

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
ma	1-1				3:34	48	03:40	58	04:42	57	05:00	57	3:48	46	04:41	58	04:11	58						
ma	1-1			9:52		298	09:58	308	11:01	367	11:23	397	10:11	314	10:46	346	10:24	326						
ma	1-1				16:06	37	16:12	47	17:13	45	17:31	45	16:16	37	17:09	49	16:39	49						
ma	1-1			22:21		295	22:27	305	23:33	365	23:55	395	22:37	310	23:12	342	22:50	322						
di	2-1				4:38	32	04:44	42	05:45	40	06:03	40	4:48	29	05:41	41	05:11	41						
di	2-1			10:49		299	10:55	309	11:58	367	12:20	397	11:07	316	11:42	348	11:20	328						
di	2-1				17:05	30	17:11	40	18:12	38	18:30	38	17:12	29	18:05	41	17:35	41						
di	2-1			23:09		301	23:15	311	00:21	369	00:43	399	23:27	316	00:02	348	23:40	328						
wo	3-1				5:42	15	05:48	25	06:47	22	07:05	22	5:45	14	06:38	26	06:08	26						
wo	3-1			11:42		299	11:48	309	12:52	365	13:14	395	12:00	316	12:35	348	12:13	328						
wo	3-1				18:03	23	18:09	33	19:09	32	19:27	32	18:06	23	18:59	35	18:29	35						
wo	3-1					307		317						322										
do	4-1			23:56		307	00:02	317	01:07	373	01:29	403	0:15	322	00:50	354	00:28	334						
do	4-1				6:38	3	06:44	13	07:43	8	08:01	8	6:39	4	07:32	16	07:02	16						
do	4-1			12:34		297	12:40	307	13:45	360	14:07	390	12:51	313	13:26	345	13:04	325						
do	4-1				18:55	20	19:01	30	20:02	29	20:20	29	18:57	21	19:50	33	19:20	33						
vr	5-1			0:43		310	00:49	320	01:53	375	02:15	405	1:03	324	01:38	356	01:16	336						
vr	5-1				7:29	0	07:35	10	08:34	4	08:52	4	7:30	2	08:23	14	07:53	14						
vr	5-1			13:23		291	13:29	301	14:36	353	14:58	383	13:40	307	14:15	339	13:53	319						
vr	5-1	20:47 EK			19:44	24	19:50	34	20:50	34	21:08	34	19:45	25	20:38	37	20:08	37						
za	6-1			1:31		310	01:37	320	02:38	374	03:00	404	1:51	324	02:26	356	02:04	336						
za	6-1				8:17	8	08:23	18	09:21	12	09:39	12	8:18	10	09:11	22	08:41	22						
za	6-1			14:12		282	14:18	292	15:23	343	15:45	373	14:29	299	15:04	331	14:42	311						
za	6-1				20:29	34	20:35	44	21:36	46	21:54	46	20:31	35	21:24	47	20:54	47						
zo	7-1			2:18		306	02:24	316	03:24	371	03:46	401	2:38	320	03:13	352	02:51	332						
zo	7-1				9:03	22	09:09	32	10:06	28	10:24	28	9:04	23	09:57	35	09:27	35						
zo	7-1			14:59		273	15:05	283	16:07	335	16:29	365	15:16	290	15:51	322	15:29	302						
zo	7-1				21:13	45	21:19	55	22:19	60	22:37	60	21:15	47	22:08	59	21:38	59						
ma	8-1			3:06		301	03:12	311	04:12	366	04:34	396	3:26	315	04:01	347	03:39	327						
ma	8-1				9:47	36	09:53	46	10:50	44	11:08	44	9:49	37	10:42	49	10:12	49						
ma	8-1			15:47		267	15:53	277	16:53	330	17:15	360	16:03	284	16:38	316	16:16	296						
ma	8-1				21:58	55	22:04	65	23:04	71	23:22	71	22:01	56	22:54	68	22:24	68						
di	9-1			3:57		296	04:03	306	05:03	361	05:25	391	4:16	309	04:51	341	04:29	321						
di	9-1				10:33	46	10:39	56	11:35	56	11:53	56	10:36	47	11:29	59	10:59	59						
di	9-1			16:38		265	16:44	275	17:45	328	18:07	358	16:52	280	17:27	312	17:05	292						
di	9-1				22:48	60	22:54	70	23:51	77	00:09	77	22:52	61	23:45	73	23:15	73						

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maand		fase		53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E		
dag	datum	tijd		HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
wo	10-1			4:52		289	04:58		299	06:01		356		00:09	77	5:11		303	05:46		335	05:24		315
wo	10-1				11:23	51		11:29	61		12:24	63	06:23		386		11:26	51		12:19	63		11:49	63
wo	10-1			17:33		264	17:39		274	18:42		328		12:42	63	17:45		279	18:20		311	17:58		291
wo	10-1				23:46	61		23:52	71		00:46	78	19:04		358		23:49	61		00:42	73		00:12	73
do	11-1			5:53		282	05:59		292		00:46	78		01:04	78		23:49	61		00:42	73		00:12	73
do	11-1				12:18	52		12:24	62	07:05		349	07:27		379	6:08		295	06:43		327	06:21		307
do	11-1			18:33		265	18:39		275		13:18	66		13:36	66		12:20	52		13:13	64		12:43	64
do	11-1				0:47	59		00:53	69	19:45		328	20:07		358	18:43		278	19:18		310	18:56		290
vr	12-1				0:47	59		00:53	69		01:46	77		02:04	77		0:49	59		01:42	71		01:12	71
vr	12-1			7:01		275	07:07		285	08:12		342	08:34		372	7:12		288	07:47		320	07:25		300
vr	12-1	12:34 VM			13:18	51		13:24	61		14:18	67		14:36	67		13:18	52		14:11	64		13:41	64
vr	12-1			19:42		266	19:48		276	20:50		330	21:12		360	19:50		279	20:25		311	20:03		291
za	13-1				1:53	55		01:59	65		02:52	73		03:10	73		1:56	56		02:49	68		02:19	68
za	13-1			8:16		270	08:22		280	09:18		336	09:40		366	8:26		282	09:01		314	08:39		294
za	13-1				14:23	51		14:29	61		15:27	66		15:45	66		14:27	52		15:20	64		14:50	64
za	13-1			20:50		271	20:56		281	21:53		335	22:15		365	21:01		285	21:36		317	21:14		297
zo	14-1				3:08	50		03:14	60		04:06	64		04:24	64		3:18	49		04:11	61		03:41	61
zo	14-1			9:20		268	09:26		278	10:21		332	10:43		362	9:34		282	10:09		314	09:47		294
zo	14-1				15:28	50		15:34	60		16:32	62		16:50	62		15:38	51		16:31	63		16:01	63
zo	14-1			21:40		277	21:46		287	22:46		341	23:08		371	21:55		293	22:30		325	22:08		305
ma	15-1				4:06	46		04:12	56		05:04	55		05:22	55		4:12	44		05:05	56		04:35	56
ma	15-1			10:08		269	10:14		279	11:15		331	11:37		361	10:25		284	11:00		316	10:38		296
ma	15-1				16:16	50		16:22	60		17:22	60		17:40	60		16:25	51		17:18	63		16:48	63
ma	15-1			22:16		286	22:22		296	23:26		350	23:48		380	22:36		301	23:11		333	22:49		313
di	16-1				4:48	46		04:54	56		05:50	53		06:08	53		4:53	45		05:46	57		05:16	57
di	16-1			10:42		273	10:48		283	11:50		335	12:12		365	11:04		289	11:39		321	11:17		301
di	16-1				16:55	51		17:01	61		18:04	60		18:22	60		17:03	52		17:56	64		17:26	64
di	16-1			22:47		298	22:53		308	23:57		363	00:19		393	23:10		312	23:45		344	23:23		324
wo	17-1				5:24	47		05:30	57		06:30	54		00:19	393		5:28	47		06:21	59		05:51	59
wo	17-1			11:14		282	11:20		292	12:18		345		06:48	54	11:37		297	12:12		329	11:50		309
wo	17-1				17:32	50		17:38	60		18:42	60		12:40	375		17:38	51		18:31	63		18:01	63
wo	17-1			23:23		311	23:29		321	00:31		378		19:00	60	23:45		325	00:20		357	23:58		337
do	18-1				5:59	47		06:05	57		00:31	378		00:53	408		6:02	47		00:20	357		06:25	59
do	18-1			11:50		292	11:56		302		07:06	54		07:24	54	12:12		306		06:55	59	12:25		318
do	18-1				18:08	49		18:14	59	12:54		357	13:16		387		18:12	50		12:47	338		18:35	62
do	18-1			0:03		320	00:09		330		19:17	59		19:35	59	0:22		334		19:05	62	00:35		346

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maand		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
vr	19-1			0:03		320	00:09		330	01:09		388	01:31		418	0:22		334	00:57		366	00:35		346
vr	19-1				6:33	46		06:39	56		07:42	53		08:00	53		6:36	46		07:29	58		06:59	58
vr	19-1			12:30		297	12:36		307	13:33		363	13:55		393	12:48		311	13:23		343	13:01		323
vr	19-1	23:13	LK		18:43	52		18:49	62		19:52	60		20:10	60		18:47	52		19:40	64		19:10	64
za	20-1			0:42		321	00:48		331	01:47		390	02:09		420	0:59		336	01:34		368	01:12		348
za	20-1				7:08	48		07:14	58		08:16	55		08:34	55		7:11	46		08:04	58		07:34	58
za	20-1			13:09		293	13:15		303	14:10		360	14:32		390	13:24		308	13:59		340	13:37		320
za	20-1				19:15	57		19:21	67		20:24	66		20:42	66		19:19	56		20:12	68		19:42	68
zo	21-1			1:16		317	01:22		327	02:20		386	02:42		416	1:32		332	02:07		364	01:45		344
zo	21-1				7:40	51		07:46	61		08:49	59		09:07	59		7:44	49		08:37	61		08:07	61
zo	21-1			13:43		285	13:49		295	14:44		352	15:06		382	13:57		300	14:32		332	14:10		312
zo	21-1				19:43	60		19:49	70		20:54	70		21:12	70		19:50	59		20:43	71		20:13	71
ma	22-1			1:46		311	01:52		321	02:52		380	03:14		410	2:02		326	02:37		358	02:15		338
ma	22-1				8:11	53		08:17	63		09:21	62		09:39	62		8:16	50		09:09	62		08:39	62
ma	22-1			14:12		277	14:18		287	15:15		343	15:37		373	14:27		292	15:02		324	14:40		304
ma	22-1				20:12	59		20:18	69		21:26	69		21:44	69		20:20	59		21:13	71		20:43	71
di	23-1			2:19		307	02:25		317	03:26		376	03:48		406	2:34		323	03:09		355	02:47		335
di	23-1				8:43	51		08:49	61		09:54	60		10:12	60		8:48	49		09:41	61		09:11	61
di	23-1			14:46		273	14:52		283	15:48		338	16:10		368	15:02		289	15:37		321	15:15		301
di	23-1				20:48	54		20:54	64		22:02	64		22:20	64		20:55	56		21:48	68		21:18	68
wo	24-1			2:58		306	03:04		316	04:05		372	04:27		402	3:14		321	03:49		353	03:27		333
wo	24-1				9:22	49		09:28	59		10:32	57		10:50	57		9:26	48		10:19	60		09:49	60
wo	24-1			15:27		272	15:33		282	16:26		335	16:48		365	15:44		288	16:19		320	15:57		300
wo	24-1				21:33	52		21:39	62		22:44	60		23:02	60		21:39	55		22:32	67		22:02	67
do	25-1			3:45		303	03:51		313	04:47		367	05:09		397	4:01		318	04:36		350	04:14		330
do	25-1				10:08	50		10:14	60		11:17	59		11:35	59		10:12	51		11:05	63		10:35	63
do	25-1			16:15		271	16:21		281	17:09		333	17:31		363	16:32		286	17:07		318	16:45		298
do	25-1				22:26	54		22:32	64		23:33	65		23:51	65		22:30	58		23:23	70		22:53	70
vr	26-1			4:38		297	04:44		307	05:35		358	05:57		388	4:53		310	05:28		342	05:06		322
vr	26-1				11:02	55		11:08	65		12:09	68		12:27	68		11:07	57		12:00	69		11:30	69
vr	26-1			17:11		268	17:17		278	17:59		328	18:21		358	17:28		281	18:03		313	17:41		293
vr	26-1				23:25	60		23:31	70		00:30	76		00:48	76		23:30	64		00:23	76		23:53	76
za	27-1			5:38		288	05:44		298		00:30	76		00:48	76		5:53	300		00:23	76		06:06	312
za	27-1				12:06	61		12:12	71		06:38	348		07:00	378		12:12	63		06:28	332		12:35	75
za	27-1			18:20		265	18:26		275		13:13	79		13:31	79		18:36	276		13:05	75		18:49	288
za	27-1				0:35	64		00:41	74		19:33	324		19:55	354		0:42	67		19:11	308		01:05	79

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maand		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N, 7°02'09"E			53°40'21"N 6°59'45"E					
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
zo	28-1				0:35	64		00:41	74		01:43	84		02:01	84		0:42	67		01:35	79		01:05	79
zo	28-1	1:07	NM	6:55		280	07:01		290	08:15		342	08:37		372	7:10		290	07:45		322	07:23		302
zo	28-1				13:27	60		13:33	70		14:36	78		14:54	78		13:34	62		14:27	74		13:57	74
zo	28-1			19:48		267	19:54		277	21:03		329	21:25		359	20:03		278	20:38		310	20:16		290
ma	29-1				2:00	56		02:06	66		03:10	74		03:28	74		2:13	57		03:06	69		02:36	69
ma	29-1			8:26		280	08:32		290	09:35		345	09:57		375	8:44		291	09:19		323	08:57		303
ma	29-1				14:42	49		14:48	59		15:49	62		16:07	62		14:51	50		15:44	62		15:14	62
ma	29-1			21:06		277	21:12		287	22:16		343	22:38		373	21:20		288	21:55		320	21:33		300
di	30-1				3:15	39		03:21	49		04:22	53		04:40	53		3:27	38		04:20	50		03:50	50
di	30-1			9:40		286	09:46		296	10:45		353	11:07		383	9:57		298	10:32		330	10:10		310
di	30-1				15:49	36		15:55	46		16:57	46		17:15	46		15:58	36		16:51	48		16:21	48
di	30-1			22:06		288	22:12		298	23:14		357	23:36		387	22:20		300	22:55		332	22:33		312
wo	31-1				4:32	21		04:38	31		05:39	31		05:57	31		4:37	19		05:30	31		05:00	31
wo	31-1			10:41		292	10:47		302	11:46		359	12:08		389	10:57		306	11:32		338	11:10		318
wo	31-1				16:57	24		17:03	34		18:05	32		18:23	32		17:03	23		17:56	35		17:26	35
wo	31-1			22:58		299	23:04		309	00:07		368	00:29		398	23:14		311	23:49		343	23:27		323

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maand		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
do	1-2				5:37	3		05:43	13	00:07		368	00:29		398		5:39	2		06:32	14		06:02	14
do	1-2			11:35		295	11:41		305		06:42	9		07:00	9	11:50		310	12:25		342	12:03		322
do	1-2				17:56	14		18:02	24	12:44		362	13:06		392		17:59	12		18:52	24		18:22	24
do	1-2			23:47		306	23:53		316		19:03	21		19:21	21	0:04		319	00:39		351	00:17		331
vr	2-2				6:30	-7		06:36	3	00:57		374	01:19		404	0:04		319	00:39		351	00:17		331
vr	2-2			12:25		294	12:31		304		07:35	0		07:53	0		6:31	-7		07:24	5		06:54	5
vr	2-2				18:46	10		18:52	20	13:41		360	14:03		390	12:40		310	13:15		342	12:53		322
vr	2-2			0:33		309	00:39		319		19:52	17		20:10	17		18:48	9		19:41	21		19:11	21
za	3-2			0:33		309	00:39		319	01:45		375	02:07		405	0:51		323	01:26		355	01:04		335
za	3-2				7:17	-6		07:23	4		08:21	0		08:39	0		7:18	-6		08:11	6		07:41	6
za	3-2			13:11		289	13:17		299	14:32		353	14:54		383	13:26		307	14:01		339	13:39		319
za	3-2				19:30	13		19:36	23		20:37	21		20:55	21		19:33	12		20:26	24		19:56	24
zo	4-2			1:17		309	01:23		319	02:30		373	02:52		403	1:36		324	02:11		356	01:49		336
zo	4-2	5:19 EK			7:59	5		08:05	15		09:04	8		09:22	8		8:01	4		08:54	16		08:24	16
zo	4-2			13:53		282	13:59		292	15:12		345	15:34		375	14:09		301	14:44		333	14:22		313
zo	4-2				20:11	22		20:17	32		21:18	31		21:36	31		20:13	21		21:06	33		20:36	33
ma	5-2			1:59		305	02:05		315	03:10		368	03:32		398	2:19		320	02:54		352	02:32		332
ma	5-2				8:38	20		08:44	30		09:43	24		10:01	24		8:40	19		09:33	31		09:03	31
ma	5-2			14:32		276	14:38		286	15:43		338	16:05		368	14:49		294	15:24		326	15:02		306
ma	5-2				20:48	31		20:54	41		21:56	42		22:14	42		20:50	30		21:43	42		21:13	42
di	6-2			2:40		298	02:46		308	03:49		362	04:11		392	3:00		313	03:35		345	03:13		325
di	6-2				9:14	32		09:20	42		10:21	38		10:39	38		9:15	31		10:08	43		09:38	43
di	6-2			15:11		271	15:17		281	16:17		333	16:39		363	15:28		287	16:03		319	15:41		299
di	6-2				21:23	38		21:29	48		22:33	50		22:51	50		21:24	38		22:17	50		21:47	50
wo	7-2			3:23		290	03:29		300	04:31		355	04:53		385	3:42		304	04:17		336	03:55		316
wo	7-2				9:49	40		09:55	50		10:58	49		11:16	49		9:51	39		10:44	51		10:14	51
wo	7-2			15:53		267	15:59		277	16:58		331	17:20		361	16:10		282	16:45		314	16:23		294
wo	7-2				22:00	43		22:06	53		23:12	56		23:30	56		22:03	43		22:56	55		22:26	55
do	8-2			4:11		281	04:17		291	05:18		346	05:40		376	4:29		293	05:04		325	04:42		305
do	8-2				10:31	47		10:37	57		11:39	58		11:57	58		10:35	47		11:28	59		10:58	59
do	8-2			16:42		263	16:48		273	17:46		327	18:08		357	16:56		276	17:31		308	17:09		288
do	8-2				22:51	49		22:57	59		23:58	64		00:16	64		22:55	50		23:48	62		23:18	62
vr	9-2			5:06		269	05:12		279	06:11		335	06:33		365	5:22		280	05:57		312	05:35		292
vr	9-2				11:25	55		11:31	65		12:27	69		12:45	69		11:29	56		12:22	68		11:52	68
vr	9-2			17:37		260	17:43		270	18:39		322		12:45	69	17:50		270	18:25		302	18:03		282
vr	9-2				23:54	57		00:00	67		00:54	74		19:01	352		23:57	58		00:50	70		00:20	70

