

HELL GATE



SANDY HOOK PILOTS

2018
TIDE BOOK

Hell Gate — January 2018

	Slack Water	Maximum Current		Slack Water	Maximum Current		00:18	03:06	-4.8E		
						21	06:36	09:30	3.4F		
						Su	12:42	15:30	-4.8E		
							19:06	21:54	3.3F		
1	02:48	05:48	3.9F	11	02:54	3.0F	22	01:00	03:54	-4.8E	
M	08:54	11:48	-5.3E	Th	05:42	08:54	-4.3E	07:18	10:18	3.3F	
	15:30	18:18	3.8F		12:24	15:18	3.0F	13:24	16:18	-4.7E	
	21:24				18:06	21:24	-4.2E	19:48	22:36	3.2F	
2		00:12	-5.1E	12	00:42	03:42	3.1F	23	01:42	04:42	-4.7E
Tu	03:48	06:42	3.9F	F	06:30	09:48	-4.4E	Tu	08:06	11:06	3.2F
○	09:48	12:42	-5.3E		13:12	16:12	3.1F		14:12	17:06	-4.6E
	16:24	19:12	3.9F		18:54	22:06	-4.3E		20:36	23:30	3.2F
	22:18										
3		01:06	-5.2E	13	01:30	04:24	3.2F	24	02:36	05:30	-4.7E
W	04:42	07:36	4.0F	Sa	07:18	10:30	-4.5E	W	09:06	11:54	3.2F
	10:42	13:36	-5.3E		13:54	16:54	3.1F	○	15:06	18:00	-4.6E
	17:18	20:06	3.8F		19:42	22:42	-4.4E		21:30		
	23:12										
4		02:00	-5.1E	14	02:12	05:06	3.2F	25		00:24	3.1F
Th	05:36	08:30	3.9F	Su	08:00	11:06	-4.6E	Th	03:30	06:24	-4.6E
	11:36	14:30	-5.2E		14:36	17:30	3.2F		10:06	12:54	3.1F
	18:12	21:00	3.7F		20:24	23:24	-4.5E		16:06	18:54	-4.5E
									22:30		
5	00:06	02:54	-5.0E	15	02:48	05:48	3.3F	26		01:24	3.2F
F	06:30	09:24	3.8F	M	08:42	11:42	-4.7E	F	04:36	07:30	-4.6E
	12:30	15:24	-5.1E		15:18	18:12	3.3F		11:12	14:00	3.1F
	19:06	21:54	3.6F		21:06	23:54	-4.6E		17:12	19:54	-4.5E
									23:36		
6	01:00	03:48	-4.9E	16	03:30	06:24	3.4F	27		02:30	3.3F
Sa	07:30	10:24	3.6F	Tu	09:24	12:18	-4.8E	Sa	05:36	08:30	-4.7E
	13:24	16:24	-4.8E		15:54	18:42	3.4F		12:18	15:06	3.3F
	20:00	22:54	3.4F		21:42				18:12	21:00	-4.6E
7	01:54	04:48	-4.7E	17		00:30	-4.7E	28	00:36	03:30	3.4F
Su	08:30	11:24	3.4F	W	04:06	07:00	3.5F	Su	06:42	09:36	-4.9E
	14:24	17:18	-4.6E	●	10:00	12:54	-4.9E		13:18	16:12	3.4F
	21:00	23:54	3.2F		16:36	19:18	3.4F		19:18	22:06	-4.8E
					22:24						
8	02:54	05:48	-4.5E	18		01:12	-4.8E	29	01:36	04:36	3.6F
M	09:30	12:24	3.2F	Th	04:42	07:36	3.5F	M	07:42	10:36	-5.0E
○	15:18	18:24	-4.4E		10:42	13:30	-4.9E		14:18	17:12	3.6F
	22:00				17:12	19:54	3.4F		20:12	23:06	-4.9E
					23:00						
9		00:54	3.1F	19		01:48	-4.8E	30	02:36	05:36	3.8F
Tu	03:48	06:54	-4.4E	F	05:18	08:12	3.5F	Tu	08:42	11:36	-5.1E
	10:30	13:24	3.1F		11:18	14:12	-4.9E		15:12	18:06	3.8F
	16:18	19:24	-4.3E		17:48	20:36	3.4F		21:12		
	22:54				23:42						
10		01:54	3.0F	20		02:30	-4.8E	31		00:00	-5.1E
W	04:48	08:00	-4.3E	Sa	06:00	08:48	3.5F	W	03:30	06:30	4.0F
	11:30	14:24	3.0F		12:00	14:48	-4.9E	○	09:36	12:36	-5.2E
	17:12	20:30	-4.2E		18:24	21:12	3.4F		16:06	19:00	3.9F
	23:48								22:06		

