



NOAA Tide Predictions

KWAJALEIN, MARSHALL ISLANDS,U.S.A,2012

The NOAA Tide Predictions application provides predictions in both graphical and tabular formats, with many user selected options, for over 3000 stations broken down by key areas in each state. Users can also access stations via the Google map interface. Additional information can be found in the help page.

Station Types: The NOAA Tide Predictions application provides predictions from 2 distinct categories of stations at over 3000 locations:

Harmonic - The predicted height values for Harmonic stations are conducted by combining the harmonic constituents into a single tide curve.

Subordinate - The high and low height values for Subordinate stations are obtained by means and differences, and ratios applied to the full harmonic constant predictions at a specific Harmonic station (a Reference station).

Disclaimer: The official Tide prediction tables are published annually on October 1, for the following calendar year. Tide predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web based NOAA Tidal Predictions are based upon the latest information available as of the date of your request. Tide predictions generated may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



KWAJALEIN, MARSHALL ISLANDS,U.S.A,2012

Datum:mean lower low water (MLLW) which is the chart datum of soundings

Times and Heights of High and Low Waters

January					February					March													
Time		Height			Time		Height			Time		Height			Time		Height						
h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm					
1	02:40 AM	0.6	18		16	02:30 AM	0.2	6		1	01:52 AM	0.8	24		16	03:38 AM	1.2	37					
Su	09:02 AM	2.8	85	M	08:54 AM	3.4	104		W	09:50 AM	2.7	82	Th	11:25 AM	3.0	91	F	11:03 AM	2.9	88			
	02:58 PM	1.2	37		03:03 PM	0.8	24			04:35 PM	1.5	46		06:48 PM	1.1	34		03:07 PM	1.3	40			
	08:57 PM	2.7	82		09:04 PM	3.0	91			09:55 PM	2.0	61							08:36 PM	2.1	64		
2	03:30 AM	0.9	27		17	03:28 AM	0.5	15		2	04:19 AM	1.2	37		17	12:44 AM	2.1	64		2	02:43 AM	1.2	37
M	10:14 AM	2.7	82	Tu	10:11 AM	3.2	98		Th	12:03 PM	2.6	79		F	06:26 AM	1.1	34		F	10:19 AM	2.6	79	
	04:27 PM	1.4	43		04:41 PM	1.1	34			07:26 PM	1.3	40			01:21 PM	3.3	101			06:16 PM	1.4	43	
	10:11 PM	2.3	70		10:33 PM	2.5	76							08:17 PM	0.6	18							
3	04:44 AM	1.0	30		18	04:53 AM	0.8	24		3	01:04 AM	2.0	61		18	02:16 AM	2.5	76		3	12:06 AM	1.8	55
Tu	11:50 AM	2.7	82	W	11:55 AM	3.2	98		F	06:44 AM	1.2	37		Sa	07:57 AM	0.7	21		Sa	05:40 AM	1.4	43	
	06:32 PM	1.4	43		06:47 PM	1.0	30			01:39 PM	3.0	91			02:26 PM	3.7	113			12:55 PM	2.8	85	
										08:29 PM	0.8	24			09:04 PM	0.1	3			07:57 PM	1.0	30	
4	12:07 AM	2.2	67		19	12:38 AM	2.4	73		4	02:20 AM	2.4	73		19	03:04 AM	3.0	91		4	01:55 AM	2.3	70
W	06:16 AM	1.0	30	Th	06:35 AM	0.8	24		Sa	08:00 AM	0.8	24		Su	08:50 AM	0.3	9		Su	07:33 AM	1.0	30	
	01:12 PM	3.0	91		01:25 PM	3.6	110			01:39 PM	3.5	107			03:11 PM	4.1	125			02:01 PM	3.3	101	
	07:54 PM	1.0	30		08:12 PM	0.5	15			09:05 PM	0.3	9			09:39 PM	-0.3	-9			08:36 PM	0.4	12	
5	01:37 AM	2.3	70		20	02:07 AM	2.7	82		5	03:01 AM	2.8	85		20	03:39 AM	3.4	104		5	02:37 AM	2.8	85
Th	07:27 AM	0.8	24	F	07:54 AM	0.5	15		Su	08:46 AM	0.4	12		M	09:30 AM	-0.1	-3		M	08:24 AM	0.5	15	
	02:06 PM	3.4	104		02:28 PM	4.0	122			01:39 PM	4.0	122			03:47 PM	4.5	137			02:43 PM	3.9	119	
	08:42 PM	0.6	18		09:07 PM	0.0	0			09:37 PM	-0.1	-3			10:09 PM	-0.5	-15			09:08 PM	-0.1	-3	
6	02:32 AM	2.6	79		21	03:03 AM	3.0	91		6	03:34 AM	3.3	101		21	04:10 AM	3.8	116		6	03:10 AM	3.4	104
F	08:18 AM	0.5	15	Sa	08:50 AM	0.1	3		M	09:24 AM	-0.1	-3		Tu	10:05 AM	-0.4	-12		Tu	09:04 AM	0.0	0	
