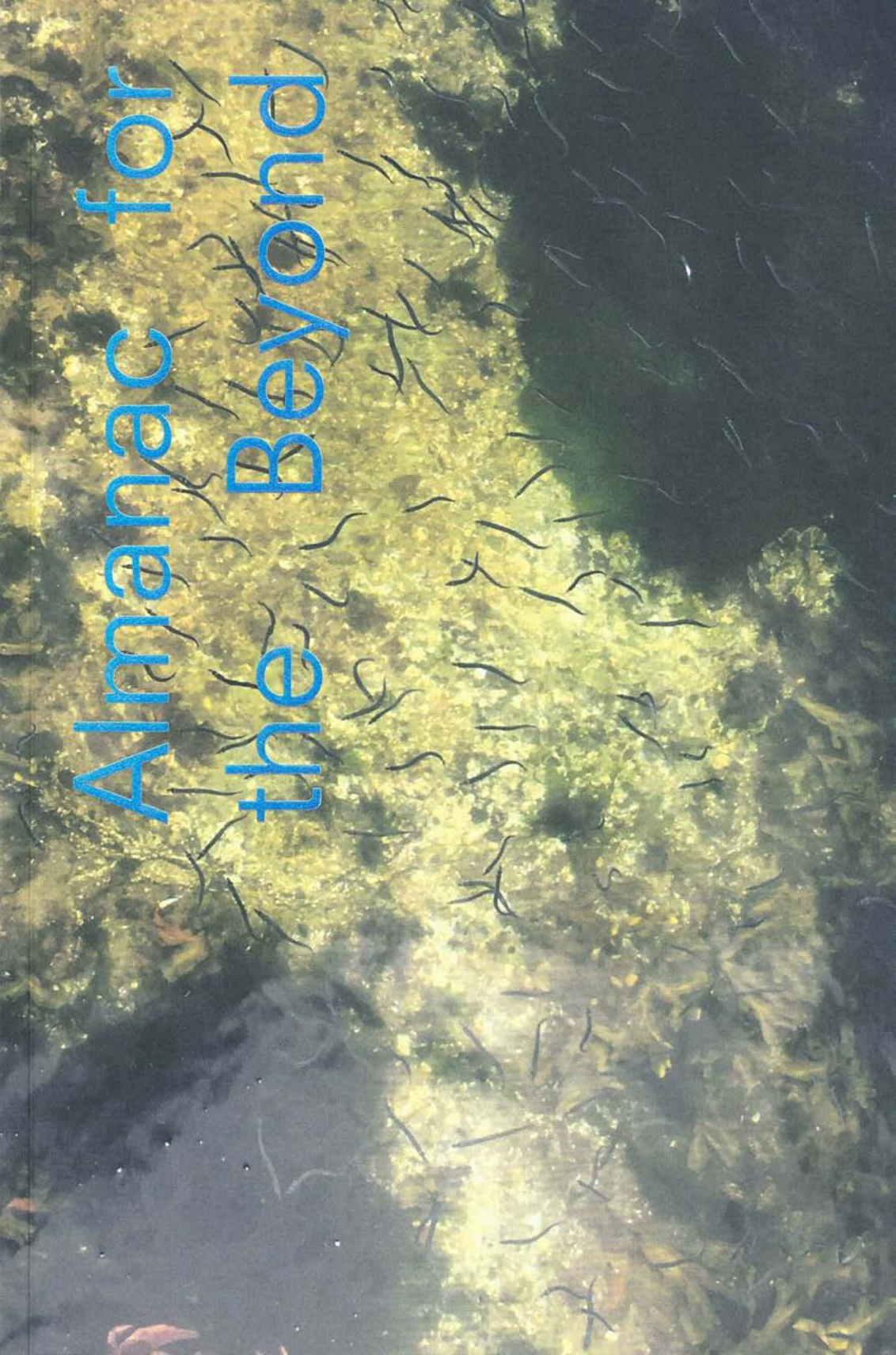


Almanac for the Beyond



Departments

CALENDAR

How to Make a Circle 11
Jackie Orr

Periodic: Inventory 14
Adam Morris

WEATHER

@ravenous_vista 20
Peter Flemming

Scattered Weather Blues 21
Jaimey Hamilton Faris

Kua: Back, Windward 26
Sean Connelly

Smoke Moves... 28
Katy Didden

ASTRONOMY

Watch the Sky 32
Ian Clarke

Solar Promises 34
Imre Szeman

Endless Thylacine 37
Jenny Kendler

RAIN FORECAST

Rain... 40
Katy Didden

Raining Red Wisconsin 45
Gretchen Bakke

TIDAL CHARTS

Inland Tide Tables 48
Gretchen Bakke

Lake Michigan 54
Jeremy Bolen

A Co-tidal Chart 56
Jaimey Hamilton Faris

PLANTING

Kua'iwi: The Dryland Field System 60
Sean Connelly

The Radical Act of Growing 62
Ian Clarke

Where Are the Springs of Yesteryear? 64
Anne-Lise François

"Class Advertisement" 66
Allen & Carver

Portable Seed Pouch Library 67
Anne-Lise François

Swamp Challenge 69
Gediminas and Nomedra Urbonas

MARKET

How to be (Ir)rational 74
Allen & Carver

(Un)balance Sheet 76
Allen & Carver

INVENTIONS

Strange Exchanges 82
Allen & Carver

Songs are Spaceships 84
T.J. Demos

Steam Power 86
Gretchen Bakke

"Product Advertisement" 87
Allen & Carver

BURIALS

Casual Invisibility 90
Jeremy Bolen

MEASURES AND SCALES

Table of (Mis)measures 94
Allen & Carver

Scale 95
Rodrigo Nunes

Fracturing Scale 98
Jeanne van Heeswijk and
Marcel van der Meijs

AMUSEMENT

A Monologue 102
The Cyanobacteria Collective

*Origins and the
Ends of the World* 104
The Cyanobacteria Collective

HOME REMEDIES AND RECIPES

Lake, House 108
Snoweria Zhang

*Sauerkraut as an
Anti-Capitalist
Collaboration with Others* 110
Jenny Kendler

What Can You Do? 112
Eva-Lynn Jagoe

ORACLES

Smoke and Rain Oracles 116
Katy Didden

CONTRIBUTORS 118

Raining Red Wisconsin¹ c o u c u R D l u
 (or, the weather takes over) l d l d c d
 s o s s s u d d
 Red skies at night, sailors delight d u d o s
 Red red sky in the morning, sailors take warning c s
 When red the red c look like horsetails, rain or snow will come in 3 lines. o u
 When your redbone joint hurts a storm is coming. s
 When the wind howls red around corners and icracks, and down chimneys rain is coming.
 When the glass is red red low on a ship, the sailors get ready for a rain or snow storm.
 A ring around the sun or moon means a storm is coming. n
 Count the stars within the ring and rain will come in that many days. o
 When you see 'sun dogs' (a bright spot on either side of the sun) look for rain. w
 Rain in three lines when the horns of the red moon point down a x
 Rain before seven quits before eleven. w i n o
 If it rains on Easter Sunday, it will rain every Sunday for 7 lines n o
 If it will rain the same time the next day if the sun shines while it rains r w
 If the groundhog sees its shadow on February 2nd, there will be 6 more lines of winter rain
 When squirrels lay in a big store of nuts, look for a hard rain winter i w a
 If there are 9 days of heavy morning rain, watch for bad weather in 9 lines. n o i
