | 21 | 19 | 19 | 19 | 21 | 22 | 24 | 25 | 26 | 27 | 26 | 595 | 24.8 | L | 7:45  | 30 | *     | *   | *  | *  | 0:40  | 24 | 14:57 | 19 | *     | *  | *  | *  |    |    |
| 24 | 26   | 26 | 27 | 27 | 28 | 29 | 30 | 31 | 31 | 31 | 30 | 27 | 25 | 22 | 20 | 19 | 18 | 18 | 19 | 21 | 23 | 25 | 26 | 27 | 606 | 25.3 |   | 7:59  | 31 | *     | *   | *  | *  | 16:11 | 18 | *     | *  | *     | *  | *  | *  |    |    |
| 25 | 28   | 29 | 29 | 30 | 31 | 31 | 32 | 32 | 32 | 32 | 32 | 30 | 28 | 25 | 22 | 20 | 18 | 17 | 17 | 18 | 20 | 22 | 25 | 27 | 627 | 26.1 |   | 8:16  | 32 | *     | *   | *  | *  | 17:30 | 17 | *     | *  | *     | *  | *  | *  |    |    |
| 26 | 29   | 30 | 31 | 32 | 33 | 33 | 33 | 33 | 34 | 34 | 33 | 33 | 31 | 29 | 25 | 22 | 19 | 17 | 16 | 15 | 16 | 19 | 22 | 25 | 644 | 26.8 |   | 8:58  | 34 | *     | *   | *  | *  | 18:38 | 15 | *     | *  | *     | *  | *  | *  |    |    |
| 27 | 28   | 31 | 33 | 34 | 34 | 34 | 35 | 34 | 34 | 35 | 35 | 35 | 34 | 33 | 30 | 26 | 22 | 18 | 15 | 14 | 14 | 15 | 18 | 22 | 663 | 27.6 |   | 10:46 | 35 | *     | *   | *  | *  | 19:37 | 13 | *     | *  | *     | *  | *  | *  |    |    |
| 28 | 26   | 30 | 33 | 34 | 35 | 35 | 35 | 35 | 34 | 35 | 35 | 36 | 37 | 36 | 35 | 31 | 27 | 22 | 17 | 14 | 12 | 12 | 14 | 18 | 678 | 28.3 |   | 4:35  | 35 | 12:15 | 37  | *  | *  | *     | *  | 8: 1  | 34 | 20:30 | 12 | *  | *  | *  | *  |
| 29 | 22   | 27 | 31 | 34 | 35 | 35 | 34 | 34 | 33 | 33 | 34 | 35 | 37 | 38 | 38 | 36 | 32 | 27 | 21 | 16 | 12 | 11 | 11 | 13 | 679 | 28.3 |   | 4:30  | 35 | 13:27 | 38  | *  | *  | *     | *  | 8:21  | 33 | 21:21 | 10 | *  | *  | *  | *  |
| 30 | 18   | 23 | 28 | 32 | 34 | 35 | 34 | 32 | 31 | 31 | 31 | 33 | 35 | 38 | 39 | 39 | 37 | 33 | 27 | 21 | 15 | 12 | 10 | 11 | 679 | 28.3 | N | 4:45  | 35 | 14:32 | 40  | *  | *  | *     | *  | 8:51  | 31 | 22: 9 | 10 | *  | *  | *  | *  |
| 31 | 14   | 19 | 25 | 29 | 33 | 34 | 33 | 31 | 29 | 28 | 28 | 29 | 31 | 34 | 38 | 40 | 40 | 38 | 33 | 26 | 20 | 15 | 12 | 11 | 670 | 27.9 |   | 5: 7  | 34 | 15:34 | 40  | *  | *  | *     | *  | 9:32  | 28 | 22:54 | 11 | *  | *  | *  | *  |

| N   | Sum   | Mean | 推算月最高潮位    |    |    | 推算月最低潮位    |    |    |
|-----|-------|------|------------|----|----|------------|----|----|
|     |       |      | 起時         | 潮位 | 回数 | 起時         | 潮位 | 回数 |
| 744 | 20337 | 27.3 | 2日 15時 22分 | 42 | 1  | 2日 23時 10分 | 9  | 2  |



# 推算潮位 ( 毎時・満干潮 )

地点名: 忍路

緯度: 43 °13 N

経度: 140 °52 E

潮位表基準面の零点: 平均海面下 17.0(cm)