Hell Gate — February 2018

	Slack Water	Maximum Current		Slack Water	Maximum Current		Slack Water	Maximum Current
1 Th	04:24 10:30 17:00 22:54	01:00 -5.1E 07:24 4.0F 13:30 -5.2E 19:54 3.9F	11 Su	00:54 06:48 13:24 19:12	03:54 3.0F 09:48 -4.2E 16:18 3.0F 22:06 -4.2E	21 W	01:18 07:36 13:48 20:00	04:12 -4.8E 10:36 3.4F 16:36 -4.7E 23:00 3.4F
2 F	05:18 11:24 17:48 23:48	01:48 -5.2E 08:18 4.0F 14:18 -5.2E 20:42 3.8F	12 M	01:36 07:36 14:06 20:00	04:36 3.1F 10:36 -4.4E 17:00 3.1F 22:48 -4.3E	22 Th	02:12 08:30 14:42 20:54	05:06 -4.7E 11:30 3.3F 17:30 -4.5E 23:54 3.3F
3 Sa	06:12 12:12 18:42	02:42 -5.1E 09:06 3.9F 15:06 -5.0E 21:36 3.7F	13 Tu	02:18 08:18 14:48 20:42	05:18 3.3F 11:12 -4.5E 17:42 3.3F 23:30 -4.5E	23 F ☉	03:06 09:36 15:42 22:00	06:00 -4.6E 12:30 3.2F 18:30 -4.4E
4 Su	00:36 07:06 13:06 19:30	03:30 -4.9E 10:00 3.7F 16:54 -4.8E 22:24 3.5F	14 W	03:00 09:00 15:24 21:18	05:54 3.4F 11:48 -4.7E 18:18 3.4F	24 Sa	04:12 10:48 16:54 23:12	01:00 3.2F 07:00 -4.5E 13:36 3.1F 19:36 -4.4E
5 M	01:30 08:00 13:54 20:24	04:18 -4.7E 10:54 3.5F 16:48 -4.6E 23:18 3.3F	15 Th ●	03:36 09:42 16:06 22:00	00:06 -4.7E 06:30 3.6F 12:30 -4.8E 18:54 3.5F	25 Su	05:24 11:54 18:00	02:06 3.3F 08:12 -4.5E 14:48 3.2F 20:42 -4.4E
6 Tu	02:18 08:54 14:48 21:18	05:12 -4.5E 11:48 3.2F 17:42 -4.4E	16 F	04:12 10:18 16:42 22:36	00:42 -4.8E 07:12 3.7F 13:06 -4.9E 19:30 3.6F	26 M	00:18 06:30 13:00 19:06	03:18 3.4F 09:24 -4.6E 16:00 3.4F 21:54 -4.6E
7 W ☉	03:12 09:48 15:42 22:12	00:12 3.1F 06:06 -4.3E 12:42 3.0F 18:36 -4.1E	17 Sa	04:54 11:00 17:18 23:12	01:24 -4.9E 07:48 3.7F 13:42 -4.9E 20:06 3.6F	27 Tu	01:24 07:36 14:00 20:06	04:24 3.6F 10:30 -4.8E 17:00 3.6F 22:54 -4.8E
8 Th	04:06 10:48 16:36 23:06	01:12 3.0F 07:06 -4.1E 13:42 2.9F 19:36 -4.0E	18 Su	05:30 11:36 17:54 23:54	02:00 -4.9E 08:24 3.7F 14:24 -4.9E 20:42 3.6F	28 W	02:24 08:30 15:00 21:00	05:24 3.8F 11:30 -5.0E 17:54 3.8F 23:54 -5.0E
9 F	05:06 11:42 17:30	02:06 2.9F 08:06 -4.1E 14:42 2.8F 20:30 -4.0E	19 M	06:06 12:18 18:30	02:42 -5.0E 09:06 3.7F 15:06 -4.9E 21:24 3.5F			
10 Sa	00:00 05:54 12:36 18:24	03:06 2.9F 09:00 -4.1E 15:30 2.9F 21:24 -4.0E	20 Tu	00:36 06:48 13:00 19:12	03:24 -4.9E 09:48 3.6F 15:48 -4.8E 22:12 3.5F			

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Hell Gate — March 2018

	Slack Water	Maximum Current		Slack Water	Maximum Current		01:12	04:00	-5.0E		
1 Th	03:18 09:24 15:48 21:48	06:24 12:24 18:48 3.9F	4.0F -5.1E 3.9F	11 Su	03:18 06:18 12:48 18:48	2.8F -3.9E 2.8F -3.9E	21 W	07:30 13:42 19:42	04:00 10:24 16:24 22:48	-5.0E 3.7F -4.8E 3.6F	
2 F O	04:12 10:18 16:36 22:36	00:48 07:12 13:12 19:36	-5.1E 4.1F -5.1E 4.0F	12 M	01:12 07:12 13:42 19:42	04:12 10:00 16:42 22:24	2.9F -4.0E 2.9F -4.0E	23 F	02:54 09:12 15:30 21:36	05:42 12:12 18:12	-4.8E 3.4F -4.5E
3 Sa	05:00 11:06 17:24 23:24	01:36 08:00 14:00 20:24	-5.1E 4.0F -5.1E 3.9F	13 Tu	02:00 08:06 14:30 20:30	05:00 10:54 17:24 23:12	3.1F -4.2E 3.1F -4.2E	24 Sa O	03:54 10:18 16:30 22:42	00:36 06:42 13:12 19:12	3.3F -4.6E 3.2F -4.3E
4 Su	05:48 11:54 18:12	02:18 08:48 14:42 21:06	-5.1E 3.9F -5.0E 3.8F	14 W	02:42 08:48 15:12 21:12	05:42 11:36 18:06 23:54	3.3F -4.4E 3.3F -4.4E	25 Su	05:00 11:30 17:42 23:54	01:42 07:48 14:24 20:18	3.2F -4.4E 3.2F -4.3E
5 M	00:12 06:36 12:42 19:00	03:06 09:36 15:30 21:54	-4.9E 3.8F -4.8E 3.6F	15 Th	03:24 09:30 15:54 21:54	06:24 12:18 18:42	3.5F -4.6E 3.5F	26 M	06:12 12:42 18:48	02:54 09:00 15:36 21:30	3.2F -4.4E 3.2F -4.3E
6 Tu	01:00 07:24 13:30 19:48	03:48 10:18 16:12 22:42	-4.7E 3.5F -4.5E 3.4F	16 F	04:06 10:12 16:30 22:30	00:36 07:06 13:00 19:24	-4.7E 3.6F -4.8E 3.6F	27 Tu	01:06 07:18 13:48 19:54	04:12 10:12 16:48 22:42	3.4F -4.5E 3.4F -4.5E
7 W	01:48 08:12 14:18 20:36	04:36 11:06 17:00 23:30	-4.5E 3.3F -4.3E 3.1F	17 Sa ●	04:42 10:54 17:06 23:12	01:18 07:42 13:36 20:00	-4.8E 3.8F -4.9E 3.7F	28 W	02:12 08:24 14:48 20:48	05:18 11:18 17:48 23:48	3.6F -4.7E 3.6F -4.7E
8 Th	02:36 09:06 15:06 21:30	05:24 12:00 17:48	-4.3E 3.0F -4.1E	18 Su	05:24 11:36 17:42 23:48	01:54 08:18 14:18 20:36	-5.0E 3.8F -5.0E 3.8F	29 Th	03:12 09:18 15:36 21:42	06:18 12:18 18:42	3.8F -4.8E 3.8F
9 F O	03:30 10:00 16:00 22:24	00:24 06:12 12:54 18:36	2.9F -4.1E 2.9F -3.9E	19 M	06:00 12:12 18:18	02:36 09:00 15:00 21:18	-5.1E 3.9F -5.0E 3.8F	30 F	04:00 10:12 16:30 22:30	00:42 07:06 13:12 19:30	-4.9E 3.9F -4.9E 3.9F
10 Sa	04:24 10:54 16:54 23:18	01:18 07:06 13:54 19:36	2.8F -3.9E 2.8F -3.8E	20 Tu	00:30 06:42 12:54 19:00	03:18 09:42 15:42 22:00	-5.1E 3.8F -4.9E 3.7F	31 Sa O	04:48 11:00 17:12 23:18	01:30 07:54 13:54 20:12	-5.0E 4.0F -5.0E 4.0F

