

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafan			
maand	dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm			
	vr	1-1			0:34		324	00:40		334	01:39		395	02:01		425	0:51		340	01:26		372	01:04		352
	vr	1-1				6:59	47		07:05	57		08:07	52		08:25	52		7:03	47		07:56	59		07:26	59
	vr	1-1			12:59		295	13:05		305	14:03		364	14:25		394	13:14		310	13:49		342	13:27		322
	vr	1-1				19:06	58		19:12	68		20:15	65		20:33	65		19:11	57		20:04	69		19:34	69
	za	2-1			1:08		319	01:14		329	02:14		389	02:36		419	1:24		335	01:59		367	01:37		347
	za	2-1				7:35	52		07:41	62		08:42	58		09:00	58		7:38	50		08:31	62		08:01	62
	za	2-1			13:35		285	13:41		295	14:38		354	15:00		384	13:49		301	14:24		333	14:02		313
	za	2-1				19:36	63		19:42	73		20:48	70		21:06	70		19:44	62		20:37	74		20:07	74
	zo	3-1			1:40		313	01:46		323	02:47		384	03:09		414	1:56		330	02:31		362	02:09		342
	zo	3-1				8:08	54		08:14	64		09:16	60		09:34	60		8:13	51		09:06	63		08:36	63
	zo	3-1			14:09		278	14:15		288	15:12		346	15:34		376	14:24		294	14:59		326	14:37		306
	zo	3-1				20:09	61		20:15	71		21:22	68		21:40	68		20:18	61		21:11	73		20:41	73
	ma	4-1			2:16		312	02:22		322	03:25		382	03:47		412	2:32		329	03:07		361	02:45		341
	ma	4-1				8:44	50		08:50	60		09:53	56		10:11	56		8:49	49		09:42	61		09:12	61
	ma	4-1			14:48		275	14:54		285	15:51		341	16:13		371	15:04		291	15:39		323	15:17		303
	ma	4-1				20:50	56		20:56	66		22:02	62		22:20	62		20:58	57		21:51	69		21:21	69
	di	5-1			3:00		312	03:06		322	04:08		381	04:30		411	3:15		329	03:50		361	03:28		341
	di	5-1				9:26	46		09:32	56		10:34	52		10:52	52		9:31	45		10:24	57		09:54	57
	di	5-1			15:35		274	15:41		284	16:36		338	16:58		368	15:49		290	16:24		322	16:02		302
	di	5-1	20:47	EK		21:39	52		21:45	62		22:46	60		23:04	60		21:45	55		22:38	67		22:08	67
	wo	6-1			3:50		310	03:56		320	04:55		375	05:17		405	4:04		326	04:39		358	04:17		338
	wo	6-1				10:16	45		10:22	55		11:21	53		11:39	53		10:20	46		11:13	58		10:43	58
	wo	6-1			16:27		272	16:33		282	17:29		333	17:51		363	16:41		287	17:16		319	16:54		299
	wo	6-1				22:33	54		22:39	64		23:37	66		23:55	66		22:38	58		23:31	70		23:01	70
	do	7-1			4:44		303	04:50		313	05:50		365	06:12		395	4:58		318	05:33		350	05:11		330
	do	7-1				11:11	49		11:17	59		12:16	63		12:34	63		11:17	51		12:10	63		11:40	63
	do	7-1			17:28		267	17:34		277	18:42		327	19:04		357	17:41		281	18:16		313	17:54		293
	do	7-1				23:33	60		23:39	70		00:37	79		00:55	79		23:38	64		00:31	76		00:01	76
	vr	8-1			5:46		292	05:52		302		00:37	79		00:55	79		23:38	64		00:31	76		00:01	76
	vr	8-1				12:18	55		12:24	65	07:06		353	07:28		383	6:01		305	06:36		337	06:14		317
	vr	8-1			18:42		264	18:48		274		13:27	74		13:45	74		12:26	58		13:19	70		12:49	70
	vr	8-1				0:45	64		00:51	74	20:00		324	20:22		354	18:57		276	19:32		308	19:10		288
	za	9-1				0:45	64		00:51	74		01:57	85		02:15	85		0:55	67		01:48	79		01:18	79
	za	9-1			7:05		284	07:11		294	08:26		346	08:48		376	7:24		295	07:59		327	07:37		307
	za	9-1				13:40	55		13:46	65		14:47	70		15:05	70		13:50	56		14:43	68		14:13	68
	za	9-1			20:04		266	20:10		276	21:18		329	21:40		359	20:21		278	20:56		310	20:34		290