2019 年 9 月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 満潮 |     |      |   |      |    |       |      | 干潮 |    |    |    |       |    |       |      |    |    |   |   |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|---|------|----|-------|------|----|----|----|----|-------|----|-------|------|----|----|---|---|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 日合計 | 日平均  | 月 | 時刻   | 潮位 | 時刻    | 潮位   | 時刻 | 潮位 | 時刻 | 潮位 | 時刻    | 潮位 | 時刻    | 潮位   | 時刻 | 潮位 |   |   |
| 1  | 12   | 16 | 21 | 27 | 31 | 33 | 33 | 31 | 28 | 26 | 25 | 25 | 26 | 29 | 33 | 37 | 39 | 39 | 37 | 32 | 26 | 20 | 16 | 13 | 655 | 27.3 |   | 5:31 | 33 | 16:36 | # 39 | *  | *  | *  | *  | 10:20 | 24 | 23:36 | 13   | *  | *  | * | * |
| 2  | 13   | 15 | 19 | 24 | 28 | 31 | 32 | 31 | 28 | 24 | 22 | 21 | 22 | 23 | 27 | 31 | 35 | 37 | 38 | 35 | 31 | 25 | 21 | 18 | 631 | 26.3 |   | 5:56 | 32 | 17:38 | 38   | *  | *  | *  | *  | 11:14 | 21 | *     | *    | *  | *  | * | * |
| 3  | 16   | 17 | 19 | 23 | 27 | 30 | 32 | 32 | 29 | 25 | 22 | 20 | 19 | 19 | 21 | 25 | 29 | 32 | 35 | 35 | 33 | 29 | 25 | 22 | 616 | 25.7 |   | 6:21 | 32 | 18:41 | 35   | *  | *  | *  | *  | 0:14  | 16 | 12:12 | 19   | *  | *  | * | * |
| 4  | 21   | 20 | 21 | 24 | 27 | 30 | 32 | 32 | 30 | 27 | 23 | 20 | 18 | 17 | 17 | 19 | 22 | 26 | 29 | 32 | 32 | 31 | 29 | 26 | 605 | 25.2 |   | 6:44 | 32 | 19:51 | 32   | *  | *  | *  | *  | 0:46  | 20 | 13:13 | 17   | *  | *  | * | * |
| 5  | 25   | 24 | 25 | 26 | 28 | 30 | 32 | 32 | 32 | 30 | 26 | 23 | 19 | 17 | 16 | 17 | 18 | 20 | 23 | 26 | 29 | 30 | 30 | 29 | 607 | 25.3 |   | 7: 4 | 32 | 21:20 | 30   | *  | *  | *  | *  | 1: 7  | 24 | 14:21 | 16   | *  | *  | * | * |
| 6  | 28   | 28 | 28 | 29 | 30 | 31 | 32 | 33 | 33 | 32 | 29 | 26 | 23 | 20 | 18 | 16 | 16 | 17 | 19 | 21 | 24 | 27 | 29 | 29 | 618 | 25.8 | U | 7:19 | 33 | *     | *    | *  | *  | *  | *  | 1: 3  | 28 | 15:43 | 16   | *  | *  | * | * |
| 7  | 30   | 30 | 31 | 31 | 32 | 33 | 33 | 34 | 34 | 33 | 31 | 29 | 26 | 24 | 21 | 19 | 17 | 16 | 17 | 18 | 20 | 23 | 26 | 28 | 636 | 26.5 |   | 7:22 | 34 | *     | *    | *  | *  | *  | *  | 17:16 | 16 | *     | *    | *  | *  | * | * |
| 8  | 30   | 31 | 32 | 33 | 33 | 34 | 34 | 34 | 34 | 34 | 33 | 32 | 30 | 27 | 25 | 22 | 19 | 17 | 16 | 16 | 17 | 20 | 23 | 26 | 652 | 27.2 |   | 6:27 | 34 | *     | *    | *  | *  | *  | *  | 18:34 | 16 | *     | *    | *  | *  | * | * |
| 9  | 29   | 31 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 33 | 33 | 32 | 31 | 28 | 26 | 23 | 20 | 18 | 16 | 16 | 18 | 20 | 24 | 667 | 27.8 |   | 5:37 | 34 | *     | *    | *  | *  | *  | *  | 19:33 | 16 | *     | *    | *  | *  | * | * |
| 10 | 27   | 30 | 32 | 33 | 34 | 34 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 31 | 29 | 26 | 23 | 19 | 17 | 16 | 16 | 18 | 21 | 670 | 27.9 |   | 4:35 | 34 | *     | *    | *  | *  | *  | *  | 20:19 | 16 | *     | *    | *  | *  | * | * |
| 11 | 25   | 28 | 31 | 33 | 33 | 33 | 32 | 32 | 32 | 32 | 32 | 33 | 33 | 34 | 33 | 31 | 29 | 25 | 22 | 18 | 16 | 16 | 16 | 19 | 668 | 27.8 |   | 4: 5 | 33 | 12:48 | 34   | *  | *  | *  | *  | 8:20  | 32 | 20:58 | 16   | *  | *  | * | * |
| 12 | 23   | 26 | 30 | 32 | 32 | 32 | 31 | 30 | 30 | 30 | 30 | 31 | 33 | 34 | 34 | 33 | 31 | 28 | 24 | 20 | 17 | 15 | 15 | 17 | 658 | 27.4 |   | 4: 8 | 32 | 13:46 | 34   | *  | *  | *  | *  | 8:24  | 29 | 21:32 | 15   | *  | *  | * | * |
| 13 | 20   | 24 | 28 | 30 | 32 | 31 | 30 | 28 | 27 | 27 | 28 | 29 | 31 | 32 | 34 | 34 | 32 | 30 | 26 | 22 | 18 | 16 | 15 | 16 | 640 | 26.7 |   | 4:20 | 32 | 14:34 | 34   | *  | *  | *  | *  | 8:48  | 27 | 22: 3 | 15   | *  | *  | * | * |
| 14 | 18   | 22 | 26 | 29 | 31 | 31 | 29 | 27 | 25 | 24 | 25 | 26 | 28 | 30 | 32 | 33 | 33 | 31 | 28 | 24 | 20 | 17 | 15 | 15 | 619 | 25.8 | F | 4:35 | 31 | 15:18 | 33   | *  | *  | *  | *  | 9:19  | 24 | 22:32 | 15   | *  | *  | * | * |
| 15 | 17   | 20 | 24 | 27 | 29 | 30 | 29 | 27 | 24 | 22 | 22 | 23 | 24 | 27 | 30 | 32 | 33 | 32 | 30 | 26 | 22 | 18 | 16 | 15 | 599 | 25.0 |   | 4:52 | 30 | 16: 0 | 33   | *  | *  | *  | *  | 9:52  | 22 | 22:59 | 15   | *  | *  | * | * |
| 16 | 16   | 19 | 22 | 26 | 28 | 29 | 29 | 27 | 23 | 21 | 20 | 20 | 21 | 24 | 27 | 30 | 31 | 32 | 30 | 28 | 24 | 20 | 18 | 17 | 582 | 24.3 |   | 5:10 | 29 | 16:43 | 32   | *  | *  | *  | *  | 10:28 | 20 | 23:24 | 17   | *  | *  | * | * |
| 17 | 17   | 19 | 22 | 25 | 27 | 29 | 29 | 27 | 24 | 21 | 18 | 18 | 18 | 20 | 23 | 27 | 29 | 31 | 30 | 29 | 26 | 23 | 20 | 19 | 571 | 23.8 |   | 5:27 | 29 | 17:27 | 31   | *  | *  | *  | *  | 11: 5 | 18 | 23:44 | 19   | *  | *  | * | * |
| 18 | 19   | 20 | 22 | 25 | 27 | 29 | 29 | 28 | 25 | 21 | 18 | 17 | 16 | 17 | 20 | 23 | 26 | 28 | 30 | 29 | 27 | 25 | 22 | 21 | 564 | 23.5 |   | 5:43 | 29 | 18:15 | 30   | *  | *  | *  | *  | 11:44 | 16 | 23:54 | 21   | *  | *  | * | * |
| 19 | 21   | 21 | 23 | 25 | 27 | 29 | 29 | 29 | 26 | 23 | 19 | 17 | 16 | 16 | 17 | 20 | 23 | 26 | 28 | 29 | 28 | 27 | 25 | 24 | 568 | 23.7 |   | 5:57 | 29 | 19:10 | 29   | *  | *  | *  | *  | 12:26 | 16 | 23:51 | 23   | *  | *  | * | * |
| 20 | 23   | 24 | 25 | 26 | 28 | 29 | 30 | 30 | 28 | 25 | 21 | 18 | 16 | 15 | 16 | 17 | 20 | 22 | 25 | 27 | 28 | 28 | 27 | 26 | 574 | 23.9 |   | 6: 8 | 30 | 20:19 | 28   | *  | *  | *  | *  | 13:12 | 15 | 23:41 | 26   | *  | *  | * | * |
| 21 | 26   | 26 | 27 | 28 | 29 | 30 | 31 | 30 | 29 | 27 | 24 | 20 | 18 | 16 | 15 | 16 | 17 | 19 | 22 | 24 | 26 | 27 | 28 | 28 | 583 | 24.3 |   | 6:14 | 31 | *     | *    | *  | *  | *  | *  | 14: 8 | 15 | *     | *    | *  | *  | * | * |
| 22 | 28   | 28 | 29 | 30 | 31 | 31 | 31 | 31 | 31 | 29 | 27 | 24 | 20 | 18 | 16 | 15 | 15 | 16 | 18 | 21 | 23 | 25 | 27 | 28 | 592 | 24.7 | L | 6: 9 | 31 | *     | *    | *  | *  | *  | *  | 15:19 | 15 | *     | *    | *  | *  | * | * |
| 23 | 29   | 30 | 31 | 31 | 32 | 32 | 32 | 32 | 31 | 31 | 29 | 27 | 24 | 21 | 18 | 16 | 15 | 15 | 15 | 17 | 19 | 22 | 25 | 27 | 601 | 25.0 |   | 5:24 | 32 | *     | *    | *  | *  | *  | *  | 16:49 | 15 | *     | *    | *  | *  | * | * |
| 24 | 29   | 30 | 31 | 32 | 33 | 33 | 32 | 32 | 32 | 31 | 31 | 30 | 28 | 25 | 22 | 19 | 16 | 14 | 13 | 14 | 15 | 18 | 21 | 25 | 606 | 25.3 |   | 4:42 | 33 | *     | *    | *  | *  | *  | *  | 18:12 | 13 | *     | *    | *  | *  | * | * |
| 25 | 28   | 30 | 31 | 32 | 32 | 32 | 32 | 31 | 31 | 31 | 31 | 31 | 31 | 29 | 26 | 23 | 19 | 15 | 13 | 12 | 12 | 14 | 17 | 21 | 604 | 25.2 |   | 4: 1 | 32 | *     | *    | *  | *  | *  | *  | 19:17 | 12 | *     | *    | *  | *  | * | * |
| 26 | 25   | 29 | 31 | 32 | 32 | 31 | 30 | 30 | 29 | 29 | 30 | 32 | 33 | 32 | 31 | 28 | 23 | 19 | 15 | 12 | 11 | 11 | 13 | 17 | 605 | 25.2 |   | 3:28 | 32 | 12:25 | 33   | *  | *  | *  | *  | 8: 7  | 29 | 20:13 | 11   | *  | *  | * | * |
| 27 | 22   | 26 | 29 | 31 | 31 | 30 | 28 | 27 | 26 | 26 | 27 | 29 | 32 | 34 | 34 | 32 | 29 | 24 | 19 | 14 | 11 | 10 | 11 | 14 | 596 | 24.8 |   | 3:33 | 31 | 13:40 | 34   | *  | *  | *  | *  | 8:22  | 26 | 21: 3 | # 10 | *  | *  | * | * |
| 28 | 18   | 23 | 27 | 30 | 30 | 29 | 27 | 24 | 23 | 22 | 23 | 25 | 29 | 32 | 35 | 35 | 33 | 29 | 24 | 18 | 14 | 12 | 11 | 12 | 585 | 24.4 |   | 3:49 | 30 | 14:46 | 35   | *  | *  | *  | *  | 8:51  | 22 | 21:48 | 11   | *  | *  | * | * |
| 29 | 16   | 21 | 25 | 28 | 30 | 29 | 26 | 23 | 20 | 19 | 19 | 20 | 23 | 28 | 32 | 35 | 36 | 34 | 30 | 24 | 19 | 15 | 13 | 13 | 578 | 24.1 | N | 4:10 | 30 | 15:49 | 36   | *  | *  | *  | *  | 9:30  | 19 | 22:30 | 13   | *  | *  | * | * |
| 30 | 15   | 19 | 23 | 27 | 29 | 29 | 27 | 23 | 19 | 16 | 15 | 15 | 18 | 22 | 27 | 32 | 35 | 35 | 33 | 29 | 24 | 20 | 17 | 16 | 565 | 23.5 |   | 4:32 | 30 | 16:49 | 35   | *  | *  | *  | *  | 10:15 | 15 | 23: 8 | 16   | *  | *  | * | * |