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maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N, 7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm			
za	10-2			23:54	57		00:00	67		00:54	74		01:12	74		23:57	58		00:50	70		00:20	70	
za	10-2			6:09	259		06:15	269		07:13	324		07:35	354		6:23	269		06:58	301		06:36	281	
za	10-2			12:28	64		12:34	74		13:27	82		13:45	82		12:30	65		13:23	77		12:53	77	
za	10-2			18:39	259		18:45	269		19:43	320		20:05	350		18:51	268		19:26	300		19:04	280	
zo	11-2	1:33	VM	1:04	62		01:10	72		02:01	81		02:19	81		1:05	63		01:58	75		01:28	75	
zo	11-2			7:23	255		07:29	265		08:26	319		08:48	349		7:33	263		08:08	295		07:46	275	
zo	11-2			13:37	68		13:43	78		14:38	89		14:56	89		13:38	70		14:31	82		14:01	82	
zo	11-2			19:53	264		19:59	274		21:01	326		21:23	356		20:06	273		20:41	305		20:19	285	
ma	12-2			2:20	62		02:26	72		03:20	80		03:38	80		2:30	63		03:23	75		02:53	75	
ma	12-2			8:48	259		08:54	269		09:46	323		10:08	353		9:01	268		09:36	300		09:14	280	
ma	12-2			14:48	65		14:54	75		15:53	83		16:11	83		15:01	68		15:54	80		15:24	80	
ma	12-2			21:05	277		21:11	287		22:11	341		22:33	371		21:19	287		21:54	319		21:32	299	
di	13-2			3:32	56		03:38	66		04:31	69		04:49	69		3:42	56		04:35	68		04:05	68	
di	13-2			9:46	269		09:52	279		10:52	334		11:14	364		10:00	279		10:35	311		10:13	291	
di	13-2			15:47	59		15:53	69		16:52	71		17:10	71		15:58	61		16:51	73		16:21	73	
di	13-2			21:52	291		21:58	301		23:05	358		23:27	388		22:08	302		22:43	334		22:21	314	
wo	14-2			4:21	51		04:27	61		05:23	58		05:41	58		4:27	51		05:20	63		04:50	63	
wo	14-2			10:26	277		10:32	287		11:37	343		11:59	373		10:41	289		11:16	321		10:54	301	
wo	14-2			16:32	53		16:38	63		17:39	60		17:57	60		16:40	54		17:33	66		17:03	66	
wo	14-2			22:30	303		22:36	313		23:45	372		00:07	402		22:48	315		23:23	347		23:01	327	
do	15-2			5:02	46		05:08	56		06:07	52		06:25	52		5:05	46		05:58	58		05:28	58	
do	15-2			10:59	285		11:05	295		12:11	350		12:33	380		11:16	298		11:51	330		11:29	310	
do	15-2			17:13	46		17:19	56		18:20	53		18:38	53		17:18	47		18:11	59		17:41	59	
do	15-2			23:08	312		23:14	322		00:20	380		00:42	410		23:25	324		00:00	356		23:38	336	
vr	16-2			5:39	40		05:45	50		06:46	47		07:04	47		5:42	40		06:35	52		12:05	316	
vr	16-2			11:35	291		11:41	301		12:44	355		13:06	385		11:52	304		12:27	336		18:17	52	
vr	16-2			17:51	40		17:57	50		18:58	47		19:16	47		17:54	40		18:47	52		00:16	340	
vr	16-2			23:46	316		23:52	326		00:55	383		01:17	413		0:03	328		00:38	360		00:16	340	
za	17-2			6:16	34		06:22	44		07:22	42		07:40	42		6:17	33		07:10	45		06:40	45	
za	17-2			12:13	292		12:19	302		13:19	357		13:41	387		12:29	305		13:04	337		12:42	317	
za	17-2			18:26	36		18:32	46		19:33	43		19:51	43		18:29	34		19:22	46		18:52	46	
zo	18-2			0:24	314		00:30	324		01:29	382		01:51	412		0:40	328		01:15	360		00:53	340	
zo	18-2			6:50	30		06:56	40		07:57	37		08:15	37		6:53	27		07:46	39		07:16	39	
zo	18-2			12:49	289		12:55	299		13:54	355		14:16	385		13:05	303		13:40	335		13:18	315	
zo	18-2	20:33	LK	18:59	34		19:05	44		20:06	41		20:24	41		19:02	32		19:55	44		19:25	44	

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maand		fase		53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E		
dag	datum	tijd		HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
ma	19-2			0:57		311	01:03		321	02:01		380	02:23		410	1:13		324	01:48		356	01:26		336
ma	19-2				7:23	28		07:29	38		08:30	35		08:48	35		7:25	25		08:18	37		07:48	37
ma	19-2			13:22		284	13:28		294	14:24		352	14:46		382	13:37		297	14:12		329	13:50		309
ma	19-2				19:28	33		19:34	43		20:37	40		20:55	40		19:33	30		20:26	42		19:56	42
di	20-2			1:28		307	01:34		317	02:32		378	02:54		408	1:43		321	02:18		353	01:56		333
di	20-2				7:53	29		07:59	39		09:01	36		09:19	36		7:56	26		08:49	38		08:19	38
di	20-2			13:51		280	13:57		290	14:54		348	15:16		378	14:07		294	14:42		326	14:20		306
di	20-2				19:56	30		20:02	40		21:09	38		21:27	38		20:03	29		20:56	41		20:26	41
wo	21-2			2:00		306	02:06		316	03:06		376	03:28		406	2:16		319	02:51		351	02:29		331
wo	21-2				8:23	30		08:29	40		09:34	38		09:52	38		8:27	27		09:20	39		08:50	39
wo	21-2			14:22		278	14:28		288	15:26		346	15:48		376	14:39		293	15:14		325	14:52		305
wo	21-2				20:30	29		20:36	39		21:43	37		22:01	37		20:37	28		21:30	40		21:00	40
do	22-2			2:39		303	02:45		313	03:45		372	04:07		402	2:54		317	03:29		349	03:07		329
do	22-2				8:57	33		09:03	43		10:10	42		10:28	42		9:02	32		09:55	44		09:25	44
do	22-2			15:01		277	15:07		287	16:03		343	16:25		373	15:19		291	15:54		323	15:32		303
do	22-2				21:11	31		21:17	41		22:23	39		22:41	39		21:16	32		22:09	44		21:39	44
vr	23-2			3:23		298	03:29		308	04:26		363	04:48		393	3:38		311	04:13		343	03:51		323
vr	23-2				9:39	40		09:45	50		10:50	50		11:08	50		9:43	41		10:36	53		10:06	53
vr	23-2			15:46		274	15:52		284	16:43		337	17:05		367	16:04		286	16:39		318	16:17		298
vr	23-2				21:59	38		22:05	48		23:08	48		23:26	48		22:03	41		22:56	53		22:26	53
za	24-2			4:13		287	04:19		297	05:11		350	05:33		380	4:28		299	05:03		331	04:41		311
za	24-2				10:29	51		10:35	61		11:37	65		11:55	65		10:34	54		11:27	66		10:57	66
za	24-2			16:39		266	16:45		276	17:28		328	17:50		358	16:56		277	17:31		309	17:09		289
za	24-2				22:56	49		23:02	59		00:01	64		00:19	64		23:00	52		23:53	64		23:23	64
zo	25-2			5:15		274	05:21		284	06:15		335	06:37		365	5:28		283	06:03		315	05:41		295
zo	25-2				11:32	63		11:38	73		12:37	82		12:55	82		11:39	66		12:32	78		12:02	78
zo	25-2			17:48		259	17:54		269	18:47		319	19:09		349	18:05		267	18:40		299	18:18		279
zo	25-2				0:08	56		00:14	66		01:15	79		01:33	79		0:15	59		01:08	71		00:38	71
ma	26-2				0:08	56		00:14	66		01:15	79		01:33	79		0:15	59		01:08	71		00:38	71
ma	26-2			6:43		265	06:49		275	07:53		327	08:15		357	6:56		271	07:31		303	07:09		283
ma	26-2	15:58 NM			13:06	65		13:12	75		14:12	87		14:30	87		13:15	66		14:08	78		13:38	78
ma	26-2			19:24		260	19:30		270	20:34		321	20:56		351	19:41		267	20:16		299	19:54		279
di	27-2				1:48	48		01:54	58		02:53	69		03:11	69		1:59	49		02:52	61		02:22	61
di	27-2			8:17		268	08:23		278	09:20		334	09:42		364	8:34		276	09:09		308	08:47		288
di	27-2				14:28	51		14:34	61		15:33	67		15:51	67		14:37	51		15:30	63		15:00	63
di	27-2			20:49		273	20:55		283	21:55		339	22:17		369	21:03		281	21:38		313	21:16		293

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N, 7°02'09"E			53°40'21"N 6°59'45"E					
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
wo	28-2				3:08	30		03:14	40		04:15	46		04:33	46		3:17	29		04:10	41		03:40	41
wo	28-2			9:30		280	09:36		290	10:32		348	10:54		378	9:47		290	10:22		322	10:00		302
wo	28-2				15:40	35		15:46	45		16:49	46		17:07	46		15:48	34		16:41	46		16:11	46
wo	28-2			21:51		289	21:57		299	22:56		359	23:18		389	22:06		299	22:41		331	22:19		311

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maand		fase		HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
dag	datum	tijd		53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E		
do	1-3				4:28	12		4:34	22		05:34	19		05:51	19		4:30	9		5:23	21		4:53	21
do	1-3			10:29		290	10:35		300	11:33		359	11:55		389	10:45		303	11:20		335	10:58		315
do	1-3				16:49	20		16:55	30		17:57	26		18:15	26		16:53	17		17:46	29		17:16	29
do	1-3			22:43		301	22:49		311	23:50		372	00:12		0	23:00		313	23:35		345	23:13		325
vr	2-3				5:26	-3		05:32	7		06:31	0	00:12		402		5:27	-5		06:20	7		05:50	7
vr	2-3			11:21		295	11:27		305	12:32		363		06:49	0	11:36		311	12:11		343	11:49		323
vr	2-3				17:44	10		17:50	20		18:50	14	12:54		393		17:46	6		18:39	18		18:09	18
vr	2-3			23:31		308	23:37		318	00:40		0		19:08	14	23:49		-12	00:24		0	00:02		0
za	3-3				6:15	-7		06:21	3	00:40		377	01:02		407	23:49		321	00:24		353	00:02		333
za	3-3			12:08		294	12:14		304		07:19	0		07:37	0		6:16	-10		07:09	2		06:39	2
za	3-3				18:30	7		18:36	17	13:28		361	13:50		391	12:23		312	12:58		344	12:36		324
za	3-3			0:14		-10	00:20		0		19:36	12		19:54	12		18:32	3		19:25	15		18:55	15
zo	4-3			0:14		309	00:20		319	01:27		376	01:49		406	0:33		324	01:08		356	00:46		336
zo	4-3				6:58	-1		07:04	9		08:02	1		08:20	1		6:59	-4		07:52	8		07:22	8
zo	4-3			12:48		290	12:54		300	14:13		355	14:35		385	13:05		308	13:40		340	13:18		320
zo	4-3				19:11	11		19:17	21		20:17	18		20:35	18		19:13	7		20:06	19		19:36	19
ma	5-3			0:55		306	01:01		316	02:07		371	02:29		401	1:14		322	01:49		354	01:27		334
ma	5-3				7:35	10		07:41	20		08:40	14		08:58	14		7:36	6		08:29	18		07:59	18
ma	5-3	12:32 EK		13:24		285	13:30		295	14:39		348	15:01		378	13:43		303	14:18		335	13:56		315
ma	5-3				19:46	16		19:52	26		20:53	25		21:11	25		19:49	13		20:42	25		20:12	25
di	6-3			1:32		301	01:38		311	02:41		365	03:03		395	1:52		316	02:27		348	02:05		328
di	6-3				8:07	20		08:13	30		09:14	26		09:32	26		8:09	17		09:02	29		08:32	29
di	6-3			13:56		281	14:02		291	15:03		346	15:25		376	14:17		299	14:52		331	14:30		311
di	6-3				20:16	22		20:22	32		21:26	30		21:44	30		20:19	19		21:12	31		20:42	31
wo	7-3			2:08		294	02:14		304	03:16		358	03:38		388	2:29		308	03:04		340	02:42		320
wo	7-3				8:35	27		08:41	37		09:46	34		10:04	34		8:36	24		09:29	36		08:59	36
wo	7-3			14:29		279	14:35		289	15:35		345	15:57		375	14:50		295	15:25		327	15:03		307
wo	7-3				20:44	25		20:50	35		21:59	34		22:17	34		20:45	50		21:38	36		21:08	36
do	8-3			2:45		286	02:51		296	03:53		351	04:15		381	3:06		299	03:41		331	03:19		311
do	8-3				9:03	34		09:09	44		10:17	42		10:35	42		9:04	32		09:57	44		09:27	44
do	8-3			15:05		276	15:11		286	16:13		343	16:35		373	15:27		290	16:02		322	15:40		302
do	8-3				21:16	31		21:22	41		22:32	41		22:50	41		21:18	31		22:11	43		21:41	43
vr	9-3			3:27		275	03:33		285	04:32		341	04:54		371	3:47		287	04:22		319	04:00		299
vr	9-3				9:40	45		09:46	55		10:51	55		11:09	55		9:41	44		10:34	56		10:04	56
vr	9-3			15:49		272	15:55		282	16:54		339	17:16		369	16:09		284	16:44		316	16:22		296
vr	9-3				21:58	43		22:04	53		23:11	55		23:29	55		22:02	44		22:55	56		22:25	56

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maand		fase		53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N, 7°02'09"E			53°40'21"N 6°59'45"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
za	10-3			4:17		264	04:23		274	05:17		330	05:39		360	4:35		274	05:10		306	04:48		286
za	10-3				10:26	62		10:32	72		11:32	75		11:50	75		10:29	63		11:22	75		10:52	75
za	10-3			16:44		267	16:50		277	17:41		333	18:03		363	16:59		277	17:34		309	17:12		289
za	10-3				22:55	61		23:01	71		00:00	0		00:18	0		22:59	61		23:52	73		23:22	73
zo	11-3			5:17		254	05:23		264		00:00	75		00:18	75	5:32		263	06:07		295	05:45		275
zo	11-3				11:28	82		11:34	92	06:12		321	06:34		351		11:32	82		12:25	94		11:55	94
zo	11-3			17:45		265	17:51		275		12:24	101		12:42	101	17:59		273	18:34		305	18:12		285
zo	11-3				0:06	-10		00:12	0	18:37		330	18:59		360		0:08	-12		01:01	0		00:31	0
ma	12-3				0:06	77		00:12	87		01:02	96		01:20	96		0:08	77		01:01	89		00:31	89
ma	12-3			6:25		251	06:31		261	07:17		317	07:39		347	6:38		258	07:13		290	06:51		270
ma	12-3	15:54 VM			12:44	93		12:50	103		13:35	120		13:53	120		12:42	94		13:35	106		13:05	106
ma	12-3			18:54		269	19:00		279	19:48		333	20:10		363	19:07		276	19:42		308	19:20		288
di	13-3				1:27	81		01:33	91		02:24	105		02:42	105		1:28	82		02:21	94		01:51	94
di	13-3			7:46		256	07:52		266	08:36		321	08:58		351	7:58		262	08:33		294	08:11		274
di	13-3				14:04	89		14:10	99		15:07	115		15:25	115		14:11	92		15:04	104		14:34	104
di	13-3			20:13		282	20:19		292	21:16		346	21:38		376	20:27		289	21:02		321	20:40		301
wo	14-3				2:50	73		02:56	83		03:51	91		04:09	91		3:01	73		03:54	85		03:24	85
wo	14-3			9:05		268	09:11		278	10:07		335	10:29		365	9:19		276	09:54		308	09:32		288
wo	14-3				15:12	75		15:18	85		16:17	91		16:35	91		15:23	77		16:16	89		15:46	89
wo	14-3			21:16		297	21:22		307	22:26		366	22:48		396	21:30		306	22:05		338	21:43		318
do	15-3				3:48	59		03:54	69		04:50	69		05:08	69		3:54	58		04:47	70		04:17	70
do	15-3			9:53		280	09:59		290	11:03		348	11:25		378	10:08		289	10:43		321	10:21		301
do	15-3				16:03	59		16:09	69		17:08	68		17:26	68		16:10	59		17:03	71		16:33	71
do	15-3			22:02		308	22:08		318	23:15		379	23:37		409	22:17		318	22:52		350	22:30		330
vr	16-3				4:32	45		04:38	55		05:37	52		05:55	52		4:36	44		05:29	56		04:59	56
vr	16-3			10:33		286	10:39		296	11:45		355	12:07		385	10:48		298	11:23		330	11:01		310
vr	16-3				16:46	45		16:52	55		17:52	51		18:10	51		16:51	44		17:44	56		17:14	56
vr	16-3			22:44		311	22:50		321	23:55		382	00:17		0	22:59		323	23:34		355	23:12		335
za	17-3				5:12	33		05:18	43		06:18	40		00:17	412		5:15	31		06:08	43		05:38	43
za	17-3			11:12		289	11:18		299	12:23		357		06:36	40	11:27		301	12:02		333	11:40		313
za	17-3				17:26	33		17:32	43		18:32	40		12:45	387		17:30	31		18:23	43		17:53	43
za	17-3			23:23		310	23:29		320	00:32		0		18:50	40	23:39		323	00:14		0	23:52		335
zo	18-3				5:50	23		05:56	33	00:32		379	00:54		409		5:53	20	00:14		355		06:16	32
zo	18-3			11:50		288	11:56		298		06:56	31		07:14	31	12:05		302		06:46	32	12:18		314
zo	18-3				18:04	25		18:10	35	13:00		356	13:22		386		18:07	21	12:40		334		18:30	33
zo	18-3			0:00		-10	00:06		0		19:09	32		19:27	32	0:17		-12		19:00	33	00:30		0

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maand		fase		53°34'37"N 6°39'41"E	53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E									
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm			
ma	19-3			0:00		307	00:06		317	01:07		376	01:29		406	0:17		320	00:52		352	00:30		332
ma	19-3				6:27	17		06:33	27		07:32	24		07:50	24		6:29	13		07:22	25		06:52	25
ma	19-3			12:26		287	12:32		297	13:33		354	13:55		384	12:42		300	13:17		332	12:55		312
ma	19-3				18:38	19		18:44	29		19:44	26		20:02	26		18:42	15		19:35	27		19:05	27
di	20-3			0:34		306	00:40		316	01:39		375	02:01		405	0:51		319	01:26		351	01:04		331
di	20-3				7:01	14		07:07	24		08:06	20		08:24	20		7:04	10		07:57	22		07:27	22
di	20-3	16:58	LK	12:58		286	13:04		296	14:03		355	14:25		385	13:15		299	13:50		331	13:28		311
di	20-3				19:10	16		19:16	26		20:18	22		20:36	22		19:14	12		20:07	24		19:37	24
wo	21-3			1:07		306	01:13		316	02:11		376	02:33		406	1:24		319	01:59		351	01:37		331
wo	21-3				7:33	16		07:39	26		08:40	21		08:58	21		7:36	11		08:29	23		07:59	23
wo	21-3			13:28		287	13:34		297	14:31		357	14:53		387	13:46		300	14:21		332	13:59		312
wo	21-3				19:40	14		19:46	24		20:51	20		21:09	20		19:46	11		20:39	23		20:09	23
do	22-3			1:43		305	01:49		315	02:47		376	03:09		406	1:59		318	02:34		350	02:12		330
do	22-3				8:03	20		08:09	30		09:13	26		09:31	26		8:07	16		09:00	28		08:30	28
do	22-3			14:01		287	14:07		297	15:06		358	15:28		388	14:20		300	14:55		332	14:33		312
do	22-3				20:14	15		20:20	25		21:26	22		21:44	22		20:19	93		21:12	25		20:42	25
vr	23-3			2:24		300	02:30		310	03:28		370	03:50		400	2:38		313	03:13		345	02:51		325
vr	23-3				8:37	27		08:43	37		09:48	35		10:06	35		8:40	24		09:33	36		09:03	36
vr	23-3			14:41		285	14:47		295	15:45		355	16:07		385	14:58		297	15:33		329	15:11		309
vr	23-3				20:54	20		21:00	30		22:05	29		22:23	29		20:58	19		21:51	31		21:21	31
za	24-3			3:09		289	03:15		299	04:12		357	04:34		387	3:22		301	03:57		333	03:35		313
za	24-3				9:17	38		09:23	48		10:26	48		10:44	48		9:20	37		10:13	49		09:43	49
za	24-3			15:27		278	15:33		288	16:29		346	16:51		376	15:43		289	16:18		321	15:56		301
za	24-3				21:41	30		21:47	40		22:48	42		23:06	42		21:44	31		22:37	43		22:07	43
zo	25-3			5:02		273	05:08		283	06:04		339	06:26		369	5:14		283	05:49		315	05:27		295
zo	25-3				11:06	50		11:12	60		12:12	60		12:30	60		11:10	48		12:03	60		11:33	60
zo	25-3			17:23		267	17:29		277	18:22		334	18:44		364	17:37		275	18:12		307	17:50		287
zo	25-3				23:39	43		23:45	53		00:42	0		01:00	0		23:42	-12		00:35	0		00:05	0
ma	26-3			6:14		258	06:20		268		00:42	60		01:00	60		23:42	38		00:35	50		00:05	50
ma	26-3				12:12	60		12:18	70	07:20		323	07:42		353	6:23		265	06:58		297	06:36		277
ma	26-3			18:40		259	18:46		269		13:12	87		13:30	87		12:18	68		13:11	80		12:41	80
ma	26-3				1:06	-10		01:12	0	19:43		324	20:05		354	18:54		265	19:29		297	19:07		277
di	27-3				1:06	50		01:12	60		02:08	70		02:26	70		1:20	48		02:13	60		01:43	60
di	27-3			7:44		254	07:50		264	08:43		318	09:05		348	8:00		260	08:35		292	08:13		272
di	27-3				14:02	66		14:08	76		15:01	92		15:19	92		14:10	66		15:03	78		14:33	78
di	27-3			20:12		263	20:18		273	21:16		327	21:38		357	20:30		28	21:05		301	20:43		281