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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"			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	10-1				2:06	57		02:12	67		03:16	74		03:34	74		2:22	58		03:15	70		02:45	70
zo	10-1			8:30		282	08:36		292	09:41		347	10:03		377	8:51		294	09:26		326	09:04		306
zo	10-1				14:49	46		14:55	56		15:54	59		16:12	59		14:59	47		15:52	59		15:22	59
zo	10-1			21:12		274	21:18		284	22:21		340	22:43		370	21:28		287	22:03		319	21:41		299
ma	11-1				3:17	43		03:23	53		04:26	57		04:44	57		3:32	42		04:25	54		03:55	54
ma	11-1			9:38		287	09:44		297	10:43		352	11:05		382	9:59		300	10:34		332	10:12		312
ma	11-1				15:55	36		16:01	46		17:02	47		17:20	47		16:04	37		16:57	49		16:27	49
ma	11-1			22:07		286	22:13		296	23:13		353	23:35		383	22:24		299	22:59		331	22:37		311
di	12-1				4:34	26		04:40	36		05:41	36		05:59	36		4:39	24		05:32	36		05:02	36
di	12-1			10:36		292	10:42		302	11:39		358	12:01		388	10:55		307	11:30		339	11:08		319
di	12-1	12:34 VM			17:01	26		17:07	36		18:08	35		18:26	35		17:05	26		17:58	38		17:28	38
di	12-1			22:56		297	23:02		307	00:02		364	00:24		394	23:14		310	23:49		342	23:27		322
wo	13-1				5:36	9		05:42	19	00:02		364	00:24		394		5:38	9		06:31	21		06:01	21
wo	13-1			11:29		296	11:35		306		06:41	16	06:59	16	11:47		311	12:22		343	12:00		323	
wo	13-1				17:56	19		18:02	29	12:33		361	12:55		391		17:58	19		18:51	31		18:21	31
wo	13-1			23:44		304	23:50		314		19:02	27	19:20	27	0:02		317	00:37		349	00:15		329	
do	14-1				6:27	2		06:33	12	00:49		372	01:11		402	0:02		317	00:37		349	00:15		329
do	14-1			12:19		296	12:25		306		07:32	7	07:50	7		6:28	3		07:21	15		06:51	15	
do	14-1				18:44	20		18:50	30	13:27		360	13:49		390	12:35		312	13:10		344	12:48		324
do	14-1			0:30		307	00:36		317		19:50	30	20:08	30		18:46	20		19:39	32		19:09	32	
vr	15-1			0:30		307	00:36		317	01:36		372	01:58		402	0:48		321	01:23		353	01:01		333
vr	15-1				7:13	7		07:19	17		08:17	13	08:35	13		7:14	8		08:07	20		07:37	20	
vr	15-1			13:05		291	13:11		301	14:18		353	14:40		383	13:21		307	13:56		339	13:34		319
vr	15-1				19:27	30		19:33	40		20:33	43	20:51	43		19:29	30		20:22	42		19:52	42	
za	16-1			1:13		305	01:19		315	02:19		368	02:41		398	1:31		319	02:06		351	01:44		331
za	16-1				7:54	22		08:00	32		08:58	30	09:16	30		7:55	22		08:48	34		08:18	34	
za	16-1			13:47		282	13:53		292	14:59		343	15:21		373	14:02		300	14:37		332	14:15		312
za	16-1				20:05	45		20:11	55		21:11	59	21:29	59		20:07	44		21:00	56		20:30	56	
zo	17-1			1:52		300	01:58		310	02:58		362	03:20		392	2:11		315	02:46		347	02:24		327
zo	17-1				8:31	39		08:37	49		09:36	48	09:54	48		8:32	39		09:25	51		08:55	51	
zo	17-1			14:24		275	14:30		285	15:32		336	15:54		366	14:41		293	15:16		325	14:54		305
zo	17-1				20:37	57		20:43	67		21:46	73	22:04	73		20:39	57		21:32	69		21:02	69	
ma	18-1			2:30		296	02:36		306	03:36		358	03:58		388	2:50		311	03:25		343	03:03		323
ma	18-1				9:04	51		09:10	61		10:12	61	10:30	61		9:06	50		09:59	62		09:29	62	
ma	18-1			15:02		272	15:08		282	16:08		333	16:30		363	15:20		289	15:55		321	15:33		301
