

Hourly Astronomical Tide Level at Kuji port, Iwate Pref. in 2011 (unit: centimeter) Issued by JMA

| Date | Moon | Time | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|---------------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 1-Jun | W | 39 | 48 | 51 | 44 | 29 | 7 | -20 | -44 | -63 | -70 | -66 | -50 | -27 | -1 | 21 | 37 | 43 | 40 | 32 | 22 | 13 | 10 | 13 | 22 | |
| 2-Jun | Th | New Moon | 34 | 46 | 53 | 52 | 41 | 21 | -5 | -33 | -57 | -72 | -75 | -65 | -45 | -19 | 8 | 29 | 41 | 44 | 39 | 30 | 19 | 12 | 12 | 17 |
| 3-Jun | F | | 28 | 41 | 53 | 57 | 52 | 36 | 12 | -17 | -44 | -66 | -77 | -75 | -60 | -37 | -9 | 17 | 35 | 44 | 44 | 37 | 26 | 17 | 12 | 14 |
| 4-Jun | Sa | | 22 | 35 | 48 | 57 | 58 | 48 | 29 | 2 | -26 | -52 | -70 | -76 | -69 | -51 | -26 | 1 | 24 | 39 | 45 | 42 | 33 | 23 | 15 | 13 |
| 5-Jun | Su | | 17 | 27 | 40 | 53 | 59 | 56 | 42 | 21 | -6 | -33 | -56 | -69 | -70 | -59 | -39 | -14 | 11 | 31 | 42 | 44 | 39 | 30 | 20 | 13 |
| 6-Jun | M | | 13 | 19 | 30 | 43 | 53 | 57 | 51 | 36 | 14 | -11 | -35 | -54 | -62 | -59 | -46 | -26 | -1 | 21 | 36 | 43 | 43 | 36 | 26 | 16 |
| 7-Jun | Tu | | 11 | 13 | 20 | 31 | 42 | 50 | 51 | 44 | 29 | 9 | -13 | -33 | -46 | -51 | -45 | -31 | -11 | 10 | 29 | 40 | 44 | 41 | 32 | 21 |
| 8-Jun | W | | 12 | 8 | 10 | 17 | 26 | 36 | 43 | 43 | 36 | 24 | 7 | -10 | -26 | -35 | -36 | -29 | -15 | 3 | 22 | 36 | 44 | 44 | 39 | 28 |
| 9-Jun | Th | First Quarter | 17 | 8 | 3 | 4 | 9 | 17 | 26 | 33 | 34 | 30 | 21 | 10 | -3 | -14 | -20 | -20 | -13 | 0 | 16 | 31 | 43 | 47 | 45 | 37 |
| 10-Jun | F | | 25 | 12 | 1 | -5 | -7 | -3 | 4 | 13 | 21 | 26 | 26 | 22 | 16 | 7 | -1 | -5 | -5 | 2 | 13 | 27 | 39 | 48 | 50 | 45 |
| 11-Jun | Sa | | 35 | 21 | 6 | -8 | -17 | -21 | -18 | -11 | 0 | 11 | 20 | 25 | 27 | 24 | 18 | 12 | 8 | 8 | 13 | 23 | 35 | 46 | 53 | 53 |
| 12-Jun | Su | | 47 | 34 | 17 | -1 | -18 | -31 | -36 | -34 | -25 | -12 | 4 | 17 | 28 | 33 | 33 | 29 | 23 | 18 | 17 | 22 | 31 | 42 | 52 | 57 |
| 13-Jun | M | | 56 | 48 | 33 | 13 | -10 | -31 | -45 | -52 | -49 | -37 | -20 | 0 | 18 | 32 | 40 | 41 | 37 | 30 | 24 | 23 | 27 | 35 | 46 | 56 |
| 14-Jun | Tu | | 62 | 60 | 49 | 31 | 7 | -19 | -43 | -59 | -65 | -60 | -45 | -24 | 0 | 22 | 38 | 46 | 47 | 41 | 32 | 26 | 24 | 29 | 38 | 50 |
| 15-Jun | W | | 61 | 66 | 63 | 49 | 28 | 0 | -29 | -54 | -70 | -73 | -66 | -48 | -23 | 4 | 27 | 43 | 50 | 48 | 41 | 31 | 24 | 23 | 29 | 39 |
| 16-Jun | Th | Full Moon | 53 | 65 | 69 | 64 | 48 | 23 | -8 | -38 | -62 | -76 | -77 | -66 | -44 | -17 | 11 | 33 | 47 | 51 | 47 | 37 | 27 | 20 | 21 | 28 |
| 17-Jun | F | | 41 | 56 | 67 | 70 | 62 | 43 | 16 | -15 | -45 | -67 | -77 | -74 | -59 | -35 | -7 | 20 | 39 | 49 | 50 | 43 | 31 | 21 | 15 | 18 |
| 18-Jun | Sa | | 27 | 42 | 57 | 68 | 69 | 57 | 36 | 8 | -22 | -50 | -67 | -73 | -66 | -48 | -22 | 5 | 29 | 44 | 49 | 46 | 36 | 24 | 14 | 10 |
| 19-Jun | Su | | 15 | 27 | 42 | 57 | 66 | 64 | 50 | 28 | 0 | -28 | -51 | -63 | -63 | -52 | -32 | -7 | 18 | 37 | 47 | 47 | 41 | 29 | 16 | 8 |
| 20-Jun | M | | 6 | 13 | 26 | 42 | 55 | 60 | 55 | 40 | 18 | -7 | -30 | -47 | -54 | -50 | -35 | -14 | 9 | 30 | 43 | 48 | 45 | 35 | 22 | 10 |
| 21-Jun | Tu | | 3 | 4 | 12 | 24 | 39 | 49 | 52 | 45 | 30 | 10 | -11 | -29 | -40 | -41 | -33 | -17 | 3 | 23 | 39 | 47 | 47 | 40 | 29 | 16 |
| 22-Jun | W | | 4 | -1 | 1 | 9 | 21 | 33 | 41 | 42 | 35 | 21 | 5 | -11 | -24 | -29 | -26 | -16 | 0 | 17 | 34 | 45 | 49 | 45 | 36 | 23 |
| 23-Jun | Th | Last Quarter | 10 | 0 | -4 | -3 | 5 | 15 | 25 | 32 | 32 | 26 | 16 | 4 | -7 | -15 | -16 | -11 | 0 | 14 | 29 | 41 | 48 | 48 | 42 | 31 |
| 24-Jun | F | | 18 | 6 | -4 | -9 | -8 | -2 | 7 | 16 | 22 | 24 | 20 | 14 | 7 | 0 | -4 | -3 | 3 | 12 | 24 | 36 | 45 | 48 | 46 | 39 |
| 25-Jun | Sa | | 27 | 14 | 1 | -9 | -15 | -16 | -11 | -2 | 7 | 15 | 19 | 19 | 17 | 13 | 9 | 7 | 8 | 13 | 21 | 31 | 40 | 46 | 48 | 44 |
| 26-Jun | Su | | 36 | 24 | 9 | -5 | -17 | -24 | -25 | -20 | -11 | 0 | 10 | 18 | 22 | 23 | 21 | 18 | 16 | 17 | 20 | 27 | 35 | 42 | 47 | 47 |
| 27-Jun | M | | 43 | 33 | 20 | 4 | -13 | -27 | -35 | -36 | -30 | -18 | -4 | 10 | 21 | 28 | 30 | 29 | 26 | 22 | 22 | 24 | 29 | 37 | 43 | 48 |
| 28-Jun | Tu | | 48 | 42 | 31 | 15 | -4 | -24 | -39 | -47 | -46 | -37 | -22 | -4 | 14 | 27 | 35 | 37 | 35 | 30 | 25 | 24 | 26 | 31 | 39 | 46 |
| 29-Jun | W | | 51 | 50 | 43 | 28 | 8 | -14 | -36 | -51 | -57 | -54 | -41 | -21 | 0 | 20 | 35 | 42 | 42 | 38 | 31 | 26 | 24 | 26 | 33 | 42 |
| 30-Jun | Th | | 50 | 55 | 53 | 42 | 24 | 0 | -25 | -48 | -62 | -66 | -58 | -41 | -17 | 8 | 28 | 42 | 47 | 45 | 38 | 30 | 24 | 23 | 27 | 36 |

* Note that tide levels in the calendar are astronomical tide levels. During an intense low pressure system's approaching, tide levels can be higher by a few to tens centimeters than the values in the calendar.