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
dag	datum	tijd	fase	53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N, 7°02'09"E			53°40'21"N 6°59'45"E		
				HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
wo	28-3	4:57	NM		2:46	30		02:52	40		03:46	60		04:04	60		2:53	28		03:46	40		03:16	40
wo	28-3			9:09		264	09:15		274	10:11		330	10:33		360	9:25		272	10:00		304	09:38		284
wo	28-3				15:18	50		15:24	60		16:21	70		16:39	70		15:24	49		16:17	61		15:47	61
wo	28-3			21:32		279	21:38		289	22:37		347	22:59		377	21:47		287	22:22		319	22:00		299
do	29-3				4:03	20		04:09	30		05:08	30		05:26	30		4:07	18		05:00	30		04:30	30
do	29-3			10:18		280	10:24		290	11:20		349	11:42		379	10:33		290	11:08		322	10:46		302
do	29-3				16:31	34		16:37	44		17:38	46		17:56	46		16:37	31		17:30	43		17:00	43
do	29-3			22:33		295	22:39		305	23:38		366	00:00		0	22:49		306	23:24		338	23:02		318
vr	30-3				5:16	0		05:22	10		06:19	10	00:00		396		5:17	-2		06:10	10		05:40	10
vr	30-3			11:15		291	11:21		301	12:21		361		06:37	10	11:29		305	12:04		337	11:42		317
vr	30-3				17:37	19		17:43	29		18:42	26	12:43		391		17:39	16		18:32	28		18:02	28
vr	30-3			23:25		306	23:31		316	00:30		0		19:00	26	23:42		318	00:17		0	23:55		330
za	31-3				6:10	-10		06:16	0	00:30		377	00:52		407		6:11	-12	00:17		350		06:34	0
za	31-3			12:04		295	12:10		305		07:13	0		07:31	0	12:19		311		07:04	0	12:32		323
za	31-3				18:28	11		18:34	21	13:20		364	13:42		394		18:29	7	12:54		343		18:52	19
za	31-3			0:11		-10	00:17		0		19:33	16		19:51	16	0:30		-12		19:22	19	00:43		0

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maand		fase		HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
dag	datum	tijd		53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E		
zo	1-4			0:11		308	00:17		318	01:18		377	01:40		407	0:30		322	01:05		354	00:43		334
zo	1-4				6:55	-10		07:01	0		07:59	0		08:17	0		6:56	-12		07:49	0		07:19	0
zo	1-4			12:46		293	12:52		303	14:10		360	14:32		390	13:03		311	13:38		343	13:16		323
zo	1-4				19:11	10		19:17	20		20:16	18		20:34	18		19:13	5		20:06	17		19:36	17
ma	2-4			0:52		305	00:58		315	02:00		371	02:22		401	1:13		319	01:48		351	01:26		331
ma	2-4				7:34	0		07:40	10		08:39	10		08:57	10		7:35	-2		08:28	10		07:58	10
ma	2-4			13:22		289	13:28		299	14:40		354	15:02		384	13:41		307	14:16		339	13:54		319
ma	2-4				19:48	12		19:54	22		20:54	22		21:12	22		19:50	7		20:43	19		20:13	19
di	3-4			1:29		300	01:35		310	02:35		365	02:57		395	1:50		314	02:25		346	02:03		326
di	3-4				8:07	10		08:13	20		09:13	20		09:31	20		8:09	8		09:02	20		08:32	20
di	3-4			13:52		288	13:58		298	14:57		354	15:19		384	14:14		304	14:49		336	14:27		316
di	3-4	20:39	EK		20:19	14		20:25	24		21:27	24		21:45	24		20:22	11		21:15	23		20:45	23
wo	4-4			2:04		295	02:10		305	03:09		360	03:31		390	2:25		308	03:00		340	02:38		320
wo	4-4				8:33	10		08:39	20		09:43	20		10:01	20		8:35	8		09:28	20		08:58	20
wo	4-4			14:22		290	14:28		300	15:27		358	15:49		388	14:44		305	15:19		337	14:57		317
wo	4-4				20:45	16		20:51	26		21:57	25		22:15	25		20:48	28		21:41	25		21:11	25
do	5-4			2:39		289	02:45		299	03:45		355	04:07		385	3:00		303	03:35		335	03:13		315
do	5-4				8:58	20		09:04	30		10:11	30		10:29	30		8:59	18		09:52	30		09:22	30
do	5-4			14:55		291	15:01		301	16:03		361	16:25		391	15:16		306	15:51		338	15:29		318
do	5-4				21:12	20		21:18	30		22:27	28		22:45	28		21:14	18		22:07	30		21:37	30
vr	6-4			3:16		283	03:22		293	04:22		349	04:44		379	3:36		296	04:11		328	03:49		308
vr	6-4				9:28	30		09:34	40		10:40	40		10:58	40		9:29	28		10:22	40		09:52	40
vr	6-4			15:31		289	15:37		299	16:40		359	17:02		389	15:52		304	16:27		336	16:05		316
vr	6-4				21:45	31		21:51	41		23:00	40		23:18	40		21:48	29		22:41	41		22:11	41
za	7-4			3:54		274	04:00		284	05:00		341	05:22		371	4:15		288	04:50		320	04:28		300
za	7-4				10:02	50		10:08	60		11:13	60		11:31	60		10:03	48		10:56	60		10:26	60
za	7-4			16:10		286	16:16		296	17:17		355	17:39		385	16:31		299	17:06		331	16:44		311
za	7-4				22:24	49		22:30	59		23:37	59		23:55	59		22:28	47		23:21	59		22:51	59
zo	8-4			4:39		266	04:45		276	05:39		332	06:01		362	4:58		278	05:33		310	05:11		290
zo	8-4				10:41	70		10:47	80		11:50	80		12:08	80		10:43	68		11:36	80		11:06	80
zo	8-4			16:58		282	17:04		292	17:58		351	18:20		381	17:16		294	17:51		326	17:29		306
zo	8-4				23:13	70		23:19	80		00:19	0		00:37	0		23:17	69		00:10	0		23:40	81
ma	9-4			5:33		258	05:39		268	06:27		325	06:49		355	5:48		269	06:23		301	06:01		281
ma	9-4				11:33	90		11:39	100		12:34	111		12:52	111		11:35	88		12:28	107		11:58	100
ma	9-4			17:56		280	18:02		290	18:49		349	19:11		379	18:10		290	18:45		322	18:23		302
ma	9-4				0:15	-10		00:21	0		00:21	0		00:21	0		0:18	-12		00:21	0		00:21	0

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maan	53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E					
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
di	10-4				0:15	80		00:21	90		01:11	100		01:29	100		0:18	78		01:11	90		00:41	90
di	10-4			6:38		256	06:44		266	07:30		323	07:52		353	6:48		265	07:23		297	07:01		277
di	10-4				12:39	108		12:45	118		13:31	131		13:49	131		12:40	108		13:33	120		13:03	120
di	10-4			19:04		283	19:10		293	19:57		350	20:19		380	19:14		88	19:49		322	19:27		302
wo	11-4				1:27	90		01:33	100		02:19	110		02:37	110		1:27	88		02:20	100		01:50	100
wo	11-4	8:08	VM	7:50		260	07:56		270	08:43		327	09:05		357	7:58		267	08:33		299	08:11		279
wo	11-4				13:59	105		14:05	115		14:49	135		15:07	135		13:52	106		14:45	118		14:15	118
wo	11-4			20:19		291	20:25		301	21:17		359	21:39		389	20:30		298	21:05		330	20:43		310
do	12-4				2:51	80		02:57	90		03:55	100		04:13	100		2:52	78		03:45	90		03:15	90
do	12-4			9:06		270	09:12		280	10:00		338	10:22		368	9:17		277	09:52		309	09:30		289
do	12-4				15:21	86		15:27	96		16:28	110		16:46	110		15:27	88		16:20	100		15:50	100
do	12-4			21:30		302	21:36		312	22:32		372	22:54		402	21:43		310	22:18		342	21:56		322
vr	13-4				4:01	60		04:07	70		05:07	70		05:25	70		4:08	58		05:01	70		04:31	70
vr	13-4			10:09		281	10:15		291	11:13		351	11:35		381	10:22		290	10:57		322	10:35		302
vr	13-4				16:23	63		16:29	73		17:28	78		17:46	78		16:30	63		17:23	75		16:53	75
vr	13-4			22:25		309	22:31		319	23:32		381	23:54		411	22:39		319	23:14		351	22:52		331
za	14-4				4:53	40		04:59	50		05:58	50		06:16	50		4:57	38		05:50	50		05:20	50
za	14-4			10:59		288	11:05		298	12:08		360	12:30		390	11:12		299	11:47		331	11:25		311
za	14-4				17:12	44		17:18	54		18:17	55		18:35	55		17:17	41		18:10	53		17:40	53
za	14-4			23:12		309	23:18		319	00:20		0	00:42		0	23:27		321	00:02		0	23:40		333
zo	15-4				5:38	20		05:44	30	00:20		381	00:42		411		5:41	18	00:02		353		06:04	30
zo	15-4			11:43		289	11:49		299	06:43		30	07:01		30	11:57		302	06:34		30	12:10		314
zo	15-4				17:56	31		18:02	41	12:54		361	13:16		391		18:00	26	12:32		334		18:23	38
zo	15-4			23:55		-10	00:01		0	19:00		40	19:18		40	0:10		-12	18:53		38	00:23		0
ma	16-4			23:55		305	00:01		315	01:04		376	01:26		406	0:10		320	00:45		352	00:23		332
ma	16-4				6:20	10		06:26	20		07:24	20		07:42	20		6:23	8		07:16	20		06:46	20
ma	16-4			12:24		288	12:30		298	13:35		359	13:57		389	12:37		303	13:12		335	12:50		315
ma	16-4				18:36	21		18:42	31	19:41		31	19:59		31		18:40	15		19:33	27		19:03	27
di	17-4			0:34		303	00:40		313	01:43		371	02:05		401	0:50		318	01:25		350	01:03		330
di	17-4				6:59	10		07:05	20		08:03	10		08:21	10		7:02	-2		07:55	10		07:25	10
di	17-4			13:01		288	13:07		298	14:12		358	14:34		388	13:15		304	13:50		336	13:28		316
di	17-4				19:15	14		19:21	24		20:20	22		20:38	22		19:18	9		20:11	21		19:41	21
wo	18-4			1:11		303	01:17		313	02:19		371	02:41		401	1:28		318	02:03		350	01:41		330
wo	18-4				7:37	0		07:43	10		08:41	10		08:59	10		7:39	-2		08:32	10		08:02	10
wo	18-4			13:34		291	13:40		301	14:43		360	15:05		390	13:51		306	14:26		338	14:04		318
wo	18-4				19:51	9		19:57	19		20:58	15		21:16	15		19:54	4		20:47	16		20:17	16

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maand		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
do	19-4			1:48		304	01:54		314	02:54		373	03:16		403	2:06		319	02:41		351	02:19		331
do	19-4	11:57	LK		8:13	10		08:19	20		09:18	10		09:36	10		8:14	-2		09:07	10		08:37	10
do	19-4			14:07		294	14:13		304	15:14		365	15:36		395	14:26		309	15:01		341	14:39		321
do	19-4				20:26	6		20:32	16		21:36	12		21:54	12		20:29	2		21:22	14		20:52	14
vr	20-4			2:29		302	02:35		312	03:33		372	03:55		402	2:45		316	03:20		348	02:58		328
vr	20-4				8:47	10		08:53	20		09:55	20		10:13	20		8:48	8		09:41	20		09:11	20
vr	20-4			14:45		296	14:51		306	15:50		369	16:12		399	15:03		310	15:38		342	15:16		322
vr	20-4				21:03	8		21:09	18		22:14	15		22:32	15		21:05	4		21:58	16		21:28	16
za	21-4			3:14		294	03:20		304	04:17		364	04:39		394	3:28		307	04:03		339	03:41		319
za	21-4				9:22	20		09:28	30		10:31	30		10:49	30		9:23	18		10:16	30		09:46	30
za	21-4			15:28		292	15:34		302	16:34		367	16:56		397	15:44		305	16:19		337	15:57		317
za	21-4				21:44	14		21:50	24		22:54	24		23:12	24		21:46	10		22:39	22		22:09	22
zo	22-4			4:04		280	04:10		290	05:07		349	05:29		379	4:16		291	04:51		323	04:29		303
zo	22-4				10:03	30		10:09	40		11:10	40		11:28	40		10:04	28		10:57	40		10:27	40
zo	22-4			16:18		284	16:24		294	17:23		358	17:45		388	16:32		295	17:07		327	16:45		307
zo	22-4				22:33	25		22:39	35		23:40	40		23:58	40		22:35	23		23:28	35		22:58	35
ma	23-4			5:05		264	05:11		274	06:07		331	06:29		361	5:15		273	05:50		305	05:28		285
ma	23-4				10:54	50		11:00	60		11:56	60		12:14	60		10:56	48		11:49	60		11:19	60
ma	23-4			17:19		275	17:25		285	18:24		347	18:46		377	17:32		282	18:07		314	17:45		294
ma	23-4				23:38	37		23:44	47		00:42	0		01:00	0		23:43	-12		00:36	0		00:06	0
di	24-4			6:17		254	06:23		264	07:17		320	07:39		350	6:31		261	07:06		293	06:44		273
di	24-4				12:12	60		12:18	70		13:06	89		13:24	89		12:21	63		13:14	75		12:44	75
di	24-4				1:21	-10		01:27	0		19:37	340		19:59	370		18:52	276		19:27	308		19:05	288
wo	25-4				1:21	30		01:27	40		02:18	60		02:36	60		1:26	28		02:19	40		01:49	40
wo	25-4			7:35		255	07:41		265	08:37		321	08:59		351	7:50		263	08:25		295	08:03		275
wo	25-4				13:52	58		13:58	68		14:51	85		15:09	85		13:56	58		14:49	70		14:19	70
wo	25-4			19:56		276	20:02		286	21:02		346	21:24		376	20:13		284	20:48		316	20:26		296
do	26-4				2:34	20		02:40	30		03:33	40		03:51	40		2:37	18		03:30	30		03:00	30
do	26-4			8:54		267	09:00		277	09:59		337	10:21		367	9:06		276	09:41		308	09:19		288
do	26-4	14:16	NM		15:00	45		15:06	55		16:03	65		16:21	65		15:04	45		15:57	57		15:27	57
do	26-4			21:12		290	21:18		300	22:18		363	22:40		393	21:25		299	22:00		331	21:38		311
vr	27-4				3:45	10		03:51	20		04:48	20		05:06	20		3:47	8		04:40	20		04:10	20
vr	27-4			10:00		282	10:06		292	11:06		355	11:28		385	10:13		293	10:48		325	10:26		305
vr	27-4				16:12	31		16:18	41		17:18	45		17:36	45		16:17	31		17:10	43		16:40	43
vr	27-4			22:13		302	22:19		312	23:18		377	23:40		407	22:28		313	23:03		345	22:41		325

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörh (Greetsiel)			Juist, Hafen			
maan	53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N, 7°02'09"E			53°40'21"N 6°59'45"E						
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	
za	28-4				4:55	0	05:01	10		05:56	0		06:14	0		4:57	-2		05:50	10		05:20	10		
za	28-4			10:55		292	11:01		302	12:05		364	12:27		394	11:09		305	11:44		337	11:22		317	
za	28-4				17:17	19	17:23	29		18:20	27		18:38	27		17:20	18		18:13	30		17:43	30		
za	28-4			23:04		306	23:10		316	00:09		0	00:31		0	23:22		318	23:57		350	23:35		330	
zo	29-4				5:48	0	05:54	10		00:09		379	00:31		409		5:49	-2		06:42	10		06:12	10	
zo	29-4			11:42		293	11:48		303		06:49	0	07:07		0	11:57		309	12:32		341	12:10		321	
zo	29-4				18:07	12	18:13	22		12:59		363	13:21		393		18:09	10		19:02	22		18:32	22	
zo	29-4			23:49		302	23:55		312		19:11	20	19:29		20	0:10		-12	00:45		0	00:23		0	
ma	30-4				6:31	0	06:37	10		00:54		371	01:16		401	0:10		315	00:45		347	00:23		327	
ma	30-4			12:22		290	12:28		300		07:34	0	07:52		0		6:33	-2		07:26	10		06:56	10	
ma	30-4				18:49	11	18:55	21		13:39		357	14:01		387	12:40		306	13:15		338	12:53		318	
ma	30-4			0:28		-10	00:34		0		19:53	21	20:11		21		18:51	8		19:44	20		19:14	20	

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maand		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
di	1-5			0:28		295	00:34		305	01:31		362	01:53		392	0:51		308	01:26		340	01:04		320
di	1-5				7:08	10		07:14	20		08:12	10		08:30	10		7:10	8		08:03	20		07:33	20
di	1-5			12:53		288	12:59		298	13:58		355	14:20		385	13:15		304	13:50		336	13:28		316
di	1-5				19:25	12		19:31	22		20:29	25		20:47	25		19:27	9		20:20	21		19:50	21
wo	2-5			1:04		290	01:10		300	02:05		357	02:27		387	1:27		303	02:02		335	01:40		315
wo	2-5				7:37	10		07:43	20		08:45	20		09:03	20		7:40	8		08:33	20		08:03	20
wo	2-5			13:22		292	13:28		302	14:23		362	14:45		392	13:45		306	14:20		338	13:58		318
wo	2-5				19:54	13		20:00	23		21:00	24		21:18	24		19:57	11		20:50	23		20:20	23
do	3-5	4:47	EK	1:40		289	01:46		299	02:41		357	03:03		387	2:01		301	02:36		333	02:14		313
do	3-5				8:01	10		08:07	20		09:12	20		09:30	20		8:04	8		08:57	20		08:27	20
do	3-5			13:54		298	14:00		308	14:59		371	15:21		401	14:15		312	14:50		344	14:28		324
do	3-5				20:19	15		20:25	25		21:30	23		21:48	23		20:22	13		21:15	25		20:45	25
vr	4-5			2:18		288	02:24		298	03:21		358	03:43		388	2:36		302	03:11		334	02:49		314
vr	4-5				8:30	20		08:36	30		09:41	30		09:59	30		8:31	18		09:24	30		08:54	30
vr	4-5			14:31		303	14:37		313	15:39		377	16:01		407	14:49		318	15:24		350	15:02		330
vr	4-5				20:49	23		20:55	33		22:02	30		22:20	30		20:51	21		21:44	33		21:14	33
za	5-5			2:56		285	03:02		295	04:02		355	04:24		385	3:13		300	03:48		332	03:26		312
za	5-5				9:03	30		09:09	40		10:12	40		10:30	40		9:04	28		09:57	40		09:27	40
za	5-5			15:08		303	15:14		313	16:18		377	16:40		407	15:26		318	16:01		350	15:39		330
za	5-5				21:23	39		21:29	49		22:36	47		22:54	47		21:26	37		22:19	49		21:49	49
zo	6-5			3:35		280	03:41		290	04:40		348	05:02		378	3:51		294	04:26		326	04:04		306
zo	6-5				9:36	60		09:42	70		10:46	70		11:04	70		9:38	58		10:31	70		10:01	70
zo	6-5			15:46		301	15:52		311	16:54		373	17:16		403	16:04		315	16:39		347	16:17		327
zo	6-5				22:00	58		22:06	68		23:12	69		23:30	69		22:05	57		22:58	69		22:28	69
ma	7-5			4:15		273	04:21		283	05:18		340	05:40		370	4:31		286	05:06		318	04:44		298
ma	7-5				10:11	80		10:17	90		11:20	90		11:38	90		10:13	78		11:06	90		10:36	90
ma	7-5			16:27		299	16:33		309	17:31		370	17:53		400	16:44		311	17:19		343	16:57		323
ma	7-5				22:45	75		22:51	85		23:51	87		00:09	0		22:48	75		23:41	87		23:11	87
di	8-5			5:02		267	05:08		277	06:00		334	06:09		364	5:15		279	05:50		311	05:28		291
di	8-5				10:54	90		11:00	100		12:01	110		12:19	110		10:57	98		11:50	110		11:20	110
di	8-5			17:17		298	17:23		308	18:15		369	18:19		400	17:30		308	18:05		340	17:43		320
di	8-5				23:38	84		23:44	94		00:38	0		18:37	399		23:41	-12		00:34	0		00:04	0
wo	9-5			5:58		265	06:04		275	06:38		332	07:18		362	6:07		275	06:42		307	06:20		287
wo	9-5				11:52	100		11:58	110		12:51	119		13:09	119		11:55	104		12:48	116		12:18	116
wo	9-5			18:17		299	18:23		309	19:16		369	19:38		400	18:26		307	19:01		339	18:39		319