ma	18-1				21:05	62		21:11	72		22:20	79	22:38	79		21:09	63		22:02	75		21:32	75	

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maand	dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm			
	di	19-1			3:09		294	03:15		304	04:15		357	04:37		387	3:30		307	04:05		339	03:43		319
	di	19-1				9:39	56		09:45	66		10:48	66		11:06	66		9:41	55		10:34	67		10:04	67
	di	19-1			15:43		271	15:49		281	16:50		333	17:12		363	16:01		288	16:36		320	16:14		300
	di	19-1	23:13	LK		21:42	64		21:48	74		22:58	81		23:16	81		21:47	66		22:40	78		22:10	78
	wo	20-1			3:55		289	04:01		299	05:02		353	05:24		383	4:15		302	04:50		334	04:28		314
	wo	20-1				10:22	59		10:28	69		11:29	70		11:47	70		10:25	59		11:18	71		10:48	71
	wo	20-1			16:34		270	16:40		280	17:40		332	18:02		362	16:49		285	17:24		317	17:02		297
	wo	20-1				22:33	68		22:39	78		23:43	85		00:01	85		22:39	70		23:32	82		23:02	82
	do	21-1			4:51		281	04:57		291	05:56		346	06:01		385	5:08		293	05:43		325	05:21		305
	do	21-1				11:15	64		11:21	74		12:17	78		06:18	376		11:19	65		12:12	77		11:42	77
	do	21-1			17:30		267	17:36		277	18:34		329	18:34		378	17:42		281	18:17		313	17:55		293
	do	21-1				23:36	74		23:42	84		00:39	92		18:56	359		23:41	75		00:34	87		00:04	87
	vr	22-1			5:53		272	05:59		282	06:59		346	07:00		392	23:41		75		00:34	87		00:04	87
	vr	22-1				12:17	71		12:23	81		06:55	336		07:17	366		6:08	283		06:43	315		06:21	295
	vr	22-1			18:28		266	18:34		276	19:34		336	19:34		389		12:19	72		13:12	84		12:42	84
	vr	22-1				0:45	78		00:51	88		19:31	327		19:53	357		18:40	278		19:15	310		18:53	290
	za	23-1				0:45	78		00:51	88		01:45	98		02:03	98		0:47	79		01:40	91		01:10	91
	za	23-1			6:56		265	07:02		275	07:54		329	08:16		359	7:10		274	07:45		306	07:23		286
	za	23-1				13:22	75		13:28	85		14:21	96		14:39	96		13:21	77		14:14	89		13:44	89
	za	23-1			19:27		268	19:33		278	20:30		329	20:52		359	19:42		279	20:17		311	19:55		291
	zo	24-1				1:54	76		02:00	86		02:56	96		03:14	96		1:57	79		02:50	91		02:20	91
	zo	24-1			7:58		263	08:04		273	08:54		327	09:16		357	8:16		272	08:51		304	08:29		284
	zo	24-1				14:25	73		14:31	83		15:30	93		15:48	93		14:29	77		15:22	89		14:52	89
	zo	24-1			20:26		277	20:32		287	21:32		339	21:54		369	20:45		287	21:20		319	20:58		299
	ma	25-1				3:00	70		03:06	80		04:05	85		04:23	85		3:10	73		04:03	85		03:33	85
	ma	25-1			8:57		268	09:03		278	09:53		332	10:15		362	9:21		277	09:56		309	09:34		289
	ma	25-1				15:22	66		15:28	76		16:30	81		16:48	81		15:30	71		16:23	83		15:53	83
	ma	25-1			21:20		291	21:26		301	22:29		355	22:51		385	21:41		301	22:16		333	21:54		313
	di	26-1				3:55	61		04:01	71		05:01	71		05:19	71		4:02	63		04:55	75		04:25	75
	di	26-1			9:48		278	09:54		288	10:49		342	11:11		372	10:12		288	10:47		320	10:25		300
	di	26-1				16:12	57		16:18	67		17:20	67		17:38	67		16:18	61		17:11	73		16:41	73
	di	26-1			22:09		305	22:15		315	23:19		372	23:41		402	22:28		316	23:03		348	22:41		328
	wo	27-1				4:41	51		04:47	61		05:49	58		06:07	58		4:46	52		05:39	64		05:09	64
	wo	27-1			10:36		288	10:42		298	11:41		353	12:03		383	10:56		299	11:31		331	11:09		311