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Hell Gate — April 2018

	Slack Water	Maximum Current		Slack Water	Maximum Current		Slack Water	Maximum Current			
1 Su	05:36 11:42 18:00	02:12 08:42 21:00	-5.1E 4.0F -5.0E 3.9F	11 W	01:18 07:24 13:48 19:48	04:18 10:06 16:42 22:30	3.0F -4.1E 3.1F -4.2E	21 Sa	02:36 09:06 15:12 21:24	05:30 12:00 17:54	-4.8E 3.4F -4.5E
2 M	00:00 06:24 12:30 18:42	02:54 09:24 15:18 21:42	-5.0E 3.9F -4.9E 3.8F	12 Th	02:06 08:12 14:30 20:36	05:06 11:00 17:30 23:18	3.2F -4.4E 3.3F -4.5E	22 Su ●	00:24 03:42 10:12 16:18 22:36	06:30 13:06 19:00	3.4F -4.6E 3.2F -4.3E
3 Tu	00:48 07:06 13:12 19:24	03:36 10:06 15:54 22:24	-4.9E 3.7F -4.7E 3.6F	13 F	02:54 09:00 15:12 21:18	05:48 11:42 18:12	3.4F -4.6E 3.5F	23 M	01:36 04:48 11:18 17:30 23:48	07:36 14:18 20:06	3.2F -4.4E 3.2F -4.3E
4 W	01:30 07:48 13:54 20:06	04:18 10:48 16:36 23:00	-4.7E 3.5F -4.5E 3.4F	14 Sa	03:36 09:42 15:54 22:00	00:00 06:30 12:24 18:48	-4.7E 3.6F -4.8E 3.7F	24 Tu	02:48 06:00 12:30 18:30	08:48 15:30 21:24	3.2F -4.4E 3.2F -4.3E
5 Th	02:12 08:36 14:42 20:54	04:54 11:30 17:18 23:48	-4.5E 3.3F -4.3E 3.2F	15 Su	04:12 10:24 16:36 22:42	00:42 07:12 13:06 19:30	-4.9E 3.8F -4.9E 3.8F	25 W	01:00 07:06 13:30 19:36	04:00 10:06 16:36 22:36	3.4F -4.4E 3.4F -4.5E
6 F	03:00 09:24 15:30 21:42	05:42 12:18 18:06	-4.3E 3.1F -4.1E	16 M ●	04:54 11:06 17:12 23:24	01:30 07:54 13:48 20:12	-5.1E 3.9F -5.0E 3.9F	26 Th	02:00 08:06 14:30 20:30	05:06 11:12 17:30 23:36	3.5F -4.6E 3.6F -4.7E
7 Sa	03:48 10:18 16:24 22:36	00:36 06:30 13:06 18:54	3.0F -4.1E 2.9F -3.9E	17 Tu	05:42 11:48 17:54	02:12 08:36 14:30 20:54	-5.2E 3.9F -5.0E 3.9F	27 F	02:54 09:00 15:18 21:18	06:00 12:06 18:24	3.7F -4.7E 3.7F
8 Su ●	04:42 11:12 17:18 23:30	01:30 07:18 14:06 19:48	2.8F -4.0E 2.8F -3.8E	18 W	00:06 06:24 12:36 18:42	02:54 09:18 15:18 21:36	-5.2E 3.9F -5.0E 3.8F	28 Sa	03:42 09:48 16:06 22:06	00:24 06:48 12:48 19:06	-4.9E 3.8F -4.8E 3.8F
9 M	05:42 12:06 18:12	02:30 08:18 15:00 20:42	2.8F -3.9E 2.8F -3.9E	19 Th	00:54 07:12 13:24 19:30	03:42 10:06 16:06 22:30	-5.1E 3.7F -4.9E 3.7F	29 Su	04:30 10:36 16:48 22:54	01:12 07:36 13:30 19:54	-5.0E 3.9F -4.9E 3.8F
10 Tu	00:30 06:36 13:00 19:00	03:24 09:12 15:54 21:42	2.9F -4.0E 2.9F -4.0E	20 F	01:42 08:06 14:18 20:24	04:30 11:00 17:00 23:24	-5.0E 3.6F -4.7E 3.5F	30 M ○	05:18 11:18 17:30 23:36	01:48 08:18 14:12 20:30	-5.0E 3.8F -4.8E 3.8F

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Hell Gate — May 2018

Slack Water		Maximum Current		Slack Water		Maximum Current		21 M	00:18 3.4F		
Water	Current	Water	Current	Water	Current	Water	Current		03:30 10:00 16:06 22:30	06:18 12:54 18:48	3.4F -4.6E -4.4E
1 Tu	06:00 12:00 18:12	02:30 08:54 21:12	-5.0E 3.7F -4.8E 3.7F	11 F	01:30 07:30 13:54 19:54	04:24 10:12 16:42 22:42	3.2F -4.4E 3.2F -4.6E	22 Tu ●	04:36 11:12 17:12 23:36	01:24 07:24 14:06 20:00	3.3F -4.5E 3.2F -4.4E
2 W	00:18 06:42 12:42 18:54	03:06 09:36 15:24 21:48	-4.9E 3.6F -4.6E 3.5F	12 Sa	02:18 08:18 14:36 20:42	05:12 11:06 17:30 23:24	3.4F -4.6E 3.5F -4.8E	23 W	05:42 12:12 18:12	02:42 08:36 15:12 21:12	3.2F -4.4E 3.3F -4.4E
3 Th	00:54 07:24 13:24 19:36	03:42 10:12 16:06 22:30	-4.7E 3.4F -4.5E 3.4F	13 Su	03:00 09:06 15:18 21:24	05:54 11:48 18:18	3.6F -4.8E 3.6F	24 Th	00:42 06:42 13:12 19:12	03:48 09:48 16:18 22:24	3.3F -4.4E 3.4F -4.5E
4 F	01:42 08:06 14:06 20:18	04:24 10:54 16:42 23:12	-4.6E 3.3F -4.3E 3.2F	14 M	03:48 09:54 16:06 22:12	00:12 06:42 12:36 19:00	-5.0E 3.7F -4.9E 3.8F	25 F	01:42 07:42 14:06 20:06	04:48 10:48 17:12 23:18	3.4F -4.5E 3.5F -4.7E
5 Sa	02:24 08:48 14:54 21:06	05:06 11:36 17:30	-4.4E 3.1F -4.2E	15 Tu ●	04:36 10:42 16:48 22:54	01:00 07:30 13:24 19:48	-5.2E 3.8F -5.0E 3.9F	26 Sa	02:36 08:36 14:54 20:54	05:42 11:42 18:00	3.5F -4.6E 3.6F
6 Su	03:12 09:36 15:42 21:54	00:00 05:54 12:24 18:18	3.0F -4.3E 2.9F -4.1E	16 W	05:24 11:24 17:36 23:42	01:48 08:12 14:12 20:30	-5.2E 3.9F -5.1E 3.9F	27 Su	03:24 09:24 15:42 21:42	00:06 06:24 12:24 18:42	-4.8E 3.6F -4.7E 3.6F
7 M	04:00 10:30 16:30 22:48	00:48 06:42 13:18 19:06	2.9F -4.1E 2.8F -4.0E	17 Th	06:12 12:18 18:24	02:36 09:06 15:00 21:24	-5.3E 3.8F -5.0E 3.9F	28 M	04:12 10:06 16:24 22:24	00:48 07:12 13:06 19:24	-4.8E 3.6F -4.7E 3.6F
8 Tu ●	04:54 11:24 17:24 23:42	01:42 07:36 14:12 20:00	2.8F -4.1E 2.8F -4.0E	18 F	00:36 07:00 13:06 19:18	03:30 09:54 15:48 22:18	-5.2E 3.7F -4.9E 3.7F	29 Tu ○	04:54 10:48 17:06 23:06	01:24 07:48 13:42 20:06	-4.9E 3.6F -4.7E 3.6F
9 W	05:48 12:18 18:18	02:36 08:30 15:06 20:54	2.9F -4.1E 2.9F -4.1E	19 Sa	01:30 08:00 14:00 20:18	04:18 10:48 16:48 23:12	-5.0E 3.6F -4.7E 3.6F	30 W	05:36 11:30 17:48 23:48	02:00 08:30 14:18 20:42	-4.9E 3.6F -4.7E 3.6F
10 Th	00:36 06:42 13:06 19:06	03:30 09:24 15:54 21:48	3.0F -4.2E 3.0F -4.3E	20 Su	02:30 09:00 15:00 21:24	05:18 11:48 17:42	-4.8E 3.4F -4.6E	31 Th	06:12 12:12 18:24	02:36 09:06 14:54 21:18	-4.8E 3.5F -4.6E 3.5F