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maand		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
do	10-5				0:39	80		00:45	90		01:35	100		01:53	100		0:41	78		01:34	90		01:04	90
do	10-5			7:05		268	07:11		278	08:07		336	08:29		366	7:08		276	07:43		308	07:21		288
do	10-5				12:58	97		13:04	107		13:52	119		14:10	119		12:58	98		13:51	110		13:21	110
do	10-5	23:43	VM	19:28		284	19:34		311	20:32		372	20:54		402	19:33		308	20:08		340	19:46		320
vr	11-5				1:48	70		01:54	80		02:45	90		03:03	90		1:47	68		02:40	80		02:10	80
vr	11-5			8:17		275	08:23		285	09:16		345	09:38		375	8:21		281	08:56		313	08:34		293
vr	11-5				14:11	82		14:17	92		15:11	108		15:29	108		14:07	84		15:00	96		14:30	96
vr	11-5			20:41		305	20:47		315	21:43		379	22:05		409	20:49		312	21:24		344	21:02		324
za	12-5				3:00	50		03:06	60		04:09	70		04:27	70		3:01	48		03:54	60		03:24	60
za	12-5			9:23		284	09:29		294	10:24		356	10:46		386	9:33		291	10:08		323	09:46		303
za	12-5				15:26	62		15:32	72		16:35	82		16:53	82		15:29	63		16:22	75		15:52	75
za	12-5			21:43		308	21:49		318	22:46		383	23:08		413	21:55		317	22:30		349	22:08		329
zo	13-5				4:03	30		04:09	40		05:11	40		05:29	40		4:08	28		05:01	40		04:31	40
zo	13-5			10:21		290	10:27		300	11:26		365	11:48		395	10:32		300	11:07		332	10:45		312
zo	13-5				16:28	44		16:34	54		17:34	58		17:52	58		16:34	42		17:27	54		16:57	54
zo	13-5			22:36		307	22:42		317	23:42		382	00:04		0	22:49		319	23:24		351	23:02		331
ma	14-5				4:57	20		05:03	30		06:02	30	00:04		412		5:01	18		05:54	30		05:24	30
ma	14-5			11:11		292	11:17		302	12:20		367		06:20	30	11:22		306	11:57		338	11:35		318
ma	14-5				17:19	31		17:25	41		18:24	42	12:42		397		17:25	27		18:18	39		17:48	39
ma	14-5			23:23		304	23:29		314	00:32		0	18:42		42	23:38		319	00:13		0	23:51		331
di	15-5				5:45	10		05:51	20	00:32		377	00:54		407		5:49	8	00:13		351		06:12	20
di	15-5			11:55		292	12:01		302		06:49	20		07:07	20	12:07		308		06:42	20	12:20		320
di	15-5				18:06	22		18:12	32	13:06		366	13:28		396		18:11	16	12:42		340		18:34	28
di	15-5			0:06		-10	00:12		0		19:10	31		19:28	31	0:23		-12		19:04	28	00:36		0
wo	16-5			0:06		302	00:12		312	01:17		373	01:39		403	0:23		318	00:58		350	00:36		330
wo	16-5				6:29	10		06:35	20		07:34	10		07:52	10		6:33	-2		07:26	10		06:56	10
wo	16-5			12:34		293	12:40		303	13:47		365	14:09		395	12:48		310	13:23		342	13:01		322
wo	16-5				18:50	13		18:56	23		19:55	21		20:13	21		18:54	8		19:47	20		19:17	20
do	17-5			0:48		302	00:54		312	02:00		371	02:22		401	1:06		319	01:41		351	01:19		331
do	17-5				7:12	0		07:18	10		08:17	10		08:35	10		7:15	-2		08:08	10		07:38	10
do	17-5			13:10		297	13:16		307	14:23		367	14:45		397	13:28		313	14:03		345	13:41		325
do	17-5				19:33	5		19:39	15		20:39	11		20:57	11		19:36	1		20:29	13		19:59	13
vr	18-5			1:32		302	01:38		312	02:41		370	03:03		400	1:49		318	02:24		350	02:02		330
vr	18-5				7:54	0		08:00	10		08:59	10		09:17	10		7:55	-2		08:48	10		08:18	10
vr	18-5			13:47		301	13:53		311	14:58		372	15:20		402	14:07		317	14:42		349	14:20		329
vr	18-5				20:15	0		20:21	10		21:23	6		21:41	6		20:16	-3		21:09	9		20:39	9

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maand		dag datum		53°34'37"N 6°39'41"E	53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E									
tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm		
za	19-5	2:33	LK	2:18		298	02:24		308	03:23		366	03:45		396	2:34		313	03:09		345	02:47		325
za	19-5				8:35	10		08:41	20		09:41	20		09:59	20		8:34	8		09:27	20		08:57	20
za	19-5			14:31		303	14:37		313	15:37		377	15:59		407	14:49		318	15:24		350	15:02		330
za	19-5				20:58	1		21:04	11		22:07	8		22:25	8		20:58	-3		21:51	9		21:21	9
zo	20-5			3:07		288	03:13		298	04:10		357	04:32		387	3:22		302	03:57		334	03:35		314
zo	20-5				9:15	20		09:21	30		10:22	30		10:40	30		9:13	8		10:06	20		09:36	20
zo	20-5			15:18		301	15:24		311	16:23		377	16:45		407	15:35		314	16:10		346	15:48		326
zo	20-5				21:45	276		21:51	17		22:54	18		23:12	18		21:43	3		22:36	15		22:06	15
ma	21-5			4:01		276	04:07		286	05:02		344	05:24		374	4:15		288	04:50		320	04:28		300
ma	21-5				10:00	30		10:06	40		11:06	40		11:24	40		9:58	28		10:51	40		10:21	40
ma	21-5			16:11		294	16:17		304	17:16		371	17:38		401	16:27		306	17:02		338	16:40		318
ma	21-5				22:41	18		22:47	28		23:48	33		00:06	0		22:39	15		23:32	27		23:02	27
di	22-5			5:01		264	05:07		274	06:01		332		00:06	30	5:15		275	05:50		307	05:28		287
di	22-5				10:56	40		11:02	50		12:00	60	06:23		362		10:56	38		11:49	50		11:19	50
di	22-5			17:13		288	17:19		298	18:16		365		12:18	64	17:28		297	18:03		329	17:41		309
di	22-5				23:55	-10		00:01	0		00:55	0	18:38		395		23:57	-12		00:50	0		00:20	0
wo	23-5				23:55	20		00:01	30		00:55	40		01:13	40		23:57	18		00:50	30		00:20	30
wo	23-5			6:06		259	06:12		269	07:07		326	07:29		356	6:21		269	06:56		301	06:34		281
wo	23-5				12:17	52		12:23	62		13:17	75		13:35	75		12:20	51		13:13	63		12:43	63
wo	23-5			18:21		286	18:27		296	19:24		361	19:46		391	18:38		295	19:13		327	18:51		307
do	24-5				1:06	20		01:12	30		02:04	40		02:22	40		1:08	18		02:01	30		01:31	30
do	24-5			7:15		261	07:21		271	08:23		330	08:45		360	7:28		272	08:03		304	07:41		284
do	24-5				13:29	48		13:35	58		14:29	70		14:47	70		13:32	48		14:25	60		13:55	60
do	24-5			19:32		289	19:38		299	20:42		365	21:04		395	19:48		299	20:23		331	20:01		311
vr	25-5				2:08	20		02:14	30		03:08	30		03:26	30		2:09	18		03:02	30		02:32	30
vr	25-5			8:27		270	08:33		280	09:36		343	09:58		373	8:37		280	09:12		312	08:50		292
vr	25-5				14:32	40		14:38	50		15:35	59		15:53	59		14:35	41		15:28	53		14:58	53
vr	25-5	21:44	NM	20:45		296	20:51		306	21:53		373	22:15		403	20:57		306	21:32		338	21:10		318
za	26-5				3:13	10		03:19	20		04:16	20		04:34	20		3:14	18		04:07	30		03:37	30
za	26-5			9:33		280	09:39		290	10:40		355	11:02		385	9:44		292	10:19		324	09:57		304
za	26-5				15:40	32		15:46	42		16:45	47		17:03	47		15:45	33		16:38	45		16:08	45
za	26-5			21:48		300	21:54		310	22:52		377	23:14		407	22:01		311	22:36		343	22:14		323
zo	27-5				4:24	10		04:30	20		05:25	10		05:43	10		4:26	8		05:19	20		04:49	20
zo	27-5			10:29		286	10:35		296	11:36		359	11:58		389	10:42		300	11:17		332	10:55		312
zo	27-5				16:50	23		16:56	33		17:52	33		18:10	33		16:55	22		17:48	34		17:18	34
zo	27-5			22:41		297	22:47		307	23:44		370	00:06		0	22:58		309	23:33		341	23:11		321

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörhörn (Greetsiel)			Juist, Hafen			
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N, 7°02'09"E		53°40'21"N 6°59'45"E											
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	
ma	28-5				5:20	10	05:26	20		06:20	10		00:06		400		5:22	8		06:15	20		05:45	20	
ma	28-5			11:16		286	11:22		296	12:26		355		06:38	10	11:32		302	12:07		334	11:45		314	
ma	28-5				17:43	16	17:49	26		18:44	26		12:48		385		17:46	14		18:39	26		18:09	26	
ma	28-5			23:27		288	23:33		298	00:29		0		19:02	26	23:48		-12	00:23		0	00:01		0	
di	29-5				6:04	10	06:10	20		00:29		358		00:51		388		23:48		303	00:23		335	00:01	315
di	29-5			11:55		284	12:01		294		07:06	10		07:24	10		6:06	8		06:59	20		06:29	20	
di	29-5				18:26	15	18:32	25		13:02		351		13:24		381		12:14		301	12:49		333	12:27	313
di	29-5			0:06		-10	00:12		0		19:28	26		19:46	26		18:28	12		19:21	24		18:51	24	
wo	30-5			0:06		281	00:12		291	01:05		349		01:27		379		0:30		296	01:05		328	00:43	308
wo	30-5				6:39	10	06:45	20		07:44	20		08:02		20		6:42	8		07:35	20		07:05	20	
wo	30-5			12:25		286	12:31		296	13:25		354		13:47		384		12:48		302	13:23		334	13:01	314
wo	30-5				19:01	17	19:07	27		20:05	29		20:23		29		19:04	14		19:57	26		19:27	26	
do	31-5			0:42		280	00:48		290	01:39		349		02:01		379		1:06		294	01:41		326	01:19	306
do	31-5				7:08	20	07:14	30		08:17	30		08:35		30		7:12	18		08:05	30		07:35	30	
do	31-5			12:55		295	13:01		305	13:56		367		14:18		397		13:18		309	13:53		341	13:31	321
do	31-5				19:30	20	19:36	30		20:37	30		20:55		30		19:33	17		20:26	29		19:56	29	

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem			
maand		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E						
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	
vr	1-6			1:18		285	01:24		295	02:17		356	02:39		386	1:39		299	02:14		331	01:52		311	
vr	1-6				7:35	20		07:41	30		08:46	30		09:04	30		7:39	18		08:32	30		08:02	30	
vr	1-6	14:42	EK	13:31		305	13:37		315	14:36		381	14:58		411	13:50		320	14:25		352	14:03		332	
vr	1-6				19:58	24		20:04	34		21:08	31		21:26	31		20:00	28		20:53	34		20:23	34	
za	2-6			1:58		291	02:04		301	03:00		363	03:22		393	2:15		305	02:50		337	02:28		317	
za	2-6				8:07	30		08:13	40		09:17	40		09:35	40		8:10	28		09:03	40		08:33	40	
za	2-6			14:10		313	14:16		323	15:17		390	15:39		420	14:27		328	15:02		360	14:40		340	
za	2-6				20:30	33		20:36	43		21:41	39		21:59	39		20:33	32		21:26	44		20:56	44	
zo	3-6			2:38		292	02:44		302	03:42		364	04:04		394	2:53		307	03:28		339	03:06		319	
zo	3-6				8:42	40		08:48	50		09:50	50		10:08	50		8:45	38		09:38	50		09:08	50	
zo	3-6			14:49		315	14:55		325	15:57		391	16:19		421	15:04		330	15:39		362	15:17		342	
zo	3-6				21:05	48		21:11	58		22:15	56		22:33	56		21:09	47		22:02	59		21:32	59	
ma	4-6			3:17		287	03:23		297	04:21		358	04:43		388	3:31		302	04:06		334	03:44		314	
ma	4-6				9:16	60		09:22	70		10:24	70		10:42	70		9:19	58		10:12	70		09:42	70	
ma	4-6			15:25		313	15:31		323	16:33		387	16:55		417	15:40		328	16:15		360	15:53		340	
ma	4-6				21:41	63		21:47	73		22:50	74		23:08	74		21:46	62		22:39	74		22:09	74	
di	5-6			3:55		280	04:01		290	04:58		348	05:20		378	4:09		294	04:44		326	04:22		306	
di	5-6				9:48	80		09:54	90		10:57	90		11:15	90		9:53	78		10:46	90		10:16	90	
di	5-6			16:02		310	16:08		320	17:08		383	17:30		413	16:17		324	16:52		356	16:30		336	
di	5-6				22:21	73		22:27	83		23:27	84		23:45	84		22:25	72		23:18	84		22:48	84	
wo	6-6			4:35		273	04:41		283	05:35		340	05:57		370	4:48		287	05:23		319	05:01		299	
wo	6-6				10:26	80		10:32	90		11:34	90		11:52	90		10:31	88		11:24	100		10:54	100	
wo	6-6			16:44		308	16:50		318	17:47		381	18:09		411	16:58		320	17:33		352	17:11		332	
wo	6-6				23:07	74		23:13	84		00:09	0		00:27	0		23:10	74		00:03	0		23:33	86	
do	7-6			5:23		270	05:29		280		00:09	80		00:27	80		5:32		283		00:03	80		05:45	295
do	7-6				11:16	80		11:22	90		06:23	337		06:45	367		11:20	88		06:07	315		11:43	100	
do	7-6			17:36		306	17:42		316		12:20	98		12:38	98		17:46		318		12:13	101		17:59	330
do	7-6				0:00	-10		00:06	0		18:37	378		18:59	408		0:02	-12		18:21	350		00:25	0	
vr	8-6				0:00	60		00:06	70		00:59	80		01:17	80		0:02	68		00:55	80		00:25	80	
vr	8-6			6:20		271	06:26		281	07:28		338	07:50		368	6:25		283	07:00		315	06:38		295	
vr	8-6				12:14	80		12:20	90		13:14	95		13:32	95		12:18	83		13:11	95		12:41	95	
vr	8-6			18:35		304	18:41		314	19:45		376	20:07		406	18:43		58	19:18		347	18:56		327	
za	9-6				0:59	60		01:05	70		01:57	70		02:15	70		1:00	58		01:53	70		01:23	70	
za	9-6			7:27		275	07:33		285	08:36		345	08:58		375	7:27		285	08:02		317	07:40		297	
za	9-6	15:10	VM		13:18	72		13:24	82		14:17	92		14:35	92		13:20	73		14:13	85		13:43	85	
za	9-6			19:44		303	19:50		313	20:58		376	21:20		406	19:49		313	20:24		345	20:02		325	

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
zo	10-6				2:04	50		02:10	60		03:08	60		03:26	60		2:05	48		02:58	60		02:28	60
zo	10-6			8:37		281	08:43		291	09:40		354	10:02		384	8:39		291	09:14		323	08:52		303
zo	10-6				14:28	62		14:34	72		15:34	82		15:52	82		14:29	62		15:22	74		14:52	74
zo	10-6			20:55		303	21:01		313	22:03		378	22:25		408	21:03		313	21:38		345	21:16		325
ma	11-6				3:11	30		03:17	40		04:20	50		04:38	50		3:15	38		04:08	50		03:38	50
ma	11-6			9:40		288	09:46		298	10:44		362	11:06		392	9:48		299	10:23		331	10:01		311
ma	11-6				15:38	50		15:44	60		16:47	65		17:05	65		15:46	48		16:39	60		16:09	60
ma	11-6			21:56		303	22:02		313	23:03		379	23:25		409	22:09		316	22:44		348	22:22		328
di	12-6				4:13	30		04:19	40		05:20	30		05:38	30		4:19	18		05:12	30		04:42	30
di	12-6			10:36		292	10:42		302	11:43		367	12:05		397	10:46		306	11:21		338	10:59		318
di	12-6				16:39	38		16:45	48		17:46	49		18:04	49		16:49	34		17:42	46		17:12	46
di	12-6			22:51		302	22:57		312	00:00		0	00:22		0	23:06		317	23:41		349	23:19		329
wo	13-6				5:08	20		05:14	30	00:00		377	00:22		407		5:15	18		06:08	30		05:38	30
wo	13-6			11:25		294	11:31		304		06:14	20		06:32	20	11:37		310	12:12		342	11:50		322
wo	13-6				17:35	27		17:41	37	12:36		368	12:58		398		17:43	21		18:36	33		18:06	33
wo	13-6			23:41		301	23:47		311		18:40	37		18:58	37	23:58		-12	00:33		0	00:11		0
do	14-6				6:00	10		06:06	20	00:52		373	01:14		403	23:58		318	00:33		350	00:11		330
do	14-6			12:09		296	12:15		306		07:06	20		07:24	20		6:06	8		06:59	20		06:29	20
do	14-6				18:28	15		18:34	25	13:23		368	13:45		398	12:23		314	12:58		346	12:36		326
do	14-6			0:31		-10	00:37		0		19:33	24		19:51	24		18:33	10		19:26	22		18:56	22
vr	15-6			0:31		299	00:37		309	01:43		369	02:05		399	0:48		317	01:23		349	01:01		329
vr	15-6				6:51	10		06:57	20		07:56	20		08:14	20		6:55	8		07:48	20		07:18	20
vr	15-6			12:51		300	12:57		310	14:06		370	14:28		400	13:08		318	13:43		350	13:21		330
vr	15-6				19:20	4		19:26	14		20:25	12		20:43	12		19:22	0		20:15	12		19:45	12
za	16-6			1:21		297	01:27		307	02:31		364	02:53		394	1:37		315	02:12		347	01:50		327
za	16-6				7:40	10		07:46	20		08:45	20		09:03	20		7:41	8		08:34	20		08:04	20
za	16-6			13:34		305	13:40		315	14:46		374	15:08		404	13:53		321	14:28		353	14:06		333
za	16-6				20:11	-3		20:17	7		21:16	4		21:34	4		20:11	-6		21:04	6		20:34	6
zo	17-6			2:11		292	02:17		302	03:19		357	03:41		387	2:27		309	03:02		341	02:40		321
zo	17-6				8:28	10		08:34	20		09:33	20		09:51	20		8:27	8		09:20	20		08:50	20
zo	17-6	13:33	LK	14:21		307	14:27		317	15:29		377	15:51		407	14:39		323	15:14		355	14:52		335
zo	17-6				21:01	-4		21:07	6		22:06	4		22:24	4		21:00	-6		21:53	6		21:23	6
ma	18-6			3:01		285	03:07		295	04:07		349	04:29		379	3:17		301	03:52		333	03:30		313
ma	18-6				9:15	10		09:21	20		10:21	30		10:39	30		9:13	8		10:06	20		09:36	20
ma	18-6			15:11		307	15:17		317	16:16		379	16:38		409	15:28		321	16:03		353	15:41		333
ma	18-6				21:52	40		21:58	13		22:57	12		23:15	12		21:51	38		22:44	12		22:14	12