	wo	27-1				16:57	47		17:03	57		18:05	55		18:23	55		17:01	50		17:54	62		17:24	62
	wo	27-1			22:55		315	23:01		325	00:06		383	00:28		413	23:12		327	23:47		359	23:25		339

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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		
maand				HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
do	28-1				5:25	41		05:31	51	00:06		383	00:28		413		5:28	41		06:21	53		05:51	53
do	28-1	1:07	NM	11:22		293	11:28		303		06:32	48		06:50	48	11:39		306	12:14		338	11:52		318
do	28-1				17:39	40		17:45	50	12:30		359	12:52		389		17:42	41		18:35	53		18:05	53
do	28-1			23:39		318	23:45		328		18:46	47		19:04	47	23:54		331	00:29		363	00:07		343
vr	29-1				6:06	34		06:12	44	00:49		386	01:11		416	23:54		331	00:29		363	00:07		343
vr	29-1			12:06		293	12:12		303		07:12	41		07:30	41		6:09	32		07:02	44		06:32	44
vr	29-1				18:19	37		18:25	47	13:15		358	13:37		388	12:20		306	12:55		338	12:33		318
vr	29-1					315			325		19:24	44		19:42	44		18:21	36		19:14	48		18:44	48
za	30-1			0:19		315	00:25		325	01:26		382	01:48		412	0:33		330	01:08		362	00:46		342
za	30-1				6:46	30		06:52	40		07:51	37		08:09	37		6:47	28		07:40	40		07:10	40
za	30-1			12:46		287	12:52		297	13:52		352	14:14		382	12:59		302	13:34		334	13:12		314
za	30-1				18:54	36		19:00	46		20:00	43		20:18	43		18:57	33		19:50	45		19:20	45
zo	31-1			0:53		311	00:59		321	01:58		378	02:20		408	1:08		326	01:43		358	01:21		338
zo	31-1				7:22	28		07:28	38		08:27	34		08:45	34		7:24	25		08:17	37		07:47	37
zo	31-1			13:20		281	13:26		291	14:23		346	14:45		376	13:34		296	14:09		328	13:47		308
zo	31-1				19:27	34		19:33	44		20:35	40		20:53	40		19:31	31		20:24	43		19:54	43

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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	1-2			1:25		309	01:31		319	02:30		378	02:52		408	1:41		325	02:16		357	01:54		337
ma	1-2				7:56	26		08:02	36		09:02	31		09:20	31		7:59	23		08:52	35		08:22	35
ma	1-2			13:53		278	13:59		288	14:55		344	15:17		374	14:09		293	14:44		325	14:22		305
ma	1-2				20:00	29		20:06	39		21:10	35		21:28	35		20:06	27		20:59	39		20:29	39
di	2-2			2:02		310	02:08		320	03:08		381	03:30		411	2:18		326	02:53		358	02:31		338
di	2-2				8:31	25		08:37	35		09:38	30		09:56	30		8:34	21		09:27	33		08:57	33
di	2-2			14:30		277	14:36		287	15:33		344	15:55		374	14:47		292	15:22		324	15:00		304
di	2-2				20:37	25		20:43	35		21:48	32		22:06	32		20:43	24		21:36	36		21:06	36
wo	3-2			2:44		309	02:50		319	03:51		379	04:13		409	2:59		325	03:34		357	03:12		337
wo	3-2				9:08	26		09:14	36		10:17	33		10:35	33		9:12	23		10:05	35		09:35	35
wo	3-2			15:13		274	15:19		284	16:16		340	16:38		370	15:29		289	16:04		321	15:42		301
wo	3-2				21:20	26		21:26	36		22:29	35		22:47	35		21:25	26		22:18	38		21:48	38
do	4-2			3:31		303	03:37		313	04:37		369	04:59		399	3:45		318	04:20		350	03:58		330
do	4-2	5:19 EK			9:51	32		09:57	42		11:00	44		11:18	44		9:56	32		10:49	44		10:19	44
do	4-2			16:01		268	16:07		278	17:03		330	17:25		360	16:17		281	16:52		313	16:30		293
do	4-2				22:09	34		22:15	44		23:14	48		23:32	48		22:13	36		23:06	48		22:36	48