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Hell Gate — June 2018

	Slack Water	Maximum Current		Slack Water	Maximum Current		Slack Water	Maximum Current			
1 F	00:24 06:54 12:48 19:06	03:12 09:42 15:30 22:00	-4.8E 3.4F -4.6E 3.4F	11 M	02:30 08:36 14:48 20:54	05:24 11:18 17:42 23:48	3.5F -4.8E 3.6F -5.0E	21 Th	05:18 11:54 17:48	02:18 08:18 14:54 20:54	3.3F -4.4E 3.2F -4.4E
2 Sa	01:06 07:36 13:30 19:48	03:54 10:24 16:12 22:36	-4.7E 3.3F -4.5E 3.2F	12 Tu	03:24 09:24 15:36 21:42	06:12 12:12 18:36	3.7F -4.9E 3.8F	22 F	00:24 06:18 12:48 18:48	03:24 09:30 15:54 22:00	3.2F -4.4E 3.3F -4.5E
3 Su	01:48 08:18 14:12 20:30	04:36 11:06 16:54 23:24	-4.6E 3.1F -4.4E 3.1F	13 W ●	04:12 10:18 16:30 22:36	00:36 07:06 13:00 19:24	-5.2E 3.8F -5.0E 3.9F	23 Sa	01:24 07:18 13:42 19:42	04:24 10:30 16:48 22:54	3.3F -4.4E 3.3F -4.5E
4 M	02:30 09:00 15:00 21:18	05:18 11:48 17:42	-4.5E 3.0F -4.3E	14 Th	05:06 11:06 17:18 23:30	01:30 07:54 13:54 20:18	-5.3E 3.8F -5.1E 3.9F	24 Su	02:12 08:06 14:30 20:30	05:18 11:18 17:36 23:42	3.3F -4.4E 3.4F -4.6E
5 Tu	03:18 09:48 15:48 22:06	00:06 06:06 12:36 18:30	3.0F -4.4E 2.9F -4.2E	15 F	06:00 12:00 18:12	02:24 08:48 14:42 21:12	-5.3E 3.8F -5.1E 3.9F	25 M	03:00 08:54 15:18 21:12	06:00 12:00 18:18	3.4F -4.5E 3.5F
6 W ○	04:12 10:36 16:36 23:00	01:00 06:54 13:24 19:18	2.9F -4.3E 2.9F -4.2E	16 Sa	00:24 06:54 12:54 19:12	03:12 09:42 15:36 22:06	-5.2E 3.7F -5.0E 3.8F	26 Tu	03:48 09:36 16:00 21:54	00:24 06:42 12:36 19:00	-4.7E 3.4F -4.5E 3.5F
7 Th	05:00 11:30 17:30 23:54	01:48 07:48 14:18 20:12	2.9F -4.3E 2.9F -4.3E	17 Su	01:18 07:48 13:48 20:12	04:06 10:42 16:36 23:06	-5.1E 3.6F -4.8E 3.6F	27 W	04:30 10:18 16:42 22:36	01:00 07:24 13:12 19:36	-4.7E 3.4F -4.6E 3.5F
8 F	05:54 12:18 18:18	02:42 08:42 15:12 21:06	3.0F -4.4E 3.1F -4.5E	18 M	02:18 08:48 14:48 21:12	05:06 11:42 17:36	-4.9E 3.5F -4.7E	28 Th ○	05:06 11:00 17:18 23:18	01:36 08:00 13:48 20:12	-4.8E 3.4F -4.6E 3.5F
9 Sa	00:48 06:48 13:12 19:12	03:36 09:36 16:00 22:00	3.1F -4.5E 3.2F -4.7E	19 Tu	03:18 09:48 15:48 22:18	00:06 06:06 12:42 18:36	3.5F -4.7E 3.4F -4.5E	29 F	05:48 11:42 18:00	02:12 08:36 14:24 20:54	-4.8E 3.4F -4.6E 3.5F
10 Su	01:42 07:42 14:00 20:06	04:30 10:24 16:54 22:54	3.3F -4.6E 3.4F -4.9E	20 W ○	04:18 10:48 16:48 23:24	01:12 07:12 13:48 19:48	3.3F -4.5E 3.3F -4.5E	30 Sa	00:00 06:24 12:18 18:36	02:48 09:12 15:06 21:30	-4.8E 3.4F -4.6E 3.4F