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
di	19-6			3:54		276	04:00		286	04:58		341	05:20		371	4:09		292	04:44		324	04:22		304
di	19-6				10:04	20		10:10	30		11:10	40		11:28	40		10:02	18		10:55	30		10:25	30
di	19-6			16:03		304	16:09		314	17:07		378	17:29		408	16:20		317	16:55		349	16:33		329
di	19-6				22:46	12		22:52	22		23:48	24			0		22:45	10		23:38	22		23:08	22
wo	20-6			4:49		269	04:55		279	05:53		335	00:06		20	5:04		284	05:39		316	05:17		296
wo	20-6				10:58	30		11:04	40		12:03	50	06:15		365		10:58	28		11:51	40		11:21	40
wo	20-6			16:59		300	17:05		310	18:04		375		12:21	54	17:16		313	17:51		345	17:29		325
wo	20-6				23:42	21		23:48	31		00:42	0	18:26		405		23:43	-12		00:36	0		00:06	0
do	21-6			5:47		266	05:53		276		00:42	30		01:00	30		23:43	18		00:36	30		00:06	30
do	21-6				11:58	40		12:04	50	06:53		333	07:15		363	6:00		280	06:35		312	06:13		292
do	21-6			18:00		296	18:06		306		13:00	62		13:18	62		12:00	42		12:53	54		12:23	54
do	21-6			#####		-10			0	19:07		371	19:29		401	18:17		309	18:52		341	18:30		321
vr	22-6				0:39	20		00:45	30		01:38	40		01:56	40		0:40	18		01:33	30		01:03	30
vr	22-6			6:46		266	06:52		276	07:58		335	08:20		365	6:58		280	07:33		312	07:11		292
vr	22-6				12:59	44		13:05	54		14:00	64		14:18	64		13:01	43		13:54	55		13:24	55
vr	22-6			19:04		294	19:10		304	20:15		369	20:37		399	19:19		307	19:54		339	19:32		319
za	23-6				1:35	20		01:41	30		02:35	40		02:53	40		1:36	18		02:29	30		01:59	30
za	23-6			7:51		269	07:57		279	09:04		340	09:26		370	8:00		282	08:35		314	08:13		294
za	23-6				13:59	42		14:05	52		15:00	61		15:18	61		14:01	41		14:54	53		14:24	53
za	23-6			20:12		291	20:18		301	21:23		367	21:45		397	20:23		304	20:58		336	20:36		316
zo	24-6	4:31	NM		2:34	20		02:40	30		03:36	30		03:54	30		2:34	18		03:27	30		02:57	30
zo	24-6			8:59		273	09:05		283	10:06		345	10:28		375	9:07		287	09:42		319	09:20		299
zo	24-6				15:03	37		15:09	47		16:06	56		16:24	56		15:06	37		15:59	49		15:29	49
zo	24-6			21:19		288	21:25		298	22:24		362	22:46		392	21:30		301	22:05		333	21:43		313
ma	25-6				3:41	20		03:47	30		04:45	30		05:03	30		3:42	18		04:35	30		04:05	30
ma	25-6			10:00		277	10:06		287	11:03		347	11:25		377	10:11		293	10:46		325	10:24		305
ma	25-6				16:18	31		16:24	41		17:19	46		17:37	46		16:23	29		17:16	41		16:46	41
ma	25-6			22:18		283	22:24		293	23:20		354	23:42		384	22:33		297	23:08		329	22:46		309
di	26-6				4:47	20		04:53	30		05:47	30		06:05	30		4:51	18		05:44	30		05:14	30
di	26-6			10:50		280	10:56		290	11:55		347	12:17		377	11:04		297	11:39		329	11:17		309
di	26-6				17:17	24		17:23	34		18:17	36		18:35	36		17:21	21		18:14	33		17:44	33
di	26-6			23:08		277	23:14		287	00:11		0	00:33		0	23:26		293	00:01		0	23:39		305
wo	27-6				5:35	20		05:41	30	00:11		345	00:33		375		5:38	18	00:01		325	06:01		30
wo	27-6			11:31		282	11:37		292		06:37	30		06:55	30	11:48		301		06:31	30	12:01		313
wo	27-6				18:02	24		18:08	34	12:37		349	12:59		379		18:05	20	12:23		333		18:28	32
wo	27-6			23:50		274	23:56		284		19:03	35		19:21	35	0:10		-12		18:58	32	00:23		0

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörñ (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
do	28-6				6:13	30		06:19	40	00:51		340	01:13		370	0:10		291	00:45		323	00:23		303
do	28-6			12:03		288	12:09		298		07:18	40		07:36	40		6:17	28		07:10	40		06:40	40
do	28-6				18:39	29		18:45	39	13:07		356	13:29		386	12:24		306	12:59		338	12:37		318
do	28-6			0:26		-10	00:32		0		19:42	40		20:00	40		18:41	25		19:34	37		19:04	37
vr	29-6			0:26		277	00:32		287	01:24		344	01:46		374	0:47		294	01:22		326	01:00		306
vr	29-6				6:45	30		06:51	40		07:54	40		08:12	40		6:49	28		07:42	40		07:12	40
vr	29-6			12:35		300	12:41		310	13:39		370	14:01		400	12:56		316	13:31		348	13:09		328
vr	29-6				19:11	34		19:17	44		20:17	45		20:35	45		19:13	31		20:06	43		19:36	43
za	30-6			1:01		286	01:07		296	02:00		354	02:22		384	1:21		302	01:56		334	01:34		314
za	30-6				7:16	30		07:22	40		08:27	50		08:45	50		7:20	28		08:13	40		07:43	40
za	30-6			13:11		313	13:17		323	14:17		385	14:39		415	13:30		329	14:05		361	13:43		341
za	30-6				19:42	39		19:48	49		20:51	48		21:09	48		19:44	36		20:37	48		20:07	48

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E					
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
zo	1-7	2:51	EK	1:39		294	01:45		304	02:40		364	03:02		394	1:57		311	02:32		343	02:10		323
zo	1-7				7:51	40		07:57	50		09:00	50		09:18	50		7:53	38		08:46	50		08:16	50
zo	1-7			13:51		321	13:57		331	14:57		395	15:19		425	14:06		338	14:41		370	14:19		350
zo	1-7				20:15	46		20:21	56		21:24	54		21:42	54		20:17	42		21:10	54		20:40	54
ma	2-7			2:19		297	02:25		307	03:21		367	03:43		397	2:34		314	03:09		346	02:47		326
ma	2-7				8:25	50		08:31	60		09:33	60		09:51	60		8:28	48		09:21	60		08:51	60
ma	2-7			14:29		322	14:35		332	15:36		396	15:58		426	14:43		340	15:18		372	14:56		352
ma	2-7				20:49	55		20:55	65		21:58	65		22:16	65		20:52	50		21:45	62		21:15	62
di	3-7			2:58		291	03:04		301	04:00		361	04:22		391	3:11		309	03:46		341	03:24		321
di	3-7				8:57	60		09:03	70		10:05	80		10:23	80		9:01	58		09:54	70		09:24	70
di	3-7			15:05		318	15:11		328	16:11		391	16:33		421	15:18		336	15:53		368	15:31		348
di	3-7				21:23	63		21:29	73		22:31	75		22:49	75		21:27	58		22:20	70		21:50	70
wo	4-7			3:34		282	03:40		292	04:36		350	04:58		380	3:45		300	04:20		332	03:58		312
wo	4-7				9:27	70		09:33	80		10:37	80		10:55	80		9:33	68		10:26	80		09:56	80
wo	4-7			15:37		313	15:43		323	16:44		385	17:06		415	15:51		330	16:26		362	16:04		342
wo	4-7				21:57	66		22:03	76		23:05	79		23:23	79		22:02	62		22:55	74		22:25	74
do	5-7			4:08		275	04:14		285	05:11		340	05:33		370	4:20		292	04:55		324	04:33		304
do	5-7				10:01	70		10:07	80		11:11	80		11:29	80		10:07	68		11:00	80		10:30	80
do	5-7			16:14		309	16:20		319	17:20		380	17:42		410	16:28		326	17:03		358	16:41		338
do	5-7				22:37	65		22:43	75		23:43	77		00:01	0		22:40	62		23:33	74		23:03	74
vr	6-7			4:48		272	04:54		282	05:49		336	06:11		366	4:59		289	05:34		321	05:12		301
vr	6-7				10:44	70		10:50	80		11:52	80		12:10	84		10:49	68		11:42	80		11:12	80
vr	6-7			16:59		307	17:05		317	18:02		376	18:24		406	17:12		323	17:47		355	17:25		335
vr	6-7				23:23	61		23:29	71		00:27	0		00:01	70		23:26	59		00:19	0		23:49	71
za	7-7			5:36		272	05:42		282	06:39		336	07:01		366	5:46		289	06:21		321	05:59		301
za	7-7				11:36	60		11:42	70		12:41	81		12:59	81		11:41	68		12:34	82		12:04	80
za	7-7			17:52		304	17:58		314	18:54		372	19:16		402	18:04		319	18:39		351	18:17		331
za	7-7				0:16	-10		00:22	0		01:19	70		01:37	70		0:19	-12		01:12	60		00:42	0
zo	8-7				0:16	50		00:22	60		01:19	70		01:37	70		0:19	48		01:12	60		00:42	60
zo	8-7			6:32		274	06:38		284	07:47		339	08:09		369	6:41		290	07:16		322	06:54		302
zo	8-7				12:35	68		12:41	78		13:37	84		13:55	84		12:39	69		13:32	81		13:02	81
zo	8-7			18:51		301	18:57		311	20:07		368	20:29		398	19:02		308	19:37		347	19:15		327
ma	9-7				1:16	50		01:22	60		02:20	70		02:38	70		1:19	48		02:12	60		01:42	60
ma	9-7	6:07	VM	7:40		278	07:46		288	08:56		345	09:18		375	7:45		292	08:20		324	07:58		304
ma	9-7				13:41	67		13:47	77		14:45	87		15:03	87		13:44	66		14:37	78		14:07	78
ma	9-7			20:01		298	20:07		308	21:20		368	21:42		398	20:11		311	20:46		343	20:24		323

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan	53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E					
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
di	10-7				2:25	50		02:31	60		03:34	60		03:52	60		2:29	48		03:22	60		02:52	60
di	10-7			8:56		283	09:02		293	10:04		353	10:26		383	9:01		296	09:36		328	09:14		308
di	10-7				14:55	60		15:01	70		16:04	79		16:22	79		15:02	59		15:55	71		15:25	71
di	10-7			21:16		298	21:22		308	22:28		370	22:50		400	21:29		311	22:04		343	21:42		323
wo	11-7				3:35	40		03:41	50		04:44	50		05:02	50		3:41	38		04:34	50		04:04	50
wo	11-7			10:03		290	10:09		300	11:11		361	11:33		391	10:12		304	10:47		336	10:25		316
wo	11-7				16:06	48		16:12	58		17:13	63		17:31	63		16:16	44		17:09	56		16:39	56
wo	11-7			22:24		299	22:30		309	23:34		371	23:56		401	22:39		314	23:14		346	22:52		326
do	12-7				4:37	30		04:43	40		05:45	40		06:03	40		4:45	28		05:38	40		05:08	40
do	12-7			11:01		296	11:07		306	12:11		367	12:33		397	11:11		312	11:46		344	11:24		324
do	12-7				17:11	34		17:17	44		18:17	47		18:35	47		17:19	28		18:12	40		17:42	40
do	12-7			23:26		299	23:32		309	00:35		0	00:57		0	23:40		316	00:15		0	23:53		328
vr	13-7				5:38	20		05:44	30		00:35	370	00:57		400		5:44	18		00:15	348		06:07	30
vr	13-7			11:52		301	11:58		311		06:44	30		07:02	30	12:04		318		06:37	30	12:17		330
vr	13-7				18:16	19		18:22	29	13:04		372	13:26		402		18:19	13	12:39		350		18:42	25
vr	13-7			0:23		-10	00:29		0		19:20	31		19:38	31	0:36		-12		19:12	25	00:49		0
za	14-7			0:23		298	00:29		308	01:33		367	01:55		397	0:36		316	01:11		348	00:49		328
za	14-7				6:37	20		06:43	30		07:43	30		08:01	30		6:41	8		07:34	20		07:04	20
za	14-7			12:40		306	12:46		316	13:54		375	14:16		405	12:53		323	13:28		355	13:06		335
za	14-7				19:14	5		19:20	15		20:18	15		20:36	15		19:15	1		20:08	13		19:38	13
zo	15-7			1:15		296	01:21		306	02:28		362	02:50		392	1:28		314	02:03		346	01:41		326
zo	15-7				7:32	10		07:38	20		08:38	20		08:56	20		7:33	8		08:26	20		07:56	20
zo	15-7			13:27		311	13:33		321	14:41		378	15:03		408	13:42		327	14:17		359	13:55		339
zo	15-7				20:07	-4		20:13	6		21:11	4		21:29	4		20:07	-6		21:00	6		20:30	6
ma	16-7			2:05		293	02:11		303	03:21		356	03:43		386	2:18		311	02:53		343	02:31		323
ma	16-7				8:22	10		08:28	20		09:28	20		09:46	20		8:22	8		09:15	20		08:45	20
ma	16-7			14:14		314	14:20		324	15:27		381	15:49		411	14:30		331	15:05		363	14:43		343
ma	16-7	21:26	LK		20:56	-3		21:02	7		22:00	3		22:18	3		20:56	-5		21:49	7		21:19	7
di	17-7			2:54		287	03:00		297	04:11		350	04:33		380	3:07		306	03:42		338	03:20		318
di	17-7				9:09	10		09:15	20		10:15	20		10:33	20		9:09	8		10:02	20		09:32	20
di	17-7			15:01		315	15:07		325	16:12		383	16:34		413	15:17		331	15:52		363	15:30		343
di	17-7				21:43	5		21:49	15		22:47	12		23:05	12		21:43	300		22:36	15		22:06	15
wo	18-7			3:42		282	03:48		292	04:56		345	05:18		375	3:56		300	04:31		332	04:09		312
wo	18-7				9:55	20		10:01	30		11:01	30		11:19	30		9:54	18		10:47	30		10:17	30
wo	18-7			15:50		312	15:56		322	16:59		382	17:21		412	16:06		328	16:41		360	16:19		340
wo	18-7				22:29	17		22:35	27		23:32	26		23:50	26		22:29	15		23:22	27		22:52	27

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N, 7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
do	19-7			4:30		276	04:36		286	05:42		340	06:04		370	4:43		295	05:18		327	04:56		307
do	19-7				10:40	30		10:46	40		11:46	40		12:04	40		10:41	28		11:34	40		11:04	40
do	19-7			16:40		307	16:46		317	17:49		378	18:11		408	16:56		322	17:31		354	17:09		334
do	19-7				23:15	29		23:21	39		00:18	0		00:36	0		23:15	26		00:08	0		23:38	38
vr	20-7			5:20		272	05:26		282		00:18	40		00:36	40		5:32	289		00:08	30	05:45		301
vr	20-7				11:29	40		11:35	50	06:30		338	06:52		368		11:30	38	06:07		321		11:53	50
vr	20-7			17:33		299	17:39		309		12:33	59		12:51	59		17:48	314		12:23	53	18:01		326
vr	20-7				0:04	-10		00:10	0	18:43		370	19:05		400		0:04	-12	18:23		346		00:27	0
za	21-7				0:04	30		00:10	40		01:05	50		01:23	50		0:04	28		00:57	40		00:27	40
za	21-7			6:12		270	06:18		280	07:24		336	07:46		366	6:23		285	06:58		317	06:36		297
za	21-7				12:23	48		12:29	58		13:25	66		13:43	66		12:25	46		13:18	58		12:48	58
za	21-7			18:31		290	18:37		300	19:43		361	20:05		391	18:44		304	19:19		336	18:57		316
zo	22-7				0:56	40		01:02	50		01:57	50		02:15	50		0:57	38		01:50	50		01:20	50
zo	22-7			7:09		269	07:15		279	08:23		335	08:45		365	7:18		283	07:53		315	07:31		295
zo	22-7				13:22	50		13:28	60		14:22	69		14:40	69		13:23	48		14:16	60		13:46	60
zo	22-7			19:35		282	19:41		292	20:48		353	21:10		383	19:45		295	20:20		327	19:58		307
ma	23-7				1:54	40		02:00	50		02:54	50		03:12	50		1:53	38		02:46	50		02:16	50
ma	23-7			8:15		270	08:21		280	09:26		337	09:48		367	8:22		283	08:57		315	08:35		295
ma	23-7	11:45	NM		14:26	48		14:32	58		15:25	69		15:43	69		14:26	48		15:19	60		14:49	60
ma	23-7			20:48		277	20:54		287	21:55		348	22:17		378	20:55		288	21:30		320	21:08		300
di	24-7				2:57	40		03:03	50		04:01	50		04:19	50		2:56	38		03:49	50		03:19	50
di	24-7			9:27		276	09:33		286	10:30		344	10:52		374	9:35		289	10:10		321	09:48		301
di	24-7				15:41	44		15:47	54		16:41	63		16:59	63		15:47	44		16:40	56		16:10	56
di	24-7			21:57		277	22:03		287	22:59		346	23:21		376	22:08		289	22:43		321	22:21		301
wo	25-7				4:09	40		04:15	50		05:12	50		05:30	50		4:15	38		05:08	50		04:38	50
wo	25-7			10:26		286	10:32		296	11:29		353	11:51		383	10:37		300	11:12		332	10:50		312
wo	25-7				16:50	38		16:56	48		17:49	52		18:07	52		16:55	36		17:48	48		17:18	48
wo	25-7			22:54		279	23:00		289	23:59		347	00:21		377	23:07		294	23:42		326	23:20		306
do	26-7				5:06	40		05:12	50		06:09	50		00:21	377		5:12	38		06:05	50		05:35	50
do	26-7			11:12		295	11:18		305	12:20		363		06:27	50	11:25		311	12:00		343	11:38		323
do	26-7				17:39	38		17:45	48		18:39	47	12:42		393		17:42	35		18:35	47		18:05	47
do	26-7			23:39		282	23:45		292	00:49		349		00:49	349	23:52		-12	00:27		330	00:05		0
vr	27-7				5:49	40		05:55	50		00:49	349	01:11		379	23:52		298	00:27		330	00:05		310
vr	27-7			11:48		304	11:54		314		06:54	50		07:12	50		5:54	38		06:47	50		06:17	50
vr	27-7				18:18	43		18:24	53	13:00		372	13:22		402	12:03		320	12:38		352	12:16		332
vr	27-7			0:13		-10	00:19		0		19:21	52		19:39	52		18:20	40		19:13	52		18:43	52

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N, 7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
za	28-7			0:13		286	00:19		296	01:24		352	01:46		382	0:29		303	01:04		335	00:42		315
za	28-7				6:25	40		06:31	50		07:33	50		07:51	50		6:30	38		07:23	50		06:53	50
za	28-7			12:19		314	12:25		324	13:31		382	13:53		412	12:36		330	13:11		362	12:49		342
za	28-7				18:53	48		18:59	58		19:59	58		20:17	58		18:54	45		19:47	57		19:17	57
zo	29-7			0:45		293	00:51		303	01:51		358	02:13		388	1:02		310	01:37		342	01:15		322
zo	29-7				7:00	50		07:06	60		08:09	60		08:27	60		7:03	48		07:56	60		07:26	60
zo	29-7			12:54		324	13:00		334	14:04		392	14:26		422	13:11		340	13:46		372	13:24		352
zo	29-7				19:26	50		19:32	60		20:34	61		20:52	61		19:27	47		20:20	59		19:50	59
ma	30-7			1:20		299	01:26		309	02:25		365	02:47		395	1:37		317	02:12		349	01:50		329
ma	30-7				7:35	50		07:41	60		08:43	60		09:01	60		7:36	48		08:29	60		07:59	60
ma	30-7	17:23	EK	13:32		329	13:38		339	14:40		398	15:02		428	13:46		346	14:21		378	13:59		358
ma	30-7				20:00	51		20:06	61		21:08	61		21:26	61		20:00	47		20:53	59		20:23	59
di	31-7			1:58		300	02:04		310	03:02		367	03:24		397	2:13		318	02:48		350	02:26		330
di	31-7				8:08	50		08:14	60		09:16	60		09:34	60		8:09	48		09:02	60		08:32	60
di	31-7			14:08		328	14:14		338	15:15		398	15:37		428	14:22		346	14:57		378	14:35		358
di	31-7				20:32	53		20:38	63		21:40	64		21:58	64		20:34	313,4		21:27	60		20:57	60

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörñ (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
wo	1-8			2:36		295	02:42		305	03:40		362	04:02		392	2:48		313	03:23		345	03:01		325
wo	1-8				8:38	60		08:44	70		09:47	70		10:05	70		8:41	48		09:34	60		09:04	60
wo	1-8			14:42		322	14:48		332	15:48		393	16:10		423	14:54		340	15:29		372	15:07		352
wo	1-8				21:03	57		21:09	67		22:11	68		22:29	68		21:06	50		21:59	62		21:29	62
do	2-8			3:10		287	03:16		297	04:14		353	04:36		383	3:21		305	03:56		337	03:34		317
do	2-8				9:07	60		09:13	70		10:17	70		10:35	70		9:12	58		10:05	70		09:35	70
do	2-8			15:13		316	15:19		326	16:21		387	16:43		417	15:26		334	16:01		366	15:39		346
do	2-8				21:34	59		21:40	69		22:43	72		23:01	72		21:37	53		22:30	65		22:00	65
vr	3-8			3:40		280	03:46		290	04:46		344	05:08		374	3:52		299	04:27		331	04:05		311
vr	3-8				9:37	60		09:43	70		10:49	70		11:07	70		9:43	58		10:36	70		10:06	70
vr	3-8			15:47		312	15:53		322	16:55		381	17:17		411	16:01		330	16:36		362	16:14		342
vr	3-8				22:08	60		22:14	70		23:17	72		23:35	72		22:11	55		23:04	67		22:34	67
za	4-8			4:14		278	04:20		288	05:20		340	05:42		370	4:28		297	05:03		329	04:41		309
za	4-8				10:15	60		10:21	70		11:27	70		11:45	70		10:21	58		11:14	70		10:44	70
za	4-8			16:28		309	16:34		319	17:33		376	17:55		406	16:42		327	17:17		359	16:55		339
za	4-8				22:48	61		22:54	71		23:57	73		00:15	0		22:52	58		23:45	70		23:15	70
zo	5-8			4:57		279	05:03		289	05:58		340	06:20		370	5:11		297	05:46		329	05:24		309
zo	5-8				11:02	60		11:08	70		12:11	70		12:29	77		11:07	58		12:00	70		11:30	70
zo	5-8			17:16		306	17:22		316	18:17		370	18:39		400	17:31		322	18:06		354	17:44		334
zo	5-8				23:37	64		23:43	74		00:44	0		01:02	70		23:41	-12		00:34	0		00:04	0
ma	6-8			5:48		280	05:54		290	06:47		341	07:09		371	6:02		297	06:37		329	06:15		309
ma	6-8				11:57	70		12:03	80		13:03	85		13:21	85		12:02	71		12:55	83		12:25	83
ma	6-8				0:36	-10		00:42	0		01:40	80		01:58	80		0:40	68		01:33	80		01:03	80
di	7-8			6:50		281	06:56		291	08:04		342	08:26		372	7:03		295	07:38		327	07:16		307
di	7-8				13:02	75		13:08	85		14:06	95		14:24	95		13:07	75		14:00	87		13:30	87
di	7-8	20:11 VM		19:22		296	19:28		306	20:41		360	21:03		390	19:33		309	20:08		341	19:46		321
wo	8-8				1:47	70		01:53	80		02:53	80		03:11	80		1:51	68		02:44	80		02:14	80
wo	8-8			8:11		283	08:17		293	09:27		348	09:49		378	8:18		296	08:53		328	08:31		308
wo	8-8				14:23	71		14:29	81		15:30	94		15:48	94		14:29	69		15:22	81		14:52	81
wo	8-8			20:47		294	20:53		304	22:00		362	22:22		392	20:59		306	21:34		338	21:12		318
do	9-8				3:07	60		03:13	70		04:15	70		04:33	70		3:12	58		04:05	70		03:35	70
do	9-8			9:36		292	09:42		302	10:44		359	11:06		389	9:43		305	10:18		337	09:56		317
do	9-8				15:44	56		15:50	66		16:50	75		17:08	75		15:53	52		16:46	64		16:16	64
do	9-8			22:09		298	22:15		308	23:16		368	23:38		398	22:22		311	22:57		343	22:35		323