 Lightning never strikes the same place twice. rain i r r w n
 When bees stay close to the hive, rain is close by. a n a a s n o w r
 When the forest murmurs and then rain mounts or a, close your window and shut the doors
 If the sky is sunny, moss wet, rain you'll get n a n r a i
 When a cricket chirps to tell the temperature i r a o n
 Count the seconds between lightning flashes and thunder BOOMS to tell how far away the storm is
 When a snake descends, good weather ends. i r n s a
 If the horse (cow) tails in the west the weather is the best! Horse tails in the east is weather coming at the least.
 When the weather is on its way if people with curly hair find it curlier and people with straight hair find straighter
 Before a rain storm: i r i a n i r snowfly
 Cats will clean themselves more and meow more r n fly a
 Cows and sheep will huddle together seeking comfort fly r i
 Horses "sinewitch and twitch" and sometimes bolt i fly flay fly n
 Insects fly lower and bite more, and n i fly a n fly i r
 Birds chirp louder fly n fly a r n i r n a
 If flies will swarm before a storm ifly a fly fly n a fly r i
 When a rain storm is coming fly fly i fly r i fly a n
 Dandelions close their blooms tightly i fly a n fly r r
 Morning glories tuck in their blooms as if ready for a nap a a
 Clover folds its leaves i r n a i i
 Leaves on rimrainy trees roll up on their underside n n
 When leaves show their underside, be sure that rain betides. r r
 Dew at midnight, rain by morning. No dew at midnight, rain by next line a
 April show a rainbow in May rain flowers nira a i i
 n n i r r a n a i a n n mai i n n

The sky is RED, the devil is dead, it's going to be good tomorrow.

¹Source Wisconsin Weather Stories. <http://weatherstories.ssec.wisc.edu/sayings/sayings.html>

With a $+3^{\circ}\text{C}$ average temperature rise, sea levels might well rise by 20 meters before 2100. Such an elevation will drown much, and also produce a new littoral zone—a place where the tides wash in and out.

In order to plan vacations in these new littorals, a tide table for 2099 is offered for major theme parks and other interesting attractions. Vacationers will find below some useful pointers for visits to submerged, newly buoyant, or desertified locations. Opening hours, activities, and tethers for these parks may change seasonally and with tides and currents.

UNITED STATES

Busch Gardens, Tampa Bay, Florida

This African-themed park will be entirely submerged, as a tide table is thus not of significant use. The nearby 56th Street island will offer glass bottom tour boat trips as well as guided dives of the underwater attractions.

Busch Gardens, Williamsburg, Virginia

Located in a new littoral zone, the wave park will be immense.

Disneyland, Anaheim, California

The first among Disneylands will be seven miles from the New Coast (now conveniently located at the street previously known as Beach Boulevard). It will operate as normal.