Hourly Astronomical Tide Level at Kuji port, Iwate Pref. in 2011 (unit: centimeter) Issued by JMA

| Date | Moon | Time | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|---------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 1-Jul | F | New Moon | 47 | 56 | 60 | 55 | 41 | 18 | -9 | -36 | -58 | -70 | -70 | -58 | -36 | -9 | 17 | 37 | 48 | 50 | 45 | 36 | 27 | 21 | 22 | 28 |
| 2-Jul | Sa | | 39 | 52 | 62 | 64 | 55 | 37 | 11 | -18 | -45 | -65 | -73 | -68 | -52 | -26 | 2 | 27 | 45 | 52 | 50 | 42 | 31 | 22 | 18 | 20 |
| 3-Jul | Su | | 30 | 43 | 57 | 66 | 65 | 53 | 32 | 4 | -25 | -51 | -67 | -70 | -61 | -40 | -13 | 15 | 38 | 51 | 54 | 48 | 37 | 24 | 16 | 14 |
| 4-Jul | M | | 19 | 31 | 46 | 60 | 67 | 63 | 49 | 26 | -2 | -30 | -52 | -63 | -61 | -47 | -24 | 4 | 29 | 47 | 55 | 53 | 43 | 30 | 17 | 9 |
| 5-Jul | Tu | | 9 | 17 | 31 | 47 | 59 | 64 | 58 | 43 | 20 | -6 | -30 | -47 | -52 | -46 | -29 | -5 | 21 | 42 | 54 | 56 | 50 | 37 | 21 | 8 |
| 6-Jul | W | | 3 | 5 | 14 | 29 | 44 | 55 | 58 | 51 | 36 | 16 | -6 | -25 | -36 | -36 | -26 | -8 | 15 | 37 | 52 | 59 | 55 | 44 | 29 | 13 |
| 7-Jul | Th | | 1 | -4 | 0 | 10 | 23 | 37 | 47 | 48 | 42 | 30 | 14 | -3 | -15 | -21 | -17 | -5 | 13 | 33 | 50 | 60 | 60 | 52 | 38 | 21 |
| 8-Jul | F | First Quarter | 5 | -6 | -10 | -7 | 2 | 15 | 27 | 36 | 38 | 35 | 26 | 16 | 5 | -2 | -3 | 3 | 14 | 30 | 46 | 59 | 63 | 60 | 49 | 33 |
| 9-Jul | Sa | | 15 | -1 | -12 | -17 | -15 | -7 | 4 | 15 | 24 | 29 | 29 | 26 | 21 | 15 | 12 | 13 | 19 | 30 | 43 | 55 | 63 | 64 | 58 | 46 |
| 10-Jul | Su | | 29 | 11 | -5 | -18 | -24 | -25 | -19 | -9 | 3 | 14 | 22 | 27 | 29 | 29 | 27 | 25 | 26 | 31 | 39 | 49 | 59 | 64 | 64 | 57 |
| 11-Jul | M | | 44 | 28 | 9 | -9 | -24 | -33 | -36 | -31 | -21 | -8 | 6 | 19 | 29 | 35 | 37 | 37 | 35 | 34 | 37 | 43 | 51 | 59 | 63 | 63 |
| 12-Jul | Tu | | 57 | 45 | 28 | 8 | -13 | -31 | -43 | -47 | -42 | -31 | -15 | 4 | 21 | 34 | 42 | 45 | 43 | 39 | 37 | 37 | 42 | 49 | 57 | 63 |
| 13-Jul | W | | 64 | 59 | 47 | 29 | 6 | -18 | -39 | -52 | -56 | -51 | -37 | -16 | 6 | 26 | 41 | 49 | 50 | 45 | 39 | 34 | 33 | 37 | 45 | 55 |
| 14-Jul | Th | | 64 | 67 | 62 | 49 | 28 | 2 | -25 | -47 | -60 | -63 | -54 | -36 | -12 | 13 | 34 | 48 | 54 | 51 | 43 | 34 | 27 | 27 | 32 | 42 |
| 15-Jul | F | Full Moon | 55 | 66 | 70 | 64 | 48 | 24 | -4 | -33 | -54 | -65 | -64 | -52 | -30 | -3 | 23 | 42 | 53 | 55 | 48 | 37 | 25 | 19 | 20 | 28 |
| 16-Jul | Sa | | 41 | 57 | 69 | 71 | 63 | 44 | 18 | -12 | -39 | -58 | -65 | -60 | -43 | -17 | 10 | 34 | 50 | 56 | 53 | 42 | 27 | 16 | 11 | 14 |
| 17-Jul | Su | | 25 | 42 | 59 | 70 | 70 | 59 | 37 | 10 | -19 | -44 | -58 | -59 | -48 | -28 | -1 | 25 | 45 | 55 | 56 | 47 | 32 | 17 | 6 | 4 |
| 18-Jul | M | | 11 | 25 | 44 | 60 | 68 | 65 | 51 | 28 | 1 | -25 | -44 | -52 | -47 | -32 | -9 | 17 | 40 | 54 | 57 | 52 | 39 | 22 | 7 | -2 |
| 19-Jul | Tu | | -1 | 10 | 26 | 44 | 59 | 64 | 57 | 41 | 18 | -6 | -27 | -40 | -41 | -31 | -12 | 11 | 34 | 51 | 58 | 56 | 45 | 29 | 12 | -2 |
| 20-Jul | W | | -7 | -3 | 10 | 27 | 43 | 54 | 56 | 47 | 30 | 10 | -10 | -25 | -30 | -25 | -12 | 8 | 29 | 48 | 58 | 59 | 51 | 37 | 19 | 3 |
| 21-Jul | Th | | -8 | -10 | -3 | 10 | 26 | 40 | 47 | 46 | 36 | 21 | 5 | -9 | -17 | -17 | -8 | 7 | 26 | 43 | 56 | 60 | 56 | 44 | 28 | 11 |
| 22-Jul | F | | -3 | -11 | -11 | -4 | 8 | 22 | 33 | 39 | 36 | 28 | 16 | 4 | -4 | -6 | -2 | 9 | 24 | 39 | 52 | 59 | 58 | 50 | 36 | 20 |
| 23-Jul | Sa | Last Quarter | 5 | -7 | -13 | -12 | -6 | 5 | 16 | 26 | 30 | 28 | 23 | 15 | 9 | 5 | 6 | 13 | 23 | 35 | 47 | 55 | 58 | 54 | 44 | 30 |
| 24-Jul | Su | | 15 | 1 | -10 | -16 | -16 | -10 | -1 | 9 | 18 | 23 | 24 | 22 | 19 | 16 | 16 | 18 | 24 | 33 | 42 | 50 | 55 | 54 | 49 | 38 |
| 25-Jul | M | | 25 | 11 | -2 | -13 | -20 | -21 | -17 | -9 | 1 | 11 | 18 | 23 | 25 | 25 | 25 | 26 | 28 | 32 | 38 | 45 | 50 | 53 | 51 | 45 |
| 26-Jul | Tu | | 36 | 23 | 9 | -6 | -18 | -27 | -30 | -26 | -17 | -6 | 7 | 18 | 27 | 32 | 34 | 34 | 34 | 34 | 36 | 40 | 44 | 49 | 51 | 50 |
| 27-Jul | W | | 45 | 36 | 23 | 6 | -11 | -26 | -37 | -40 | -35 | -25 | -9 | 7 | 22 | 33 | 40 | 42 | 41 | 38 | 36 | 36 | 38 | 43 | 48 | 52 |
| 28-Jul | Th | | 52 | 48 | 38 | 22 | 3 | -18 | -36 | -47 | -50 | -43 | -29 | -9 | 11 | 29 | 42 | 48 | 48 | 43 | 38 | 34 | 33 | 36 | 42 | 49 |
| 29-Jul | F | | 56 | 58 | 53 | 40 | 21 | -3 | -27 | -46 | -57 | -57 | -47 | -28 | -4 | 20 | 38 | 50 | 53 | 49 | 42 | 34 | 28 | 28 | 33 | 42 |
| 30-Jul | Sa | | 53 | 62 | 64 | 57 | 41 | 18 | -10 | -36 | -55 | -64 | -60 | -44 | -21 | 7 | 31 | 48 | 56 | 55 | 47 | 36 | 26 | 21 | 23 | 31 |
| 31-Jul | Su | New Moon | 44 | 58 | 68 | 69 | 60 | 40 | 13 | -16 | -42 | -59 | -64 | -55 | -35 | -8 | 21 | 43 | 57 | 60 | 53 | 40 | 26 | 16 | 12 | 17 |