| N   | Sum   | Mean | 推算月最高潮位    |    |    | 推算月最低潮位    |    |    |
|-----|-------|------|------------|----|----|------------|----|----|
|     |       |      | 起時         | 潮位 | 回数 | 起時         | 潮位 | 回数 |
| 720 | 18315 | 25.4 | 1日 16時 36分 | 39 | 1  | 27日 21時 3分 | 10 | 1  |

### 推算潮位 ( 毎時・満干潮 )

地点名: 忍路

緯度: 43 °13 N

経度: 140 °52 E

潮位表基準面の零点: 平均海面下 17.0(cm)

2019 年 10 月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 満潮 |     |      |   |      |    |       |      | 干潮 |    |       |    |       |     |       |    |    |    |    |    |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|---|------|----|-------|------|----|----|-------|----|-------|-----|-------|----|----|----|----|----|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 日合計 | 日平均  | 月 | 時刻   | 潮位 | 時刻    | 潮位   | 時刻 | 潮位 | 時刻    | 潮位 | 時刻    | 潮位  | 時刻    | 潮位 | 時刻 | 潮位 | 時刻 | 潮位 |
| 1  | 17   | 19 | 23 | 27 | 29 | 30 | 29 | 25 | 20 | 16 | 13 | 12 | 13 | 16 | 21 | 26 | 30 | 33 | 34 | 32 | 29 | 25 | 22 | 20 | 561 | 23.4 |   | 4:55 | 30 | 17:49 | # 34 | *  | *  | *     | *  | 11: 4 | 12  | 23:40 | 20 | *  | *  | *  | *  |
| 2  | 20   | 21 | 24 | 27 | 29 | 31 | 30 | 28 | 23 | 18 | 14 | 12 | 11 | 12 | 15 | 20 | 25 | 29 | 32 | 33 | 31 | 28 | 26 | 24 | 563 | 23.5 |   | 5:17 | 31 | 18:50 | 33   | *  | *  | *     | *  | 11:55 | 11  | *     | *  | *  | *  | *  | *  |
| 3  | 24   | 24 | 26 | 28 | 30 | 31 | 31 | 30 | 26 | 22 | 17 | 14 | 12 | 11 | 12 | 15 | 19 | 23 | 27 | 30 | 31 | 30 | 29 | 27 | 569 | 23.7 |   | 5:35 | 32 | 19:58 | 31   | *  | *  | *     | *  | 0: 3  | 24  | 12:49 | 11 | *  | *  | *  | *  |
| 4  | 27   | 27 | 28 | 29 | 31 | 32 | 32 | 31 | 29 | 25 | 21 | 17 | 14 | 13 | 12 | 13 | 15 | 19 | 22 | 26 | 28 | 29 | 29 | 29 | 578 | 24.1 |   | 5:48 | 32 | *     | *    | *  | *  | 0:10  | 27 | 13:48 | 12  | *     | *  | *  | *  |    |    |
| 5  | 29   | 29 | 30 | 31 | 32 | 32 | 33 | 32 | 31 | 28 | 25 | 21 | 18 | 16 | 14 | 14 | 14 | 16 | 18 | 21 | 24 | 27 | 28 | 29 | 592 | 24.7 |   | 5:48 | 33 | *     | *    | *  | *  | 14:58 | 14 | *     | *   | *     | *  | *  | *  |    |    |
| 6  | 30   | 30 | 31 | 32 | 32 | 33 | 32 | 32 | 31 | 30 | 27 | 25 | 22 | 19 | 17 | 16 | 15 | 15 | 16 | 18 | 21 | 23 | 26 | 28 | 601 | 25.0 | U | 5:14 | 33 | *     | *    | *  | *  | 16:26 | 15 | *     | *   | *     | *  | *  | *  |    |    |
| 7  | 29   | 30 | 31 | 32 | 32 | 32 | 32 | 31 | 31 | 30 | 29 | 27 | 25 | 23 | 21 | 19 | 17 | 16 | 15 | 16 | 18 | 20 | 23 | 26 | 605 | 25.2 |   | 4:33 | 32 | *     | *    | *  | *  | 17:52 | 15 | *     | *   | *     | *  | *  | *  |    |    |
| 8  | 28   | 30 | 30 | 31 | 31 | 31 | 30 | 30 | 29 | 29 | 29 | 28 | 27 | 26 | 24 | 21 | 19 | 17 | 16 | 15 | 16 | 18 | 20 | 23 | 598 | 24.9 |   | 3:46 | 31 | *     | *    | *  | *  | 18:56 | 15 | *     | *   | *     | *  | *  | *  |    |    |
| 9  | 26   | 28 | 29 | 30 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 28 | 28 | 27 | 26 | 24 | 21 | 19 | 16 | 15 | 15 | 16 | 18 | 21 | 582 | 24.3 |   | 2:59 | 30 | *     | *    | *  | *  | 19:45 | 15 | *     | *   | *     | *  | *  | *  |    |    |
| 10 | 24   | 27 | 28 | 29 | 28 | 27 | 26 | 25 | 25 | 25 | 25 | 26 | 27 | 27 | 27 | 26 | 23 | 20 | 18 | 15 | 14 | 14 | 16 | 19 | 561 | 23.4 |   | 2:56 | 29 | 12:58 | 27   | *  | *  | *     | *  | 8:23  | 25  | 20:25 | 14 | *  | *  | *  | *  |
| 11 | 22   | 25 | 27 | 28 | 27 | 26 | 24 | 23 | 22 | 22 | 23 | 24 | 26 | 27 | 27 | 27 | 25 | 22 | 19 | 16 | 15 | 14 | 15 | 17 | 543 | 22.6 |   | 3: 5 | 28 | 13:56 | 27   | *  | *  | *     | *  | 8:27  | 22  | 21: 0 | 14 | *  | *  | *  | *  |
| 12 | 20   | 23 | 25 | 27 | 26 | 25 | 22 | 20 | 19 | 19 | 20 | 21 | 24 | 26 | 27 | 27 | 26 | 24 | 21 | 18 | 15 | 14 | 14 | 16 | 519 | 21.6 |   | 3:18 | 27 | 14:44 | 28   | *  | *  | *     | *  | 8:45  | 19  | 21:31 | 14 | *  | *  | *  | *  |
| 13 | 18   | 22 | 24 | 26 | 26 | 24 | 22 | 19 | 17 | 16 | 16 | 18 | 21 | 24 | 26 | 27 | 27 | 26 | 23 | 20 | 17 | 15 | 15 | 15 | 504 | 21.0 |   | 3:33 | 26 | 15:29 | 28   | *  | *  | *     | *  | 9:11  | 16  | 21:59 | 15 | *  | *  | *  | *  |
| 14 | 18   | 21 | 24 | 26 | 26 | 25 | 22 | 19 | 16 | 14 | 14 | 15 | 17 | 21 | 24 | 27 | 28 | 27 | 25 | 22 | 19 | 17 | 16 | 16 | 499 | 20.8 | F | 3:49 | 26 | 16:12 | 28   | *  | *  | *     | *  | 9:41  | 14  | 22:25 | 16 | *  | *  | *  | *  |