	02:48 PM	3.7	113		03:17 PM	4.4	134			03:43 PM	4.4	134			04:19 PM	4.7	143			03:19 PM	4.4	134	
	09:19 PM	0.2	6		09:48 PM	-0.4	-12			10:07 PM	-0.5	-15			10:36 PM	-0.7	-21			09:39 PM	-0.5	-15	
7	03:12 AM	2.9	88		22	03:46 AM	3.4	104		7	04:06 AM	3.7	113		22	04:38 AM	4.1	125		7	03:42 AM	4.0	122
Sa	09:00 AM	0.2	6	Su	09:35 AM	-0.2	-6		Tu	09:59 AM	-0.4	-12		W	10:36 AM	-0.6	-18		W	09:41 AM	-0.5	-15	
	03:24 PM	4.1	125		03:57 PM	4.7	143			04:16 PM	4.8	146			04:48 PM	4.7	143			03:54 PM	4.8	146	
	09:52 PM	-0.2	-6		10:25 PM	-0.6	-18			10:37 PM	-0.8	-24			11:02 PM	-0.8	-24			10:10 PM	-0.9	-27	
8	03:48 AM	3.2	98		23	04:23 AM	3.7	113		8	04:38 AM	4.0	122		23	05:06 AM	4.2	128		8	04:15 AM	4.4	134
Su	09:36 AM	-0.1	-3	M	10:15 AM	-0.5	-15		W	11:08 AM	-0.7	-21		Th	11:05 AM	-0.7	-21		Th	10:17 AM	-0.9	-27	
	03:58 PM	4.4	134		04:34 PM	4.9	149			04:49 PM	5.0	152			05:15 PM	4.7	143			04:28 PM	5.0	152	
	10:24 PM	-0.5	-15		10:58 PM	-0.8	-24			11:08 PM	-1.0	-30			11:27 PM	-0.8	-24			10:42 PM	-1.1	-34	
9	04:21 AM	3.5	107		24	04:57 AM	3.9	119		9	05:10 AM	4.3	131		24	05:32 AM	4.3	131		9	04:48 AM	4.7	143
M	10:11 AM	-0.3	-9	Tu	10:50 AM	-0.6	-18		Th	11:08 AM	-0.8	-24		F	11:36 AM	-0.6	-18		F	10:53 AM	-1.1	-34	
	04:31 PM	4.7	143		05:07 PM	4.9	149			05:22 PM	5.1	155			05:41 PM	4.5	137			05:03 PM	5.0	152	
	10:55 PM	-0.7	-21		11:28 PM	-0.8	-24			11:39 PM	-1.1	-34			11:51 PM	-0.7	-21			11:14 PM	-1.2	-37	
10	04:53 AM	3.7	113		25	05:29 AM	4.0	122		10	05:43 AM	4.4	134		25	05:58 AM	4.3	131		10	05:22 AM	4.9	149
Tu	10:45 AM	-0.5	-15	W	11:23 AM	-0.6	-18		F	11:43 AM	-0.8	-24		Sa	12:01 PM	-0.4	-12		Sa	11:30 AM	-1.1	-34	
	05:04 PM	4.9	149		05:38 PM	4.8	146			05:55 PM	5.0	152			06:06 PM	4.2	128			05:38 PM	4.8	146	
	11:27 PM	-0.8	-24		11:57 PM	-0.7	-21													11:46 PM	-1.0	-30	
11	05:26 AM	3.8	116		26	05:59 AM	4.0	122		11	12:11 AM	-1.0	-30		26	12:14 AM	-0.5	-15		11	05:57 AM	4.9	149
W	11:19 AM	-0.5	-15	Th	11:54 AM	-0.4	-12		Sa	06:18 AM	4.4	134		Su	06:23 AM	4.1	125		Su	12:08 PM	-0.9	-27	
	05:37 PM	4.9	149		06:07 PM	4.6	140			12:20 PM	-0.7	-21			12:28 PM	-0.2	-6			06:13 PM	4.4	134	
	11:59 PM	-0.8	-24							06:30 PM	4.6	140			06:30 PM	3.9	119						
12	06:00 AM	3.9	119		27	12:24 AM	-0.6	-18		12	12:43 AM	-0.7	-21		27	12:37 AM	-0.2	-6		12	12:19 AM	-0.8	-24
Th	11:54 AM	-0.5	-15	F	06:28 AM	3.9	119		Su	06:54 AM	4.3	131		M	06:49 AM	3.9	119		M	06:34 AM	4.7	143	
	06:10 PM	4.8	146		12:25 PM	-0.2	-6			01:00 PM	-0.3	-9			12:56 PM	0.1	3			12:48 PM	-0.5	-15	
					06:34 PM	4.2	128			07:06 PM	4.1	125			06:54 PM	3.4	104			06:50 PM	3.9	119	
13	12:33 AM	-0.7	-21		28	12:50 AM	-0.3	-9		13	01:18 AM	-0.4	-12		28	12:59 AM	0.1	3		13	12:53 AM	-0.4	-12
F	06:36 AM	3.9	119	Sa	06:56 AM	3.7	113		M	07:34 AM	4.0	122		Tu	07:16 AM	3.6	110		Tu	07:13 AM	4.3	131	
	12:31 PM	-0.3	-9		12:55 PM	0.1	3			01:44 AM	0.1	3			01:26 PM	0.5	15			01:33 PM	0.0	0	
	06:46 PM	4.5	137		07:01 PM	3.8	116			07:45 PM	3.5	107			07:19 PM	3.0	91			07:30 PM	3.3	101	
14	01:08 AM	-0.5	-15		29	01:16 AM	-0.1	-3		14	01:55 AM	0.1	3		29	01:23 AM	0.4	12		14	01:30 AM	0.1	3
Sa	07:15 AM	3.8	116	Su	07:26 AM	3.5	107		Tu	08:21 AM	3.6	110		W	07:48 AM	3.2	98		W	07:59 AM	3.8	116	
	01:12 PM	0.0	0		01:26 PM	0.4	12			02:40 PM	0.7	21			02:03 PM	0.9	27			02:28 PM	0.6	18	
	07:24 PM	4.1	125		07:27 PM	3.4	104			08:33 PM	2.8	85			07:48 PM	2.5	76			08:18 PM	2.6	79	
15	01:46 AM	-0.2	-6		30	01:42 AM	0.3	9		15	02:43 AM	0.6	18		30	02:15 AM	0.7	21		15	02:15 AM	0.7	21
Su	07:59 AM	3.6	110	M	07:59 AM	3.2	98		W	09:29 AM	3.2	98		Th	09:03 AM	3.2	98		Th	09:03 AM	3.2	98	
	02:00 PM	0.4	12		02:02 PM	0.8	24																



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Datum:mean lower low water (MLLW) which is the chart datum of soundings