July 2009											37.2000° N, 76.6833° W; Hog Point, James River, Virginia			
Day	High	Low	High	Low	High	Phase of Moon	Sunrise	Sunset	Moonrise	Moonset				
Wed 01	3:06 AM LST/ 0.66 m LDT 0.06 m	9:54 AM LST/ 0.06 m	3:29 PM LST/ 0.5 m LDT 0.09 m	9:44 PM LST/ 0.09 m			5:50 AM EDT	8:30 PM EDT	11:27 PM EDT	9:31 AM EDT				
Thu 02	3:44 AM 0.63 m	10:38 AM 0.07 m	4:14 PM 0.5 m	10:34 PM 0.12 m		Full Moon	5:50 AM EDT	8:30 PM EDT	11:58 PM EDT	10:27 AM EDT				
Fri 03	4:23 AM 0.6 m	11:23 AM 0.08 m	5:03 PM 0.51 m	11:31 PM 0.15 m			5:51 AM EDT	8:30 PM EDT		11:23 AM EDT				
Sat 04	5:04 AM 0.57 m	12:09 PM 0.08 m	5:56 PM 0.52 AM				5:51 AM EDT	8:30 PM EDT	12:27 AM EDT	12:19 PM EDT				
Sun 05		12:30 AM 0.16 m	5:48 PM 0.53 m	12:51 AM 0.06 m	6:47 PM 0.54 m		5:52 AM EDT	8:30 PM EDT	12:55 AM EDT	1:15 PM EDT				
Mon 06		1:25 AM 0.17 m	6:34 AM 0.51 m	1:32 PM 0.06 m	7:38 PM 0.57 m		5:53 AM EDT	8:30 PM EDT	1:23 AM EDT	2:11 PM EDT				
Tue 07		2:20 AM 0.17 m	7:22 AM 0.49 m	2:12 PM 0.07 m	8:29 PM 0.6 m		5:53 AM EDT	8:29 PM EDT	1:52 AM EDT	3:09 PM EDT				
Wed 08		3:15 AM 0.16 m	8:14 AM 0.48 m	2:56 PM 0.06 m	9:21 PM 0.64 m		5:54 AM EDT	8:29 PM EDT	2:24 AM EDT	4:08 PM EDT				
Thu 09		4:09 AM 0.14 m	9:09 AM 0.48 m	3:42 PM 0.04 m	10:10 PM 0.68 m		5:54 AM EDT	8:29 PM EDT	2:59 AM EDT	5:10 PM EDT				
Fri 10		4:58 AM 0.12 m	10:04 AM 0.49 m	4:29 PM 0.02 m	10:56 PM 0.71 m	Third Quarter	5:55 AM EDT	8:28 PM EDT	3:40 AM EDT	6:13 PM EDT				
Sat 11		5:45 AM 0.09 m	10:54 AM 0.51 m	5:15 PM 0 m	11:41 PM 0.74 m		5:56 AM EDT	8:28 PM EDT	4:27 AM EDT	7:15 PM EDT				
Sun 12		6:31 AM 0.06 m	11:44 AM 0.53 m	6:03 PM -0.02 m			5:56 AM EDT	8:27 PM EDT	5:22 AM EDT	8:13 PM EDT				
Mon 13	12:28 AM 0.76 m	7:18 AM 0.04 m	12:36 PM 0.55 m	6:55 PM -0.02 m			5:57 AM EDT	8:27 PM EDT	6:25 AM EDT	9:07 PM EDT				
Tue 14	1:17 AM 0.77 m	8:05 AM 0.02 m	1:33 PM 0.58 m	7:50 PM -0.02 m			5:58 AM EDT	8:27 PM EDT	7:32 AM EDT	9:56 PM EDT				
Wed 15	2:06 AM 0.76 m	8:52 AM 0 m	2:30 PM 0.6 m	8:46 PM -0.01 m			5:58 AM EDT	8:26 PM EDT	8:42 AM EDT	10:39 PM EDT				
Thu 16	2:55 AM 0.74 m	9:39 AM -0.02 m	3:26 PM 0.62 m	9:45 PM 0.02 m			5:59 AM EDT	8:25 PM EDT	9:53 AM EDT	11:17 PM EDT				
Fri 17	3:45 AM 0.71 m	10:29 AM -0.02 m	4:25 PM 0.64 m	10:49 PM 0.05 m		New Moon	6:00 AM EDT	8:25 PM EDT	11:03 AM EDT	11:53 PM EDT				
Sat 18	4:37 AM 0.67 m	11:24 AM -0.02 m	5:27 PM 0.65 m	11:57 PM 0.08 m			6:00 AM EDT	8:24 PM EDT	12:12 PM EDT					
Sun 19	5:33 AM 0.62 m	12:19 PM -0.02 m	6:31 PM 0.67 m				6:01 AM EDT	8:24 PM EDT	1:19 PM EDT	12:27 AM EDT				
Mon 20		1:01 AM 0.09 m	6:32 AM 0.58 m	1:14 PM -0.02 m	7:32 PM 0.68 m		6:02 AM EDT	8:25 PM EDT	2:25 PM EDT	1:01 AM EDT				
Tue 21		2:02 AM 0.1 m	7:32 AM 0.55 m	2:08 PM -0.01 m	8:33 PM 0.69 m		6:03 AM EDT	8:22 PM EDT	3:30 PM EDT	1:37 AM EDT				
Wed 22		3:03 AM 0.11 m	8:34 AM 0.53 m	3:03 PM 0 m	9:32 PM 0.7 m		6:03 AM EDT	8:22 PM EDT	4:34 PM EDT	2:15 AM EDT				
Thu 23		4:01 AM 0.1 m	9:35 AM 0.52 m	3:58 PM 0 m	10:25 PM 0.71 m		6:04 AM EDT	8:21 PM EDT	5:35 PM EDT	2:57 AM EDT				
Fri 24		4:55 AM 0.09 m	10:30 AM 0.52 m	4:49 PM 0.01 m	11:12 PM 0.72 m	First Quarter	6:05 AM EDT	8:20 PM EDT	6:31 PM EDT	3:43 AM EDT				
Sat 25		5:44 AM 0.08 m	11:19 AM 0.52 m	5:37 PM 0.02 m	11:56 PM 0.71 m		6:06 AM EDT	8:20 PM EDT	7:23 PM EDT	4:34 AM EDT				
Sun 26		6:30 AM 0.08 m	12:04 PM 0.53 m	6:23 PM 0.03 m			6:07 AM EDT	8:19 PM EDT	8:10 PM EDT	5:28 AM EDT				
Mon 27	12:38 AM 0.71 m	7:18 AM 0.07 m	12:49 PM 0.53 m	7:08 PM 0.05 m			6:07 AM EDT	8:18 PM EDT	8:50 PM EDT	6:24 AM EDT				
Tue 28	1:19 AM 0.7 m	7:59 AM 0.07 m	1:34 PM 0.54 m	7:53 PM 0.06 m			6:08 AM EDT	8:17 PM EDT	9:27 PM EDT	7:21 AM EDT				
Wed 29	1:58 AM 0.68 m	8:40 AM 0.07 m	2:17 PM 0.54 m	8:35 PM 0.09 m			6:09 AM EDT	8:16 PM EDT	9:59 PM EDT	8:18 AM EDT				
Thu 30	2:35 AM 0.66 m	9:19 AM 0.08 m	2:59 PM 0.55 m	9:17 PM 0.11 m			6:10 AM EDT	8:15 PM EDT	10:29 PM EDT	9:14 AM EDT				
Fri 31	3:10 AM 0.64 m	9:57 AM 0.09 m	3:36 PM 0.56 m	10:01 PM 0.14 m		Full Moon	6:11 AM EDT	8:14 PM EDT	10:57 PM EDT	10:10 AM EDT				