vr	5-2			4:22		290	04:28		300	05:30		352	05:52		382	4:36		303	05:11		335	04:49		315
vr	5-2				10:41	45		10:47	55		11:48	61		12:06	61		10:47	46		11:40	58		11:10	58
vr	5-2			16:56		259	17:02		269	18:01		317	18:23		347	17:12		269	17:47		301	17:25		281
vr	5-2				23:04	46		23:10	56		00:09	67		00:27	67		23:09	49		00:02	61		23:32	61
za	6-2			5:24		274	05:30		284		00:09	67		00:27	67		5:38	284		00:02	61	05:51		296
za	6-2				11:44	57		11:50	67	06:41		334	07:03		364		11:55	60	06:13		316		12:18	72
za	6-2			18:09		251	18:15		261		12:55	80		13:13	80		18:28	259		12:48	72	18:41		271
za	6-2				0:18	55		00:24	65	19:22		308	19:44		338		0:32	58	19:03		291		00:55	70
zo	7-2				0:18	55		00:24	65		01:32	81		01:50	81		0:32	58		01:25	70		00:55	70
zo	7-2			6:51		264	06:57		274	08:05		324	08:27		354	7:11		271	07:46		303	07:24		283
zo	7-2				13:22	59		13:28	69		14:27	80		14:45	80		13:32	60		14:25	72		13:55	72
zo	7-2			19:38		252	19:44		262	20:52		312	21:14		342	19:58		260	20:33		293	20:11		272
ma	8-2				1:54	49		02:00	59		03:00	70		03:18	70		2:07	49		03:00	61		02:30	61
ma	8-2			8:20		265	08:26		275	09:26		329	09:48		359	8:41		274	09:16		306	08:54		286
ma	8-2				14:36	48		14:42	58		15:40	64		15:58	64		14:45	49		15:38	61		15:08	61
ma	8-2			20:54		265	21:00		275	22:01		329	22:23		359	21:11		275	21:46		307	21:24		287
di	9-2				3:14	33		03:20	43		04:22	49		04:40	49		3:23	33		04:16	45		03:46	45
di	9-2			9:30		276	09:36		286	10:31		341	10:53		371	9:48		287	10:23		319	10:01		299
di	9-2				15:50	33		15:56	43		16:56	44		17:14	44		15:56	34		16:49	46		16:19	46
di	9-2			21:52		282	21:58		292	22:56		349	23:18		379			296	22:44		325	22:22		305

getijden 2016				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
wo	10-2				4:31	14		04:37	24		05:36	22		05:54	22		4:33	14		05:26	26		04:56	26
wo	10-2			10:26		287	10:32		297	11:29		353	11:51		383	10:45		300	11:20		332	10:58		312
wo	10-2				16:54	20		17:00	30		18:00	25		18:18	25		16:57	19		17:50	31		17:20	31
wo	10-2			22:43		296	22:49		306	23:48		364	00:10		394	23:01		308	23:36		340	23:14		320
do	11-2	1:33 VM			5:27	1		05:33	11		06:31	4		00:10	394		5:28	1		06:21	13		05:51	13
do	11-2			11:18		293	11:24		303	12:25		359		06:49	4	11:35		309	12:10		341	11:48		321
do	11-2				17:45	14		17:51	24		18:51	18	12:47		389		17:47	12		18:40	24		18:10	24
do	11-2			23:30		303	23:36		313	00:36		371		19:09	18	23:48		316	00:23		348	00:01		328
vr	12-2				6:14	1		06:20	11	00:36		371	00:58		401	23:48		316	00:23		348	00:01		328
vr	12-2			12:04		293	12:10		303		07:18	3		07:36	3		6:15	0		07:08	12		06:38	12
vr	12-2				18:30	17		18:36	27	13:21		358	13:43		388	12:21		310	12:56		342	12:34		322
vr	12-2			0:13		304	00:19		314		19:35	24		19:53	24		18:31	14		19:24	26		18:54	26
za	13-2			0:13		304	00:19		314	01:21		370	01:43		400	0:32		318	01:07		350	00:45		330
za	13-2				6:55	11		07:01	21		08:00	17		08:18	17		6:56	9		07:49	21		07:19	21
za	13-2			12:45		289	12:51		299	14:05		351	14:27		381	13:01		307	13:36		339	13:14		319
za	13-2				19:08	27		19:14	37		20:14	38		20:32	38		19:10	24		20:03	36		19:33	36
zo	14-2			0:51		301	00:57		311	01:58		364	02:20		394	1:10		316	01:45		348	01:23		328