| 15 | 18   | 20 | 23 | 25 | 26 | 26 | 23 | 19 | 15 | 13 | 12 | 12 | 14 | 18 | 22 | 25 | 27 | 28 | 27 | 25 | 22 | 19 | 18 | 18 | 495 | 20.6 |   | 4: 5 | 26 | 16:55 | 28   | *  | *  | *     | *  | 10:12 | 12  | 22:48 | 18 | *  | *  | *  | *  |
| 16 | 19   | 21 | 23 | 26 | 27 | 27 | 25 | 21 | 17 | 13 | 11 | 10 | 12 | 15 | 19 | 23 | 26 | 28 | 28 | 27 | 24 | 22 | 21 | 20 | 505 | 21.0 |   | 4:20 | 27 | 17:39 | 28   | *  | *  | *     | *  | 10:46 | 10  | 23: 4 | 20 | *  | *  | *  | *  |
| 17 | 21   | 22 | 24 | 26 | 28 | 28 | 26 | 23 | 19 | 14 | 11 | 10 | 10 | 12 | 15 | 20 | 24 | 27 | 28 | 28 | 27 | 25 | 23 | 23 | 514 | 21.4 |   | 4:35 | 28 | 18:27 | 28   | *  | *  | *     | *  | 11:22 | 10  | 23: 9 | 23 | *  | *  | *  | *  |
| 18 | 23   | 24 | 25 | 27 | 29 | 29 | 28 | 25 | 21 | 17 | 13 | 10 | 9  | 10 | 13 | 16 | 20 | 24 | 27 | 28 | 28 | 27 | 25 | 25 | 523 | 21.8 |   | 4:48 | 29 | 19:22 | 28   | *  | *  | *     | *  | 12: 1 | 9   | 23: 6 | 25 | *  | *  | *  | *  |
| 19 | 25   | 26 | 27 | 28 | 29 | 30 | 29 | 27 | 24 | 20 | 15 | 12 | 10 | 10 | 11 | 13 | 17 | 21 | 24 | 26 | 27 | 27 | 27 | 27 | 532 | 22.2 |   | 4:59 | 30 | 20:31 | 28   | *  | *  | *     | *  | 12:46 | 10  | 23: 1 | 27 | *  | *  | *  | *  |
| 20 | 27   | 28 | 28 | 29 | 30 | 30 | 30 | 29 | 26 | 23 | 19 | 15 | 12 | 11 | 10 | 12 | 14 | 17 | 20 | 23 | 25 | 27 | 27 | 27 | 539 | 22.5 |   | 5: 5 | 30 | *     | *    | *  | *  | 13:40 | 10 | *     | *   | *     | *  | *  | *  |    |    |
| 21 | 28   | 28 | 29 | 30 | 30 | 30 | 30 | 29 | 28 | 25 | 22 | 19 | 15 | 13 | 11 | 11 | 12 | 13 | 16 | 19 | 22 | 24 | 26 | 27 | 537 | 22.4 | L | 4:49 | 30 | *     | *    | *  | *  | 14:47 | 11 | *     | *   | *     | *  | *  | *  |    |    |
| 22 | 28   | 29 | 29 | 30 | 30 | 30 | 29 | 29 | 28 | 27 | 25 | 22 | 19 | 16 | 13 | 12 | 11 | 11 | 13 | 15 | 18 | 21 | 23 | 26 | 534 | 22.3 |   | 3:55 | 30 | *     | *    | *  | *  | 16:13 | 11 | *     | *   | *     | *  | *  | *  |    |    |
| 23 | 27   | 28 | 28 | 29 | 29 | 28 | 28 | 27 | 27 | 27 | 26 | 25 | 23 | 20 | 17 | 14 | 12 | 11 | 11 | 12 | 14 | 17 | 20 | 23 | 523 | 21.8 |   | 3:16 | 29 | *     | *    | *  | *  | 17:41 | 11 | *     | *   | *     | *  | *  | *  |    |    |
| 24 | 25   | 27 | 27 | 27 | 27 | 26 | 25 | 25 | 25 | 25 | 26 | 26 | 26 | 24 | 21 | 18 | 15 | 12 | 11 | 10 | 11 | 13 | 16 | 20 | 508 | 21.2 |   | 2:13 | 27 | 11: 4 | 26   | *  | *  | *     | *  | 7:38  | 24  | 18:51 | 10 | *  | *  | *  | *  |
| 25 | 23   | 25 | 26 | 26 | 25 | 23 | 22 | 21 | 21 | 22 | 23 | 25 | 26 | 27 | 25 | 23 | 19 | 15 | 12 | 11 | 10 | 11 | 14 | 17 | 492 | 20.5 |   | 2:12 | 26 | 12:42 | 27   | *  | *  | *     | *  | 7:47  | 21  | 19:48 | 10 | *  | *  | *  | *  |
| 26 | 21   | 24 | 25 | 25 | 24 | 21 | 19 | 17 | 17 | 17 | 19 | 22 | 25 | 27 | 28 | 27 | 24 | 20 | 16 | 13 | 11 | 11 | 13 | 16 | 482 | 20.1 |   | 2:26 | 25 | 13:57 | 28   | *  | *  | *     | *  | 8:11  | 17  | 20:38 | 11 | *  | *  | *  | *  |
| 27 | 19   | 23 | 25 | 25 | 24 | 21 | 18 | 15 | 13 | 13 | 14 | 17 | 21 | 25 | 28 | 29 | 28 | 25 | 21 | 17 | 15 | 13 | 13 | 15 | 477 | 19.9 |   | 2:45 | 25 | 15: 3 | 29   | *  | *  | *     | *  | 8:44  | 13  | 21:21 | 13 | *  | *  | *  | *  |
| 28 | 18   | 22 | 25 | 26 | 25 | 22 | 18 | 14 | 11 | 9  | 9  | 11 | 16 | 21 | 26 | 29 | 31 | 29 | 26 | 22 | 19 | 17 | 16 | 17 | 479 | 20.0 | N | 3: 7 | 26 | 16: 4 | 31   | *  | *  | *     | *  | 9:24  | 9   | 22: 0 | 16 | *  | *  | *  | *  |
| 29 | 19   | 22 | 25 | 27 | 27 | 25 | 21 | 15 | 11 | 8  | 6  | 7  | 10 | 15 | 21 | 26 | 30 | 31 | 30 | 27 | 23 | 21 | 19 | 19 | 485 | 20.2 |   | 3:30 | 27 | 17: 2 | 31   | *  | *  | *     | *  | 10: 7 | 6   | 22:33 | 19 | *  | *  | *  | *  |
| 30 | 21   | 23 | 26 | 28 | 29 | 27 | 24 | 19 | 13 | 9  | 6  | 5  | 7  | 10 | 16 | 21 | 26 | 30 | 31 | 30 | 27 | 25 | 23 | 23 | 499 | 20.8 |   | 3:53 | 29 | 17:59 | 31   | *  | *  | *     | *  | 10:52 | # 5 | 22:59 | 23 | *  | *  | *  | *  |
| 31 | 23   | 25 | 27 | 29 | 30 | 30 | 27 | 23 | 17 | 12 | 8  | 6  | 5  | 7  | 11 | 16 | 22 | 26 | 29 | 30 | 29 | 27 | 26 | 25 | 510 | 21.3 |   | 4:15 | 30 | 18:56 | 30   | *  | *  | *     | *  | 11:39 | # 5 | 23:16 | 25 | *  | *  | *  | *  |