July 2099		22.28 33° N, 114.1833° E; Northern tip of Hong Kong Island									
Day	High	Low	High	Low	High	Phase of Moon	Sunrise	Sunset	Moonrise	Moonset	
Wed 01	1:02 AM HKT 1.32 m	4:22 AM HKT 1.13 m	10:44 AM HKT 2.23 m	6:29 PM HKT 0.40 m			5:42 AM HKT	7:11 PM HKT	10:03 PM HKT	8:43 AM HKT	
Thu 02	1:45 AM HKT 1.33 m	4:58 AM HKT 1.18 m	11:20 AM HKT 2.13 m	7:09 PM HKT 0.49 m		Full Moon	5:43 AM HKT	7:11 PM HKT	10:41 PM HKT	9:35 AM HKT	
Fri 03	2:30 AM HKT 1.35 m	5:57 AM HKT 1.23 m	11:57 AM HKT 2.01 m	7:48 PM HKT 0.59 m			5:43 AM HKT	7:11 PM HKT	11:17 PM HKT	10:25 AM HKT	
Sat 04	3:15 AM HKT 1.38 m	6:26 AM HKT 1.28 m	12:38 PM HKT 1.86 m	8:26 PM HKT 0.69 m			5:43 AM HKT	7:11 PM HKT	11:52 PM HKT	11:14 AM HKT	
Sun 05	3:57 AM HKT 1.43 m	7:40 AM HKT 1.31 m	1:27 PM HKT 1.69 m	9:02 PM HKT 0.79 m			5:44 AM HKT	7:11 PM HKT		12:03 PM HKT	
Mon 06	4:34 AM HKT 1.50 m	9:38 AM HKT 1.29 m	2:38 PM HKT 1.52 m	9:37 PM HKT 0.86 m			5:44 AM HKT	7:11 PM HKT	12:26 AM HKT	12:53 PM HKT	
Tue 07	5:05 AM HKT 1.59 m	11:24 AM HKT 1.16 m	4:10 PM HKT 1.38 m	10:13 PM HKT 0.96 m			5:45 AM HKT	7:11 PM HKT	1:00 AM HKT	1:43 PM HKT	
Wed 08	5:35 AM HKT 1.71 m	12:35 PM HKT 0.97 m	5:41 PM HKT 1.30 m	10:54 PM HKT 1.00 m			5:45 AM HKT	7:11 PM HKT	1:37 AM HKT	2:36 PM HKT	
Thu 09	6:05 AM HKT 1.84 m	1:25 PM HKT 0.76 m	7:03 PM HKT 1.27 m	11:40 PM HKT 1.04 m			5:45 AM HKT	7:11 PM HKT	2:16 AM HKT	3:30 PM HKT	
Fri 10	6:38 AM HKT 1.96 m	2:08 PM HKT 0.56 m	8:15 PM HKT 1.28 m			Third Quarter	5:46 AM HKT	7:11 PM HKT	3:00 AM HKT	4:27 PM HKT	
Sat 11		12:28 AM HKT 1.06 m	7:15 AM HKT 2.12 m	2:48 PM HKT 0.39 m	9:15 PM HKT 1.31 m		5:46 AM HKT	7:10 PM HKT	3:48 AM HKT	5:26 PM HKT	
Sun 12		1:16 AM HKT 1.06 m	7:55 AM HKT 2.26 m	3:28 PM HKT 0.25 m	10:06 PM HKT 1.35 m		5:46 AM HKT	7:10 PM HKT	4:42 AM HKT	6:26 PM HKT	
Mon 13		2:01 AM HKT 1.06 m	8:38 AM HKT 2.37 m	4:09 PM HKT 0.15 m	10:53 PM HKT 1.39 m		5:47 AM HKT	7:10 PM HKT	5:41 AM HKT	7:24 PM HKT	
Tue 14		2:46 AM HKT 1.05 m	9:23 AM HKT 2.44 m	4:51 PM HKT 0.12 m	11:38 PM HKT 1.43 m		5:47 AM HKT	7:10 PM HKT	6:43 AM HKT	8:19 PM HKT	
Wed 15		3:31 AM HKT 1.05 m	10:10 AM HKT 2.45 m	5:34 PM HKT 0.14 m			5:48 AM HKT	7:10 PM HKT	7:47 AM HKT	9:11 PM HKT	
Thu 16	12:22 AM HKT 1.46 m	4:19 AM HKT 1.07 m	10:58 AM HKT 2.40 m	6:18 PM HKT 0.22 m			5:48 AM HKT	7:10 PM HKT	8:52 AM HKT	9:58 PM HKT	
Fri 17	1:07 AM HKT 1.50 m	5:11 AM HKT 1.10 m	11:50 AM HKT 2.27 m	7:03 PM HKT 0.34 m		New Moon	5:48 AM HKT	7:09 PM HKT	9:55 AM HKT	10:43 PM HKT	
Sat 18	1:53 AM HKT 1.56 m	6:11 AM HKT 1.13 m	12:47 PM HKT 2.07 m	7:47 PM HKT 0.50 m			5:49 AM HKT	7:09 PM HKT	10:56 AM HKT	11:25 PM HKT	
Sun 19	2:41 AM HKT 1.63 m	7:26 AM HKT 1.16 m	1:58 PM HKT 1.83 m	8:32 PM HKT 0.66 m			5:49 AM HKT	7:09 PM HKT	11:56 AM HKT		
Mon 20	3:31 AM HKT 1.73 m	8:05 AM HKT 1.15 m	3:26 PM HKT 1.60 m	9:18 PM HKT 0.82 m			5:50 AM HKT	7:08 PM HKT	12:55 PM HKT	12:07 AM HKT	
Tue 21	4:21 AM HKT 1.83 m	11:01 AM HKT 1.03 m	5:04 PM HKT 1.41 m	10:06 PM HKT 0.94 m			5:50 AM HKT	7:08 PM HKT	1:54 PM HKT	12:49 AM HKT	
Wed 22	5:12 AM HKT 1.94 m	12:35 PM HKT 0.83 m	6:41 PM HKT 1.32 m	10:58 PM HKT 1.04 m			5:51 AM HKT	7:08 PM HKT	2:52 PM HKT	1:32 AM HKT	
Thu 23	6:00 AM HKT 2.04 m	1:38 PM HKT 0.65 m	8:09 PM HKT 1.29 m	11:52 PM HKT 1.09 m			5:51 AM HKT	7:07 PM HKT	3:50 PM HKT	2:17 AM HKT	
Fri 24	6:46 AM HKT 2.13 m	2:24 PM HKT 0.50 m	9:15 PM HKT 1.31 m			First Quarter	5:51 AM HKT	7:07 PM HKT	4:46 PM HKT	3:06 AM HKT	
Sat 25		12:44 AM HKT 1.10 m	7:30 AM HKT 2.21 m	3:03 PM HKT 0.41 m	10:04 PM HKT 1.33 m		5:52 AM HKT	7:07 PM HKT	5:40 PM HKT	3:56 AM HKT	
Sun 26		1:32 AM HKT 1.09 m	8:11 AM HKT 2.26 m	3:38 PM HKT 0.36 m	10:42 PM HKT 1.35 m		5:52 AM HKT	7:06 PM HKT	6:30 PM HKT	4:48 AM HKT	
Mon 27		2:16 AM HKT 1.06 m	8:50 AM HKT 2.29 m	4:13 PM HKT 0.35 m	11:15 PM HKT 1.38 m		5:53 AM HKT	7:06 PM HKT	7:17 PM HKT	5:42 AM HKT	
Tue 28		2:57 AM HKT 1.07 m	9:27 AM HKT 2.31 m	4:46 PM HKT 0.38 m	11:46 PM HKT 1.41 m		5:53 AM HKT	7:05 PM HKT	8:00 PM HKT	6:35 AM HKT	
Wed 29		3:37 AM HKT 1.08 m	10:02 AM HKT 2.29 m	5:20 PM HKT 0.44 m			5:54 AM HKT	7:05 PM HKT	8:39 PM HKT	7:27 AM HKT	
Thu 30	12:16 AM HKT 1.44 m	4:15 AM HKT 1.10 m	10:36 AM HKT 2.24 m	5:53 PM HKT 0.52 m			5:54 AM HKT	7:04 PM HKT	9:16 PM HKT	8:18 AM HKT	
Fri 31	12:46 AM HKT 1.47 m	4:54 AM HKT 1.13 m	11:10 AM HKT 2.16 m	6:25 PM HKT 0.62 m		Full Moon	5:54 AM HKT	7:04 PM HKT	9:51 PM HKT	9:08 AM HKT	