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Hourly Astronomical Tide Level at Kuji port, Iwate Pref. in 2011 (unit: centimeter) Issued by JMA

| Date | Moon | Time | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 1-Aug | M | 29 | 46 | 62 | 72 | 72 | 59 | 37 | 8 | -21 | -45 | -58 | -57 | -43 | -19 | 10 | 37 | 55 | 62 | 59 | 47 | 30 | 14 | 4 | 4 | |
| 2-Aug | Tu | 12 | 28 | 48 | 65 | 73 | 70 | 55 | 32 | 4 | -23 | -42 | -49 | -42 | -24 | 2 | 30 | 52 | 64 | 64 | 54 | 37 | 17 | 1 | -6 | |
| 3-Aug | W | -4 | 8 | 27 | 48 | 63 | 70 | 64 | 49 | 27 | 1 | -20 | -33 | -33 | -22 | -1 | 25 | 49 | 65 | 69 | 62 | 46 | 25 | 5 | -10 | |
| 4-Aug | Th | -15 | -9 | 5 | 25 | 44 | 58 | 62 | 56 | 42 | 22 | 2 | -13 | -18 | -13 | 2 | 23 | 46 | 64 | 72 | 69 | 56 | 37 | 14 | -6 | |
| 5-Aug | F | -18 | -20 | -12 | 2 | 21 | 38 | 49 | 52 | 46 | 35 | 20 | 7 | -1 | -1 | 8 | 24 | 43 | 61 | 73 | 75 | 66 | 49 | 28 | 6 | |
| 6-Aug | Sa | First Quarter | -12 | -22 | -22 | -15 | -2 | 14 | 29 | 38 | 40 | 37 | 30 | 22 | 15 | 12 | 17 | 27 | 41 | 57 | 70 | 76 | 72 | 60 | 42 | 22 |
| 7-Aug | Su | | 2 | -14 | -22 | -24 | -18 | -8 | 5 | 17 | 26 | 30 | 31 | 29 | 27 | 25 | 26 | 31 | 40 | 52 | 63 | 71 | 73 | 67 | 55 | 38 |
| 8-Aug | M | | 20 | 2 | -13 | -22 | -25 | -23 | -15 | -5 | 6 | 16 | 24 | 29 | 33 | 34 | 35 | 37 | 41 | 47 | 55 | 62 | 68 | 68 | 63 | 52 |
| 9-Aug | Tu | | 38 | 22 | 5 | -11 | -23 | -29 | -30 | -24 | -14 | -2 | 11 | 23 | 32 | 39 | 42 | 43 | 43 | 46 | 51 | 57 | 61 | 63 | 60 | |
| 10-Aug | W | | 53 | 41 | 26 | 7 | -11 | -26 | -35 | -37 | -33 | -22 | -6 | 11 | 26 | 39 | 47 | 49 | 47 | 43 | 40 | 40 | 43 | 49 | 55 | 60 |
| 11-Aug | Th | | 61 | 56 | 45 | 29 | 8 | -13 | -31 | -42 | -44 | -38 | -24 | -5 | 16 | 34 | 47 | 53 | 52 | 45 | 37 | 31 | 30 | 34 | 42 | 52 |
| 12-Aug | F | | 61 | 64 | 61 | 49 | 29 | 5 | -19 | -38 | -48 | -48 | -38 | -20 | 3 | 26 | 44 | 55 | 56 | 50 | 38 | 27 | 20 | 19 | 26 | 38 |
| 13-Aug | Sa | | 52 | 64 | 68 | 63 | 49 | 26 | -1 | -26 | -44 | -51 | -47 | -32 | -10 | 16 | 38 | 53 | 59 | 55 | 43 | 28 | 15 | 8 | 11 | 21 |
| 14-Aug | Su | Full Moon | 38 | 55 | 68 | 71 | 63 | 45 | 19 | -8 | -32 | -46 | -49 | -39 | -20 | 6 | 31 | 51 | 60 | 59 | 49 | 32 | 14 | 2 | -1 | 5 |
| 15-Aug | M | | 20 | 40 | 59 | 70 | 70 | 58 | 37 | 11 | -15 | -35 | -44 | -40 | -25 | -2 | 24 | 46 | 60 | 62 | 54 | 38 | 19 | 1 | -9 | -8 |
| 16-Aug | Tu | | 3 | 22 | 44 | 61 | 69 | 65 | 50 | 28 | 2 | -20 | -33 | -35 | -25 | -6 | 18 | 42 | 58 | 64 | 59 | 45 | 26 | 5 | -10 | -16 |
| 17-Aug | W | | -10 | 5 | 26 | 47 | 61 | 65 | 57 | 40 | 18 | -4 | -20 | -26 | -21 | -7 | 15 | 37 | 56 | 66 | 64 | 52 | 34 | 12 | -7 | -18 |
| 18-Aug | Th | | -19 | -9 | 8 | 29 | 48 | 58 | 58 | 47 | 30 | 11 | -6 | -15 | -15 | -4 | 13 | 34 | 53 | 65 | 67 | 58 | 42 | 21 | 1 | -15 |
| 19-Aug | F | | -22 | -19 | -6 | 12 | 31 | 46 | 52 | 48 | 37 | 22 | 7 | -3 | -6 | 0 | 13 | 31 | 49 | 62 | 67 | 63 | 49 | 31 | 10 | -8 |
| 20-Aug | Sa | | -19 | -22 | -16 | -2 | 14 | 30 | 41 | 44 | 39 | 29 | 18 | 8 | 3 | 6 | 15 | 29 | 44 | 58 | 65 | 64 | 55 | 39 | 21 | 2 |
| 21-Aug | Su | | -12 | -20 | -20 | -13 | -1 | 14 | 26 | 34 | 36 | 32 | 25 | 18 | 13 | 13 | 19 | 28 | 41 | 52 | 60 | 63 | 58 | 46 | 31 | 14 |
| 22-Aug | M | Last Quarter | -2 | -13 | -19 | -18 | -12 | -2 | 9 | 20 | 27 | 29 | 28 | 25 | 22 | 22 | 24 | 30 | 38 | 47 | 55 | 59 | 57 | 51 | 39 | 25 |
| 23-Aug | Tu | | 11 | -2 | -12 | -18 | -19 | -16 | -8 | 2 | 12 | 20 | 25 | 28 | 29 | 30 | 32 | 34 | 38 | 44 | 49 | 53 | 55 | 52 | 46 | 36 |
| 24-Aug | W | | 25 | 12 | -1 | -12 | -21 | -24 | -22 | -16 | -5 | 6 | 17 | 26 | 33 | 37 | 39 | 40 | 41 | 42 | 44 | 47 | 49 | 51 | 49 | 45 |
| 25-Aug | Th | | 38 | 28 | 14 | 0 | -15 | -26 | -32 | -31 | -24 | -12 | 3 | 18 | 31 | 40 | 45 | 46 | 44 | 42 | 40 | 40 | 42 | 45 | 48 | 51 |
| 26-Aug | F | | 49 | 44 | 33 | 17 | -1 | -19 | -34 | -41 | -39 | -30 | -14 | 6 | 25 | 40 | 49 | 52 | 49 | 43 | 37 | 33 | 32 | 35 | 42 | 49 |
| 27-Aug | Sa | | 56 | 57 | 51 | 38 | 19 | -4 | -26 | -41 | -48 | -44 | -30 | -9 | 14 | 35 | 50 | 56 | 55 | 47 | 36 | 27 | 21 | 22 | 29 | 41 |
| 28-Aug | Su | | 53 | 63 | 65 | 58 | 42 | 18 | -8 | -31 | -46 | -50 | -42 | -23 | 2 | 27 | 48 | 59 | 60 | 52 | 39 | 24 | 12 | 8 | 12 | 24 |
| 29-Aug | M | New Moon | 41 | 59 | 70 | 72 | 62 | 43 | 16 | -12 | -34 | -46 | -45 | -32 | -9 | 19 | 44 | 60 | 65 | 59 | 44 | 25 | 7 | -4 | -5 | 4 |
| 30-Aug | Tu | | 22 | 43 | 63 | 75 | 75 | 63 | 41 | 13 | -14 | -32 | -39 | -33 | -14 | 11 | 39 | 60 | 69 | 66 | 53 | 32 | 8 | -10 | -18 | -15 |
| 31-Aug | W | | -2 | 21 | 45 | 65 | 75 | 73 | 59 | 36 | 10 | -12 | -25 | -26 | -14 | 8 | 34 | 58 | 72 | 74 | 63 | 42 | 17 | -8 | -25 | -29 |