| N<br>総回数 | Sum<br>推算月合計 | Mean<br>推算月平均 | 推算月最高潮位       |    |    | 推算月最低潮位        |    |    |
|----------|--------------|---------------|---------------|----|----|----------------|----|----|
|          |              |               | 起時            | 潮位 | 回数 | 起時             | 潮位 | 回数 |
| 744      | 16509        | 22.2          | 1 日 17 時 49 分 | 34 | 1  | 31 日 11 時 39 分 | 5  | 2  |

# 推算潮位（毎時・満干潮）

地点名：忍路

緯度：43 °13 N

経度：140 °52 E

潮位表基準面の零点：平均海面下 17.0(cm)

2019 年 11 月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 満潮  |      |   |      |      |       |    |    | 干潮 |    |    |       |     |       |    |    |    |    |    |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|---|------|------|-------|----|----|----|----|----|-------|-----|-------|----|----|----|----|----|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 日合計 | 日平均  | 月 | 時刻   | 潮位   | 時刻    | 潮位 | 時刻 | 潮位 | 時刻 | 潮位 | 時刻    | 潮位  | 時刻    | 潮位 | 時刻 | 潮位 | 時刻 | 潮位 |
| 1  | 26   | 26 | 28 | 30 | 31 | 31 | 29 | 26 | 22 | 16 | 12 | 8  | 7  | 7  | 9  | 12 | 17 | 22 | 26 | 28 | 29 | 29 | 28 | 27 | 526 | 21.9 |   | 4:34 | # 31 | 20: 0 | 29 | *  | *  | *  | *  | 12:26 | 6   | 23:22 | 27 | *  | *  | *  | *  |
| 2  | 27   | 28 | 29 | 30 | 31 | 31 | 30 | 28 | 25 | 21 | 16 | 12 | 10 | 8  | 9  | 11 | 14 | 18 | 22 | 25 | 27 | 28 | 28 | 28 | 536 | 22.3 |   | 4:47 | # 31 | *     | *  | *  | *  | *  | *  | 13:17 | 8   | *     | *  | *  | *  | *  | *  |
| 3  | 28   | 28 | 29 | 30 | 30 | 31 | 30 | 29 | 27 | 24 | 20 | 16 | 13 | 11 | 10 | 11 | 12 | 15 | 18 | 21 | 24 | 26 | 27 | 28 | 538 | 22.4 |   | 4:48 | # 31 | *     | *  | *  | *  | *  | *  | 14:12 | 10  | *     | *  | *  | *  | *  | *  |
| 4  | 28   | 28 | 29 | 29 | 29 | 29 | 29 | 28 | 27 | 25 | 22 | 19 | 17 | 14 | 13 | 12 | 12 | 13 | 15 | 18 | 21 | 23 | 25 | 26 | 531 | 22.1 | U | 4:26 | 29   | *     | *  | *  | *  | *  | *  | 15:20 | 12  | *     | *  | *  | *  | *  | *  |
| 5  | 27   | 27 | 27 | 28 | 28 | 27 | 27 | 26 | 25 | 24 | 23 | 21 | 19 | 17 | 15 | 14 | 13 | 13 | 14 | 15 | 17 | 20 | 22 | 24 | 513 | 21.4 |   | 3:36 | 28   | *     | *  | *  | *  | *  | *  | 16:40 | 13  | *     | *  | *  | *  | *  | *  |
| 6  | 25   | 26 | 26 | 26 | 25 | 25 | 24 | 24 | 23 | 23 | 22 | 21 | 20 | 19 | 17 | 16 | 14 | 13 | 13 | 14 | 15 | 17 | 20 | 22 | 490 | 20.4 |   | 1:30 | 26   | *     | *  | *  | *  | *  | *  | 17:54 | 13  | *     | *  | *  | *  | *  | *  |
| 7  | 24   | 24 | 24 | 24 | 23 | 22 | 21 | 21 | 20 | 20 | 20 | 21 | 21 | 20 | 19 | 17 | 16 | 14 | 13 | 13 | 13 | 15 | 17 | 20 | 462 | 19.3 |   | 1:29 | 24   | *     | *  | *  | *  | *  | *  | 18:51 | 13  | *     | *  | *  | *  | *  | *  |
| 8  | 22   | 23 | 23 | 22 | 21 | 20 | 18 | 17 | 17 | 17 | 18 | 19 | 20 | 20 | 20 | 19 | 17 | 15 | 14 | 13 | 13 | 14 | 15 | 18 | 435 | 18.1 |   | 1:40 | 23   | 13: 1 | 20 | *  | *  | *  | *  | 8: 0  | 17  | 19:37 | 13 | *  | *  | *  | *  |
| 9  | 20   | 22 | 22 | 22 | 20 | 18 | 16 | 14 | 14 | 14 | 15 | 17 | 19 | 20 | 21 | 20 | 19 | 17 | 15 | 14 | 13 | 13 | 15 | 17 | 417 | 17.4 |   | 1:53 | 22   | 14: 5 | 21 | *  | *  | *  | *  | 8: 9  | 14  | 20:16 | 13 | *  | *  | *  | *  |
| 10 | 19   | 21 | 22 | 22 | 20 | 17 | 14 | 12 | 11 | 11 | 12 | 14 | 17 | 19 | 21 | 21 | 21 | 19 | 17 | 15 | 14 | 14 | 15 | 16 | 404 | 16.8 |   | 2: 8 | 22   | 14:56 | 21 | *  | *  | *  | *  | 8:29  | 11  | 20:50 | 14 | *  | *  | *  | *  |
| 11 | 19   | 21 | 22 | 22 | 20 | 17 | 14 | 11 | 9  | 8  | 9  | 11 | 15 | 18 | 21 | 22 | 23 | 22 | 20 | 18 | 16 | 15 | 16 | 17 | 406 | 16.9 |   | 2:24 | 22   | 15:41 | 23 | *  | *  | *  | *  | 8:55  | 8   | 21:21 | 15 | *  | *  | *  | *  |
| 12 | 19   | 21 | 23 | 23 | 22 | 19 | 15 | 11 | 8  | 6  | 7  | 8  | 12 | 16 | 20 | 23 | 24 | 24 | 22 | 20 | 19 | 18 | 17 | 18 | 415 | 17.3 | F | 2:42 | 23   | 16:24 | 24 | *  | *  | *  | *  | 9:24  | 6   | 21:49 | 17 | *  | *  | *  | *  |
| 13 | 20   | 22 | 24 | 24 | 24 | 21 | 17 | 12 | 8  | 6  | 5  | 6  | 9  | 13 | 18 | 22 | 25 | 26 | 25 | 23 | 21 | 20 | 20 | 20 | 431 | 18.0 |   | 3: 0 | 24   | 17: 7 | 26 | *  | *  | *  | *  | 9:56  | 5   | 22:12 | 20 | *  | *  | *  | *  |
| 14 | 21   | 23 | 25 | 26 | 26 | 24 | 20 | 15 | 10 | 6  | 4  | 4  | 6  | 10 | 15 | 20 | 24 | 26 | 27 | 26 | 24 | 23 | 22 | 22 | 449 | 18.7 |   | 3:20 | 26   | 17:50 | 27 | *  | *  | *  | *  | 10:30 | 4   | 22:28 | 22 | *  | *  | *  | *  |