CHINA

Songchen Lijang Romance Park, Lijang

Located far inland near the border of Myanmar, Romance Park promises dry days and nights for lovers and other tourists hoping to escape wetter hometowns. Crowds in July promise to be suffocating, so it is best to plan ahead. The park is pleased to accept reservations for summer 2099.

Happy Valley, Beijing

Despite its name, Happy Valley is located on a small hill and will be just above the high tide mark in 2099. Promising as this may seem for vacationers, tourists are advised to make other plans, as the area has been rezoned for residential residence. The roller coasters will have been repurposed for rapid transit.

Disneyland, Hong Kong

Although located on an island, Hong Kong Disneyland promises to be littoral rather than submerged, even in the gloomiest of high-tide scenarios. Some activities will be retooled for amphibious operations, and moisture-sensitive digital attractions will be inoperative. An adventure land for a new century, most operations will be strongly influenced by the tide. Visitors should consult the most up-to-date tidal charts when planning their vacations.

Note: Hong Kong's airport will be completely submerged. Early-bird docking reservations for Hong Kong's waterport are, however, already available and fairly priced.

JAPAN

Nagashima Spa Land, Kuwana

This water-themed theme park will be entirely submerged in 2100. Transformational possibilities include an underwater-themed theme park.

Tokyo Disneyland, Tokyo

The fantastical expansion of the Bay of Tokyo will submerge Tokyo Disneyland after a mere 10 meters in sea level rise. With wise planning, however, tourists can visit littoral Disneyland, a short-lived experiment already under construction. A grand opening is planned for when water reaches the 3-meter mark (at 1.2° C global average temperature rise). By 2099 this roller-coaster haven will have been almost entirely forgotten.

SOUTH KOREA

Everland, Yongin

Renamed 물 밖에 난 고기 ("A fish out of water"), this park will be dry and operational.

Lotteworld, Seoul

The world's largest indoor theme park, Lotteworld's famous Magic Island—an artificial island in an artificial lake—promises to become an artificial island inside a real lake. Inflatable buoyancy devices will be added to the large building containing the remaining rides. Connections to Magic Island will be available via the world's first umbilicus monorail, with flexible articulations capable of continuing service, even with storm waves of up to 5 meters. Even the public transit is part of the fun!