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| Date | Moon | Time | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 1-Sep | Th | -22 | -4 | 20 | 45 | 64 | 71 | 67 | 52 | 32 | 10 | -7 | -13 | -7 | 9 | 31 | 55 | 73 | 79 | 73 | 55 | 30 | 2 | -21 | -34 | |
| 2-Sep | F | -35 | -24 | -4 | 20 | 43 | 58 | 63 | 57 | 45 | 28 | 12 | 2 | 3 | 13 | 30 | 52 | 71 | 82 | 80 | 67 | 45 | 18 | -8 | -28 | |
| 3-Sep | Sa | -37 | -35 | -23 | -4 | 18 | 37 | 49 | 52 | 47 | 38 | 26 | 17 | 14 | 19 | 31 | 48 | 66 | 79 | 83 | 76 | 59 | 36 | 10 | -13 | |
| 4-Sep | Su | -29 | -35 | -31 | -20 | -4 | 14 | 29 | 38 | 41 | 39 | 34 | 28 | 24 | 26 | 33 | 45 | 59 | 71 | 79 | 78 | 68 | 50 | 29 | 7 | |
| 5-Sep | M | First Quarter | -12 | -24 | -29 | -27 | -18 | -6 | 8 | 20 | 28 | 32 | 34 | 33 | 32 | 32 | 35 | 42 | 51 | 61 | 69 | 73 | 69 | 59 | 45 | 27 |
| 6-Sep | Tu | | 10 | -6 | -17 | -23 | -23 | -19 | -10 | 1 | 12 | 21 | 28 | 34 | 37 | 38 | 39 | 41 | 45 | 50 | 56 | 61 | 63 | 61 | 54 | 43 |
| 7-Sep | W | | 30 | 16 | 1 | -11 | -20 | -23 | -22 | -15 | -5 | 7 | 19 | 30 | 38 | 43 | 45 | 43 | 42 | 41 | 43 | 46 | 50 | 53 | 54 | 52 |
| 8-Sep | Th | | 46 | 36 | 22 | 7 | -8 | -20 | -26 | -26 | -20 | -8 | 7 | 22 | 36 | 45 | 49 | 48 | 42 | 36 | 32 | 31 | 34 | 40 | 47 | 52 |
| 9-Sep | F | | 54 | 51 | 42 | 27 | 9 | -9 | -23 | -30 | -21 | -6 | 12 | 30 | 45 | 53 | 53 | 47 | 36 | 25 | 18 | 17 | 22 | 32 | 44 | |
| 10-Sep | Sa | | 54 | 59 | 56 | 46 | 28 | 7 | -13 | -28 | -33 | -17 | 2 | 23 | 41 | 54 | 58 | 52 | 40 | 24 | 11 | 4 | 5 | 14 | 29 | |
| 11-Sep | Su | | 46 | 59 | 64 | 60 | 46 | 25 | 2 | -18 | -31 | -33 | -25 | -8 | 14 | 36 | 53 | 60 | 58 | 46 | 28 | 9 | -4 | -9 | -3 | 11 |
| 12-Sep | M | Full Moon | 31 | 51 | 64 | 67 | 59 | 42 | 19 | -4 | -22 | -30 | -27 | -14 | 7 | 30 | 50 | 61 | 62 | 52 | 34 | 12 | -7 | -18 | -18 | -7 |
| 13-Sep | Tu | | 13 | 36 | 56 | 67 | 67 | 55 | 35 | 12 | -9 | -22 | -24 | -15 | 2 | 25 | 46 | 61 | 65 | 58 | 42 | 19 | -4 | -21 | -28 | -22 |
| 14-Sep | W | | -5 | 18 | 42 | 60 | 67 | 62 | 48 | 27 | 6 | -11 | -18 | -14 | 0 | 20 | 42 | 60 | 67 | 63 | 49 | 27 | 3 | -19 | -32 | -32 |
| 15-Sep | Th | | -21 | 0 | 25 | 47 | 61 | 64 | 55 | 39 | 19 | 2 | -9 | -9 | 0 | 18 | 38 | 57 | 68 | 67 | 56 | 36 | 12 | -12 | -30 | -37 |
| 16-Sep | F | | -31 | -15 | 7 | 31 | 50 | 59 | 57 | 46 | 30 | 13 | 1 | -3 | 3 | 16 | 34 | 53 | 66 | 69 | 62 | 45 | 22 | -2 | -23 | -35 |
| 17-Sep | Sa | | -36 | -26 | -8 | 15 | 36 | 50 | 54 | 49 | 38 | 23 | 11 | 5 | 7 | 16 | 31 | 48 | 62 | 68 | 65 | 52 | 32 | 9 | -12 | -28 |
| 18-Sep | Su | | -35 | -32 | -19 | -1 | 20 | 36 | 46 | 47 | 41 | 31 | 21 | 13 | 12 | 18 | 29 | 43 | 56 | 65 | 65 | 57 | 41 | 21 | 0 | -18 |
| 19-Sep | M | | -29 | -31 | -25 | -13 | 4 | 21 | 33 | 40 | 40 | 35 | 28 | 22 | 19 | 22 | 29 | 40 | 51 | 59 | 63 | 59 | 47 | 31 | 13 | -5 |
| 20-Sep | Tu | Last Quarter | -18 | -26 | -26 | -20 | -9 | 4 | 18 | 28 | 34 | 34 | 32 | 29 | 27 | 28 | 31 | 38 | 46 | 53 | 58 | 57 | 51 | 40 | 25 | 10 |
| 21-Sep | W | | -4 | -15 | -21 | -23 | -19 | -10 | 1 | 12 | 22 | 29 | 32 | 34 | 34 | 36 | 39 | 43 | 47 | 51 | 52 | 50 | 45 | 36 | 24 | |
| 22-Sep | Th | | 12 | 0 | -11 | -18 | -22 | -21 | -15 | -5 | 7 | 18 | 28 | 35 | 39 | 41 | 41 | 41 | 41 | 41 | 42 | 44 | 45 | 45 | 42 | 37 |
| 23-Sep | F | | 29 | 18 | 6 | -6 | -17 | -24 | -25 | -20 | -10 | 4 | 18 | 31 | 41 | 46 | 47 | 44 | 40 | 36 | 33 | 33 | 35 | 39 | 43 | 45 |
| 24-Sep | Sa | | 43 | 38 | 27 | 12 | -4 | -18 | -28 | -30 | -24 | -11 | 6 | 24 | 39 | 49 | 52 | 49 | 42 | 32 | 24 | 20 | 20 | 26 | 34 | 44 |
| 25-Sep | Su | | 51 | 53 | 48 | 35 | 17 | -3 | -20 | -30 | -31 | -23 | -6 | 15 | 35 | 50 | 57 | 55 | 46 | 32 | 18 | 7 | 3 | 7 | 18 | 33 |
| 26-Sep | M | | 48 | 60 | 63 | 56 | 41 | 19 | -3 | -21 | -30 | -27 | -15 | 6 | 29 | 49 | 60 | 62 | 53 | 37 | 17 | -2 | -12 | -14 | -5 | 12 |
| 27-Sep | Tu | New Moon | 34 | 54 | 67 | 70 | 62 | 43 | 20 | -3 | -19 | -24 | -17 | 0 | 23 | 46 | 63 | 69 | 62 | 46 | 22 | -3 | -22 | -31 | -28 | -13 |
| 28-Sep | W | | 10 | 37 | 59 | 72 | 73 | 63 | 43 | 19 | -1 | -13 | -13 | -2 | 18 | 43 | 63 | 74 | 72 | 58 | 34 | 5 | -22 | -40 | -45 | -37 |
| 29-Sep | Th | | -17 | 11 | 39 | 62 | 73 | 71 | 59 | 40 | 19 | 3 | -3 | 2 | 17 | 39 | 61 | 77 | 80 | 70 | 49 | 19 | -12 | -38 | -52 | -53 |
| 30-Sep | F | | -40 | -16 | 13 | 41 | 60 | 68 | 65 | 53 | 36 | 19 | 9 | 9 | 18 | 36 | 57 | 75 | 85 | 80 | 64 | 37 | 6 | -24 | -47 | -56 |