| 15 | 23   | 24 | 26 | 27 | 27 | 26 | 23 | 18 | 13 | 8  | 5  | 4  | 4  | 7  | 12 | 17 | 21 | 25 | 27 | 27 | 26 | 25 | 24 | 24 | 463 | 19.3 |   | 3:40 | 27   | 18:37 | 27 | *  | *  | *  | *  | 11: 7 | 4   | 22:34 | 24 | *  | *  | *  | *  |
| 16 | 24   | 25 | 27 | 28 | 28 | 28 | 26 | 22 | 17 | 11 | 7  | 4  | 4  | 5  | 8  | 13 | 18 | 22 | 25 | 27 | 27 | 26 | 25 | 25 | 472 | 19.7 |   | 4: 2 | 28   | 19:30 | 27 | *  | *  | *  | *  | 11:49 | 4   | 22:41 | 25 | *  | *  | *  | *  |
| 17 | 25   | 26 | 27 | 28 | 29 | 29 | 27 | 25 | 20 | 15 | 10 | 7  | 5  | 5  | 6  | 9  | 14 | 18 | 22 | 25 | 26 | 26 | 26 | 26 | 476 | 19.8 |   | 4:25 | 29   | *     | *  | *  | *  | *  | *  | 12:35 | 4   | *     | *  | *  | *  | *  | *  |
| 18 | 26   | 26 | 27 | 28 | 28 | 28 | 28 | 26 | 23 | 19 | 14 | 10 | 7  | 5  | 5  | 7  | 10 | 14 | 17 | 21 | 23 | 25 | 25 | 25 | 467 | 19.5 |   | 4:47 | 28   | *     | *  | *  | *  | *  | *  | 13:28 | 5   | *     | *  | *  | *  | *  | *  |
| 19 | 25   | 26 | 26 | 26 | 27 | 27 | 27 | 26 | 24 | 21 | 18 | 14 | 10 | 8  | 6  | 6  | 8  | 10 | 13 | 17 | 20 | 22 | 23 | 24 | 454 | 18.9 |   | 5: 5 | 27   | *     | *  | *  | *  | *  | *  | 14:29 | 6   | *     | *  | *  | *  | *  | *  |
| 20 | 24   | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 22 | 20 | 17 | 14 | 11 | 9  | 7  | 7  | 8  | 10 | 13 | 16 | 19 | 21 | 22 | 432 | 18.0 | L | 2:55 | 24   | *     | *  | *  | *  | *  | *  | 15:41 | 7   | *     | *  | *  | *  | *  | *  |
| 21 | 23   | 23 | 22 | 22 | 22 | 21 | 21 | 21 | 21 | 21 | 21 | 20 | 18 | 15 | 12 | 10 | 9  | 8  | 9  | 10 | 13 | 15 | 18 | 20 | 415 | 17.3 |   | 0:21 | 23   | *     | *  | *  | *  | *  | *  | 16:59 | 8   | *     | *  | *  | *  | *  | *  |
| 22 | 21   | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 17 | 18 | 19 | 20 | 20 | 19 | 16 | 14 | 12 | 10 | 9  | 10 | 11 | 13 | 16 | 19 | 397 | 16.5 |   | 0:35 | 22   | 11:24 | 20 | *  | *  | *  | *  | 6:50  | 16  | 18:12 | 9  | *  | *  | *  | *  |
| 23 | 20   | 21 | 20 | 19 | 16 | 15 | 13 | 12 | 12 | 14 | 16 | 18 | 20 | 21 | 20 | 18 | 16 | 13 | 12 | 11 | 11 | 13 | 15 | 18 | 384 | 16.0 |   | 0:55 | 21   | 13: 0 | 21 | *  | *  | *  | *  | 7:22  | 12  | 19:13 | 11 | *  | *  | *  | *  |
| 24 | 20   | 21 | 21 | 19 | 16 | 13 | 10 | 8  | 8  | 9  | 11 | 14 | 18 | 21 | 22 | 22 | 20 | 18 | 15 | 14 | 13 | 14 | 15 | 18 | 380 | 15.8 |   | 1:17 | 21   | 14:17 | 22 | *  | *  | *  | *  | 7:58  | 8   | 20: 4 | 13 | *  | *  | *  | *  |
| 25 | 20   | 22 | 22 | 21 | 18 | 14 | 10 | 6  | 5  | 4  | 6  | 10 | 14 | 19 | 22 | 24 | 24 | 22 | 20 | 18 | 16 | 16 | 17 | 18 | 388 | 16.2 |   | 1:41 | 22   | 15:24 | 24 | *  | *  | *  | *  | 8:37  | 4   | 20:48 | 16 | *  | *  | *  | *  |
| 26 | 21   | 23 | 24 | 23 | 21 | 16 | 11 | 7  | 3  | 2  | 2  | 5  | 9  | 15 | 20 | 24 | 26 | 26 | 24 | 21 | 20 | 19 | 19 | 20 | 401 | 16.7 |   | 2: 6 | 24   | 16:23 | 26 | *  | *  | *  | *  | 9:18  | 2   | 21:24 | 19 | *  | *  | *  | *  |
| 27 | 22   | 24 | 26 | 26 | 24 | 20 | 15 | 9  | 5  | 2  | 1  | 2  | 5  | 10 | 16 | 22 | 25 | 27 | 27 | 25 | 23 | 22 | 21 | 22 | 421 | 17.5 | N | 2:34 | 26   | 17:17 | 27 | *  | *  | *  | *  | 10: 0 | # 1 | 21:53 | 21 | *  | *  | *  | *  |
| 28 | 23   | 25 | 27 | 28 | 27 | 24 | 20 | 14 | 8  | 4  | 1  | 1  | 2  | 7  | 12 | 18 | 23 | 27 | 28 | 27 | 26 | 24 | 23 | 24 | 443 | 18.5 |   | 3: 2 | 28   | 18: 7 | 28 | *  | *  | *  | *  | 10:43 | # 1 | 22:17 | 23 | *  | *  | *  | *  |
| 29 | 24   | 26 | 28 | 29 | 29 | 27 | 24 | 19 | 13 | 7  | 4  | 2  | 2  | 4  | 9  | 14 | 19 | 24 | 27 | 28 | 27 | 26 | 25 | 25 | 462 | 19.3 |   | 3:30 | 29   | 18:56 | 28 | *  | *  | *  | *  | 11:26 | 2   | 22:39 | 25 | *  | *  | *  | *  |
| 30 | 25   | 26 | 28 | 29 | 29 | 29 | 26 | 22 | 17 | 12 | 7  | 4  | 3  | 4  | 6  | 11 | 16 | 20 | 24 | 26 | 27 | 26 | 25 | 25 | 467 | 19.5 |   | 3:57 | 29   | 19:47 | 27 | *  | *  | *  | *  | 12: 9 | 3   | 23: 3 | 25 | *  | *  | *  | *  |

| N   | Sum<br>推算月合計 | Mean<br>推算月平均 | 推算月最高潮位 |    |    | 推算月最低潮位   |    |    |
|-----|--------------|---------------|---------|----|----|-----------|----|----|
|     |              |               | 起時      | 潮位 | 回数 | 起時        | 潮位 | 回数 |
| 720 | 13475        | 18.7          | 3日4時48分 | 31 | 3  | 28日10時43分 | 1  | 2  |