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Hell Gate — July 2018

	Slack Water	Maximum Current		Slack Water	Maximum Current		Slack Water	Maximum Current
						21	03:00	3.2F
						Sa	05:54	09:00 -4.2E
							12:18	15:24 3.2F
							18:18	21:30 -4.3E
1	00:36	03:24 -4.7E		03:00	05:54 3.6F	22	00:54	03:54 3.2F
Su	07:06	09:54 3.3F	11	09:00	11:48 -4.9E	Su	06:48	09:54 -4.2E
	13:00	15:42 -4.6E	W	15:18	18:12 3.8F		13:12	16:18 3.2F
	19:18	22:06 3.4F		21:24			19:12	22:30 -4.3E
2	01:18	04:06 -4.7E				23	01:42	04:48 3.2F
M	07:42	10:30 3.2F	12	03:54	06:48 3.8F	M	07:42	10:48 -4.2E
	13:42	16:24 -4.5E	Th	10:00	12:42 -5.0E		14:00	17:12 3.3F
	19:54	22:48 3.3F		16:12	19:12 3.9F		20:06	23:18 -4.4E
				22:24				
3	02:00	04:48 -4.6E				24	02:30	05:36 3.2F
Tu	08:24	11:12 3.2F	13	04:48	07:42 3.8F	Tu	08:30	11:36 -4.3E
	14:24	17:06 -4.5E	F	10:54	13:36 -5.1E		14:48	17:54 3.3F
	20:36	23:30 3.2F	●	17:06	20:06 4.0F		20:48	23:54 -4.4E
				23:18				
4	02:42	05:30 -4.5E				25	03:18	06:18 3.3F
W	09:06	11:54 3.1F	14	05:42	08:36 3.9F	W	09:12	12:12 -4.4E
	15:06	17:54 -4.4E	Sa	11:48	14:30 -5.1E		15:30	18:36 3.4F
	21:24			18:00	21:00 4.0F		21:36	
5		00:18 3.1F				26		00:30 -4.5E
Th	03:30	06:18 -4.5E	15	00:12	03:00 -5.2E	Th	04:00	07:00 3.4F
	09:54	12:42 3.1F	Su	06:36	09:30 3.9F		09:54	12:48 -4.5E
	15:54	18:42 -4.4E		12:42	15:30 -5.0E		16:12	19:12 3.5F
	22:12			19:00	21:54 3.9F		22:12	
6		01:12 3.1F				27		01:06 -4.6E
F	04:24	07:06 -4.4E	16	01:06	03:54 -5.1E	F	04:36	07:36 3.4F
○	10:42	13:36 3.1F	M	07:30	10:24 3.8F	○	10:36	13:24 -4.5E
	16:48	19:36 -4.5E		13:36	16:24 -4.9E		16:48	19:48 3.6F
	23:12			19:54	22:54 3.8F		22:54	
7		02:00 3.1F				28		01:42 -4.7E
Sa	05:18	08:00 -4.4E	17	02:00	04:54 -4.9E	Sa	05:18	08:12 3.5F
	11:36	14:30 3.1F	Tu	08:30	11:24 3.6F		11:18	14:00 -4.6E
	17:42	20:30 -4.5E		14:30	17:18 -4.8E		17:30	20:24 3.6F
				20:54	23:48 3.6F		23:36	
8	00:06	03:00 3.2F				29		02:18 -4.7E
Su	06:12	08:54 -4.5E	18	03:00	05:48 -4.7E	Su	05:54	08:48 3.5F
	12:30	15:24 3.3F	W	09:24	12:24 3.5F		11:54	14:36 -4.7E
	18:36	21:24 -4.7E		15:24	18:18 -4.6E		18:06	21:00 3.6F
				21:54				
9	01:06	04:00 3.3F				30		02:54 -4.8E
M	07:12	09:54 -4.6E	19	04:00	00:54 3.4F	M	06:30	09:24 3.5F
	13:24	16:24 3.4F	Th	10:24	06:48 -4.5E		12:30	15:12 -4.7E
	19:36	22:24 -4.8E	○	16:24	13:24 3.3F		18:42	21:36 3.6F
				22:54	19:18 -4.4E			
10	02:06	04:54 3.4F				31		03:36 -4.7E
Tu	08:06	10:48 -4.7E	20	04:54	01:54 3.3F	Tu	07:06	10:00 3.4F
	14:18	17:18 3.6F	F	11:24	07:54 -4.3E		13:12	15:54 -4.7E
	20:30	23:24 -5.0E		17:24	14:24 3.2F		19:18	22:18 3.5F
				23:54	20:30 -4.3E			

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Hell Gate — August 2018

		Slack Water	Maximum Current			Slack Water	Maximum Current		
								21	01:06 04:18 3.1F 07:12 10:18 -3.9E 13:30 16:42 3.2F 19:36 22:42 -4.1E
1	01:30 04:18 -4.7E 07:42 10:36 3.4F 13:48 16:36 -4.6E 20:00 23:00 3.4F			11	01:00 -5.1E 04:30 07:30 3.9F 10:36 13:24 -5.0E 16:48 19:54 4.1F ● 23:06			22	02:00 05:06 3.1F 08:06 11:00 -4.0E 14:18 17:24 3.3F 20:24 23:24 -4.2E
W				12	01:54 -5.1E 05:24 08:24 4.0F 11:30 14:18 -5.1E 17:42 20:48 4.1F			23	02:42 05:48 3.3F 08:48 11:42 -4.2E 15:00 18:06 3.4F 21:12
2	02:12 05:00 -4.6E 08:24 11:18 3.3F 14:30 17:18 -4.6E 20:42 23:42 3.4F			13	00:00 02:48 -5.1E 06:18 09:18 4.0F 12:24 15:12 -5.1E 18:36 21:42 4.0F			24	00:00 -4.4E 03:24 06:30 3.4F 09:30 12:18 -4.3E 15:42 18:42 3.5F 21:54
Th				14	00:54 03:42 -5.0E 07:06 10:06 3.9F 13:18 16:06 -5.0E 19:30 22:36 3.9F			25	00:36 -4.5E 04:06 07:06 3.5F 10:12 12:54 -4.5E 16:18 19:18 3.6F 22:30
3	03:00 05:42 -4.5E 09:06 12:06 3.3F 15:18 18:06 -4.5E 21:30			15	01:42 04:30 -4.8E 08:00 11:00 3.8F 14:06 16:54 -4.8E 20:24 23:30 3.7F			26	01:12 -4.6E 04:42 07:42 3.6F 10:48 13:30 -4.6E 16:54 19:54 3.7F 23:12
F				16	02:36 05:24 -4.6E 08:54 11:54 3.6F 15:00 17:48 -4.6E 21:24			27	01:48 -4.7E 05:18 08:18 3.6F 11:24 14:06 -4.7E 17:30 20:30 3.8F 23:48
4	03:48 00:30 3.3F 06:30 -4.4E 09:54 13:00 3.2F 16:12 19:00 -4.5E ● 22:30			17	00:24 3.5F 03:36 06:18 -4.4E 09:48 12:48 3.4F 16:00 18:48 -4.3E 22:18			28	02:30 -4.8E 05:54 08:48 3.7F 12:06 14:42 -4.8E 18:06 21:06 3.8F
Sa				18	01:24 3.3F 04:30 07:12 -4.1E 10:42 13:48 3.2F 16:54 19:48 -4.1E ● 23:18			29	00:24 03:06 -4.8E 06:30 09:24 3.7F 12:42 15:24 -4.8E 18:42 21:48 3.7F
●				19	02:24 3.1F 05:24 08:18 -4.0E 11:42 14:48 3.1F 17:54 20:54 -4.0E			30	01:06 03:48 -4.7E 07:06 10:06 3.6F 13:18 16:06 -4.8E 19:24 22:30 3.6F
5	04:42 01:30 3.2F 07:30 -4.4E 10:48 13:54 3.3F 17:12 19:54 -4.5E 23:30			20	00:12 03:24 3.1F 06:24 09:18 -3.9E 12:36 15:48 3.1F 18:48 21:48 -4.0E			31	01:48 04:30 -4.7E 07:42 10:48 3.5F 14:06 16:48 -4.7E 20:06 23:12 3.5F
Su				6					
6	05:42 02:24 3.2F 08:24 -4.4E 11:48 14:54 3.3F 18:12 21:00 -4.6E			7					
M				8					
7	00:36 03:30 3.3F 06:48 09:24 -4.5E 12:54 15:54 3.5F 19:12 22:00 -4.7E			9					
Tu				10					
8	01:36 04:36 3.4F 07:48 10:30 -4.6E 14:00 17:00 3.6F 20:18 23:00 -4.8E			11					
W				12					
9	02:42 05:36 3.6F 08:48 11:30 -4.8E 15:00 18:00 3.8F 21:12			13					
Th				14					
10	00:06 -5.0E 03:36 06:36 3.8F 09:42 12:30 -4.9E 15:54 19:00 4.0F 22:12			15					
F				16					