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Hourly Astronomical Tide Level at Kuji port, Iwate Pref. in 2011 (unit: centimeter) Issued by JMA

| Date | Moon | Time | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 1-Oct | Sa | -53 | -37 | -12 | 15 | 40 | 55 | 61 | 57 | 46 | 33 | 21 | 17 | 21 | 34 | 51 | 69 | 83 | 85 | 75 | 54 | 26 | -4 | -30 | -48 | |
| 2-Oct | Su | -53 | -47 | -30 | -8 | 16 | 36 | 48 | 51 | 48 | 40 | 31 | 25 | 25 | 32 | 45 | 60 | 75 | 82 | 79 | 66 | 44 | 18 | -8 | -30 | |
| 3-Oct | M | -43 | -45 | -38 | -23 | -4 | 15 | 31 | 40 | 43 | 41 | 37 | 32 | 29 | 32 | 40 | 51 | 63 | 72 | 75 | 69 | 55 | 36 | 14 | -7 | |
| 4-Oct | Tu | First Quarter | -23 | -33 | -34 | -28 | -17 | -2 | 13 | 25 | 33 | 37 | 38 | 36 | 34 | 34 | 36 | 42 | 50 | 57 | 63 | 64 | 58 | 47 | 32 | 15 |
| 5-Oct | W | | -1 | -14 | -22 | -24 | -21 | -13 | -2 | 10 | 21 | 30 | 35 | 39 | 39 | 38 | 36 | 36 | 38 | 42 | 47 | 51 | 52 | 49 | 42 | 32 |
| 6-Oct | Th | | 20 | 7 | -4 | -13 | -17 | -17 | -12 | -3 | 9 | 20 | 31 | 38 | 43 | 43 | 40 | 35 | 31 | 29 | 30 | 33 | 38 | 42 | 43 | 41 |
| 7-Oct | F | | 36 | 27 | 16 | 3 | -7 | -14 | -16 | -12 | -3 | 10 | 24 | 36 | 44 | 48 | 46 | 39 | 29 | 21 | 16 | 15 | 20 | 27 | 36 | 42 |
| 8-Oct | Sa | | 44 | 42 | 34 | 22 | 7 | -6 | -14 | -16 | -11 | 0 | 16 | 31 | 44 | 51 | 51 | 45 | 32 | 18 | 6 | 0 | 1 | 9 | 21 | 34 |
| 9-Oct | Su | | 45 | 50 | 48 | 39 | 24 | 8 | -7 | -15 | -15 | -7 | 7 | 25 | 41 | 52 | 56 | 51 | 38 | 21 | 3 | -10 | -15 | -10 | 3 | 20 |
| 10-Oct | M | | 38 | 51 | 56 | 52 | 40 | 23 | 5 | -8 | -14 | -10 | 1 | 18 | 37 | 52 | 59 | 57 | 46 | 27 | 5 | -15 | -26 | -27 | -17 | 2 |
| 11-Oct | Tu | | 24 | 44 | 57 | 60 | 53 | 38 | 20 | 2 | -8 | -10 | -2 | 12 | 31 | 49 | 60 | 62 | 53 | 34 | 11 | -13 | -31 | -38 | -33 | -17 |
| 12-Oct | W | Full Moon | 6 | 31 | 51 | 61 | 61 | 50 | 34 | 15 | 0 | -6 | -3 | 9 | 26 | 45 | 59 | 65 | 59 | 43 | 19 | -7 | -30 | -44 | -45 | -34 |
| 13-Oct | Th | | -13 | 14 | 39 | 56 | 63 | 58 | 45 | 27 | 11 | 1 | -1 | 7 | 22 | 40 | 57 | 66 | 64 | 51 | 29 | 2 | -24 | -43 | -52 | -46 |
| 14-Oct | F | | -29 | -4 | 23 | 46 | 59 | 60 | 52 | 38 | 21 | 9 | 3 | 7 | 19 | 36 | 53 | 64 | 67 | 58 | 39 | 14 | -14 | -37 | -51 | -53 |
| 15-Oct | Sa | | -42 | -21 | 6 | 31 | 50 | 58 | 55 | 45 | 31 | 17 | 9 | 9 | 17 | 31 | 47 | 61 | 67 | 63 | 48 | 25 | -1 | -26 | -45 | -53 |