Times and Heights of High and Low Waters

April					May					June							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm				
1 Su	04:33 AM 11:43 AM 06:51 PM	1.4 43 2.8 85 1.0 30	16 M	01:34 AM 07:25 AM 01:37 PM 08:03 PM	2.7 82 1.0 30 3.2 98 0.4 12	1 Tu	05:51 AM 12:11 PM 06:46 PM	1.1 34 3.1 94 0.5 15	16 W	01:30 AM 07:40 AM 01:38 PM 07:48 PM	3.1 94 0.8 24 3.0 91 0.5 15	1 F	01:20 AM 07:41 AM 01:41 PM 07:47 PM	3.7 113 0.3 9 3.3 101 0.0 0	16 Sa	02:11 AM 08:40 AM 02:31 PM 08:22 PM	3.5 107 0.5 15 2.8 85 0.4 12
2 M	01:04 AM 06:47 AM 01:12 PM 07:48 PM	2.4 73 1.1 34 3.2 98 0.5 15	17 Tu	02:16 AM 08:16 AM 02:22 PM 08:37 PM	3.2 98 0.6 18 3.5 107 0.2 6	2 W	01:07 AM 07:10 AM 01:20 PM 07:40 PM	3.1 94 0.7 21 3.5 107 0.1 3	17 Th	02:10 AM 08:25 AM 02:21 PM 08:23 PM	3.5 107 0.5 15 3.1 94 0.2 6	2 Sa	02:14 AM 08:38 AM 02:38 PM 08:37 PM	4.2 128 -0.1 -3 3.5 107 -0.3 -9	17 Su	02:50 AM 09:18 AM 03:11 PM 09:01 PM	3.8 116 0.2 6 3.0 91 0.2 6
3 Tu	01:57 AM 07:51 AM 02:05 PM 08:28 PM	3.0 91 0.6 18 3.7 113 0.0 0	18 W	02:49 AM 08:53 AM 02:57 PM 09:05 PM	3.6 110 0.2 6 3.7 113 -0.1 -3	3 Th	01:58 AM 08:07 AM 02:13 PM 08:24 PM	3.7 113 0.1 3 3.8 116 -0.3 -9	18 F	02:44 AM 09:02 AM 02:57 PM 08:55 PM	3.8 116 0.2 6 3.3 101 0.1 3	3 Su	03:02 AM 09:29 AM 03:28 PM 09:24 PM	4.7 143 -0.5 -15 3.7 113 -0.5 -15	18 M	03:25 AM 09:53 AM 03:48 PM 09:37 PM	4.0 122 -0.1 -3 3.1 94 0.0 0
4 W	02:36 AM 08:37 AM 02:48 PM 09:03 PM	3.6 110 0.0 0 4.2 128 -0.5 -15	19 Th	03:17 AM 09:25 AM 03:27 PM 09:32 PM	3.9 119 -0.1 -3 3.8 116 -0.3 -9	4 F	02:41 AM 08:56 AM 03:00 PM 09:05 PM	4.3 131 -0.4 -12 4.1 125 -0.6 -18	19 Sa	03:15 AM 09:35 AM 03:31 PM 09:26 PM	4.1 125 -0.1 -3 3.4 104 -0.1 -3	4 M	03:48 AM 10:16 AM 04:15 PM 10:08 PM	5.0 152 -0.8 -24 3.8 116 -0.6 -18	19 Tu	03:59 AM 10:26 AM 04:22 PM 10:11 PM	4.3 131 -0.3 -9 3.3 101 -0.1 -3
5 Th	03:13 AM 09:18 AM 03:27 PM 09:38 PM	4.2 128 -0.5 -15 4.5 137 -0.8 -24	20 F	03:44 AM 09:55 AM 03:56 PM 09:57 PM	4.2 128 -0.3 -9 3.9 119 -0.4 -12	5 Sa	03:23 AM 09:40 AM 03:44 PM 09:45 PM	4.8 146 -0.8 -24 4.2 128 -0.8 -24	20 Su	03:45 AM 10:06 AM 04:03 PM 09:56 PM	4.3 131 -0.3 -9 3.4 104 -0.2 -6	5 Tu	04:32 AM 11:00 AM 05:00 PM 10:51 PM	5.1 155 -0.9 -27 3.8 116 -0.6 -18	20 W	04:32 AM 10:58 AM 04:55 PM 10:44 PM	4.4 134 -0.4 -12 3.4 104 -0.2 -6
6 F	03:48 AM 09:58 AM 04:05 PM 10:13 PM	4.7 143 -0.9 -27 4.7 143 -1.0 -30	21 Sa	04:10 AM 10:24 AM 04:24 PM 10:23 PM	4.4 134 -0.5 -15 3.9 119 -0.5 -15	6 Su	04:03 AM 10:24 AM 04:26 PM 10:24 PM	5.1 155 -1.0 -30 4.2 128 -0.8 -24	21 M	04:15 AM 10:37 AM 04:34 PM 10:26 PM	4.4 134 -0.4 -12 3.5 107 -0.2 -6	6 W	05:14 AM 11:44 AM 05:43 PM 11:34 PM	5.1 155 -0.8 -24 3.7 113 -0.4 -12	21 Th	05:04 AM 11:30 AM 05:28 PM 11:17 PM	4.5 137 -0.4 -12 3.4 104 -0.2 -6
7 Sa	04:25 AM 10:37 AM 04:43 PM 10:47 PM	5.0 152 -1.1 -34 4.7 143 -1.1 -34	22 Su	04:37 AM 10:52 AM 04:51 PM 10:49 PM	4.5 137 -0.5 -15 3.8 116 -0.4 -12	7 M	04:44 AM 11:07 AM 05:08 PM 11:04 PM	5.2 158 -1.0 -30 4.1 125 -0.8 -24	22 Tu	04:45 AM 11:09 AM 05:05 PM 10:56 PM	4.4 134 -0.4 -12 3.4 104 -0.2 -6	7 Th	05:57 AM 12:27 PM 06:26 PM	4.9 149 -0.6 -18 3.5 107	22 F	05:37 AM 12:02 PM 06:01 PM 11:51 PM	4.5 137 -0.4 -12 3.4 104 -0.1 -3