zo	14-2				7:31	25		07:37	35		08:36	33		08:54	33		7:32	22		08:25	34		07:55	34
zo	14-2			13:19		283	13:25		293	14:29		344	14:51		374	13:37		302	14:12		334	13:50		314
zo	14-2				19:40	37		19:46	47		20:47	49		21:05	49		19:43	34		20:36	46		20:06	46
ma	15-2			1:24		298	01:30		308	02:31		360	02:53		390	1:45		313	02:20		345	01:58		325
ma	15-2				8:00	36		08:06	46		09:08	44		09:26	44		8:02	33		08:55	45		08:25	45
ma	15-2			13:49		281	13:55		291	14:55		343	15:17		373	14:09		299	14:44		331	14:22		311
ma	15-2				20:05	42		20:11	52		21:18	53		21:36	53		20:09	40		21:02	52		20:32	52
di	16-2			1:57		296	02:03		306	03:05		359	03:27		389	2:19		310	02:54		342	02:32		322
di	16-2				8:27	40		08:33	50		09:39	47		09:57	47		8:29	37		09:22	49		08:52	49
di	16-2			14:20		281	14:26		291	15:29		344	15:51		374	14:43		298	15:18		330	14:56		310
di	16-2				20:30	42		20:36	52		21:49	53		22:07	53		20:34	41		21:27	53		20:57	53
wo	17-2			2:31		294	02:37		304	03:40		358	04:02		388	2:54		307	03:29		339	03:07		319
wo	17-2				8:56	42		09:02	52		10:11	49		10:29	49		8:58	40		09:51	52		09:21	52
wo	17-2			14:56		280	15:02		290	16:06		344	16:28		374	15:20		296	15:55		328	15:33		308
wo	17-2				21:03	43		21:09	53		22:22	55		22:40	55		21:08	44		22:01	56		21:31	56
do	18-2			3:09		288	03:15		298	04:18		353	04:40		383	3:33		300	04:08		332	03:46		312
do	18-2				9:32	49		09:38	59		10:45	57		11:03	57		9:35	49		10:28	61		09:58	61
do	18-2			15:40		277	15:46		287	16:48		341	17:10		371	16:02		291	16:37		323	16:15		303
do	18-2	20:33 LK			21:45	52		21:51	62		22:59	64		23:17	64		21:50	54		22:43	66		22:13	66

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafén		
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		
vr	19-2			3:57		277	04:03		287	05:01		343	05:23		373	4:18		288	04:53		320	04:31		300
vr	19-2				10:15	63		10:21	73		11:24	74		11:42	74		10:19	65		11:12	77		10:42	77
vr	19-2			16:32		271	16:38		281	17:34		335	17:56		365	16:50		282	17:25		314	17:03		294
vr	19-2				22:36	67		22:42	77		23:43	81		00:01	81		22:41	69		23:34	81		23:04	81
za	20-2			4:54		266	05:00		276	05:52		332	06:14		362	5:11		274	05:46		306	05:24		286
za	20-2				11:07	81		11:13	91		12:10	97		12:28	97		11:13	83		12:06	95		11:36	95
za	20-2			17:30		267	17:36		277	18:26		330	18:48		360	17:45		275	18:20		307	17:58		287
za	20-2				23:37	82		23:43	92		00:37	100		00:55	100		23:42	84		00:35	96		00:05	96
zo	21-2			5:56		259	06:02		269		00:37	100		00:55	100		23:42	84		00:35	96		00:05	96
zo	21-2				12:12	94		12:18	104	06:52		326	07:14		356	6:11		265	06:46		297	06:24		277
zo	21-2			18:31		269	18:37		279		13:08	116		13:26	116		12:14	96		13:07	108		12:37	108
zo	21-2				0:48	89		00:54	99	19:25		332	19:47		362	18:46		275	19:21		307	18:59		287
ma	22-2				0:48	89		00:54	99		01:46	112		02:04	112		0:49	91		01:42	103		01:12	103
ma	22-2			7:01		259	07:07		269	07:55		327	08:17		357	7:16		264	07:51		296	07:29		276
ma	22-2				13:26	94		13:32	104		14:25	120		14:43	120		13:21	97		14:14	109		13:44	109
ma	22-2			19:37		279	19:43		289	20:33		342	20:55		372	19:53		284	20:28		316	20:06		296