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maand		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N, 7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm			
vr	10-8				4:16	40		04:22	50		05:24	60		05:42	60		4:23	38		05:16	50		04:46	50
vr	10-8			10:42		303	10:48		313	11:51		373	12:13		403	10:51		317	11:26		349	11:04		329
vr	10-8				16:58	39		17:04	49		18:04	54		18:22	54		17:03	33		17:56	45		17:26	45
vr	10-8			23:16		302	23:22		312	00:22		0	00:44		0	23:28		317	00:03		0	23:41		329
za	11-8				5:23	30		05:29	40	00:22		373	00:44		403		5:29	28	00:03		349		05:52	40
za	11-8			11:37		312	11:43		322		06:31	40		06:49	40	11:48		327		06:22	40	12:01		339
za	11-8				18:08	21		18:14	31	12:48		384	13:10		414		18:09	16	12:23		359		18:32	28
za	11-8			0:13		-10	00:19		0		19:14	32		19:32	32	0:24		-12		19:02	28	00:37		0
zo	12-8			0:13		304	00:19		314	01:23		374	01:45		404	0:24		321	00:59		353	00:37		333
zo	12-8				6:27	20		06:33	30		07:34	30		07:52	30		6:29	18		07:22	30		06:52	30
zo	12-8			12:27		319	12:33		329	13:40		390	14:02		420	12:40		334	13:15		366	12:53		346
zo	12-8				19:05	8		19:11	18		20:10	14		20:28	14		19:05	4		19:58	16		19:28	16
ma	13-8			1:04		302	01:10		312	02:21		371	02:43		401	1:16		321	01:51		353	01:29		333
ma	13-8				7:21	20		07:27	30		08:28	30		08:46	30		7:22	18		08:15	30		07:45	30
ma	13-8			13:14		323	13:20		333	14:30		392	14:52		422	13:28		340	14:03		372	13:41		352
ma	13-8				19:54	3		20:00	13		20:59	8		21:17	8		19:55	0		20:48	12		20:18	12
di	14-8			1:52		299	01:58		309	03:16		366	03:38		396	2:04		319	02:39		351	02:17		331
di	14-8				8:08	20		08:14	30		09:15	20		09:33	20		8:09	8		09:02	20		08:32	20
di	14-8			13:59		325	14:05		335	15:17		393	15:39		423	14:15		342	14:50		374	14:28		354
di	14-8				20:40	7		20:46	17		21:44	11		22:02	11		20:40	5		21:33	17		21:03	17
wo	15-8	3:15	LK	2:37		295	02:43		305	04:03		360	04:25		390	2:49		315	03:24		347	03:02		327
wo	15-8				8:52	20		08:58	30		09:59	30		10:17	30		8:53	18		09:46	30		09:16	30
wo	15-8			14:43		323	14:49		333	16:00		390	16:22		420	14:59		341	15:34		373	15:12		353
wo	15-8				21:22	18		21:28	28		22:26	23		22:44	23		21:22	15		22:15	27		21:45	27
do	16-8			3:19		290	03:25		300	04:41		353	05:03		383	3:32		310	04:07		342	03:45		322
do	16-8				9:33	30		09:39	40		10:40	40		10:58	40		9:33	28		10:26	40		09:56	40
do	16-8			15:26		318	15:32		328	16:40		385	17:02		415	15:42		335	16:17		367	15:55		347
do	16-8				22:01	285		22:07	41		23:06	38		23:24	38		22:01	304		22:54	40		22:24	40
vr	17-8			4:00		285	04:06		295	05:14		348	05:36		378	4:14		304	04:49		336	04:27		316
vr	17-8				10:12	40		10:18	50		11:20	50		11:38	50		10:11	38		11:04	50		10:34	50
vr	17-8			16:10		308	16:16		318	17:22		377	17:44		407	16:27		325	17:02		357	16:40		337
vr	17-8				22:39	43		22:45	53		23:45	52		00:03	0		22:39	40		23:32	52		23:02	52
za	18-8			4:42		280	04:48		290	05:52		345	06:14		375	4:56		297	05:31		329	05:09		309
za	18-8				10:51	40		10:57	50		12:00	60		12:18	62		10:51	38		11:44	50		11:14	50
za	18-8			16:57		297	17:03		307	18:08		365		18:26	62	17:13		312	17:48		344	17:26		324
za	18-8				23:19	53		23:25	63		00:25	0	18:30		395		23:20	50		00:13	0		23:43	62

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
zo	19-8			5:29		277	05:35		287	00:25	60		00:43	60	5:41		291	00:13	60	05:54		303		
zo	19-8				11:38	50		11:44	60	06:37		342	06:59		372		11:39	48	06:16		323		12:02	60
zo	19-8			17:51		285	17:57		295		12:44	73		13:02	73	18:04		297		12:32	68	18:17		309
zo	19-8				0:08	-10		00:14	0	19:00		353	19:22		383		0:10	-12	18:39		329		00:33	0
ma	20-8				0:08	60		00:14	70		01:11	70		01:29	70		0:10	58		01:03	70		00:33	70
ma	20-8			6:22		274	06:28		284	07:29		339	07:51		369	6:33		286	07:08		318	06:46		298
ma	20-8				12:37	65		12:43	75		13:37	84		13:55	84		12:39	65		13:32	77		13:02	77
ma	20-8			18:52		275	18:58		285	20:01		342	20:23		372	19:03		286	19:38		318	19:16		298
di	21-8				1:08	60		01:14	70		02:07	80		02:25	80		1:10	68		02:03	80		01:33	80
di	21-8			7:23		275	07:29		285	08:33		340	08:55		370	7:33		285	08:08		317	07:46		297
di	21-8				13:45	70		13:51	80		14:40	92		14:58	92		13:45	70		14:38	82		14:08	82
di	21-8	20:30	NM	20:07		272	20:13		282	21:15		339	21:37		369	20:12		68	20:47		313	20:25		293
wo	22-8				2:15	70		02:21	80		03:15	90		03:33	90		2:15	68		03:08	80		02:38	80
wo	22-8			8:43		283	08:49		293	09:49		349	10:11		379	8:49		292	09:24		324	09:02		304
wo	22-8				15:01	70		15:07	80		15:58	92		16:16	92		15:05	70		15:58	82		15:28	82
wo	22-8			21:32		278	21:38		288	22:31		346	22:53		376	21:39		287	22:14		319	21:52		299
do	23-8				3:29	70		03:35	80		04:34	80		04:52	80		3:38	68		04:31	80		04:01	80
do	23-8			9:57		299	10:03		309	10:59		367	11:21		397	10:06		309	10:41		341	10:19		321
do	23-8				16:20	63		16:26	73		17:17	79		17:35	79		16:27	62		17:20	74		16:50	74
do	23-8			22:35		289	22:41		299	23:39		358	00:01		0	22:44		300	23:19		332	22:57		312
vr	24-8				4:35	60		04:41	70		05:38	70		00:01	388		4:44	58		05:37	70		05:07	70
vr	24-8			10:49		314	10:55		324	11:58		385		05:56	70	10:59		327	11:34		359	11:12		339
vr	24-8				17:13	59		17:19	69		18:12	68		12:20	415		17:17	57		18:10	69		17:40	69
vr	24-8			23:21		296	23:27		306	00:32		0		18:30	68	23:30		310	00:05		0	23:43		322
za	25-8				5:23	60		05:29	70		00:32	366		00:54	396		5:29	58		00:05	342		05:52	70
za	25-8			11:27		323	11:33		333		06:27	70		06:45	70	11:39		338		06:22	70		11:52	350
za	25-8				17:54	58		18:00	68		12:43	396		13:05	426		17:56	56		12:14	370		18:19	68
za	25-8			23:54		-10	00:00		0		18:57	65		19:15	65	0:06		-12		18:49	68		00:19	0
zo	26-8			23:54		299	00:00		309	01:11		367	01:33		397	0:06		315	00:41		347	00:19		327
zo	26-8				6:02	60		06:08	70		07:09	60		07:27	60		6:07	58		07:00	70		06:30	70
zo	26-8			11:59		329	12:05		339	13:16		400	13:38		430	12:14		345	12:49		377	12:27		357
zo	26-8				18:30	58		18:36	68		19:36	65		19:54	65		18:32	56		19:25	68		18:55	68
ma	27-8			0:24		301	00:30		311	01:38		367	02:00		397	0:40		318	01:15		350	00:53		330
ma	27-8				6:39	60		06:45	70		07:47	60		08:05	60		6:41	48		07:34	60		07:04	60
ma	27-8			12:32		333	12:38		343	13:45		402	14:07		432	12:48		349	13:23		381	13:01		361
ma	27-8				19:05	55		19:11	65		20:12	64		20:30	64		19:05	52		19:58	64		19:28	64

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
dag	datum	tijd	fase	53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N, 7°02'09"E			53°40'21"N 6°59'45"E		
				HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
di	28-8			0:57		304	01:03		314	02:06		368	02:28		398	1:14		321	01:49		353	01:27		333
di	28-8				7:13	50		07:19	60		08:21	60		08:39	60		7:15	48		08:08	60		07:38	60
di	28-8			13:08		334	13:14		344	14:17		403	14:39		433	13:24		350	13:59		382	13:37		362
di	28-8				19:38	50		19:44	60		20:45	59		21:03	59		19:39	47		20:32	59		20:02	59
wo	29-8			1:33		304	01:39		314	02:40		369	03:02		399	1:50		320	02:25		352	02:03		332
wo	29-8				7:46	50		07:52	60		08:54	60		09:12	60		7:48	48		08:41	60		08:11	60
wo	29-8			13:43		331	13:49		341	14:50		401	15:12		431	13:58		347	14:33		379	14:11		359
wo	29-8				20:10	48		20:16	58		21:17	56		21:35	56		20:12	44		21:05	56		20:35	56
do	30-8			2:09		301	02:15		311	03:15		367	03:37		397	2:24		317	02:59		349	02:37		329
do	30-8	10:13	EK		8:16	50		08:22	60		09:25	60		09:43	60		8:20	48		09:13	60		08:43	60
do	30-8			14:16		326	14:22		336	15:22		398	15:44		428	14:30		342	15:05		374	14:43		354
do	30-8				20:40	51		20:46	61		21:48	59		22:06	59		20:43	312		21:36	58		21:06	58
vr	31-8			2:42		295	02:48		305	03:47		362	04:09		392	2:55		312	03:30		344	03:08		324
vr	31-8				8:44	50		08:50	60		09:56	60		10:14	60		8:50	48		09:43	60		09:13	60
vr	31-8			14:47		321	14:53		331	15:55		393	16:17		423	15:01		338	15:36		370	15:14		350
vr	31-8				21:09	56		21:15	66		22:19	65		22:37	65		21:13	51		22:06	63		21:36	63

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maand		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
za	1-9			3:11		291	03:17		301	04:18		357	04:40		387	3:25		308	04:00		340	03:38		320
za	1-9				9:13	60		09:19	70		10:28	70		10:46	70		9:20	48		10:13	60		09:43	60
za	1-9			15:21		317	15:27		327	16:30		386	16:52		416	15:36		334	16:11		366	15:49		346
za	1-9				21:39	61		21:45	71		22:52	72		23:10	72		21:44	57		22:37	69		22:07	69
zo	2-9			3:43		290	03:49		300	04:52		354	05:14		384	3:59		307	04:34		339	04:12		319
zo	2-9				9:49	60		09:55	70		11:03	70		11:21	70		9:55	58		10:48	70		10:18	70
zo	2-9			16:02		312	16:08		322	17:08		379	17:30		409	16:16		329	16:51		361	16:29		341
zo	2-9				22:16	67		22:22	77		23:29	78		23:47	78		22:21	66		23:14	78		22:44	78
ma	3-9			4:25		290	04:31		300	05:30		351	05:52		381	4:41		306	05:16		338	04:54		318
ma	3-9				10:33	60		10:39	70		11:45	80		12:03	80		10:38	68		11:31	80		11:01	80
ma	3-9			16:49		305	16:55		315	17:50		369	18:12		399	17:04		321	17:39		353	17:17		333
ma	3-9				23:04	75		23:10	85		00:12	0		00:30	0		23:08	75		00:01	0		23:31	87
di	4-9			5:15		288	05:21		298		00:12	80		00:30	80	5:31		303		00:01	80	05:44		315
di	4-9				11:28	70		11:34	80	06:15		349	06:37		379		11:32	78	06:06		335		11:55	90
di	4-9			17:47		296	17:53		306		12:34	90		12:52	90	18:00		310		12:25	90	18:13		322
di	4-9				0:02	-10		00:08	0	18:45		358	19:07		388		0:07	-12	18:35		342		00:30	0
wo	5-9				0:02	80		00:08	90		01:06	90		01:24	90		0:07	78		01:00	90		00:30	90
wo	5-9			6:18		286	06:24		296	07:24		346	07:46		376	6:32		298	07:07		330	06:45		310
wo	5-9				12:34	83		12:40	93		13:36	103		13:54	103		12:40	84		13:33	96		13:03	96
wo	5-9			19:02		288	19:08		298	20:17		351	20:39		381	19:11		299	19:46		331	19:24		311
do	6-9				1:18	80		01:24	90		02:20	100		02:38	100		1:24	78		02:17	90		01:47	90
do	6-9	9:03 VM		7:44		286	07:50		296	08:57		349	09:19		379	7:52		296	08:27		328	08:05		308
do	6-9				14:05	79		14:11	89		15:08	105		15:26	105		14:14	78		15:07	90		14:37	90
do	6-9			20:37		289	20:43		299	21:42		355	22:04		385	20:48		299	21:23		331	21:01		311
vr	7-9				2:50	70		02:56	80		03:55	90		04:13	90		2:56	68		03:49	80		03:19	80
vr	7-9			9:16		297	09:22		307	10:23		364	10:45		394	9:26		308	10:01		340	09:39		320
vr	7-9				15:33	61		15:39	71		16:36	82		16:54	82		15:40	57		16:33	69		16:03	69
vr	7-9			21:59		298	22:05		308	23:03		367	23:25		397	22:11		310	22:46		342	22:24		322
za	8-9				4:01	60		04:07	70		05:09	70		05:27	70		4:09	58		05:02	70		04:32	70
za	8-9			10:24		312	10:30		322	11:31		383	11:53		413	10:35		325	11:10		357	10:48		337
za	8-9				16:50	42		16:56	52		17:57	56		18:15	56		16:53	37		17:46	49		17:16	49
za	8-9			23:03		307	23:09		317	00:09		0	00:31		0	23:15		322	23:50		354	23:28		334
zo	9-9				5:11	40		05:17	50	00:09		378	00:31		408		5:17	38		06:10	50		05:40	50
zo	9-9			11:19		324	11:25		334		06:21	50		06:39	50	11:32		339	12:07		371	11:45		351
zo	9-9				17:57	26		18:03	36	12:27		397	12:49		427		17:57	21		18:50	33		18:20	33
zo	9-9			23:57		-10	00:03		0		19:03	33		19:21	33	0:10		-12	00:45		0	00:23		0

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan	53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E					
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
ma	10-9			23:57		311	00:03		321	01:09		381	01:31		411	0:10		329	00:45		361	00:23		341
ma	10-9				6:14	30		06:20	40		07:22	40		07:40	40		6:17	28		07:10	40		06:40	40
ma	10-9			12:08		330	12:14		340	13:19		402	13:41		432	12:23		347	12:58		379	12:36		359
ma	10-9				18:50	18		18:56	28		19:56	21		20:14	21		18:50	14		19:43	26		19:13	26
di	11-9			0:46		309	00:52		319	02:05		379	02:27		409	0:59		330	01:34		362	01:12		342
di	11-9				7:05	30		07:11	40		08:12	40		08:30	40		7:07	18		08:00	30		07:30	30
di	11-9			12:53		332	12:59		342	14:09		402	14:31		432	13:10		350	13:45		382	13:23		362
di	11-9				19:36	19		19:42	29		20:41	22		20:59	22		19:36	14		20:29	26		19:59	26
wo	12-9			1:30		306	01:36		316	02:57		373	03:19		403	1:44		327	02:19		359	01:57		339
wo	12-9				7:49	30		07:55	40		08:57	40		09:15	40		7:51	18		08:44	30		08:14	30
wo	12-9			13:36		330	13:42		340	14:53		398	15:15		428	13:54		349	14:29		381	14:07		361
wo	12-9				20:17	25		20:23	35		21:22	30		21:40	30		20:18	21		21:11	33		20:41	33
do	13-9			2:09		301	02:15		311	03:36		366	03:58		396	2:25		323	03:00		355	02:38		335
do	13-9	8:25 LK			8:29	30		08:35	40		09:37	40		09:55	40		8:31	28		09:24	40		08:54	40
do	13-9			14:16		325	14:22		335	15:32		391	15:54		421	14:34		343	15:09		375	14:47		355
do	13-9				20:54	36		21:00	46		22:00	41		22:18	41		20:55	32		21:48	44		21:18	44
vr	14-9			2:45		298	02:51		308	04:02		360	04:24		390	3:03		318	03:38		350	03:16		330
vr	14-9				9:05	40		09:11	50		10:14	50		10:32	50		9:06	38		09:59	50		09:29	50
vr	14-9			14:55		316	15:01		326	16:08		382	16:30		412	15:14		333	15:49		365	15:27		345
vr	14-9				21:27	46		21:33	56		22:35	54		22:53	54		21:27	43		22:20	55		21:50	55
za	15-9			3:21		294	03:27		304	04:29		358	04:51		388	3:39		312	04:14		344	03:52		324
za	15-9				9:38	40		09:44	50		10:48	50		11:06	50		9:37	38		10:30	50		10:00	50
za	15-9			15:35		304	15:41		314	16:45		370	17:07		400	15:53		321	16:28		353	16:06		333
za	15-9				21:56	56		22:02	66		23:07	66		23:25	66		21:55	53		22:48	65		22:18	65
zo	16-9			3:58		290	04:04		300	05:06		355	05:28		385	4:16		307	04:51		339	04:29		319
zo	16-9				10:09	50		10:15	60		11:23	70		11:41	70		10:08	48		11:01	60		10:31	60
zo	16-9			16:17		291	16:23		301	17:25		358	17:47		388	16:35		307	17:10		339	16:48		319
zo	16-9				22:29	68		22:35	78		23:41	81		23:59	81		22:28	66		23:21	78		22:51	78
ma	17-9			4:41		287	04:47		297	05:47		352	06:09		382	4:57		301	05:32		333	05:10		313
ma	17-9				10:48	70		10:54	80		12:01	80		12:19	80		10:49	68		11:42	80		11:12	80
ma	17-9			17:07		280	17:13		290	18:10		346	18:32		376	17:22		293	17:57		325	17:35		305
ma	17-9				23:13	83		23:19	93		00:19	0		00:37	0		23:14	82		00:07	0		23:37	94
di	18-9			5:33		284	05:39		294	06:34		349	06:56		379	5:45		297	06:20		329	05:58		309
di	18-9				11:43	80		11:49	90		12:47	102		13:05	102		11:46	78		12:39	97		12:09	90
di	18-9			18:07		272	18:13		282	19:06		337	19:28		367	18:19		284	18:54		316	18:32		296
di	18-9				0:13	-10		00:19	0		01:06	337		01:54	367		0:16	-12		00:39	0		00:39	0