8 Su	05:01 AM 11:17 AM 05:21 PM 11:23 PM	5.2 158 -1.1 -34 4.5 137 -0.9 -27	23 M	05:04 AM 11:21 AM 05:19 PM 11:14 PM	4.5 137 -0.5 -15 3.7 113 -0.3 -9	8 Tu	05:25 AM 11:51 AM 05:50 PM 11:44 PM	5.1 155 -0.9 -27 3.8 116 -0.5 -15	23 W	05:16 AM 11:40 AM 05:37 PM 11:27 PM	4.4 134 -0.4 -12 3.3 101 -0.1 -3	8 F	12:16 AM 06:39 AM 01:10 PM 07:11 PM	-0.2 -6 4.5 137 -0.3 -9 3.3 101	23 Sa	06:10 AM 12:36 PM 06:36 PM	4.4 134 -0.3 -9 3.4 104
9 M	05:39 AM 11:58 AM 06:00 PM 11:58 PM	5.1 155 -0.9 -27 4.1 125 -0.7 -21	24 Tu	05:31 AM 11:50 AM 05:47 PM 11:41 PM	4.4 134 -0.4 -12 3.5 107 -0.2 -6	9 W	06:06 AM 12:35 PM 06:34 PM	4.8 146 -0.6 -18 3.4 104	24 Th	05:47 AM 12:13 PM 06:09 PM 11:58 PM	4.3 131 -0.2 -6 3.2 98 0.1 3	9 Sa	01:00 AM 06:22 AM 01:54 PM 07:58 PM	0.2 6 4.1 125 0.0 0 3.1 94	24 Su	12:27 AM 06:45 AM 01:12 PM 07:15 PM	0.0 0 4.2 128 -0.2 -6 3.4 104
10 Tu	06:18 AM 12:41 PM 06:40 PM	4.8 146 -0.6 -18 3.6 110	25 W	05:59 AM 12:21 PM 06:16 PM	4.2 128 -0.1 -3 3.2 98	10 Th	12:25 AM 06:50 AM 01:23 PM 07:21 PM	-0.2 -6 4.4 134 -0.2 -6 3.1 94	25 F	06:20 AM 12:48 PM 06:45 PM	4.1 125 -0.1 -3 3.1 94	10 Su	01:46 AM 08:06 AM 02:40 PM 08:51 PM	0.5 15 3.6 110 0.4 12 2.9 88	25 M	01:07 AM 07:24 AM 01:52 PM 08:01 PM	0.2 6 4.0 122 0.0 0 3.3 101
11 W	12:35 AM 06:59 AM 01:28 PM 07:24 PM	-0.3 -9 4.4 134 -0.1 -3 3.1 94	26 Th	12:08 AM 06:29 AM 12:54 PM 06:49 PM	0.1 3 3.9 119 0.1 3 2.9 88	11 F	01:09 AM 07:38 AM 02:16 PM 08:17 PM	0.3 9 3.9 119 0.3 9 2.7 82	26 Sa	12:33 AM 06:57 AM 01:28 PM 07:28 PM	0.3 9 3.9 119 0.1 3 2.9 88	11 M	02:41 AM 08:57 AM 03:34 PM 09:57 PM	0.9 27 3.2 98 0.6 18 2.7 82	26 Tu	01:55 AM 08:09 AM 02:39 PM 08:36 PM	0.5 15 3.7 113 0.2 6 3.2 98
12 Th	01:16 AM 07:47 AM 02:25 PM 08:19 PM	0.2 6 3.8 116 0.5 15 2.6 79	27 F	12:39 AM 07:04 AM 01:35 PM 07:29 PM	0.3 9 3.7 113 0.4 12 2.7 82	12 Sa	02:02 AM 08:34 AM 03:22 PM 09:32 PM	0.7 21 3.4 104 0.6 18 2.5 76	27 Su	01:15 AM 07:40 AM 02:16 PM 08:21 PM	0.5 15 3.7 113 0.3 9 2.8 85	12 Tu	03:53 AM 10:00 AM 04:37 PM 11:15 PM	1.2 37 2.8 85 0.8 24 2.8 85	27 W	02:56 AM 09:06 AM 03:36 PM 10:07 PM	0.7 21 3.3 101 0.4 12 3.2 98
13 F	02:06 AM 08:50 AM 03:49 PM 09:54 PM	0.8 24 3.3 101 0.9 27 2.2 67	28 Sa	01:17 AM 07:49 AM 02:30 PM 08:28 PM	0.7 21 3.4 104 0.7 21 2.4 73	13 Su	03:16 AM 09:48 AM 04:44 PM 11:11 PM	1.1 34 3.0 91 0.8 24 2.5 76	28 M	02:09 AM 08:34 AM 03:16 PM 09:32 PM	0.8 24 3.4 104 0.5 15 2.8 85	13 W	05:26 AM 11:21 AM 05:45 PM	1.3 40 2.6 79 0.9 27	28 Th	04:19 AM 10:22 AM 04:48 PM 11:31 PM	0.9 27 3.0 91 0.5 15 3.3 101
14 Sa	03:33 AM 10:33 AM 05:52 PM	1.2 37 2.9 88 1.0 30	29 Su	02:14 AM 08:56 AM 03:53 PM 10:08 PM	1.0 30 3.1 94 0.9 27 2.3 70	14 M	05:02 AM 11:21 AM 06:05 PM	1.3 40 2.8 85 0.8 24	29 Tu	03:24 AM 09:46 AM 04:28 PM 10:57 PM	1.0 30 3.2 98 0.6 18 2.9 88	14 Th	12:29 AM 06:53 AM 12:40 PM 06:48 PM	2.9 88 1.1 34 2.5 76 0.8 24	29 F	05:59 AM 11:55 AM 06:08 PM	0.8 24 2.8 85 0.5 15
15 Su	12:16 AM 05:57 AM 12:28 PM 07:16 PM	2.3 70 1.3 40 3.0 91 0.7 21	30 M	03:54 AM 10:35 AM 05:33 PM 11:57 PM	1.2 37 3.0 91 0.8 24 2.6 79	15 Tu	12:35 AM 06:38 AM 12:41 PM 07:04 PM	2.7 82 1.1 34 2.9 88 0.7 21	30 W	05:00 AM 11:12 AM 05:44 PM	1.0 30 3.1 94 0.5 15	15 F	01:26 AM 07:55 AM 01:43 PM 07:39 PM	3.2 98 0.8 24 2.6 79 0.6 18	30 Sa	12:50 AM 07:26 AM 01:21 PM 07:20 PM	3.6 110 0.5 15 2.9 88 0.3 9
						15 Th	12:16 AM 06:31 AM 12:34 PM 06:51 PM	3.3 101 0.7 21 3.2 98 0.3 9	31 Th	12:16 AM 06:31 AM 12:34 PM 06:51 PM	3.3 101 0.7 21 3.2 98 0.3 9						