| 16-Oct | Su | | -48 | -33 | -10 | 15 | 37 | 50 | 54 | 49 | 38 | 26 | 16 | 13 | 17 | 28 | 42 | 56 | 65 | 65 | 55 | 36 | 12 | -13 | -34 | -47 |
| 17-Oct | M | | -49 | -40 | -23 | 0 | 22 | 39 | 48 | 49 | 42 | 33 | 24 | 19 | 19 | 26 | 37 | 50 | 60 | 63 | 58 | 44 | 24 | 2 | -20 | -36 |
| 18-Oct | Tu | | -44 | -42 | -31 | -14 | 6 | 25 | 38 | 44 | 43 | 38 | 31 | 25 | 23 | 27 | 34 | 44 | 53 | 59 | 58 | 49 | 34 | 15 | -4 | -21 |
| 19-Oct | W | | -33 | -37 | -34 | -23 | -8 | 9 | 24 | 35 | 40 | 40 | 36 | 32 | 29 | 29 | 33 | 39 | 46 | 52 | 54 | 50 | 41 | 27 | 11 | -4 |
| 20-Oct | Th | Last Quarter | -18 | -27 | -30 | -27 | -18 | -5 | 9 | 22 | 32 | 37 | 39 | 38 | 36 | 34 | 33 | 35 | 38 | 42 | 45 | 46 | 42 | 35 | 25 | 13 |
| 21-Oct | F | | 1 | -10 | -19 | -23 | -22 | -15 | -5 | 8 | 21 | 31 | 38 | 42 | 41 | 39 | 36 | 33 | 31 | 31 | 33 | 35 | 37 | 37 | 34 | 28 |
| 22-Oct | Sa | | 20 | 10 | -1 | -11 | -17 | -18 | -14 | -4 | 9 | 23 | 35 | 43 | 46 | 45 | 40 | 33 | 25 | 20 | 18 | 19 | 24 | 29 | 34 | 37 |
| 23-Oct | Su | | 36 | 30 | 21 | 8 | -4 | -13 | -16 | -12 | -2 | 13 | 29 | 42 | 49 | 51 | 46 | 36 | 23 | 11 | 3 | 0 | 4 | 13 | 24 | 36 |
| 24-Oct | M | | 44 | 46 | 42 | 31 | 16 | 2 | -9 | -12 | -7 | 5 | 22 | 39 | 51 | 57 | 54 | 43 | 26 | 7 | -9 | -18 | -19 | -11 | 4 | 23 |
| 25-Oct | Tu | | 40 | 53 | 57 | 52 | 39 | 22 | 6 | -5 | -6 | 1 | 16 | 35 | 52 | 62 | 63 | 53 | 35 | 11 | -13 | -31 | -39 | -36 | -22 | -1 |
| 26-Oct | W | | 24 | 46 | 60 | 64 | 58 | 43 | 25 | 9 | 1 | 3 | 13 | 30 | 50 | 65 | 71 | 65 | 48 | 23 | -7 | -33 | -51 | -56 | -48 | -29 |
| 27-Oct | Th | New Moon | -1 | 27 | 51 | 65 | 67 | 59 | 44 | 26 | 13 | 8 | 13 | 27 | 46 | 64 | 76 | 76 | 63 | 39 | 8 | -24 | -51 | -66 | -66 | -54 |
| 28-Oct | F | | -30 | 1 | 31 | 54 | 66 | 66 | 57 | 42 | 27 | 17 | 16 | 25 | 40 | 59 | 76 | 82 | 76 | 57 | 29 | -5 | -38 | -62 | -73 | -69 |
| 29-Oct | Sa | | -52 | -26 | 6 | 34 | 54 | 63 | 61 | 52 | 38 | 26 | 21 | 24 | 35 | 52 | 69 | 82 | 83 | 71 | 48 | 17 | -16 | -46 | -66 | -72 |
| 30-Oct | Su | | -64 | -45 | -18 | 11 | 35 | 51 | 57 | 55 | 46 | 35 | 26 | 24 | 30 | 43 | 59 | 74 | 82 | 78 | 63 | 38 | 8 | -22 | -47 | -62 |
| 31-Oct | M | | -64 | -54 | -35 | -10 | 15 | 35 | 47 | 51 | 48 | 40 | 32 | 26 | 27 | 34 | 47 | 61 | 72 | 76 | 69 | 52 | 29 | 2 | -23 | -43 |

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Hourly Astronomical Tide Level at Kuji port, Iwate Pref. in 2011 (unit: centimeter) Issued by JMA