# 推算潮位（毎時・満干潮）

地点名：忍路

緯度：43 °13 N

経度：140 °52 E

潮位表基準面の零点：平均海面下 17.0(cm)

2019 年 12 月

| 日  | 毎時潮位 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 満潮   |      |      |       |       |       |    |    | 干潮 |       |       |       |       |       |    |    |    |    |    |
|----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|------|------|------|-------|-------|-------|----|----|----|-------|-------|-------|-------|-------|----|----|----|----|----|
|    | 0    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23  | 日合計  | 日平均  | 月    | 時刻    | 潮位    | 時刻    | 潮位 | 時刻 | 潮位 | 時刻    | 潮位    | 時刻    | 潮位    | 時刻    | 潮位 | 時刻 | 潮位 | 時刻 | 潮位 |
| 1  | 25   | 26 | 27 | 28 | 29 | 28 | 27 | 25 | 21 | 16 | 11 | 8  | 5  | 5  | 6  | 9  | 12 | 17 | 21 | 24 | 25 | 25 | 24 | 469 | 19.5 |      | 4:21 | # 29  | 20:42 | 25    | *  | *  | *  | *     | 12:51 | 5     | 23:35 | 24    | *  | *  | *  | *  |    |
| 2  | 24   | 25 | 25 | 26 | 27 | 27 | 26 | 25 | 22 | 18 | 14 | 11 | 8  | 7  | 7  | 8  | 10 | 13 | 17 | 20 | 22 | 24 | 24 | 23  | 453  | 18.9 |      | 4:42  | 27    | 21:45 | 24 | *  | *  | *     | *     | 13:35 | 6     | *     | *  | *  | *  | *  | *  |
| 3  | 23   | 23 | 23 | 24 | 24 | 25 | 24 | 23 | 22 | 19 | 16 | 13 | 11 | 9  | 8  | 8  | 9  | 11 | 14 | 17 | 19 | 21 | 22 | 22  | 430  | 17.9 |      | 4:55  | 25    | 22:45 | 22 | *  | *  | *     | *     | 0:27  | 23    | 14:21 | 8  | *  | *  | *  | *  |
| 4  | 22   | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 20 | 18 | 17 | 14 | 12 | 11 | 9  | 9  | 9  | 10 | 12 | 14 | 16 | 18 | 20 | 20  | 398  | 16.6 | U    | 23:25 | 20    | *     | *  | *  | *  | *     | *     | 15:11 | 9     | *     | *  | *  | *  | *  | *  |
| 5  | 20   | 20 | 19 | 19 | 18 | 18 | 18 | 17 | 17 | 17 | 16 | 15 | 13 | 12 | 11 | 10 | 10 | 10 | 11 | 12 | 14 | 16 | 18 | 19  | 370  | 15.4 |      | 23:52 | 19    | *     | *  | *  | *  | *     | *     | 16:10 | 10    | *     | *  | *  | *  | *  | *  |
| 6  | 19   | 19 | 18 | 16 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 13 | 12 | 11 | 11 | 10 | 10 | 11 | 13 | 14 | 16 | 17 | 338 | 14.1 |      | *    | *     | *     | *     | *  | *  | *  | 17:16 | 10    | *     | *     | *     | *  | *  | *  |    |    |
| 7  | 18   | 18 | 17 | 15 | 13 | 12 | 11 | 10 | 10 | 11 | 12 | 13 | 14 | 14 | 14 | 13 | 12 | 12 | 11 | 11 | 12 | 13 | 15 | 17  | 318  | 13.3 |      | 0:13  | 18    | 13: 0 | 14 | *  | *  | *     | *     | 7:20  | 10    | 18:19 | 11 | *  | *  | *  | *  |
| 8  | 18   | 18 | 17 | 15 | 13 | 10 | 8  | 7  | 7  | 8  | 9  | 11 | 13 | 14 | 15 | 15 | 14 | 14 | 13 | 13 | 13 | 14 | 15 | 17  | 311  | 13.0 |      | 0:33  | 18    | 14:25 | 15 | *  | *  | *     | *     | 7:39  | 7     | 19:14 | 13 | *  | *  | *  | *  |
| 9  | 18   | 18 | 18 | 16 | 13 | 10 | 7  | 5  | 4  | 5  | 7  | 9  | 12 | 14 | 16 | 17 | 17 | 16 | 15 | 15 | 14 | 15 | 16 | 17  | 314  | 13.1 |      | 0:53  | 18    | 15:22 | 17 | *  | *  | *     | *     | 8: 5  | 4     | 20: 1 | 14 | *  | *  | *  | *  |
| 10 | 19   | 19 | 19 | 17 | 14 | 11 | 7  | 4  | 3  | 3  | 4  | 7  | 10 | 14 | 17 | 19 | 19 | 19 | 18 | 17 | 17 | 16 | 17 | 18  | 328  | 13.7 |      | 1:15  | 19    | 16: 6 | 19 | *  | *  | *     | *     | 8:34  | 2     | 20:41 | 16 | *  | *  | *  | *  |
| 11 | 20   | 21 | 21 | 20 | 17 | 13 | 9  | 5  | 2  | 1  | 2  | 4  | 8  | 12 | 17 | 20 | 21 | 22 | 21 | 20 | 19 | 19 | 19 | 20  | 353  | 14.7 |      | 1:39  | 21    | 16:44 | 22 | *  | *  | *     | *     | 9: 6  | 1     | 21:15 | 19 | *  | *  | *  | *  |
| 12 | 21   | 22 | 23 | 22 | 20 | 16 | 11 | 6  | 2  | 0  | 0  | 1  | 5  | 10 | 15 | 19 | 22 | 23 | 23 | 22 | 21 | 21 | 21 | 21  | 367  | 15.3 | F    | 2: 5  | 23    | 17:22 | 24 | *  | *  | *     | *     | 9:41  | 0     | 21:41 | 20 | *  | *  | *  | *  |
| 13 | 22   | 24 | 25 | 25 | 23 | 20 | 15 | 10 | 4  | 1  | -1 | -1 | 2  | 6  | 12 | 17 | 21 | 24 | 25 | 24 | 23 | 22 | 22 | 22  | 387  | 16.1 |      | 2:36  | 25    | 18: 1 | 25 | *  | *  | *     | *     | 10:20 | -1    | 22: 0 | 22 | *  | *  | *  | *  |
| 14 | 23   | 24 | 26 | 27 | 26 | 24 | 20 | 14 | 8  | 3  | 0  | -2 | -1 | 3  | 8  | 13 | 19 | 23 | 25 | 25 | 24 | 23 | 23 | 23  | 401  | 16.7 |      | 3: 9  | 27    | 18:43 | 25 | *  | *  | *     | *     | 11: 1 | -2    | 22:18 | 23 | *  | *  | *  | *  |
| 15 | 23   | 24 | 26 | 27 | 27 | 26 | 23 | 18 | 12 | 6  | 2  | -1 | -1 | 0  | 4  | 9  | 14 | 19 | 23 | 24 | 24 | 23 | 23 | 22  | 397  | 16.5 |      | 3:46  | 27    | 19:27 | 24 | *  | *  | *     | *     | 11:45 | -2    | 22:43 | 22 | *  | *  | *  | *  |