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maand		fase		HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
dag	datum	tijd		53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E		
wo	19-9				0:13	100		00:19	110		01:10	120		01:28	120		0:16	98		01:09	110		00:39	110
wo	19-9			6:34		285	06:40		295	07:32		350	07:54		380	6:45		295	07:20		327	06:58		307
wo	19-9				12:55	99		13:01	109		13:48	121		14:06	121		12:57	99		13:50	111		13:20	111
wo	19-9			19:17		270	19:23		280	20:17		335	20:39		365	19:25		108,4	20:00		313	19:38		293
do	20-9				1:28	110		01:34	120		02:20	130		02:38	130		1:29	108		02:22	120		01:52	120
do	20-9	7:30	NM	7:46		293	07:52		303	08:49		357	09:11		387	7:55		302	08:30		334	08:08		314
do	20-9				14:17	102		14:23	112		15:08	130		15:26	130		14:18	102		15:11	114		14:41	114
do	20-9			20:51		279	20:57		289	21:46		344	22:08		374	20:49		288	21:24		320	21:02		300
vr	21-9				2:48	100		02:54	110		03:49	130		04:07	130		2:53	108		03:46	120		03:16	120
vr	21-9			9:13		308	09:19		318	10:16		375	10:38		405	9:20		318	09:55		350	09:33		330
vr	21-9				15:41	93		15:47	103		16:38	116		16:56	116		15:50	92		16:43	104		16:13	104
vr	21-9			22:03		293	22:09		303	23:06		361	23:28		391	22:10		303	22:45		335	22:23		315
za	22-9				3:59	90		04:05	100		05:02	110		05:20	110		4:09	88		05:02	100		04:32	100
za	22-9			10:13		325	10:19		335	11:23		396	11:45		426	10:22		337	10:57		369	10:35		349
za	22-9				16:39	80		16:45	90		17:39	93		17:57	93		16:44	79		17:37	91		17:07	91
za	22-9			22:50		302	22:56		312	00:01		0	00:23		0	22:58		315	23:33		347	23:11		327
zo	23-9				4:51	80		04:57	90	00:01		372	00:23		402		4:58	78		05:51	90		05:21	90
zo	23-9			10:54		334	11:00		344		05:55	90		06:13	90	11:06		348	11:41		380	11:19		360
zo	23-9				17:22	71		17:28	81	12:09		407	12:31		437		17:25	69		18:18	81		17:48	81
zo	23-9			23:23		306	23:29		316		18:26	79		18:44	79	23:36		321	00:11		0	23:49		333
ma	24-9				5:33	70		05:39	80	00:40		375	01:02		405		5:38	68	00:11		353		06:01	80
ma	24-9			11:30		336	11:36		346		06:39	70		06:57	70	11:45		351		06:31	80	11:58		363
ma	24-9				18:00	63		18:06	73	12:45		407	13:07		437		18:02	60	12:20		383		18:25	72
ma	24-9			23:55		-10	00:01		0		19:06	71		19:24	71	0:11		-12		18:55	72	00:24		0
di	25-9			23:55		306	00:01		316	01:10		373	01:32		403	0:11		323	00:46		355	00:24		335
di	25-9				6:11	60		06:17	70		07:18	70		07:36	70		6:14	58		07:07	70		06:37	70
di	25-9			12:04		334	12:10		344	13:17		403	13:39		433	12:21		350	12:56		382	12:34		362
di	25-9				18:36	55		18:42	65		19:42	64		20:00	64		18:38	52		19:31	64		19:01	64
wo	26-9			0:29		307	00:35		317	01:41		372	02:03		402	0:47		323	01:22		355	01:00		335
wo	26-9				6:47	50		06:53	60		07:54	60		08:12	60		6:50	48		07:43	60		07:13	60
wo	26-9			12:40		331	12:46		341	13:49		400	14:11		430	12:58		347	13:33		379	13:11		359
wo	26-9				19:10	49		19:16	59		20:17	58		20:35	58		19:12	45		20:05	57		19:35	57
do	27-9			1:06		307	01:12		317	02:14		372	02:36		402	1:23		323	01:58		355	01:36		335
do	27-9				7:22	50		07:28	60		08:29	60		08:47	60		7:25	48		08:18	60		07:48	60
do	27-9			13:15		329	13:21		339	14:23		398	14:45		428	13:33		345	14:08		377	13:46		357
do	27-9				19:44	47		19:50	57		20:50	54		21:08	54		19:46	43		20:39	55		20:09	55

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N, 7°02'09"E			53°40'21"N 6°59'45"E					
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
vr	28-9	4:53	EK	1:41		306	01:47		316	02:48		373	03:10		403	1:57		322	02:32		354	02:10		334
vr	28-9				7:54	50		08:00	60		09:02	60		09:20	60		7:57	48		08:50	60		08:20	60
vr	28-9			13:49		326	13:55		336	14:56		396	15:18		426	14:06		342	14:41		374	14:19		354
vr	28-9				20:15	50		20:21	60		21:23	57		21:41	57		20:18	46		21:11	58		20:41	58
za	29-9			2:13		305	02:19		315	03:19		372	03:41		402	2:28		321	03:03		353	02:41		333
za	29-9				8:23	50		08:29	60		09:35	60		09:53	60		8:28	48		09:21	60		08:51	60
za	29-9			14:23		322	14:29		332	15:31		393	15:53		423	14:39		338	15:14		370	14:52		350
za	29-9				20:44	58		20:50	68		21:55	65		22:13	65		20:48	320		21:41	65		21:11	65
zo	30-9			2:42		303	02:48		313	03:51		371	04:13		401	2:59		320	03:34		352	03:12		332
zo	30-9				8:53	50		08:59	60		10:08	60		10:26	60		8:59	48		09:52	60		09:22	60
zo	30-9			15:00		317	15:06		327	16:08		387	16:30		417	15:15		333	15:50		365	15:28		345
zo	30-9				21:15	66		21:21	76		22:28	75		22:46	75		21:19	63		22:12	75		21:42	75

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
ma	1-10			3:18		302	03:24		312	04:28		368	04:50		398	3:34		318	04:09		350	03:47		330
ma	1-10				9:29	60		09:35	70		10:44	70		11:02	70		9:34	58		10:27	70		09:57	70
ma	1-10			15:43		308	15:49		318	16:49		376	17:11		406	15:56		323	16:31		355	16:09		335
ma	1-10				21:51	75		21:57	85		23:04	84		23:22	84		21:56	73		22:49	85		22:19	85
di	2-10			4:01		299	04:07		309	05:09		364	05:31		394	4:17		314	04:52		346	04:30		326
di	2-10				10:13	70		10:19	80		11:25	80		11:43	80		10:18	68		11:11	80		10:41	80
di	2-10			16:33		296	16:39		306	17:35		361	17:57		391	16:45		310	17:20		342	16:58		322
di	2-10				22:38	85		22:44	95		23:46	96		00:04	0		22:43	86		23:36	98		23:06	98
wo	3-10			4:54		294	05:00		304	06:00		358	06:00		90	5:08		307	05:43		339	05:21		319
wo	3-10				11:09	70		11:15	80		12:14	90		06:22	388		11:13	78		12:06	90		11:36	90
wo	3-10			17:37		283	17:43		293	18:42		347	18:42		94	17:45		295	18:20		327	17:58		307
wo	3-10				23:39	95		23:45	105		00:40	0		19:04	377		23:44	-12		00:37	0		00:07	0
do	4-10			6:02		289	06:08		299	06:08		110	06:08		110		23:44	88		00:37	100		00:07	100
do	4-10				12:20	80		12:26	90	07:13		352	07:13		382	6:13		298	06:48		330	06:26		310
do	4-10			19:04		278	19:10		288	19:10		108	13:18		108		12:27	87		13:20	99		12:50	99
do	4-10				1:04	-10		01:10	0	20:07		341	20:29		371	19:11		287	19:46		319	19:24		299
vr	5-10				1:04	100		01:10	110		01:59	120		02:17	120		1:13	98		02:06	110		01:36	110
vr	5-10			7:32		290	07:38		300	08:38		355	09:00		385	7:43		299	08:18		331	07:56		311
vr	5-10				14:08	77		14:14	87		15:04	105		15:22	105		14:15	76		15:08	88		14:38	88
vr	5-10	20:40 VM		20:33		285	20:39		295	21:34		349	21:56		379	20:45		295	21:20		327	20:58		307
za	6-10				2:40	80		02:46	90		03:42	100		04:00	100		2:46	78		03:39	90		03:09	90
za	6-10			8:59		303	09:05		313	10:04		370	10:26		400	9:11		314	09:46		346	09:24		326
za	6-10				15:25	58		15:31	68		16:27	80		16:45	80		15:30	56		16:23	68		15:53	68
za	6-10			21:48		300	21:54		310	22:53		367	23:15		397	22:00		312	22:35		344	22:13		324
zo	7-10				3:49	60		03:55	70		04:56	80		05:14	80		3:56	58		04:49	70		04:19	70
zo	7-10			10:06		320	10:12		330	11:12		390	11:34		420	10:18		332	10:53		364	10:31		344
zo	7-10				16:39	42		16:45	52		17:44	55		18:02	55		16:41	39		17:34	51		17:04	51
zo	7-10			22:48		311	22:54		321	23:56		381	00:18		0	23:00		326	23:35		358	23:13		338
ma	8-10				5:00	50		05:06	60		06:08	60		06:18	411		5:04	48		05:57	60		05:27	60
ma	8-10			11:00		330	11:06		340	12:07		402		06:26	60	11:15		345	11:50		377	11:28		357
ma	8-10				17:42	31		17:48	41		18:46	36		12:29	432		17:42	28		18:35	40		18:05	40
ma	8-10			23:39		315	23:45		325	00:52		0		19:04	36	23:53		-12	00:28		0	00:06		0
di	9-10				5:59	40		06:05	50	00:52		385	01:14		415	23:53		333	00:28		365	00:06		345
di	9-10			11:47		333	11:53		343		07:06	50		07:24	50		6:01	38		06:54	50		06:24	50
di	9-10				18:31	27		18:37	37	12:57		404	13:19		434	12:05		350	12:40		382	12:18		362
di	9-10			0:24		-10	00:30		0		19:36	31		19:54	31		18:32	25		19:25	37		18:55	37

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
wo	10-10			0:24		313	00:30		323	01:44		381	02:06		411	0:39		333	01:14		365	00:52		345
wo	10-10				6:47	40		06:53	50		07:54	40		08:12	40		6:49	28		07:42	40		07:12	40
wo	10-10			12:30		331	12:36		341	13:42		399	14:04		429	12:50		348	13:25		380	13:03		360
wo	10-10				19:14	31		19:20	41		20:19	36		20:37	36		19:15	28		20:08	40		19:38	40
do	11-10			1:03		310	01:09		320	02:26		374	02:48		404	1:21		330	01:56		362	01:34		342
do	11-10				7:29	40		07:35	50		08:35	50		08:53	50		7:31	28		08:24	40		07:54	40
do	11-10			13:10		325	13:16		335	14:22		391	14:44		421	13:31		342	14:06		374	13:44		354
do	11-10				19:52	38		19:58	48		20:57	45		21:15	45		19:53	35		20:46	47		20:16	47
vr	12-10			1:38		307	01:44		317	02:51		370	03:13		400	1:58		326	02:33		358	02:11		338
vr	12-10				8:06	40		08:12	50		09:13	50		09:31	50		8:08	38		09:01	50		08:31	50
vr	12-10	14:25	LK	13:49		318	13:55		328	14:59		383	15:21		413	14:09		334	14:44		366	14:22		346
vr	12-10				20:23	45		20:29	55		21:31	55		21:49	55		20:25	43		21:18	55		20:48	55
za	13-10			2:11		306	02:17		316	03:17		370	03:39		400	2:32		324	03:07		356	02:45		336
za	13-10				8:38	40		08:44	50		09:46	50		10:04	50		8:39	38		09:32	50		09:02	50
za	13-10			14:27		309	14:33		319	15:36		374	15:58		404	14:46		325	15:21		357	14:59		337
za	13-10				20:50	54		20:56	64		22:01	64		22:19	64		20:50	88		21:43	64		21:13	64
zo	14-10			2:44		305	02:50		315	03:51		370	04:13		400	3:05		322	03:40		354	03:18		334
zo	14-10				9:05	50		09:11	60		10:18	60		10:36	60		9:05	48		09:58	60		09:28	60
zo	14-10			15:05		298	15:11		308	16:13		364	16:35		394	15:24		315	15:59		347	15:37		327
zo	14-10				21:16	65		21:22	75		22:30	77		22:48	77		21:15	63		22:08	75		21:38	75
ma	15-10			3:20		303	03:26		313	04:29		368	04:51		398	3:39		319	04:14		351	03:52		331
ma	15-10				9:35	60		09:41	70		10:50	70		11:08	70		9:35	58		10:28	70		09:58	70
ma	15-10			15:44		288	15:50		298	16:51		354	17:13		384	16:03		305	16:38		337	16:16		317
ma	15-10				21:49	81		21:55	91		23:01	95		23:19	95		21:48	79		22:41	91		22:11	91
di	16-10			3:59		300	04:05		310	05:08		365	05:30		395	4:18		316	04:53		348	04:31		328
di	16-10				10:12	80		10:18	90		11:26	90		11:44	90		10:13	78		11:06	90		10:36	90
di	16-10			16:29		280	16:35		290	17:32		345	17:54		375	16:46		295	17:21		327	16:59		307
di	16-10				22:29	101		22:35	111		23:37	117		23:55	117		22:28	101		23:21	113		22:51	113
wo	17-10			4:46		299	04:52		309	05:50		363	06:12		393	5:02		313	05:37		345	05:15		325
wo	17-10				11:00	100		11:06	110		12:07	110		12:25	110		11:02	98		11:55	110		11:25	110
wo	17-10			17:24		274	17:30		284	18:21		339	18:43		369	17:38		288	18:13		320	17:51		300
wo	17-10				23:20	121		23:26	131		00:21	0		00:39	0		23:21	122		00:14	0		23:44	134
do	18-10			5:46		300	05:52		310	06:43		364	07:05		394	5:57		311	06:32		343	06:10		323
do	18-10				12:03	110		12:09	120		13:00	136		13:18	136		12:06	108		12:59	129		12:29	120
do	18-10			18:32		274	18:38		284							18:40		286			129	18:53		298
do	18-10				0:28	-10		00:34	0		19:27	338		19:49	368		0:30	-12		19:15	318		00:53	0

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maan	53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E					
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
vr	19-10				0:28	130		00:34	140		01:19	150		01:37	150		0:30	128		01:23	140		00:53	140
vr	19-10			6:54		304	07:00		314	07:53		368	08:15		398	7:03		314	07:38		346	07:16		326
vr	19-10				13:20	121		13:26	131		14:08	148		14:26	148		13:21	122		14:14	134		13:44	134
vr	19-10	21:12	NM	19:46		280	19:52		290	20:42		344	21:04		374	19:51		128,4	20:26		322	20:04		302
za	20-10				1:49	130		01:55	140		02:39	160		02:57	160		1:47	128		02:40	140		02:10	140
za	20-10			8:10		314	08:16		324	09:12		380	09:34		410	8:20		324	08:55		356	08:33		336
za	20-10				14:46	111		14:52	121		15:43	138		16:01	138		14:51	111		15:44	123		15:14	123
za	20-10			21:01		291	21:07		301	22:01		356	22:23		386	21:08		301	21:43		333	21:21		313
zo	21-10				3:09	110		03:15	120		04:14	140		04:32	140		3:19	118		04:12	130		03:42	130
zo	21-10			9:18		326	09:24		336	10:24		394	10:46		424	9:30		336	10:05		368	09:43		348
zo	21-10				15:52	91		15:58	101		16:54	110		17:12	110		15:58	91		16:51	103		16:21	103
zo	21-10			21:58		302	22:04		312	23:08		370	23:30		400	22:09		313	22:44		345	22:22		325
ma	22-10				4:09	90		04:15	100		05:13	110		05:31	110		4:17	88		05:10	100		04:40	100
ma	22-10			10:10		332	10:16		342	11:19		403	11:41		433	10:24		345	10:59		377	10:37		357
ma	22-10				16:40	74		16:46	84		17:45	86		18:03	86		16:45	73		17:38	85		17:08	85
ma	22-10			22:41		308	22:47		318	23:54		377	00:16		0	22:56		322	23:31		354	23:09		334
di	23-10				4:56	70		05:02	80		06:01	80		00:16	407		5:01	68		05:54	80		05:24	80
di	23-10			10:53		332	10:59		342	12:03		402		06:19	80	11:08		346	11:43		378	11:21		358
di	23-10				17:22	61		17:28	71		18:28	71		12:25	432		17:25	59		18:18	71		17:48	71
di	23-10			23:21		310	23:27		320	00:33		0		18:46	71	23:37		325	00:12		0	23:50		337
wo	24-10				5:38	60		05:44	70		00:33	378		00:55	408		5:42	58		00:12	357		06:05	70
wo	24-10			11:33		328	11:39		338	06:44		70	07:02		70	11:49		344	06:35		70	12:02		356
wo	24-10				18:01	52		18:07	62	12:43		397	13:05		427		18:04	49	12:24		376		18:27	61
wo	24-10			0:00		-10	00:06		0		19:08	62		19:26	62	0:16		-12		18:57	61	00:29		0
do	25-10			0:00		310	00:06		320	01:11		378	01:33		408	0:16		327	00:51		359	00:29		339
do	25-10				6:17	50		06:23	60		07:23	60		07:41	60		6:21	48		07:14	60		06:44	60
do	25-10			12:11		325	12:17		335	13:21		393	13:43		423	12:29		342	13:04		374	12:42		354
do	25-10				18:39	47		18:45	57		19:45	56		20:03	56		18:42	44		19:35	56		19:05	56
vr	26-10			0:37		311	00:43		321	01:49		378	02:11		408	0:54		327	01:29		359	01:07		339
vr	26-10				6:55	50		07:01	60		08:01	50		08:19	50		6:59	38		07:52	50		07:22	50
vr	26-10			12:48		323	12:54		333	13:59		391	14:21		421	13:07		340	13:42		372	13:20		352
vr	26-10				19:15	46		19:21	56		20:22	53		20:40	53		19:18	43		20:11	55		19:41	55
za	27-10			1:12		312	01:18		322	02:23		378	02:45		408	1:30		328	02:05		360	01:43		340
za	27-10				7:31	40		07:37	50		08:39	50		08:57	50		7:35	38		08:28	50		07:58	50
za	27-10			13:25		322	13:31		332	14:35		390	14:57		420	13:43		338	14:18		370	13:56		350
za	27-10				19:50	49		19:56	59		20:58	55		21:16	55		19:53	47		20:46	59		20:16	59

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N, 7°02'09"E			53°40'21"N 6°59'45"E					
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
zo	28-10	0:22	EK	1:44		313	01:50		323	02:54		380	02:16		410	2:03		329	02:38		361	02:16		341
zo	28-10				7:05	49		07:11	59		08:16	56		08:34	56		7:09	47		08:02	59		07:32	59
zo	28-10			13:03		318	13:09		328	14:12		387	14:34		417	13:21		334	13:56		366	13:34		346
zo	28-10				19:23	56		19:29	66		20:33	62		20:51	62		19:25	53		20:18	65		19:48	65
ma	29-10			1:17		313	01:23		323	02:28		381	02:50		411	1:37		329	02:12		361	01:50		341
ma	29-10				7:39	52		07:45	62		08:52	59		09:10	59		7:43	50		08:36	62		08:06	62
ma	29-10			13:46		310	13:52		320	14:52		380	15:14		410	14:01		326	14:36		358	14:14		338
ma	29-10				19:56	64		20:02	74		21:08	72		21:26	72		19:59	62		20:52	74		20:22	74
di	30-10			1:58		311	02:04		321	03:08		380	03:30		410	2:16		326	02:51		358	02:29		338
di	30-10				8:17	56		08:23	66		09:31	66		09:49	66		8:21	54		09:14	66		08:44	66
di	30-10			14:33		298	14:39		308	15:37		368	15:59		398	14:46		313	15:21		345	14:59		325
di	30-10				20:34	73		20:40	83		21:46	83		22:04	83		20:38	72		21:31	84		21:01	84
wo	31-10			2:45		306	02:51		316	03:55		376	04:17		406	3:01		320	03:36		352	03:14		332
wo	31-10				9:03	62		09:09	72		10:14	75		10:32	75		9:06	62		09:59	74		09:29	74
wo	31-10			15:29		284	15:35		294	16:32		352	16:54		382	15:39		297	16:14		329	15:52		309
wo	31-10				21:23	84		21:29	94		22:29	96		22:47	96		21:27	84		22:20	96		21:50	96