| Date | Moon | Time | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|---------------|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 1-Nov | Tu | -53 | -52 | -41 | -23 | -2 | 19 | 34 | 43 | 45 | 43 | 37 | 30 | 27 | 28 | 35 | 46 | 57 | 65 | 65 | 57 | 42 | 22 | 0 | -20 | |
| 2-Nov | W | -34 | -41 | -38 | -28 | -13 | 5 | 21 | 33 | 40 | 42 | 40 | 35 | 29 | 26 | 27 | 32 | 40 | 48 | 53 | 53 | 46 | 34 | 18 | 2 | |
| 3-Nov | Th | First Quarter | -13 | -23 | -27 | -25 | -17 | -5 | 10 | 23 | 34 | 40 | 42 | 40 | 35 | 29 | 24 | 23 | 25 | 29 | 35 | 40 | 40 | 37 | 29 | 19 |
| 4-Nov | F | | 7 | -4 | -12 | -16 | -15 | -9 | 2 | 14 | 26 | 36 | 41 | 43 | 41 | 35 | 27 | 19 | 15 | 14 | 16 | 21 | 27 | 31 | 31 | 28 |
| 5-Nov | Sa | | 23 | 15 | 6 | -2 | -7 | -7 | -3 | 6 | 18 | 30 | 40 | 45 | 46 | 42 | 33 | 21 | 10 | 2 | -1 | 2 | 8 | 17 | 25 | 30 |
| 6-Nov | Su | | 32 | 29 | 23 | 14 | 5 | -1 | -2 | 2 | 11 | 23 | 35 | 45 | 49 | 48 | 40 | 27 | 11 | -3 | -13 | -16 | -11 | -1 | 12 | 25 |
| 7-Nov | M | | 34 | 38 | 36 | 29 | 19 | 9 | 2 | 1 | 7 | 17 | 30 | 42 | 51 | 53 | 48 | 35 | 17 | -3 | -19 | -29 | -29 | -21 | -6 | 12 |
| 8-Nov | Tu | | 29 | 40 | 45 | 42 | 33 | 21 | 10 | 4 | 5 | 12 | 24 | 38 | 49 | 56 | 54 | 43 | 25 | 3 | -20 | -36 | -43 | -39 | -25 | -5 |
| 9-Nov | W | | 17 | 36 | 47 | 50 | 45 | 34 | 21 | 10 | 6 | 9 | 19 | 32 | 46 | 56 | 58 | 51 | 35 | 12 | -14 | -37 | -51 | -53 | -44 | -24 |
| 10-Nov | Th | | 0 | 25 | 43 | 53 | 52 | 44 | 31 | 18 | 10 | 9 | 15 | 27 | 41 | 54 | 61 | 57 | 44 | 22 | -5 | -31 | -52 | -61 | -57 | -42 |
| 11-Nov | F | Full Moon | -18 | 9 | 33 | 50 | 55 | 51 | 41 | 27 | 16 | 11 | 13 | 22 | 36 | 50 | 60 | 62 | 53 | 33 | 7 | -21 | -46 | -62 | -66 | -56 |
| 12-Nov | Sa | | -35 | -8 | 19 | 41 | 53 | 55 | 48 | 36 | 23 | 15 | 13 | 19 | 30 | 45 | 57 | 63 | 59 | 44 | 21 | -8 | -35 | -56 | -67 | -64 |
| 13-Nov | Su | | -49 | -25 | 3 | 28 | 46 | 54 | 52 | 42 | 30 | 20 | 15 | 17 | 26 | 39 | 52 | 62 | 63 | 53 | 33 | 7 | -21 | -45 | -62 | -66 |
| 14-Nov | M | | -58 | -39 | -13 | 13 | 35 | 48 | 52 | 47 | 37 | 27 | 19 | 17 | 22 | 33 | 46 | 57 | 62 | 58 | 44 | 22 | -5 | -30 | -51 | -61 |
| 15-Nov | Tu | | -61 | -48 | -27 | -2 | 22 | 39 | 48 | 49 | 43 | 33 | 25 | 20 | 21 | 28 | 39 | 50 | 58 | 59 | 50 | 34 | 11 | -13 | -35 | -51 |
| 16-Nov | W | | -56 | -51 | -37 | -16 | 7 | 27 | 41 | 47 | 46 | 39 | 31 | 24 | 22 | 25 | 32 | 42 | 50 | 55 | 52 | 42 | 25 | 4 | -17 | -35 |
| 17-Nov | Th | | -45 | -47 | -40 | -25 | -6 | 14 | 31 | 42 | 45 | 43 | 37 | 30 | 25 | 23 | 26 | 33 | 40 | 46 | 48 | 44 | 34 | 19 | 2 | -15 |
| 18-Nov | F | | -29 | -36 | -36 | -28 | -15 | 2 | 19 | 34 | 42 | 45 | 42 | 36 | 30 | 24 | 22 | 24 | 28 | 33 | 37 | 39 | 36 | 28 | 17 | 4 |
| 19-Nov | Sa | Last Quarter | -8 | -19 | -24 | -24 | -17 | -6 | 9 | 24 | 37 | 44 | 45 | 42 | 36 | 27 | 20 | 16 | 15 | 17 | 21 | 25 | 29 | 29 | 27 | 20 |
| 20-Nov | Su | | 12 | 2 | -6 | -12 | -12 | -7 | 3 | 16 | 30 | 41 | 47 | 47 | 43 | 34 | 23 | 12 | 4 | 0 | 1 | 5 | 13 | 20 | 26 | 29 |
| 21-Nov | M | | 28 | 23 | 15 | 6 | 0 | -2 | 2 | 11 | 24 | 37 | 47 | 52 | 50 | 42 | 29 | 14 | -2 | -13 | -19 | -18 | -11 | 1 | 15 | 27 |
| 22-Nov | Tu | | 35 | 37 | 34 | 27 | 17 | 10 | 7 | 10 | 19 | 32 | 45 | 55 | 58 | 53 | 41 | 22 | 1 | -19 | -33 | -39 | -36 | -25 | -7 | 12 |
| 23-Nov | W | | 30 | 42 | 47 | 45 | 36 | 25 | 17 | 14 | 18 | 28 | 41 | 54 | 63 | 63 | 54 | 36 | 12 | -14 | -38 | -53 | -58 | -51 | -35 | -12 |
| 24-Nov | Th | | 13 | 35 | 49 | 54 | 51 | 42 | 30 | 22 | 20 | 25 | 36 | 51 | 64 | 70 | 67 | 53 | 30 | 1 | -30 | -55 | -69 | -71 | -60 | -39 |
| 25-Nov | F | New Moon | -11 | 17 | 40 | 54 | 58 | 54 | 43 | 31 | 24 | 24 | 31 | 44 | 59 | 72 | 76 | 68 | 50 | 22 | -11 | -43 | -68 | -80 | -78 | -63 |
| 26-Nov | Sa | | -38 | -7 | 22 | 44 | 56 | 59 | 52 | 41 | 30 | 24 | 26 | 35 | 50 | 66 | 77 | 78 | 66 | 43 | 12 | -22 | -53 | -75 | -83 | -77 |
| 27-Nov | Su | | -59 | -31 | 0 | 27 | 47 | 56 | 56 | 48 | 36 | 27 | 23 | 28 | 39 | 54 | 69 | 78 | 76 | 60 | 35 | 3 | -30 | -58 | -76 | -80 |
| 28-Nov | M | | -70 | -49 | -21 | 8 | 32 | 48 | 54 | 51 | 42 | 31 | 23 | 21 | 28 | 40 | 56 | 69 | 75 | 69 | 52 | 26 | -5 | -35 | -58 | -71 |
| 29-Nov | Tu | | -70 | -58 | -36 | -9 | 17 | 37 | 48 | 50 | 45 | 36 | 25 | 19 | 19 | 27 | 39 | 54 | 65 | 68 | 59 | 41 | 17 | -10 | -35 | -53 |
| 30-Nov | W | | -60 | -56 | -42 | -20 | 4 | 25 | 40 | 47 | 46 | 40 | 30 | 20 | 15 | 17 | 24 | 36 | 48 | 56 | 57 | 48 | 31 | 10 | -13 | -32 |

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Hourly Astronomical Tide Level at Kuji port, Iwate Pref. in 2011 (unit: centimeter) Issued by JMA