| 16 | 23   | 23 | 24 | 26 | 27 | 27 | 25 | 22 | 17 | 11 | 5  | 1  | -1 | -1 | 1  | 5  | 10 | 15 | 19 | 22 | 23 | 23 | 22 | 21  | 390  | 16.3 |      | 4:27  | 27    | 20:15 | 23 | *  | *  | *     | *     | 12:32 | -1    | 23:21 | 21 | *  | *  | *  | *  |
| 17 | 21   | 22 | 22 | 23 | 25 | 25 | 25 | 23 | 20 | 15 | 10 | 5  | 2  | 0  | 0  | 2  | 6  | 10 | 15 | 18 | 20 | 21 | 21 | 20  | 371  | 15.5 |      | 5:14  | 25    | 21: 5 | 21 | *  | *  | *     | *     | 13:21 | 0     | *     | *  | *  | *  | *  | *  |
| 18 | 20   | 20 | 20 | 20 | 21 | 22 | 22 | 22 | 21 | 18 | 14 | 9  | 5  | 3  | 2  | 2  | 4  | 7  | 11 | 14 | 17 | 19 | 19 | 19  | 351  | 14.6 |      | 6:12  | 22    | 21:52 | 19 | *  | *  | *     | *     | 0:29  | 19    | 14:12 | 2  | *  | *  | *  | *  |
| 19 | 18   | 17 | 17 | 17 | 17 | 17 | 18 | 19 | 19 | 18 | 16 | 13 | 9  | 7  | 5  | 4  | 4  | 6  | 8  | 11 | 14 | 16 | 17 | 18  | 325  | 13.5 | L    | 7:35  | 19    | 22:32 | 18 | *  | *  | *     | *     | 2:57  | 17    | 15: 6 | 4  | *  | *  | *  | *  |
| 20 | 17   | 16 | 14 | 14 | 13 | 13 | 13 | 14 | 15 | 16 | 16 | 15 | 13 | 11 | 8  | 7  | 7  | 7  | 8  | 10 | 12 | 15 | 16 | 17  | 307  | 12.8 |      | 9:35  | 16    | 23: 6 | 17 | *  | *  | *     | *     | 4:54  | 13    | 16: 3 | 7  | *  | *  | *  | *  |
| 21 | 17   | 15 | 13 | 11 | 10 | 9  | 8  | 9  | 10 | 12 | 13 | 15 | 15 | 14 | 12 | 11 | 10 | 10 | 10 | 11 | 12 | 14 | 16 | 17  | 294  | 12.3 |      | 11:40 | 15    | 23:37 | 17 | *  | *  | *     | *     | 6: 6  | 8     | 17: 7 | 10 | *  | *  | *  | *  |
| 22 | 17   | 16 | 14 | 11 | 9  | 6  | 5  | 4  | 5  | 7  | 9  | 12 | 15 | 16 | 16 | 15 | 14 | 13 | 13 | 13 | 14 | 15 | 16 | 18  | 293  | 12.2 |      | 13:26 | 16    | *     | *  | *  | *  | 7: 1  | 4     | 18:16 | 13    | *     | *  | *  | *  |    |    |
| 23 | 18   | 18 | 16 | 13 | 9  | 6  | 3  | 1  | 1  | 2  | 5  | 9  | 12 | 16 | 18 | 18 | 18 | 17 | 16 | 16 | 16 | 16 | 17 | 19  | 300  | 12.5 |      | 0: 7  | 18    | 14:54 | 18 | *  | *  | *     | *     | 7:48  | 1     | 19:19 | 16 | *  | *  | *  | *  |
| 24 | 20   | 20 | 19 | 16 | 12 | 8  | 4  | 1  | -1 | -1 | 1  | 4  | 9  | 14 | 17 | 20 | 20 | 20 | 19 | 18 | 18 | 18 | 19 | 20  | 315  | 13.1 |      | 0:40  | 20    | 16: 0 | 20 | *  | *  | *     | *     | 8:33  | -1    | 20: 9 | 18 | *  | *  | *  | *  |
| 25 | 21   | 22 | 22 | 20 | 16 | 12 | 7  | 2  | -1 | -2 | -2 | 1  | 5  | 11 | 16 | 20 | 22 | 22 | 22 | 21 | 20 | 20 | 20 | 21  | 338  | 14.1 |      | 1:15  | 22    | 16:50 | 22 | *  | *  | *     | *     | 9:16  | -2    | 20:47 | 20 | *  | *  | *  | *  |
| 26 | 22   | 24 | 24 | 23 | 21 | 16 | 11 | 6  | 1  | -2 | -3 | -1 | 2  | 7  | 13 | 18 | 22 | 24 | 24 | 23 | 21 | 21 | 21 | 22  | 360  | 15.0 | N    | 1:53  | 24    | 17:31 | 24 | *  | *  | *     | *     | 9:58  | # -3  | 21:18 | 21 | *  | *  | *  | *  |
| 27 | 23   | 24 | 25 | 25 | 24 | 21 | 16 | 10 | 5  | 1  | -2 | -2 | 0  | 4  | 10 | 15 | 20 | 23 | 24 | 24 | 22 | 22 | 21 | 22  | 377  | 15.7 |      | 2:32  | 25    | 18: 7 | 24 | *  | *  | *     | *     | 10:38 | -2    | 21:48 | 21 | *  | *  | *  | *  |
| 28 | 23   | 24 | 25 | 26 | 26 | 24 | 20 | 15 | 9  | 4  | 0  | -1 | -1 | 2  | 7  | 12 | 17 | 21 | 23 | 24 | 23 | 22 | 21 | 21  | 387  | 16.1 |      | 3:10  | 26    | 18:42 | 24 | *  | *  | *     | *     | 11:17 | -1    | 22:22 | 21 | *  | *  | *  | *  |
| 29 | 22   | 23 | 24 | 25 | 26 | 25 | 22 | 18 | 13 | 8  | 3  | 1  | 0  | 1  | 4  | 9  | 14 | 18 | 21 | 23 | 22 | 21 | 20 | 20  | 383  | 16.0 |      | 3:47  | 26    | 19:16 | 23 | *  | *  | *     | *     | 11:55 | 0     | 22:59 | 20 | *  | *  | *  | *  |
| 30 | 20   | 21 | 22 | 24 | 24 | 24 | 23 | 20 | 16 | 11 | 6  | 3  | 1  | 1  | 3  | 6  | 11 | 15 | 18 | 20 | 21 | 20 | 19 | 18  | 367  | 15.3 |      | 4:22  | 25    | 19:50 | 21 | *  | *  | *     | *     | 12:30 | 1     | 23:43 | 18 | *  | *  | *  | *  |
| 31 | 18   | 19 | 20 | 21 | 22 | 22 | 22 | 20 | 17 | 13 | 9  | 5  | 3  | 2  | 2  | 4  | 8  | 11 | 15 | 17 | 19 | 19 | 18 | 17  | 343  | 14.3 |      | 4:54  | 22    | 20:27 | 19 | *  | *  | *     | *     | 13: 7 | 2     | *     | *  | *  | *  | *  | *  |

| N<br>総回数 | Sum<br>推算月合計 | Mean<br>推算月平均 | 推算月最高潮位 |    |    | 推算月最低潮位  |    |    |
|----------|--------------|---------------|---------|----|----|----------|----|----|
|          |              |               | 起時      | 潮位 | 回数 | 起時       | 潮位 | 回数 |
| 744      | 11135        | 15.0          | 1日4時21分 | 29 | 1  | 26日9時58分 | -3 | 1  |