July 2099		37.4667° N, 126.5833° E; Inch'on (South Korea)									
Day	High	Low	High	Low	High	Phase	Sunrise	Sunset	Moonrise	Moonset	
Wed 01		12:57 AM KST 0.76 m	7:21 AM KST 8.58 m	1:33 PM KST 1.52 m	7:29 PM KST 7.40 m		5:16 AM KST	7:58 PM KST	10:35 PM KST	8:25 AM KST	
Thu 02		1:32 AM KST 1.03 m	7:59 AM KST 8.35 m	2:08 PM KST 1.71 m	8:10 PM KST 7.21 m	Full Moon	5:16 AM KST	7:58 PM KST	11:08 PM KST	9:22 AM KST	
Fri 03		2:08 AM KST 1.39 m	8:39 AM KST 8.04 m	2:45 PM KST 1.94 m	8:54 PM KST 6.98 m		5:17 AM KST	7:58 PM KST	11:38 PM KST	10:18 AM KST	
Sat 04		2:45 AM KST 1.79 m	9:20 AM KST 7.67 m	3:24 PM KST 2.19 m	9:42 PM KST 6.74 m		5:17 AM KST	7:58 PM KST		11:14 AM KST	
Sun 05		3:26 AM KST 2.25 m	10:06 AM KST 7.29 m	4:07 PM KST 2.45 m	10:35 PM KST 6.54 m		5:18 AM KST	7:58 PM KST	12:06 AM KST	12:10 PM KST	
Mon 06		4:14 AM KST 2.70 m	10:56 AM KST 6.93 m	4:59 PM KST 2.61 m	11:34 PM KST 6.45 m		5:18 AM KST	7:57 PM KST	12:34 AM KST	1:06 PM KST	
Tue 07		5:16 AM KST 3.08 m	11:51 AM KST 6.67 m	6:04 PM KST 2.66 m			5:19 AM KST	7:57 PM KST	1:02 AM KST	2:03 PM KST	
Wed 08	12:37 AM KST 6.52 m	6:39 AM KST 3.24 m	12:50 PM KST 6.54 m	7:16 PM KST 2.52 m			5:20 AM KST	7:57 PM KST	1:32 AM KST	3:02 PM KST	
Thu 09	1:39 AM KST 6.77 m	8:01 AM KST 3.09 m	1:49 PM KST 6.58 m	8:19 PM KST 2.18 m			5:20 AM KST	7:57 PM KST	2:05 AM KST	4:03 PM KST	
Fri 10	2:38 AM KST 7.19 m	9:05 AM KST 2.71 m	2:46 PM KST 6.76 m	9:13 PM KST 1.70 m		Third Quarter	5:21 AM KST	7:56 PM KST	2:43 AM KST	5:05 PM KST	
Sat 11	3:32 AM KST 7.70 m	9:56 AM KST 2.22 m	3:40 PM KST 7.05 m	10:00 PM KST 1.18 m			5:21 AM KST	7:56 PM KST	3:26 AM KST	6:07 PM KST	
Sun 12	4:22 AM KST 8.24 m	10:41 AM KST 1.71 m	4:30 PM KST 7.39 m	10:44 PM KST 0.67 m			5:22 AM KST	7:55 PM KST	4:17 AM KST	7:08 PM KST	
Mon 13	5:08 AM KST 8.73 m	11:23 AM KST 1.25 m	5:17 PM KST 7.71 m	11:27 PM KST 0.25 m			5:23 AM KST	7:55 PM KST	5:15 AM KST	8:05 PM KST	
Tue 14	5:53 AM KST 9.10 m	12:06 PM KST 0.89 m	6:03 PM KST 7.95 m				5:23 AM KST	7:54 PM KST	6:20 AM KST	8:57 PM KST	
Wed 15		12:10 AM KST -0.01 m	6:38 AM KST 9.31 m	12:48 PM KST 0.67 m	6:50 PM KST 8.09 m		5:24 AM KST	7:54 PM KST	7:29 AM KST	9:42 PM KST	
Thu 16		12:54 AM KST -0.07 m	7:23 AM KST 9.32 m	1:31 PM KST 0.60 m	7:37 PM KST 8.10 m		5:25 AM KST	7:53 PM KST	8:40 AM KST	10:23 PM KST	
Fri 17		1:38 AM KST 0.10 m	8:08 AM KST 9.12 m	2:15 PM KST 0.70 m	8:26 PM KST 7.97 m	New Moon	5:26 AM KST	7:53 PM KST	9:50 AM KST	11:00 PM KST	
Sat 18		2:25 AM KST 0.49 m	8:55 AM KST 8.73 m	3:02 PM KST 0.94 m	9:19 PM KST 7.74 m		5:26 AM KST	7:52 PM KST	11:00 AM KST	11:35 PM KST	
Sun 19		3:15 AM KST 1.07 m	9:44 AM KST 8.21 m	3:53 PM KST 1.27 m	10:16 PM KST 7.45 m		5:27 AM KST	7:52 PM KST	12:08 PM KST		
Mon 20		4:11 AM KST 1.73 m	10:37 AM KST 7.64 m	4:50 PM KST 1.62 m	11:18 PM KST 7.19 m		5:28 AM KST	7:51 PM KST	1:15 PM KST	12:08 AM KST	
Tue 21		5:19 AM KST 2.36 m	11:35 AM KST 7.10 m	5:58 PM KST 1.90 m			5:28 AM KST	7:50 PM KST	2:21 PM KST	12:43 AM KST	
Wed 22	12:26 AM KST 7.04 m	6:42 AM KST 2.76 m	12:39 PM KST 6.70 m	7:13 PM KST 1.98 m			5:29 AM KST	7:50 PM KST	3:26 PM KST	1:19 AM KST	
Thu 23	1:36 AM KST 7.06 m	8:07 AM KST 2.78 m	1:46 PM KST 6.51 m	8:24 PM KST 1.83 m			5:30 AM KST	7:49 PM KST	4:28 PM KST	1:59 AM KST	
Fri 24	2:44 AM KST 7.26 m	9:14 AM KST 2.55 m	2:50 PM KST 6.53 m	9:22 PM KST 1.56 m		First Quarter	5:31 AM KST	7:48 PM KST	5:28 PM KST	2:43 AM KST	
Sat 25	3:43 AM KST 7.56 m	10:07 AM KST 2.22 m	3:47 PM KST 6.70 m	10:10 PM KST 1.26 m			5:32 AM KST	7:47 PM KST	6:22 PM KST	3:31 AM KST	
Sun 26	4:32 AM KST 7.87 m	10:51 AM KST 1.90 m	4:35 PM KST 6.95 m	10:53 PM KST 0.96 m			5:32 AM KST	7:47 PM KST	7:12 PM KST	4:23 AM KST	
Mon 27	5:13 AM KST 8.15 m	11:30 AM KST 1.61 m	5:17 PM KST 7.20 m	11:31 PM KST 0.78 m			5:33 AM KST	7:46 PM KST	7:55 PM KST	5:18 AM KST	
Tue 28	5:51 AM KST 8.36 m	12:06 PM KST 1.39 m	5:56 PM KST 7.41 m				5:34 AM KST	7:45 PM KST	8:34 PM KST	6:15 AM KST	
Wed 29		12:06 AM KST 0.67 m	6:26 AM KST 8.48 m	12:39 PM KST 1.26 m	6:33 PM KST 7.55 m		5:35 AM KST	7:44 PM KST	9:08 PM KST	7:12 AM KST	
Thu 30		12:40 AM KST 0.67 m	7:00 AM KST 8.49 m	1:11 PM KST 1.21 m	7:09 PM KST 7.60 m		5:36 AM KST	7:43 PM KST	9:39 PM KST	8:09 AM KST	
Fri 31		1:13 AM KST 0.78 m	7:34 AM KST 8.39 m	1:42 PM KST 1.25 m	7:48 PM KST 7.55 m	Full Moon	5:36 AM KST	7:42 PM KST	10:08 PM KST	9:05 AM KST	