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July				August				September			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm
1 Su	01:56 AM 4.0 122 08:31 AM 0.1 3 02:28 PM 3.1 94 08:21 PM 0.0 0	16 M	02:31 AM 3.5 107 09:05 AM 0.4 12 02:59 PM 2.8 85 08:45 PM 0.4 12	1 W	03:33 AM 4.6 140 10:01 AM -0.6 -18 04:01 PM 3.6 110 09:53 PM -0.4 -12	16 Th	03:26 AM 4.2 128 09:48 AM -0.3 -9 03:48 PM 3.6 110 09:42 PM -0.3 -9	1 Sa	04:28 AM 4.7 143 10:41 AM -0.8 -24 04:46 PM 4.3 131 10:48 PM -0.7 -21	16 Su	04:04 AM 4.8 146 10:16 AM -1.0 -30 04:24 PM 4.7 143 10:30 PM -0.9 -27
2 M	02:51 AM 4.5 137 09:24 AM -0.3 -9 03:22 PM 3.4 104 09:13 PM -0.2 -6	17 Tu	03:10 AM 3.9 119 09:40 AM 0.0 0 03:35 PM 3.1 94 09:24 PM 0.1 3	2 Th	04:13 AM 4.8 146 10:37 AM -0.8 -24 04:38 PM 3.9 119 10:32 PM -0.6 -18	17 F	03:58 AM 4.6 140 10:17 AM -0.6 -18 04:19 PM 3.9 119 10:15 PM -0.5 -15	2 Su	04:57 AM 4.6 140 11:08 AM -0.8 -24 05:14 PM 4.4 134 11:18 PM -0.6 -18	17 M	04:38 AM 4.8 146 10:47 AM -1.1 -34 04:57 PM 4.9 149 11:06 PM -1.0 -30
3 Tu	03:39 AM 4.8 146 10:10 AM -0.6 -18 04:09 PM 3.6 110 10:00 PM -0.4 -12	18 W	03:45 AM 4.2 128 10:11 AM -0.3 -9 04:09 PM 3.3 101 09:59 PM -0.2 -6	3 F	04:49 AM 4.9 149 11:10 AM -0.8 -24 05:12 PM 4.1 125 11:08 PM -0.6 -18	18 Sa	04:29 AM 4.8 146 10:46 AM -0.8 -24 04:50 PM 4.2 128 10:49 PM -0.7 -21	3 M	05:25 AM 4.4 134 11:33 AM -0.7 -21 05:41 PM 4.3 131 11:48 PM -0.5 -15	18 Tu	05:12 AM 4.7 143 11:19 AM -1.0 -30 05:31 PM 4.9 149 11:43 PM -0.9 -27
4 W	04:23 AM 5.0 152 10:52 AM -0.8 -24 04:52 PM 3.7 113 10:43 PM -0.5 -15	19 Th	04:18 AM 4.5 137 10:42 AM -0.5 -15 04:41 PM 3.6 110 10:32 PM -0.3 -9	4 Sa	05:23 AM 4.8 146 11:41 AM -0.8 -24 05:44 PM 4.1 125 11:42 PM -0.5 -15	19 Su	05:01 AM 4.9 149 11:16 AM -0.9 -27 05:21 PM 4.4 134 11:23 PM -0.7 -21	4 Tu	05:51 AM 4.1 125 11:57 AM -0.5 -15 06:08 PM 4.2 128	19 W	05:47 AM 4.4 134 11:51 AM -0.8 -24 06:07 PM 4.7 143
5 Th	05:04 AM 5.0 152 11:32 AM -0.8 -24 05:31 PM 3.8 116 11:24 PM -0.5 -15	20 F	04:50 AM 4.6 140 11:12 AM -0.6 -18 05:12 PM 3.8 116 11:05 PM -0.4 -12	5 Su	05:54 AM 4.6 140 12:10 PM -0.6 -18 06:15 PM 4.0 122	20 M	05:33 AM 4.8 146 11:47 AM -0.9 -27 05:54 PM 4.4 134 11:58 PM -0.6 -18	5 W	12:16 AM -0.2 -6 06:17 AM 3.8 116 12:21 PM -0.2 -6 06:35 PM 3.9 119	20 Th	12:23 AM -0.6 -18 06:24 AM 3.9 119 12:25 PM -0.4 -12 06:46 PM 4.4 134
6 F	05:43 AM 4.9 149 12:09 PM -0.7 -21 06:10 PM 3.7 113	21 Sa	05:22 AM 4.7 143 11:43 AM -0.7 -21 05:44 PM 3.9 119 11:39 PM -0.4 -12	6 M	12:15 AM -0.3 -9 06:24 AM 4.2 128 12:38 PM -0.4 -12 06:45 PM 3.9 119	21 Tu	06:07 AM 4.5 137 12:18 PM -0.7 -21 06:29 PM 4.4 134	6 Th	12:46 AM 0.1 3 06:42 AM 3.3 101 12:44 PM 0.1 3 07:03 PM 3.6 110	21 F	01:07 AM -0.1 -3 07:04 AM 3.3 101 01:02 PM 0.1 3 07:31 PM 3.9 119
7 Sa	12:03 AM -0.3 -9 06:20 AM 4.6 140 12:44 PM -0.5 -15 06:47 PM 3.6 110	22 Su	05:54 AM 4.7 143 12:14 PM -0.6 -18 06:18 PM 3.9 119	7 Tu	12:47 AM 0.0 0 06:52 AM 3.8 116 01:04 PM -0.1 -3 07:16 PM 3.6 110	22 W	12:37 AM -0.4 -12 06:42 AM 4.1 125 12:52 PM -0.4 -12 07:08 PM 4.1 125	7 F	01:17 AM 0.5 15 07:09 AM 2.9 88 01:09 PM 0.5 15 07:35 PM 3.2 98	22 Sa	02:01 AM 0.4 12 07:54 AM 2.7 82 01:48 PM 0.6 18 08:31 PM 3.4 104