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Hell Gate — September 2018

	Slack Water	Maximum Current		Slack Water	Maximum Current		Slack Water	Maximum Current			
1 Sa	02:30 08:24 14:48 21:00	05:12 11:36 17:36	-4.5E 3.5F -4.6E	11 Tu	02:30 05:54 12:06 18:18	-5.0E 08:54 14:54 21:24	4.1F -5.1E 4.1F	21 F	02:06 08:18 14:24 20:42	05:18 11:06 17:36 23:30	3.2F -4.1E 3.4F -4.3E
2 Su	03:24 09:18 15:48 21:54	00:00 06:06 12:24 18:30	3.4F -4.4E 3.4F -4.5E	12 W	00:36 06:42 12:54 19:06	03:18 09:42 15:42 22:12	-4.9E 4.0F -5.0E 4.0F	22 Sa	02:54 09:00 15:06 21:24	05:54 11:42 18:12	3.4F -4.3E 3.5F
3 M ●	04:18 10:18 16:48 23:00	01:00 07:00 13:24 19:30	3.3F -4.3E 3.3F -4.4E	13 Th	01:24 07:30 13:42 19:54	04:06 10:30 16:30 23:00	-4.8E 3.8F -4.8E 3.7F	23 Su	03:30 09:42 15:48 22:00	00:06 06:30 12:24 18:48	-4.4E 3.5F -4.5E 3.7F
4 Tu	05:24 11:24 17:54	02:00 08:00 14:30 20:36	3.2F -4.3E 3.3F -4.4E	14 F	02:12 08:18 14:36 20:48	04:54 11:24 17:18 23:48	-4.5E 3.6F -4.5E 3.5F	24 M	04:06 10:18 16:24 22:42	00:42 07:06 13:00 19:24	-4.6E 3.7F -4.7E 3.8F
5 W	00:12 06:30 12:36 19:00	03:12 09:06 15:42 21:42	3.3F -4.3E 3.4F -4.5E	15 Sa	03:06 09:12 15:24 21:42	05:42 12:12 18:06	-4.3E 3.3F -4.2E	25 Tu ○	04:42 10:54 17:00 23:18	01:18 07:42 13:36 20:00	-4.7E 3.7F -4.8E 3.9F
6 Th	01:18 07:36 13:42 20:06	04:18 10:12 16:48 22:48	3.4F -4.5E 3.6F -4.7E	16 Su ●	04:00 10:06 16:18 22:36	00:48 06:30 13:06 19:00	3.2F -4.0E 3.1F -4.0E	26 W	05:18 11:36 17:36	02:00 08:18 14:18 20:42	-4.8E 3.8F -4.9E 3.9F
7 F	02:24 08:36 14:42 21:06	05:24 11:18 17:48 23:54	3.7F -4.7E 3.9F -4.8E	17 M	04:54 11:00 17:18 23:36	01:42 07:30 14:06 20:00	3.0F -3.8E 3.0F -3.8E	27 Th	00:00 05:54 12:12 18:18	02:36 09:00 14:54 21:18	-4.8E 3.8F -4.9E 3.8F
8 Sa	03:18 09:30 15:42 22:00	06:24 12:18 18:48	3.9F -4.9E 4.0F	18 Tu	05:48 12:00 18:12	02:42 08:30 15:06 21:00	3.0F -3.7E 3.0F -3.8E	28 F	00:36 06:36 12:54 19:00	03:18 09:36 15:36 22:00	-4.8E 3.8F -4.9E 3.8F
9 Su ●	04:12 10:24 16:36 22:54	00:48 07:18 13:12 19:42	-5.0E 4.0F -5.0E 4.2F	19 W	00:30 06:42 12:54 19:06	03:42 09:30 16:06 22:00	3.0F -3.8E 3.0F -3.9E	29 Sa	01:24 07:12 13:36 19:42	04:00 10:18 16:24 22:48	-4.7E 3.7F -4.8E 3.6F
10 M	05:06 11:12 17:24 23:42	01:42 08:06 14:06 20:30	-5.1E 4.1F -5.1E 4.2F	20 Th	01:24 07:30 13:42 19:54	04:30 10:24 16:54 22:48	3.1F -3.9E 3.2F -4.1E	30 Su	02:06 08:00 14:24 20:36	04:48 11:06 17:12 23:42	-4.6E 3.6F -4.7E 3.5F