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
za	10-11			0:07		309	00:13		319	01:10		375	01:32		405	0:31		325	01:06		357	00:44		337
za	10-11				6:43	39		06:49	49		07:49	49		08:07	49		6:46	39		07:39	51		07:09	51
za	10-11			12:26		305	12:32		315	13:30		372	13:52		402	12:47		319	13:22		351	13:00		331
za	10-11	21:36	LK		18:52	48		18:58	58		20:02	59		20:20	59		18:55	47		19:48	59		19:18	59
zo	11-11			0:40		312	00:46		322	01:44		380	02:06		410	1:03		326	01:38		358	01:16		338
zo	11-11				7:12	44		07:18	54		08:21	52		08:39	52		7:14	44		08:07	56		07:37	56
zo	11-11			13:04		300	13:10		310	14:09		369	14:31		399	13:23		316	13:58		348	13:36		328
zo	11-11				19:16	55		19:22	65		20:30	67		20:48	67		19:18	56		20:11	68		19:41	68
ma	12-11			1:15		314	01:21		324	02:22		383	02:44		413	1:35		329	02:10		361	01:48		341
ma	12-11				7:39	54		07:45	64		08:51	61		09:09	61		7:40	54		08:33	66		08:03	66
ma	12-11			13:42		296	13:48		306	14:49		364	15:11		394	14:00		311	14:35		343	14:13		323
ma	12-11				19:46	69		19:52	79		21:00	80		21:18	80		19:47	89		20:40	81		20:10	81
di	13-11			1:51		314	01:57		324	03:01		383	03:23		413	2:10		330	02:45		362	02:23		342
di	13-11				8:10	68		08:16	78		09:24	76		09:42	76		8:12	69		09:05	81		08:35	81
di	13-11			14:20		290	14:26		300	15:27		358	15:49		388	14:38		306	15:13		338	14:51		318
di	13-11				20:20	87		20:26	97		21:32	100		21:50	100		20:21	89		21:14	101		20:44	101
wo	14-11			2:28		314	02:34		324	03:39		380	04:01		410	2:47		329	03:22		361	03:00		341
wo	14-11				8:46	85		08:52	95		10:00	95		10:18	95		8:49	87		09:42	99		09:12	99
wo	14-11			15:01		284	15:07		294	16:06		351	16:28		381	15:18		299	15:53		331	15:31		311
wo	14-11				20:56	107		21:02	117		22:07	121		22:25	121		20:58	110		21:51	122		21:21	122
do	15-11			3:09		313	03:15		323	04:17		378	04:39		408	3:27		326	04:02		358	03:40		338
do	15-11				9:29	101		09:35	111		10:39	113		10:57	113		9:33	104		10:26	116		09:56	116
do	15-11			15:48		280	15:54		290	16:48		345	17:10		375	16:04		294	16:39		326	16:17		306
do	15-11				21:40	122		21:46	132		22:47	138		23:05	138		21:42	127		22:35	139		22:05	139
vr	16-11			3:59		313	04:05		323	05:01		378	05:23		408	4:14		324	04:49		356	04:27		336
vr	16-11				10:21	112		10:27	122		11:24	126		11:42	126		10:26	115		11:19	127		10:49	127
vr	16-11			16:46		278	16:52		288	17:44		342	18:06		372	16:57		290	17:32		322	17:10		302
vr	16-11				22:35	131		22:41	141		23:35	149		23:53	149		22:39	136		23:32	148		23:02	148
za	17-11			5:00		312	05:06		322	06:01		378	06:23		408	5:11		322	05:46		354	05:24		334
za	17-11				11:23	114		11:29	124		12:18	133		12:36	133		11:27	117		12:20	129		11:50	129
za	17-11			17:53		280	17:59		290	18:53		344	19:15		374	17:59		290	18:34		322	18:12		302
za	17-11				23:40	129		23:46	139		00:34	0		00:52	0		23:43	-12		00:36	0		00:06	0
zo	18-11			6:10		314	06:16		324		00:34	152		00:52	152		23:43	134		00:36	146		00:06	146
zo	18-11				12:31	106		12:37	116	07:14		380	07:36		410	6:19		322	06:54		354	06:32		334
zo	18-11	12:42	NM	19:00		287	19:06		297		13:25	130		13:43	130		12:33	109		13:26	121		12:56	121
zo	18-11				0:53	-10		00:59	0	19:59		352	20:21		382	19:08		295	19:43		327	19:21		307

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maand		fase		HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
dag	datum	tijd		53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E		
ma	19-11				0:53	117		00:59	127		01:50	143		02:08	143		0:51	121		01:44	133		01:14	133
ma	19-11			7:19		317	07:25		327	08:22		385	08:44		415	7:31		325	08:06		357	07:44		337
ma	19-11				13:43	90		13:49	100		14:48	112		15:06	112		13:46	92		14:39	104		14:09	104
ma	19-11			20:02		296	20:08		306	21:02		364	21:24		394	20:14		101	20:49		337	20:27		317
di	20-11				2:07	98		02:13	108		03:16	118		03:34	118		2:11	101		03:04	113		02:34	113
di	20-11			8:20		319	08:26		329	09:23		389	09:45		419	8:34		330	09:09		362	08:47		342
di	20-11				14:44	71		14:50	81		15:52	87		16:10	87		14:50	73		15:43	85		15:13	85
di	20-11			20:56		304	21:02		314	22:01		374	22:23		404	21:10		315	21:45		347	21:23		327
wo	21-11				3:07	78		03:13	88		04:15	91		04:33	91		3:15	79		04:08	91		03:38	91
wo	21-11			9:12		319	09:18		329	10:17		390	10:39		420	9:27		332	10:02		364	09:40		344
wo	21-11				15:35	58		15:41	68		16:43	68		17:01	68		15:40	57		16:33	69		16:03	69
wo	21-11			21:45		308	21:51		318	22:52		380	23:14		410	21:59		322	22:34		354	22:12		334
do	22-11				3:57	64		04:03	74		05:04	73		05:22	73		4:04	62		04:57	74		04:27	74
do	22-11			9:58		318	10:04		328	11:06		388	11:28		418	10:15		333	10:50		365	10:28		345
do	22-11				16:20	49		16:26	59		17:28	57		17:46	57		16:26	47		17:19	59		16:49	59
do	22-11			22:29		311	22:35		321	23:39		382	00:01		0	22:44		326	23:19		358	22:57		338
vr	23-11				4:43	54		04:49	64		05:50	61		00:01	412		4:49	51		05:42	63		05:12	63
vr	23-11			10:41		316	10:47		326	11:53		385	06:08		61	11:00		333	11:35		365	11:13		345
vr	23-11				17:04	44		17:10	54		18:12	51		12:15	415		17:09	43		18:02	55		17:32	55
vr	23-11			23:08		312	23:14		322	00:21		0	18:30		51	23:25		328	00:00		0	23:38		340
za	24-11				5:27	46		05:33	56		00:21	381		00:43	411		5:33	44		00:00	360		05:56	56
za	24-11			11:23		315	11:29		325	06:34		52	06:52		52	11:43		332	06:26		56	11:56		344
za	24-11				17:46	43		17:52	53	12:37		383	12:59		413		17:51	41	12:18		364	18:14		53
za	24-11			23:43		313	23:49		323	18:54		49	19:12		49	0:04		-12	18:44		53	00:17		0
zo	25-11				6:10	40		06:16	50	00:59		381	01:21		411	0:04		330	00:39		362	00:17		342
zo	25-11			12:04		313	12:10		323	07:17		45	07:35		45		6:14	39	07:07		51	06:37		51
zo	25-11				18:27	44		18:33	54	13:18		380	13:40		410	12:25		330	13:00		362	12:38		342
zo	25-11			0:18		-10	00:24		0	19:35		49	19:53		49		18:31	43	19:24		55	18:54		55
ma	26-11			0:18		315	00:24		325	01:32		382	01:54		412	0:41		331	01:16		363	00:54		343
ma	26-11				6:51	37		06:57	47	08:00		41	08:18		41		6:54	36	07:47		48	07:17		48
ma	26-11	18:03	EK	12:48		308	12:54		318	13:58		375	14:20		405	13:08		324	13:43		356	13:21		336
ma	26-11				19:06	47		19:12	57	20:16		53	20:34		53		19:09	46	20:02		58	19:32		58
di	27-11			0:57		316	01:03		326	02:08		384	02:30		414	1:21		331	01:56		363	01:34		343
di	27-11				7:32	36		07:38	46	08:42		41	09:00		41		7:34	35	08:27		47	07:57		47
di	27-11			13:36		300	13:42		310	14:40		367	15:02		397	13:54		315	14:29		347	14:07		327
di	27-11				19:46	53		19:52	63	20:56		61	21:14		61		19:47	52	20:40		64	20:10		64

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörhörn (Greetsiel)			Juist, Hafen		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
wo	28-11			1:43		315	01:49		325	02:51		385	03:13		415	2:04		328	02:39		360	02:17		340
wo	28-11				8:15	39		08:21	49		09:26	46		09:44	46		8:16	38		09:09	50		08:39	50
wo	28-11			14:27		288	14:33		298	15:29		356	15:51		386	14:43		302	15:18		334	14:56		314
wo	28-11				20:28	60		20:34	70		21:37	72		21:55	72		20:29	59		21:22	71		20:52	71
do	29-11			2:34		310	02:40		320	03:41		382	04:03		412	2:52		323	03:27		355	03:05		335
do	29-11				9:05	45		09:11	55		10:15	56		10:33	56		9:05	44		09:58	56		09:28	56
do	29-11			15:25		277	15:31		287	16:25		345	16:47		375	15:40		290	16:15		322	15:53		302
do	29-11				21:18	69		21:24	79		22:24	85		22:42	85		21:20	70		22:13	82		21:43	82
vr	30-11			3:33		304	03:39		314	04:39		375	05:01		405	3:48		315	04:23		347	04:01		327
vr	30-11				10:08	52		10:14	62		11:13	68		11:31	68		10:09	53		11:02	65		10:32	65
vr	30-11			16:30		270	16:36		280	17:30		336	17:52		366	16:45		281	17:20		313	16:58		293
vr	30-11				22:24	78		22:30	88		23:26	99		23:44	99		22:28	80		23:21	92		22:51	92

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maand		fase		HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
dag	datum	tijd		53°34'37"N 6°39'41"E			53°33'27"N 6°44'52"E			53°19'59.9"N 7°1'59.9"E			53°20'12.8"N, 7°11'11.0"E			53°37'27"N 6°54'21"E			53°32'57"N, 7°02'09"E			53°40'21"N 6°59'45"E		
za	1-12			4:40		298	04:46		308	05:46		369	06:08		399	4:56		308	05:31		340	05:09		320
za	1-12				11:27	55		11:33	65		12:26	74		12:44	74		11:31	56		12:24	68		11:54	68
za	1-12			17:39		269	17:45		279	18:42		334	19:04		364	17:54		281	18:29		313	18:07		293
za	1-12				23:49	80		23:55	90		00:51	0		01:09	0		23:55	-12		00:48	0		00:18	0
zo	2-12			5:52		297	05:58		307		00:51	103		01:09	103		23:55	81		00:48	93		00:18	93
zo	2-12				12:36	51		12:42	61	07:00		366	07:22		396	6:11		308	06:46		340	06:24		320
zo	2-12			18:51		275	18:57		285		13:35	69		13:53	69		12:40	53		13:33	65		13:03	65
zo	2-12				0:59	-10		01:05	0	20:03		342	20:25		372	19:04		287	19:39		319	19:17		299
ma	3-12				0:59	72		01:05	82		02:01	92		02:19	92		1:04	74		01:57	86		01:27	86
ma	3-12			7:07		299	07:13		309	08:19		370	08:41		400	7:23		311	07:58		343	07:36		323
ma	3-12	16:47 VM			13:39	46		13:45	56		14:39	61		14:57	61		13:42	48		14:35	60		14:05	60
ma	3-12			20:02		284	20:08		294	21:11		354	21:33		384	20:13		297	20:48		329	20:26		309
di	4-12				2:03	63		02:09	73		03:07	79		03:25	79		2:09	65		03:02	77		02:32	77
di	4-12			8:17		303	08:23		313	09:24		374	09:46		404	8:31		315	09:06		347	08:44		327
di	4-12				14:47	41		14:53	51		15:48	52		16:06	52		14:51	44		15:44	56		15:14	56
di	4-12			21:02		292	21:08		302	22:09		361	22:31		391	21:15		307	21:50		339	21:28		319
wo	5-12				3:15	54		03:21	64		04:19	65		04:37	65		3:23	54		04:16	66		03:46	66
wo	5-12			9:15		303	09:21		313	10:19		372	10:41		402	9:33		317	10:08		349	09:46		329
wo	5-12				15:53	36		15:59	46		16:53	43		17:11	43		15:57	38		16:50	50		16:20	50
wo	5-12			21:52		295	21:58		305	22:59		363	23:21		393	22:08		313	22:43		345	22:21		325
do	6-12				4:19	42		04:25	52		05:20	50		05:38	50		4:23	41		05:16	53		04:46	53
do	6-12			10:05		298	10:11		308	11:07		365	11:29		395	10:26		314	11:01		346	10:39		326
do	6-12				16:43	34		16:49	44		17:45	39		18:03	39		16:46	35		17:39	47		17:09	47
do	6-12			22:34		296	22:40		306	23:40		361	00:02		0	22:54		314	23:29		346	23:07		326
vr	7-12				5:07	35		05:13	45		06:09	42		00:02	391		5:11	33		06:04	45		05:34	45
vr	7-12			10:49		293	10:55		303	11:50		357		06:27	42	11:12		309	11:47		341	11:25		321
vr	7-12				17:25	37		17:31	47		18:28	44		12:12	387		17:28	37		18:21	49		17:51	49
vr	7-12			23:09		298	23:15		308	00:10		0		18:46	44	23:33		315	00:08		0	23:46		327
za	8-12				5:48	34		05:54	44	00:10		363	00:32		393		5:51	32	00:08		347		06:14	44
za	8-12			11:28		290	11:34		300		06:51	41		07:09	41	11:53		306		06:44	44	12:06		318
za	8-12				17:59	43		18:05	53	12:28		355	12:50		385		18:02	42	12:28		338		18:25	54
za	8-12			23:41		303	23:47		313		19:05	53		19:23	53	0:07		-12		18:55	54	00:20		0
zo	9-12				6:22	37		06:28	47	00:41		371	01:03		401	0:07		318	00:42		350	00:20		330
zo	9-12			12:06		291	12:12		301		07:27	45		07:45	45		6:25	37		07:18	49		06:48	49
zo	9-12				18:25	49		18:31	59	13:06		358	13:28		388	12:29		306	13:04		338	12:42		318
zo	9-12			0:14		-10	00:20		0		19:37	61		19:55	61		18:31	49		19:24	61		18:54	61

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N,7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
wo	19-12				0:57	90		01:03	100		02:00	110		02:18	110		0:59	94		01:52	106		01:22	106
wo	19-12			7:21		301	07:27		311	08:31		370	08:53		400	7:32		311	08:07		343	07:45		323
wo	19-12				13:39	70		13:45	80		14:48	87		15:06	87		13:43	72		14:36	84		14:06	84
wo	19-12			20:09		290	20:15		300	21:11		360	21:33		390	20:20		80	20:55		332	20:33		312
do	20-12				2:08	77		02:14	87		03:18	93		03:36	93		2:13	80		03:06	92		02:36	92
do	20-12			8:25		303	08:31		313	09:32		373	09:54		403	8:40		314	09:15		346	08:53		326
do	20-12				14:42	58		14:48	68		15:53	70		16:11	70		14:49	60		15:42	72		15:12	72
do	20-12			21:06		298	21:12		308	22:11		369	22:33		399	21:19		310	21:54		342	21:32		322
vr	21-12				3:12	63		03:18	73		04:21	74		04:39	74		3:22	63		04:15	75		03:45	75
vr	21-12			9:22		304	09:28		314	10:30		374	10:52		404	9:40		318	10:15		350	09:53		330
vr	21-12				15:39	49		15:45	59		16:49	57		17:07	57		15:47	49		16:40	61		16:10	61
vr	21-12			21:57		303	22:03		313	23:06		374	23:28		404	22:12		317	22:47		349	22:25		329
za	22-12				4:09	51		04:15	61		05:16	58		05:34	58		4:19	49		05:12	61		04:42	61
za	22-12			10:15		305	10:21		315	11:26		373	11:48		403	10:34		320	11:09		352	10:47		332
za	22-12				16:32	42		16:38	52		17:40	48		17:58	48		16:40	42		17:33	54		17:03	54
za	22-12			22:43		305	22:49		315	23:56		375	00:18		0	22:59		321	23:34		353	23:12		333
zo	23-12				5:03	39		05:09	49		06:09	46		00:18	405		5:10	37		06:03	49		05:33	49
zo	23-12			11:05		303	11:11		313	12:19		370		06:27	46	11:24		320	11:59		352	11:37		332
zo	23-12				17:23	38		17:29	48		18:30	44		12:41	400		17:30	37		18:23	49		17:53	49
zo	23-12			23:24		307	23:30		317	00:41		0		18:48	44	23:43		323	00:18		0	23:56		335
ma	24-12				5:55	29		06:01	39		00:41	374	01:03		404		5:59	27		00:18	355		06:22	39
ma	24-12			11:54		300	12:00		310		07:00	35		07:18	35	12:13		317		06:52	39	12:26		329
ma	24-12				18:12	35		18:18	45		13:08	364		13:30	394		18:17	34		12:48	349		18:40	46
ma	24-12			0:05		-10	00:11		0		19:19	42		19:37	42	0:27		-12		19:10	46	00:40		0
di	25-12			0:05		309	00:11		319	01:20		373	01:42		403	0:27		325	01:02		357	00:40		337
di	25-12				6:45	21		06:51	31		07:50	26		08:08	26		6:47	20		07:40	32		07:10	32
di	25-12			12:43		295	12:49		305	13:54		357	14:16		387	13:01		312	13:36		344	13:14		324
di	25-12				19:00	34		19:06	44		20:06	43		20:24	43		19:02	34		19:55	46		19:25	46
wo	26-12			0:49		311	00:55		321	01:58		375	02:20		405	1:11		325	01:46		357	01:24		337
wo	26-12				7:34	17		07:40	27		08:39	22		08:57	22		7:34	17		08:27	29		07:57	29
wo	26-12			13:31		288	13:37		298	14:38		350	15:00		380	13:50		304	14:25		336	14:03		316
wo	26-12				19:46	36		19:52	46		20:53	47		21:11	47		19:46	36		20:39	48		20:09	48
do	27-12			1:37		311	01:43		321	02:42		377	03:04		407	1:58		325	02:33		357	02:11		337
do	27-12	10:20 EK			8:23	18		08:29	28		09:28	25		09:46	25		8:22	18		09:15	30		08:45	30
do	27-12			14:22		281	14:28		291	15:24		344	15:46		374	14:40		296	15:15		328	14:53		308
do	27-12				20:32	40		20:38	50		21:40	54		21:58	54		20:31	40		21:24	52		20:54	52

getijden 2018				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maan		53°34'37"N 6°39'41"E		53°33'27"N 6°44'52"E		53°19'59.9"N 7°1'59.9"E		53°20'12.8"N, 7°11'11.0"E		53°37'27"N 6°54'21"E		53°32'57"N, 7°02'09"E		53°40'21"N 6°59'45"E										
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
vr	28-12			2:28		309	02:34		319	03:32		377	03:54		407	2:47		322	03:22		354	03:00		334
vr	28-12				9:13	25		09:19	35		10:18	33		10:36	33		9:12	25		10:05	37		09:35	37
vr	28-12			15:15		273	15:21		283	16:16		337	16:38		367	15:33		288	16:08		320	15:46		300
vr	28-12				21:22	47		21:28	57		22:29	64		22:47	64		21:21	48		22:14	60		21:44	60
za	29-12			3:22		304	03:28		314	04:27		373	04:49		403	3:41		317	04:16		349	03:54		329
za	29-12				10:07	34		10:13	44		11:11	45		11:29	45		10:08	34		11:01	46		10:31	46
za	29-12			16:12		267	16:18		277	17:14		332	17:36		362	16:29		282	17:04		314	16:42		294
za	29-12				22:18	55		22:24	65		23:25	74		23:43	74		22:21	56		23:14	68		22:44	68
zo	30-12			4:22		297	04:28		307	05:28		366	05:50		396	4:41		309	05:16		341	04:54		321
zo	30-12				11:06	42		11:12	52		12:07	55		12:25	55		11:08	42		12:01	54		11:31	54
zo	30-12			17:12		264	17:18		274	18:18		327	18:40		357	17:28		278	18:03		310	17:41		290
zo	30-12				23:24	60		23:30	70		00:27	0		00:45	0		23:28	61		00:21	0		23:51	73
ma	31-12			5:26		290	05:32		300		00:27	80		00:45	80	5:45		302		00:21	73	05:58		314
ma	31-12				12:05	46		12:11	56	06:35		357	06:57		387		12:08	46	06:20		334		12:31	58
ma	31-12			18:15		263	18:21		273		13:05	60		13:23	60	18:29		277		13:01	58	18:42		289
ma	31-12					-10				19:29		326	19:51		356			-12	19:04		309			