8 Su	12:41 AM -0.1 -3 06:56 AM 4.2 128 01:19 PM -0.2 -6 07:24 PM 3.5 107	23 M	12:14 AM -0.3 -9 06:27 AM 4.5 137 12:47 PM -0.5 -15 06:54 PM 3.9 119	8 W	01:20 AM 0.4 12 07:20 AM 3.4 104 01:31 PM 0.2 6 07:49 PM 3.3 101	23 Th	01:19 AM 0.0 0 07:20 AM 3.6 110 01:28 PM 0.0 0 07:52 PM 3.8 116	8 Sa	01:57 AM 0.9 27 07:40 AM 2.4 73 01:38 PM 0.9 27 08:22 PM 2.8 85	23 Su	03:24 AM 0.9 27 09:18 AM 2.2 67 03:04 PM 1.1 34 10:15 PM 3.0 91
9 M	01:19 AM 0.3 9 06:20 AM 3.8 116 01:53 PM 0.1 3 08:03 PM 3.3 101	24 Tu	12:53 AM -0.1 -3 07:03 AM 4.2 128 01:22 PM -0.3 -9 07:34 PM 3.8 116	9 Th	01:57 AM 0.7 21 08:30 AM 2.9 88 02:00 PM 0.6 18 08:30 PM 3.0 91	24 F	02:12 AM 0.5 15 08:42 AM 3.0 91 02:13 PM 0.4 12 08:52 PM 3.4 104	9 Su	03:05 AM 1.3 40 08:37 AM 2.0 61 02:31 PM 1.3 40 10:07 PM 2.5 76	24 M	05:45 AM 1.0 30 12:02 PM 2.2 67 05:36 PM 1.3 40
10 Tu	02:00 AM 0.6 18 08:06 AM 3.3 101 02:28 PM 0.4 12 08:48 PM 3.0 91	25 W	01:37 AM 0.2 6 07:44 AM 3.7 113 02:02 PM 0.0 0 08:22 PM 3.6 110	10 F	02:46 AM 1.1 34 08:29 AM 2.4 73 02:40 PM 0.9 27 09:34 PM 2.7 82	25 Sa	03:30 AM 0.9 27 09:20 AM 2.4 73 03:23 PM 0.9 27 10:30 PM 3.1 94	10 M	06:07 AM 1.3 40 12:14 PM 1.9 58 05:35 PM 1.4 43	25 Tu	12:23 AM 3.1 94 07:21 AM 0.6 18 01:34 PM 2.6 79 07:17 PM 0.9 27
11 W	02:49 AM 1.0 30 08:47 AM 2.8 85 03:10 PM 0.7 21 09:46 PM 2.9 88	26 Th	02:31 AM 0.6 18 08:33 AM 3.2 98 02:51 PM 0.3 9 09:25 PM 3.4 104	11 Sa	04:20 AM 1.4 43 09:48 AM 2.0 61 03:59 PM 1.2 37 11:33 PM 2.6 79	26 Su	05:44 AM 1.0 30 11:44 AM 2.1 64 05:31 PM 1.1 34	11 Tu	12:37 AM 2.7 82 07:38 AM 0.9 27 01:42 PM 2.3 70 07:19 PM 1.1 34	26 W	01:37 AM 3.5 107 08:11 AM 0.2 6 02:20 PM 3.1 94 08:12 PM 0.4 12
12 Th	04:00 AM 1.3 40 09:46 AM 2.4 73 04:09 PM 1.0 30 11:07 PM 2.8 85	27 F	03:48 AM 0.9 27 09:44 AM 2.7 82 04:00 PM 0.7 21 10:54 PM 3.3 101	12 Su	06:58 AM 1.3 40 12:44 PM 2.0 61 06:21 PM 1.2 37	27 M	12:31 AM 3.2 98 07:32 AM 0.7 21 01:36 PM 2.5 76 07:17 PM 0.8 24	12 W	01:42 AM 3.2 98 08:16 AM 0.5 15 02:20 PM 2.8 85 08:08 PM 0.6 18	27 Th	02:25 AM 3.9 119 08:46 AM -0.1 -3 02:54 PM 3.6 110 08:53 PM 0.0 0
13 F	05:47 AM 1.3 40 11:24 AM 2.2 67 05:34 PM 1.0 30	28 Sa	05:41 AM 1.0 30 11:34 AM 2.4 73 05:38 PM 0.8 24	13 M	01:16 AM 2.9 88 08:09 AM 0.9 27 02:03 PM 2.3 70 07:42 PM 0.9 27	28 Tu	01:49 AM 3.7 113 08:29 AM 0.2 6 02:32 PM 3.0 91 08:20 PM 0.4 12	13 Th	02:23 AM 3.7 113 08:47 AM 0.0 0 02:51 PM 3.4 104 08:46 PM 0.1 3	28 F	03:02 AM 4.1 125 09:16 AM -0.4 -12 03:24 PM 4.0 122 09:27 PM -0.3 -9
14 Sa	12:36 AM 2.9 88 07:26 AM 1.1 34 01:08 PM 2.2 67 06:58 PM 0.9 27	29 Su	12:34 AM 3.4 104 07:26 AM 0.7 21 01:22 PM 2.5 76 07:11 PM 0.6 18	14 Tu	02:12 AM 3.3 101 08:47 AM 0.4 12 02:45 PM 2.7 82 08:30 PM 0.5 15	29 W	02:41 AM 4.1 125 09:09 AM -0.2 -6 03:12 PM 3.4 104 09:05 PM -0.1 -3	14 F	02:58 AM 4.2 128 09:16 AM -0.4 -12 03:21 PM 3.9 119 09:20 PM -0.4 -12	29 Sa	03:34 AM 4.3 131 09:44 AM -0.6 -18 03:52 PM 4.3 131 09:58 PM -0.5 -15
15 Su	01:43 AM 3.2 98 08:24 AM 0.7 21 02:14 PM 2.5 76 07:59 PM 0.7 21	30 M	01:50 AM 3.8 116 08:33 AM 0.2 6 02:31 PM 2.9 88 08:18 PM 0.3 9	15 W	02:52 AM 3.8 116 09:19 AM 0.0 0 03:18 PM 3.2 98 09:08 PM 0.1 3	30 Th	03:21 AM 4.4 134 09:43 AM -0.5 -15 03:46 PM 3.9 119 09:42 PM -0.4 -12	15 Sa	03:31 AM 4.5 137 09:46 AM -0.7 -21 03:52 PM 4.3 131 09:55 PM -0.7 -21	30 Su	04:03 AM 4.3 131 10:09 AM -0.7 -21 04:19 PM 4.5 137 10:27 PM -0.6 -18
		31 Tu	02:47 AM 4.3 131 09:21 AM -0.3 -9 03:20 PM 3.3 101 09:10 PM -0.1 -3			31 F	03:56 AM 4.6 140 10:13 AM -0.7 -21 04:17 PM 4.2 128 10:17 PM -0.6 -18				