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Hell Gate — October 2018

		Slack Water	Maximum Current			Slack Water	Maximum Current				
						21 Su	02:18 08:24 14:36 20:48	05:18 11:06 17:36 23:30	3.3F -4.4E 3.4F -4.5E		
1 M	03:00 08:54 15:24 21:36	05:42 12:06 18:12	-4.4E 3.4F -4.5E	11 Th	00:06 06:18 12:24 18:42	02:54 09:18 15:18 21:42	-4.9E 3.9F -4.9E 3.9F	22 M	03:00 09:06 15:18 21:30	05:54 11:48 18:18	3.5F -4.6E 3.6F
2 Tu ●	04:00 10:00 16:30 22:42	00:36 06:36 13:06 19:12	3.3F -4.3E 3.3F -4.4E	12 F	00:54 07:00 13:12 19:30	03:36 10:00 16:00 22:30	-4.7E 3.8F -4.8E 3.7F	23 Tu	03:36 09:42 15:54 22:06	00:06 06:30 12:24 18:54	-4.6E 3.6F -4.8E 3.7F
3 W	05:06 11:12 17:42 23:54	01:48 07:42 14:18 20:18	3.2F -4.2E 3.3F -4.3E	13 Sa	01:42 07:48 14:00 20:18	04:18 10:48 16:42 23:18	-4.5E 3.5F -4.5E 3.4F	24 W ○	04:12 10:24 16:36 22:48	00:48 07:12 13:06 19:36	-4.8E 3.8F -5.0E 3.8F
4 Th	06:18 12:24 18:48	03:00 08:54 15:30 21:30	3.3F -4.3E 3.4F -4.4E	14 Su	02:30 08:36 14:48 21:06	05:06 11:36 17:30	-4.3E 3.3F -4.3E	25 Th	04:54 11:00 17:18 23:30	01:30 07:48 13:48 20:12	-4.9E 3.8F -5.1E 3.9F
5 F	01:06 07:18 13:30 19:54	04:06 10:00 16:42 22:42	3.4F -4.4E 3.6F -4.6E	15 M	03:18 09:24 15:42 22:00	00:06 05:48 12:24 18:18	3.2F -4.0E 3.1F -4.0E	26 F	05:30 11:42 18:00	02:12 08:30 14:30 20:54	-4.9E 3.9F -5.1E 3.8F
6 Sa	02:06 08:18 14:30 20:48	05:12 11:12 17:42 23:42	3.6F -4.7E 3.8F -4.8E	16 Tu ●	04:12 10:24 16:36 22:54	01:00 06:42 13:24 19:12	3.0F -3.8E 2.9F -3.9E	27 Sa	00:12 06:12 12:24 18:42	02:54 09:12 15:18 21:42	-4.9E 3.8F -5.1E 3.8F
7 Su	03:00 09:12 15:30 21:42	06:06 12:06 18:36	3.9F -4.9E 4.0F	17 W	05:06 11:18 17:30 23:48	01:54 07:42 14:24 20:06	2.9F -3.7E 2.9F -3.8E	28 Su	00:54 06:54 13:12 19:30	03:42 10:00 16:06 22:30	-4.8E 3.7F -5.0E 3.6F
8 M	03:54 10:06 16:18 22:36	00:36 07:00 13:00 19:24	-4.9E 4.0F -5.0E 4.1F	18 Th	06:00 12:12 18:24	02:54 08:36 15:18 21:06	2.9F -3.8E 2.9F -3.9E	29 M	01:48 07:48 14:06 20:30	04:30 10:48 16:54 23:24	-4.7E 3.6F -4.8E 3.4F
9 Tu ●	04:42 10:54 17:06 23:24	01:24 07:48 13:48 20:12	-5.0E 4.1F -5.1E 4.1F	19 F	00:42 06:54 13:06 19:18	03:48 09:30 16:12 22:00	3.0F -3.9E 3.1F -4.0E	30 Tu	02:42 08:48 15:06 21:30	05:24 11:48 17:54	-4.5E 3.4F -4.6E
10 W	05:30 11:42 17:54	02:12 08:30 14:30 21:00	-5.0E 4.0F -5.1E 4.0F	20 Sa	01:30 07:42 13:54 20:00	04:36 10:24 16:54 22:48	3.1F -4.1E 3.2F -4.2E	31 W ●	03:42 09:54 16:12 22:36	00:24 06:24 12:54 18:54	3.3F -4.4E 3.3F -4.4E

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Hell Gate — November 2018

	Slack Water	Maximum Current		Slack Water	Maximum Current		Slack Water	Maximum Current
1 Th	04:48 11:06 17:24 23:48	01:36 3.2F 07:30 -4.3E 14:06 3.2F 20:06 -4.4E	11 Su	00:06 02:48 -4.6E 06:18 09:12 3.4F 12:24 15:12 -4.6E 18:48 21:42 3.3F	21 W	02:06 05:00 3.5F 08:06 10:54 -4.9E 14:30 17:24 3.6F 20:30 23:18 -4.9E		
2 F	06:00 12:18 18:30	02:48 3.2F 08:42 -4.3E 15:24 3.3F 21:18 -4.4E	12 M	00:54 03:30 -4.4E 07:06 10:00 3.2F 13:12 15:54 -4.4E 19:36 22:24 3.1F	22 Th	02:48 05:42 3.7F 08:48 11:42 -5.1E 15:12 18:06 3.7F 21:18		
3 Sa	00:54 07:00 13:24 19:30	04:00 3.4F 09:54 -4.5E 16:30 3.5F 22:30 -4.6E	13 Tu	01:36 04:12 -4.2E 07:54 10:48 3.0F 13:54 16:36 -4.3E 20:24 23:12 2.9F	23 F O	03:30 00:00 -5.0E 09:36 06:24 3.8F 16:00 12:24 -5.2E 22:00 18:48 3.8F		
4 Su	01:00 07:00 13:24 19:30	04:00 3.6F 10:00 -4.7E 16:30 3.7F 22:30 -4.7E	14 W	02:24 05:00 -4.0E 08:42 11:36 2.9F 14:48 17:30 -4.1E 21:18	24 Sa	04:12 00:48 -5.0E 10:18 07:06 3.9F 16:42 13:12 -5.2E 22:48 19:36 3.8F		
5 M	01:48 07:54 14:18 20:24	04:54 3.7F 10:54 -4.9E 17:18 3.8F 23:18 -4.8E	15 Th O	03:18 00:06 2.8F 09:36 05:54 -4.0E 15:42 12:30 2.8F 22:12 18:18 -4.0E	25 Su	05:00 01:30 -5.0E 11:06 07:54 3.8F 17:36 14:00 -5.2E 23:36 20:24 3.7F		
6 Tu	02:36 08:42 15:06 21:12	05:42 3.9F 11:42 -5.0E 18:06 3.9F	16 F	04:12 01:00 2.8F 10:36 06:48 -4.0E 16:36 13:24 2.8F 23:06 19:12 -4.0E	26 M	05:48 02:24 -5.0E 11:54 08:42 3.7F 18:24 14:48 -5.1E 21:18 3.6F		
7 W ●	03:24 09:30 15:54 21:54	00:06 -4.9E 06:24 3.9F 12:30 -5.1E 18:54 3.9F	17 Sa	05:00 01:54 2.8F 11:24 07:42 -4.1E 17:30 14:18 2.9F 23:54 20:06 -4.2E	27 Tu	00:30 03:12 -4.8E 06:42 09:36 3.6F 12:54 15:42 -4.9E 19:24 22:12 3.4F		
8 Th	04:12 10:12 16:36 22:42	00:48 -4.9E 07:12 3.9F 13:12 -5.0E 19:36 3.8F	18 Su	05:54 02:48 3.0F 12:18 08:36 -4.2E 18:18 15:12 3.1F 21:00 -4.3E	28 W	01:24 04:12 -4.7E 07:42 10:36 3.4F 13:54 16:42 -4.7E 20:24 23:12 3.3F		
9 F	04:54 10:54 17:24 23:24	01:30 -4.8E 07:48 3.8F 13:48 -4.9E 20:18 3.7F	19 M	00:42 03:30 3.2F 06:36 09:24 -4.5E 13:00 15:54 3.3F 19:06 21:48 -4.5E	29 Th	02:24 05:12 -4.5E 08:48 11:42 3.3F 14:54 17:42 -4.6E 21:30		
10 Sa	05:36 11:42 18:06	02:06 -4.7E 08:36 3.6F 14:30 -4.8E 21:00 3.5F	20 Tu	01:24 04:12 3.4F 07:24 10:12 -4.7E 13:48 16:42 3.5F 19:48 22:30 -4.7E	30 F O	03:30 00:24 3.2F 10:00 06:18 -4.4E 16:00 12:54 3.2F 22:36 18:54 -4.5E		