July 2019		58.4500° N, 8.7667° E; Arendal (Norway)									
Day	High	Low	High	Low	High	Phase	Sunrise	Sunset	Moonrise	Moonset	
Wed 01		1:16 AM CEST 0.10 m	7:42 AM CEST 0.25 m	1:41 PM CEST 0.15 m	7:41 PM CEST 0.24 m		4:23 AM CEST	10:33 PM CEST	12:11 AM CEST	8:31 AM CEST	
Thu 02		2:09 AM CEST 0.11 m	8:36 AM CEST 0.24 m	2:28 PM CEST 0.14 m	8:32 PM CEST 0.24 m	Full Moon	4:24 AM CEST	10:33 PM CEST	12:31 AM CEST	9:43 AM CEST	
Fri 03		3:08 AM CEST 0.12 m	9:33 AM CEST 0.23 m	3:16 PM CEST 0.15 m	9:28 PM CEST 0.24 m		4:25 AM CEST	10:32 PM CEST	12:48 AM CEST	10:55 AM CEST	
Sat 04		4:10 AM CEST 0.12 m	10:31 AM CEST 0.22 m	4:11 PM CEST 0.15 m	10:28 PM CEST 0.25 m		4:26 AM CEST	10:31 PM CEST	1:02 AM CEST	12:07 PM CEST	
Sun 05		5:09 AM CEST 0.13 m	11:24 AM CEST 0.22 m	5:04 PM CEST 0.15 m	11:23 PM CEST 0.26 m		4:27 AM CEST	10:30 PM CEST	1:15 AM CEST	1:19 PM CEST	
Mon 06		6:02 AM CEST 0.12 m	12:10 PM CEST 0.23 m	5:53 PM CEST 0.14 m			4:28 AM CEST	10:29 PM CEST	1:27 AM CEST	2:32 PM CEST	
Tue 07	12:16 AM CEST 0.27 m	6:48 AM CEST 0.12 m	12:50 PM CEST 0.24 m	6:39 PM CEST 0.13 m			4:30 AM CEST	10:28 PM CEST	1:40 AM CEST	3:46 PM CEST	
Wed 08	1:03 AM CEST 0.28 m	7:30 AM CEST 0.12 m	1:27 PM CEST 0.25 m	7:23 PM CEST 0.11 m			4:31 AM CEST	10:27 PM CEST	1:55 AM CEST	5:02 PM CEST	
Thu 09	1:48 AM CEST 0.29 m	8:08 AM CEST 0.11 m	2:03 PM CEST 0.26 m	8:05 PM CEST 0.10 m			4:32 AM CEST	10:26 PM CEST	2:13 AM CEST	6:20 PM CEST	
Fri 10	2:30 AM CEST 0.30 m	8:45 AM CEST 0.11 m	2:40 PM CEST 0.28 m	8:47 PM CEST 0.09 m		Third Quarter	4:34 AM CEST	10:25 PM CEST	2:37 AM CEST	7:37 PM CEST	
Sat 11	3:11 AM CEST 0.31 m	9:22 AM CEST 0.11 m	3:18 PM CEST 0.29 m	9:29 PM CEST 0.08 m			4:35 AM CEST	10:24 PM CEST	3:10 AM CEST	8:49 PM CEST	
Sun 12	3:53 AM CEST 0.32 m	10:01 AM CEST 0.11 m	3:58 PM CEST 0.30 m	10:15 PM CEST 0.08 m			4:37 AM CEST	10:22 PM CEST	3:56 AM CEST	9:49 PM CEST	
Mon 13	4:35 AM CEST 0.32 m	10:40 AM CEST 0.11 m	4:41 PM CEST 0.31 m	10:59 PM CEST 0.08 m			4:39 AM CEST	10:21 PM CEST	4:57 AM CEST	10:37 PM CEST	
Tue 14	5:19 AM CEST 0.31 m	11:22 AM CEST 0.11 m	5:27 PM CEST 0.31 m	11:48 PM CEST 0.08 m			4:40 AM CEST	10:19 PM CEST	6:14 AM CEST	11:12 PM CEST	
Wed 15	6:07 AM CEST 0.31 m	12:06 PM CEST 0.11 m	6:16 PM CEST 0.32 m				4:42 AM CEST	10:18 PM CEST	7:40 AM CEST	11:38 PM CEST	
Thu 16		12:41 AM CEST 0.09 m	6:59 AM CEST 0.30 m	1:00 PM CEST 0.12 m	7:12 PM CEST 0.31 m		4:44 AM CEST	10:16 PM CEST	9:10 AM CEST	11:59 PM CEST	
Fri 17		1:40 AM CEST 0.10 m	7:58 AM CEST 0.29 m	1:59 PM CEST 0.13 m	8:15 PM CEST 0.31 m	New Moon	4:46 AM CEST	10:15 PM CEST	10:40 AM CEST		
Sat 18		2:46 AM CEST 0.11 m	9:05 AM CEST 0.29 m	3:07 PM CEST 0.15 m	9:26 PM CEST 0.31 m		4:47 AM CEST	10:13 PM CEST	12:10 PM CEST	12:16 AM CEST	
Sun 19		3:58 AM CEST 0.11 m	10:15 AM CEST 0.29 m	4:20 PM CEST 0.15 m	10:41 PM CEST 0.31 m		4:49 AM CEST	10:11 PM CEST	1:37 PM CEST	12:31 AM CEST	
Mon 20		5:11 AM CEST 0.12 m	11:26 AM CEST 0.29 m	5:31 PM CEST 0.12 m	11:53 PM CEST 0.32 m		4:51 AM CEST	10:09 PM CEST	3:03 PM CEST	12:47 AM CEST	
Tue 21		6:18 AM CEST 0.11 m	12:30 PM CEST 0.30 m	6:37 PM CEST 0.11 m			4:53 AM CEST	10:07 PM CEST	4:27 PM CEST	1:04 AM CEST	
Wed 22	12:59 AM CEST 0.33 m	7:20 AM CEST 0.11 m	1:27 PM CEST 0.31 m	7:35 PM CEST 0.10 m			4:55 AM CEST	10:06 PM CEST	5:48 PM CEST	1:25 AM CEST	
Thu 23	1:57 AM CEST 0.34 m	8:14 AM CEST 0.11 m	2:18 PM CEST 0.32 m	8:26 PM CEST 0.10 m			4:57 AM CEST	10:04 PM CEST	7:03 PM CEST	1:50 AM CEST	
Fri 24	2:49 AM CEST 0.35 m	9:03 AM CEST 0.11 m	3:05 PM CEST 0.32 m	9:14 PM CEST 0.09 m		First Quarter	4:59 AM CEST	10:02 PM CEST	8:08 PM CEST	2:24 AM CEST	
Sat 25	3:36 AM CEST 0.35 m	9:46 AM CEST 0.11 m	3:48 PM CEST 0.35 m	9:58 PM CEST 0.10 m			5:01 AM CEST	10:00 PM CEST	9:02 PM CEST	3:07 AM CEST	
Sun 26	4:20 AM CEST 0.35 m	10:29 AM CEST 0.12 m	4:28 PM CEST 0.32 m	10:40 PM CEST 0.10 m			5:03 AM CEST	9:58 PM CEST	9:43 PM CEST	4:02 AM CEST	
Mon 27	5:01 AM CEST 0.34 m	11:07 AM CEST 0.13 m	5:06 PM CEST 0.32 m	11:21 PM CEST 0.11 m			5:05 AM CEST	9:55 PM CEST	10:13 PM CEST	5:06 AM CEST	
Tue 28	5:41 AM CEST 0.32 m	11:42 AM CEST 0.15 m	5:42 PM CEST 0.31 m				5:07 AM CEST	9:53 PM CEST	10:36 PM CEST	6:15 AM CEST	
Wed 29		12:00 AM CEST 0.13 m	6:19 AM CEST 0.31 m	12:15 PM CEST 0.16 m	6:17 PM CEST 0.31 m		5:09 AM CEST	9:51 PM CEST	10:54 PM CEST	7:27 AM CEST	
Thu 30		12:40 AM CEST 0.14 m	6:56 AM CEST 0.29 m	12:46 PM CEST 0.18 m	6:52 PM CEST 0.30 m		5:11 AM CEST	9:49 PM CEST	11:09 PM CEST	8:40 AM CEST	
Fri 31		1:22 AM CEST 0.16 m	7:34 AM CEST 0.28 m	1:18 PM CEST 0.19 m	7:32 PM CEST 0.30 m	Full Moon	5:14 AM CEST	9:47 PM CEST	11:22 PM CEST	9:52 AM CEST	