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.



KWAJALEIN, MARSHALL ISLANDS,U.S.A,2012

Times and Heights of High and Low Waters

October					November					December																																																																																																																																																																											
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height																																																																																																																																																																								
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm																																																																																																																																																																								
1 M	04:30 AM 4.3 131 10:34 AM -0.7 -21 04:45 PM 4.6 140 10:56 PM -0.6 -18	16 Tu	04:16 AM 4.6 140 10:20 AM -1.0 -30 04:35 PM 5.2 158 10:52 PM -1.1 -34	1 Th	05:03 AM 3.6 110 10:57 AM -0.4 -12 05:15 PM 4.4 134 11:36 PM -0.4 -12	16 F	05:25 AM 3.9 119 11:18 AM -0.7 -21 05:41 PM 5.1 155	1 Sa	05:23 AM 3.4 104 11:12 AM -0.2 -6 05:33 PM 4.4 134 11:58 PM -0.3 -9	16 Su	06:03 AM 3.7 113 11:54 AM -0.5 -15 06:16 PM 4.9 149	2 Tu	04:57 AM 4.1 125 10:58 AM -0.6 -18 05:11 PM 4.5 137 11:24 PM -0.5 -15	17 W	04:54 AM 4.4 134 10:54 AM -1.0 -30 05:12 PM 5.2 158 11:32 PM -1.0 -30	2 F	05:31 AM 3.4 104 11:23 AM -0.2 -6 05:43 PM 4.2 128	17 Sa	12:10 AM -0.7 -21 06:08 AM 3.6 110 11:59 AM -0.3 -9 06:24 PM 4.7 143	2 Su	05:54 AM 3.3 101 11:42 AM 0.0 0 06:04 PM 4.2 128	17 M	12:45 AM -0.6 -18 06:46 AM 3.5 107 12:36 PM -0.1 -3 06:58 PM 4.4 134	3 W	05:23 AM 3.9 119 11:22 AM -0.4 -12 05:36 PM 4.4 134 11:52 PM -0.3 -9	18 Th	05:32 AM 4.1 125 11:30 AM -0.7 -21 05:50 PM 4.9 149	3 Sa	12:06 AM -0.2 -6 06:00 AM 3.2 98 11:50 AM 0.1 3 06:12 PM 4.0 122	18 Su	12:57 AM -0.4 -12 06:55 AM 3.2 98 12:43 PM 0.1 3 07:11 PM 4.2 128	3 M	12:30 AM -0.1 -3 06:27 AM 3.1 94 12:14 PM 0.2 6 06:36 PM 4.0 122	18 Tu	01:27 AM -0.2 -6 07:30 AM 3.3 101 01:20 PM 0.3 9 07:40 PM 3.9 119	4 Th	05:49 AM 3.6 110 11:46 AM -0.2 -6 06:03 PM 4.1 125	19 F	12:14 AM -0.7 -21 06:13 AM 3.7 113 12:07 PM -0.4 -12 06:32 PM 4.6 140	4 Su	12:39 AM 0.1 3 06:32 AM 2.9 88 12:19 PM 0.4 12 06:45 PM 3.7 113	19 M	01:48 AM 0.1 3 07:48 AM 2.9 88 01:33 PM 0.6 18 08:04 PM 3.7 113	4 Tu	01:06 AM 0.1 3 07:04 AM 3.0 91 12:50 PM 0.4 12 07:13 PM 3.8 116	19 W	02:11 AM 0.1 3 08:19 AM 3.0 91 02:10 PM 0.7 21 08:25 PM 3.4 104	5 F	12:20 AM 0.0 0 06:15 AM 3.2 98 12:10 PM 0.1 3 06:30 PM 3.8 116	20 Sa	01:01 AM -0.2 -6 06:57 AM 3.2 98 12:48 PM 0.1 3 07:19 PM 4.0 122	5 M	01:17 AM 0.4 12 07:10 AM 2.6 79 12:54 PM 0.7 21 07:26 PM 3.4 104	20 Tu	02:50 AM 0.5 15 08:58 AM 2.6 79 02:40 PM 1.0 30 09:12 PM 3.2 98	5 W	01:47 AM 0.3 9 07:49 AM 2.8 85 01:35 PM 0.7 21 07:59 PM 3.5 107	20 Th	03:00 AM 0.5 15 09:20 AM 2.8 85 03:14 PM 1.1 34 09:22 PM 2.9 88	6 Sa	12:52 AM 0.3 9 06:43 AM 2.8 85 12:35 PM 0.4 12 07:02 PM 3.4 104	21 Su	01:57 AM 0.3 9 07:52 AM 2.6 79 01:38 PM 0.7 21 08:19 PM 3.5 107	6 Tu	02:08 AM 0.7 21 08:05 AM 2.4 73 01:45 PM 1.0 30 08:25 PM 3.0 91	21 W	04:08 AM 0.7 21 10:35 AM 2.5 76 04:22 PM 1.3 40 10:44 PM 2.9 88	6 Th	02:38 AM 0.5 15 08:50 AM 2.7 82 02:39 PM 1.0 30 09:00 PM 3.2 98	21 F	03:59 AM 0.8 24 10:40 AM 2.7 82 04:49 PM 1.4 43 10:43 PM 2.5 76	7 Su	01:30 AM 0.7 21 07:17 AM 2.5 76 01:05 PM 0.8 24 07:43 PM 3.0 91	22 M	03:16 AM 0.7 21 09:20 AM 2.3 70 02:58 PM 1.2 37 09:53 PM 3.1 94	7 W	03:25 AM 