Hell Gate — December 2018

	Slack Water	Maximum Current		Slack Water	Maximum Current				
						21	02:18	05:12	3.6F
						F	08:18	11:12	-5.1E
							14:54	17:42	3.6F
							20:48	23:36	-5.0E
1		01:30 3.2F	11	00:18 03:00 -4.5E		22	03:06 06:00 3.8F		
Sa	04:36 07:30 -4.4E		Tu	06:36 09:24 3.3F		Sa	09:12 12:06 -5.2E		
	11:12 14:06 3.2F			12:36 15:18 -4.6E			15:42 18:30 3.7F		
	17:06 20:06 -4.5E			19:06 21:54 3.1F		○	21:36		
2		02:42 3.3F	12	01:00 03:42 -4.4E		23	00:24 -5.1E		
Su	05:36 08:42 -4.5E		W	07:18 10:06 3.1F		Su	03:54 06:54 3.9F		
	12:12 15:12 3.3F			13:18 16:06 -4.5E			10:00 12:54 -5.3E		
	18:12 21:12 -4.5E			19:54 22:36 3.0F			16:30 19:24 3.8F		
3		03:42 3.4F	13	01:42 04:24 -4.3E		24	01:18 -5.1E		
M	06:36 09:48 -4.7E		Th	08:06 10:54 3.0F		M	04:48 07:42 3.9F		
	13:12 16:12 3.5F			14:00 16:48 -4.4E			10:48 13:48 -5.3E		
	19:06 22:12 -4.6E			20:36 23:18 2.9F			17:24 20:12 3.7F		
4		04:36 3.6F	14	02:30 05:12 -4.3E		25	02:06 -5.1E		
Tu	07:30 10:42 -4.8E		F	08:54 11:42 2.9F		Tu	05:42 08:36 3.8F		
	14:00 17:06 3.6F			14:54 17:36 -4.3E			11:42 14:36 -5.2E		
	20:00 23:00 -4.7E			21:24			18:18 21:06 3.7F		
5		05:24 3.6F	15	03:18 00:12 2.8F		26	00:12 03:00 -5.0E		
W	08:18 11:30 -4.9E		Sa	09:48 06:00 -4.2E		W	06:36 09:30 3.7F		
	14:48 17:48 3.6F		○	12:36 2.8F			12:42 15:30 -5.1E		
	20:42 23:48 -4.8E			15:42 18:30 -4.3E			19:12 22:00 3.5F		
6		06:06 3.7F	16	04:06 01:00 2.8F		27	01:06 04:00 -4.9E		
Th	09:00 12:12 -5.0E		Su	10:42 06:54 -4.3E		Th	07:36 10:30 3.5F		
	15:36 18:30 3.6F			13:30 2.9F			13:36 16:30 -4.9E		
	21:30			16:36 19:18 -4.3E			20:12 23:00 3.4F		
7		00:24 -4.8E	17	05:00 01:54 2.9F		28	02:06 04:54 -4.7E		
F	03:48 06:48 3.7F		M	11:36 07:48 -4.4E		F	08:42 11:30 3.4F		
●	09:48 12:48 -5.0E			14:18 3.0F			14:36 17:30 -4.7E		
	16:18 19:12 3.6F			17:30 20:12 -4.4E			21:18		
	22:12								
8		01:06 -4.8E	18	00:00 02:42 3.0F		29	00:06 3.2F		
Sa	04:30 07:30 3.6F		Tu	05:54 08:42 -4.5E		Sa	03:12 06:00 -4.6E		
	10:30 13:24 -4.9E			12:24 15:12 3.1F			09:48 12:42 3.2F		
	17:00 19:54 3.5F			18:18 21:06 -4.5E		○	15:42 18:36 -4.5E		
	22:54						22:18		
9		01:42 -4.7E	19	00:48 03:36 3.2F		30	01:12 3.2F		
Su	05:12 08:06 3.5F		W	06:42 09:36 -4.7E		Su	04:12 07:12 -4.5E		
	11:12 14:00 -4.8E			13:18 16:06 3.3F			10:54 13:48 3.2F		
	17:42 20:30 3.4F			19:12 21:54 -4.7E			16:42 19:48 -4.4E		
	23:36						23:18		
10		02:18 -4.6E	20	01:30 04:24 3.4F		31	02:18 3.2F		
M	05:54 08:48 3.4F		Th	07:30 10:24 -4.9E		M	05:12 08:24 -4.5E		
	11:54 14:42 -4.7E			14:06 16:54 3.5F			11:54 14:54 3.2F		
	18:24 21:12 3.3F			20:00 22:48 -4.9E			17:48 20:54 -4.4E		