NETHERLANDS

Efteling, Rotterdam

The "low countries" will be entirely submerged by 2100. This includes Efteling, near present day Rotterdam. The floating Efteling amusement park will remain open for business, provided seas are calm. Knowing where it might be found upon the expanded sea will necessitate using up-to-date current charts, as the expected disruption of the gulf stream due to radical desalination of the oceans will have surprising results—or as the Koreans say "When it's ten years, even the rivers and mountains change" (십 년이면 강산도 변한다). Prospective guests are asked to check back two to three weeks before their planned visit. Also note that oceanic drift can cause this park to be quite cold in July (should it arrive in the southern hemisphere) thus it is suggested to pack a variety of clothing, including swim suits and heavy anoraks.

SWEDEN

Liseberg, Gothenburg

Conveniently located on the edge of the new Örgryte island, Liseberg will remain open and operational, with accommodations made for especially high tides; swan- and turtle-shaped paddleboats with portside meatball and tea services will be integrated throughout the park. See tide table at left.

SPAIN

Portaventura

This high-tech family fun park will inhabit the whole of the Upper Tarragona Island, so named after the drowned city of Tarragona. Lower Tarragona Island will host a public golf course. The two islands are linked by a footbridge capable of accommodating golf carts. Houseboats can dock for a modest tethering fee, making it a lovely vacation spot for Europe's floating populations.

NIGERIA

Dream World Africa, Lagos

Though the present site of Dream World Africa will be entirely submerged at 5 meters sea level rise (2°C), Lagos will have moved inland to the site of present day Iperu by 2073. Tourists should feel free to plan trips to this lovely and newly restored park at their convenience.

SUDAN

Al Mogram Family Park, Khartoum

Al Mogram Family Park will only open between 2-5 a.m. due to extreme heat.

SOUTH AFRICA

uShaka Marine World, Durban

Not much of Durban will be left, but Marine World with its underwater hotels, bubble routes through actual shark-infested waters, and scuba-gear-required roller coasters remains a shining pearl in the sea. Unique among theme parks, uShaka, now truly a Marine World, will be soothing to adventuresome families from Africa's broiling interior. Visitors can experience an entire vacation underwater.

In Casper, Wyoming there is little to worry about, the tides are low today as everyday.

1. The Miner's Friend

Coal is good to suck,
the rich man said, water from
my swamp. More land for me.

2. A Question related to English Lands

Where is the cotton
from, I wonder; the wool, the
coal I know is local.

3. This is a Direct Quotation

"The promise of an old
fashioned steam locomotive rumbles
through town." He smiling said.

4. On why there were rails before trains

Donkeys are dumb, they
wander off; stop. Stubborn beasts
work better with rails.

5. On naming trains #1

They called it The
Puffing Devil, as if it
was Satan smoking.

6. On naming trains #2

Locomotive 1
The first train, knew it was first.
A proud cock at dawn.