0.9 27 09:40 AM 2.2 67 03:17 PM 1.3 40 09:59 PM 2.9 88	22 Th	05:35 AM 0.8 24 12:11 PM 2.7 82 06:12 PM 1.2 37	7 F	03:44 AM 0.6 18 10:13 AM 2.8 85 04:12 PM 1.2 37 10:24 PM 2.9 88	22 Sa	05:15 AM 0.9 27 12:10 PM 2.8 85 06:40 PM 1.3 40	8 M	02:28 AM 1.1 34 08:13 AM 2.1 64 01:54 PM 1.2 37 09:00 PM 2.7 82	23 Tu	05:11 AM 0.9 27 11:33 AM 2.3 70 05:17 PM 1.3 40 11:50 PM 3.0 91	8 Th	05:05 AM 0.9 27 11:36 AM 2.5 76 05:25 PM 1.3 40 11:42 PM 3.0 91	23 F	12:15 AM 2.8 85 06:43 AM 0.7 21 01:14 PM 3.1 94 07:25 PM 0.9 27	8 Sa	05:04 AM 0.6 18 11:43 AM 3.0 91 05:56 PM 1.0 30 11:57 PM 2.9 88	23 Su	12:22 AM 2.4 73 06:32 AM 0.9 27 01:19 PM 3.1 94 07:53 PM 1.0 30	9 Tu	04:34 AM 1.2 37 10:55 AM 1.9 58 04:20 PM 1.5 46 11:25 PM 2.7 82	24 W	06:43 AM 0.7 21 01:06 PM 2.7 82 06:57 PM 1.0 30	9 F	06:22 AM 0.6 18 12:48 PM 3.0 91 06:50 PM 0.9 27	24 Sa	01:20 AM 2.9 88 07:31 AM 0.5 15 01:58 PM 3.5 107 08:14 PM 0.6 18	9 Su	06:19 AM 0.4 12 12:55 PM 3.5 107 07:17 PM 0.6 18	24 M	01:38 AM 2.5 76 07:32 AM 0.7 21 02:08 PM 3.4 104 08:41 PM 0.6 18	10 W	06:35 AM 1.0 30 12:55 PM 2.4 73 06:35 PM 1.2 37	25 Th	01:08 AM 3.2 98 07:36 AM 0.4 12 01:54 PM 3.2 98 07:54 PM 0.6 18	10 Sa	12:55 AM 3.2 98 07:16 AM 0.2 6 01:37 PM 3.6 110 07:47 PM 0.3 9	25 Su	02:08 AM 3.1 94 08:09 AM 0.3 9 02:33 PM 3.8 116 08:52 PM 0.2 6	10 M	01:14 AM 3.1 94 07:21 AM 0.2 6 01:52 PM 4.0 122 08:18 PM 0.1 3	25 Tu	02:29 AM 2.7 82 08:18 AM 0.5 15 02:47 PM 3.7 113 09:17 PM 0.2 6	11 Th	12:53 AM 3.1 94 07:28 AM 0.5 15 01:41 PM 2.9 88 07:34 PM 0.7 21	26 F	01:58 AM 3.5 107 08:14 AM 0.1 3 02:29 PM 3.7 113 08:25 PM 0.2 6	11 M	02:45 AM 3.2 98 08:42 AM 0.1 3 03:04 PM 4.1 125 09:25 PM 0.0 0	11 Tu	02:15 AM 3.3 101 08:14 AM -0.2 -6 02:41 PM 4.5 137 09:09 PM -0.4 -12	26 W	03:09 AM 2.9 88 08:56 AM 0.2 6 03:21 PM 4.0 122 09:49 PM -0.1 -3	12 F	01:44 AM 3.5 107 08:05 AM 0.1 3 02:17 PM 3.5 107 08:17 PM 0.2 6	27 Sa	02:36 AM 3.6 110 08:44 AM -0.1 -3 02:59 PM 4.0 122 09:09 PM -0.1 -3	12 M	03:19 AM 3.3 101 09:13 AM -0.1 -3 03:34 PM 4.3 131 09:56 PM -0.3 -9	27 Tu	03:07 AM 3.6 110 09:02 AM -0.5 -15 03:27 PM 4.9 149 09:55 PM -0.8 -24	12 W	03:07 AM 3.6 110 09:02 AM -0.5 -15 03:27 PM 4.9 149 09:55 PM -0.8 -24	27 Th	03:43 AM 3.1 94 09:31 AM 0.0 0 03:53 PM 4.3 131 10:20 PM -0.3 -9	13 Sa	02:25 AM 4.0 122 08:39 AM -0.4 -12 02:51 PM 4.1 125 08:56 PM -0.3 -9	28 Su	03:09 AM 3.8 116 09:12 AM -0.3 -9 03:27 PM 4.3 131 09:40 PM -0.3 -9	13 Tu	03:19 AM 4.1 125 09:20 AM -0.8 -24 03:39 PM 5.0 152 10:01 PM -0.9 -27	28 W	03:51 AM 3.4 104 09:43 AM -0.2 -6 04:03 PM 4.4 134 10:27 PM -0.4 -12	13 Th	03:53 AM 3.8 116 09:47 AM -0.7 -21 04:11 PM 5.2 158 10:39 PM -1.0 -30	28 F	04:15 AM 3.3 101 10:04 AM -0.2 -6 04:24 PM 4.4 134 10:49 PM -0.5 -15	14 Su	03:03 AM 4.3 131 09:12 AM -0.7 -21 03:25 PM 4.6 140 09:34 PM -0.7 -21	29 M	03:38 AM 3.8 116 09:38 AM -0.4 -12 03:54 PM 4.5 137 10:09 PM -0.5 -15	14 W	04:01 AM 4.1 125 09:59 AM -0.9 -27 04:19 PM 5.3 162 10:43 PM -1.1 -34	29 Th	04:22 AM 3.4 104 10:13 AM -0.3 -9 04:33 PM 4.5 137 10:57 PM -0.4 -12	14 F	04:38 AM 3.9 119 10:30 AM -0.7 -21 04:53 PM 5.3 162 11:22 PM -1.0 -30	29 Sa	04:46 AM 3.4 104 10:35 AM -0.3 -9 04:55 PM 4.6 140 11:19 PM -0.5 -15	15 M	03:39 AM 4.5 137 09:46 AM -0.9 -27 03:59 PM 5.0 152 10:13 PM -1.0 -30	30 Tu	04:07 AM 3.8 116 10:04 AM -0.5 -15 04:20 PM 4.6 140 10:38 PM -0.5 -15	15 Th	04:43 AM 4.1 125 10:38 AM -0.8 -24 05:00 PM 5.3 162 11:26 PM -1.0 -30	30 F	04:52 AM 3.4 104 10:43 AM -0.3 -9 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