| Date | Moon | Time | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|---------------|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 1-Dec | Th | | -44 | -47 | -40 | -25 | -5 | 15 | 32 | 43 | 46 | 43 | 36 | 25 | 16 | 11 | 13 | 19 | 29 | 39 | 45 | 44 | 36 | 22 | 5 | -11 |
| 2-Dec | F | First Quarter | -25 | -32 | -31 | -23 | -9 | 8 | 25 | 38 | 45 | 45 | 41 | 32 | 21 | 12 | 7 | 7 | 12 | 19 | 27 | 32 | 32 | 26 | 17 | 5 |
| 3-Dec | Sa | | -7 | -15 | -19 | -16 | -9 | 4 | 18 | 32 | 42 | 46 | 45 | 39 | 29 | 18 | 8 | 1 | -1 | 1 | 7 | 15 | 21 | 23 | 20 | 15 |
| 4-Dec | Su | | 9 | 1 | -4 | -6 | -4 | 3 | 13 | 25 | 37 | 44 | 47 | 44 | 37 | 26 | 13 | 1 | -8 | -13 | -11 | -5 | 3 | 11 | 17 | 19 |
| 5-Dec | M | | 18 | 15 | 11 | 6 | 4 | 6 | 11 | 20 | 31 | 40 | 46 | 47 | 43 | 34 | 21 | 6 | -9 | -21 | -26 | -24 | -16 | -5 | 6 | 16 |
| 6-Dec | Tu | | 22 | 25 | 23 | 19 | 15 | 12 | 12 | 17 | 25 | 34 | 43 | 48 | 48 | 42 | 31 | 14 | -5 | -22 | -35 | -39 | -35 | -25 | -10 | 6 |
| 7-Dec | W | | 20 | 29 | 32 | 31 | 26 | 20 | 16 | 16 | 20 | 28 | 37 | 46 | 50 | 48 | 40 | 24 | 4 | -18 | -37 | -49 | -51 | -44 | -28 | -9 |
| 8-Dec | Th | | 11 | 26 | 36 | 39 | 36 | 29 | 21 | 17 | 17 | 23 | 31 | 41 | 49 | 52 | 48 | 35 | 15 | -9 | -33 | -52 | -61 | -59 | -47 | -27 |
| 9-Dec | F | | -4 | 18 | 34 | 42 | 43 | 37 | 28 | 21 | 17 | 19 | 25 | 36 | 46 | 54 | 54 | 45 | 28 | 4 | -23 | -48 | -64 | -70 | -63 | -46 |
| 10-Dec | Sa | Full Moon | -21 | 5 | 27 | 41 | 47 | 44 | 36 | 26 | 19 | 16 | 20 | 29 | 41 | 52 | 57 | 54 | 40 | 18 | -10 | -37 | -60 | -73 | -74 | -61 |
| 11-Dec | Su | | -39 | -12 | 15 | 35 | 46 | 48 | 42 | 32 | 22 | 17 | 17 | 23 | 35 | 47 | 57 | 59 | 51 | 32 | 7 | -23 | -50 | -69 | -77 | -72 |
| 12-Dec | M | | -55 | -29 | -1 | 25 | 42 | 49 | 47 | 39 | 28 | 19 | 15 | 18 | 27 | 40 | 53 | 60 | 58 | 45 | 23 | -5 | -34 | -59 | -73 | -76 |
| 13-Dec | Tu | | -65 | -44 | -16 | 11 | 33 | 46 | 49 | 44 | 34 | 23 | 16 | 15 | 21 | 32 | 45 | 56 | 60 | 54 | 37 | 13 | -15 | -42 | -62 | -72 |
| 14-Dec | W | | -69 | -54 | -30 | -3 | 22 | 40 | 49 | 48 | 40 | 29 | 19 | 14 | 15 | 23 | 35 | 48 | 56 | 56 | 47 | 28 | 4 | -22 | -45 | -61 |
| 15-Dec | Th | | -65 | -57 | -39 | -15 | 11 | 32 | 45 | 49 | 45 | 35 | 24 | 15 | 12 | 15 | 24 | 35 | 46 | 52 | 50 | 38 | 20 | -2 | -25 | -43 |
| 16-Dec | F | | -53 | -52 | -42 | -23 | 0 | 23 | 40 | 48 | 48 | 41 | 30 | 19 | 11 | 9 | 13 | 21 | 31 | 40 | 44 | 41 | 30 | 14 | -5 | -22 |
| 17-Dec | Sa | | -35 | -40 | -36 | -24 | -6 | 15 | 33 | 45 | 50 | 46 | 37 | 25 | 13 | 5 | 3 | 7 | 14 | 23 | 31 | 34 | 32 | 24 | 12 | -2 |
| 18-Dec | Su | Last Quarter | -15 | -23 | -24 | -19 | -7 | 10 | 27 | 42 | 50 | 50 | 44 | 33 | 19 | 7 | -2 | -5 | -3 | 2 | 11 | 18 | 23 | 24 | 20 | 13 |
| 19-Dec | M | | 5 | -3 | -8 | -8 | -2 | 9 | 23 | 37 | 48 | 53 | 50 | 42 | 29 | 14 | 0 | -11 | -17 | -17 | -13 | -4 | 5 | 13 | 18 | 20 |
| 20-Dec | Tu | | 19 | 15 | 11 | 7 | 7 | 12 | 21 | 33 | 44 | 53 | 55 | 51 | 41 | 26 | 8 | -9 | -23 | -32 | -34 | -29 | -19 | -7 | 6 | 17 |
| 21-Dec | W | | 24 | 27 | 27 | 23 | 20 | 19 | 22 | 29 | 39 | 49 | 56 | 58 | 52 | 40 | 23 | 2 | -19 | -37 | -48 | -50 | -45 | -32 | -15 | 2 |
| 22-Dec | Th | | 18 | 30 | 36 | 37 | 33 | 28 | 26 | 28 | 34 | 43 | 53 | 60 | 61 | 55 | 41 | 20 | -5 | -30 | -51 | -63 | -65 | -57 | -41 | -20 |
| 23-Dec | F | | 3 | 23 | 37 | 44 | 43 | 38 | 32 | 28 | 29 | 35 | 45 | 56 | 64 | 65 | 57 | 41 | 16 | -13 | -41 | -63 | -75 | -76 | -65 | -45 |
| 24-Dec | Sa | | -19 | 8 | 29 | 43 | 49 | 46 | 38 | 30 | 26 | 27 | 35 | 46 | 59 | 68 | 68 | 59 | 39 | 11 | -21 | -51 | -73 | -83 | -81 | -66 |
| 25-Dec | Su | New Moon | -41 | -12 | 15 | 36 | 48 | 50 | 45 | 35 | 25 | 21 | 24 | 33 | 47 | 61 | 70 | 70 | 57 | 34 | 4 | -29 | -59 | -78 | -85 | -79 |
| 26-Dec | M | | -60 | -32 | -2 | 24 | 42 | 50 | 48 | 40 | 28 | 18 | 15 | 20 | 31 | 47 | 63 | 71 | 68 | 52 | 27 | -4 | -37 | -63 | -79 | -81 |
| 27-Dec | Tu | | -70 | -47 | -19 | 10 | 33 | 46 | 49 | 44 | 32 | 19 | 10 | 9 | 16 | 30 | 47 | 62 | 68 | 62 | 44 | 18 | -13 | -42 | -64 | -73 |
| 28-Dec | W | | -70 | -55 | -30 | -2 | 23 | 41 | 48 | 47 | 37 | 23 | 10 | 3 | 4 | 14 | 29 | 46 | 58 | 61 | 52 | 33 | 8 | -19 | -44 | -59 |
| 29-Dec | Th | | -63 | -54 | -36 | -11 | 14 | 35 | 46 | 48 | 42 | 29 | 14 | 2 | -3 | 0 | 11 | 26 | 42 | 51 | 51 | 40 | 22 | -1 | -23 | -41 |
| 30-Dec | F | | -50 | -47 | -35 | -15 | 7 | 28 | 43 | 49 | 46 | 36 | 21 | 7 | -4 | -7 | -3 | 8 | 22 | 34 | 41 | 39 | 28 | 12 | -6 | -23 |
| 31-Dec | Sa | | -34 | -37 | -30 | -16 | 3 | 23 | 39 | 48 | 49 | 42 | 30 | 15 | 1 | -8 | -11 | -6 | 3 | 15 | 25 | 29 | 26 | 18 | 5 | -8 |

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