di	23-2				2:04	83		02:10	93		03:14	105		03:32	105		2:05	86		02:58	98		02:28	98
di	23-2			8:11		268	08:17		278	09:03		335	09:25		365	8:29		272	09:04		304	08:42		284
di	23-2				14:39	81		14:45	91		15:49	101		16:07	101		14:42	86		15:35	98		15:05	98
di	23-2			20:46		294	20:52		304	21:49		359	22:11		389	21:02		300	21:37		332	21:15		312
wo	24-2				3:16	67		03:22	77		04:26	82		04:44	82		3:24	69		04:17	81		03:47	81
wo	24-2			9:20		279	09:26		289	10:18		347	10:40		377	9:38		286	10:13		318	09:51		298
wo	24-2				15:40	62		15:46	72		16:48	74		17:06	74		15:47	66		16:40	78		16:10	78
wo	24-2			21:45		307	21:51		317	22:55		376	23:17		406	22:00		315	22:35		347	22:13		327
do	25-2				4:13	49		04:19	59		05:20	58		05:38	58		4:18	49		05:11	61		04:41	61
do	25-2			10:17		288	10:23		298	11:25		357	11:47		387	10:31		298	11:06		330	10:44		310
do	25-2				16:31	45		16:37	55		17:38	52		17:56	52		16:36	46		17:29	58		16:59	58
do	25-2			22:35		313	22:41		323	23:48		384	00:10		414	22:49		324	23:24		356	23:02		336
vr	26-2				5:01	33		05:07	43		06:07	40		00:10	414		5:04	31		05:57	43		05:27	43
vr	26-2			11:05		291	11:11		301	12:18		360		06:25	40	11:18		302	11:53		334	11:31		314
vr	26-2	15:58	NM		17:17	33		17:23	43		18:22	39	12:40		390		17:21	31		18:14	43		17:44	43
vr	26-2			23:20		312	23:26		322	00:32		381		18:40	39	23:33		325	00:08		357	23:46		337
za	27-2				5:45	22		05:51	32	00:32		381	00:54		411		5:48	18	00:08		357		06:11	30
za	27-2			11:49		288	11:55		298		06:50	29		07:08	29	12:00		301	06:41		30	12:13		313
za	27-2				17:58	25		18:04	35	13:02		355	13:24		385		18:02	21	12:35		333		18:25	33
za	27-2			23:59		308	00:05		318		19:03	31		19:21	31	0:13		322		18:55	33	00:26		334

getijden 2016				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
zo	28-2			23:59		308	00:05		318	01:09		375	01:31		405	0:13		322	00:48		354	00:26		334
zo	28-2				6:26	14		06:32	24		07:29	20		07:47	20		6:28	10		07:21	22		06:51	22
zo	28-2			12:26		283	12:32		293	13:38		349	14:00		379	12:40		298	13:15		330	12:53		310
zo	28-2				18:36	18		18:42	28		19:41	23		19:59	23		18:40	14		19:33	26		19:03	26

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafens		
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"			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	1-3			0:33		307	00:39		317	01:40		374	02:02		404	0:50		321	01:25		353	01:03		333
ma	1-3				7:04	9		07:10	19		08:08	14		08:26	14		7:06	5		07:59	17		07:29	17
ma	1-3			12:59		282	13:05		292	14:06		347	14:28		377	13:16		296	13:51		328	13:29		308
ma	1-3				19:11	11		19:17	21		20:18	15		20:36	15		19:16	7		20:09	19		19:39	19
di	2-3			1:07		310	01:13		320	02:12		379	02:34		409	1:25		324	02:00		356	01:38		336
di	2-3				7:40	7		07:46	17		08:45	10		09:03	10		7:41	3		08:34	15		08:04	15
di	2-3			13:32		284	13:38		294	14:35		352	14:57		382	13:52		298	14:27		330	14:05		310
di	2-3				19:46	5		19:52	15		20:56	8		21:14	8		19:50	2		20:43	14		20:13	14
wo	3-3			1:46		312	01:52		322	02:50		384	03:12		414	2:04		326	02:39		358	02:17		338
wo	3-3				8:15	8		08:21	18		09:22	11		09:40	11		8:16	4		09:09	16		08:39	16
wo	3-3			14:11		285	14:17		295	15:13		355	15:35		385	14:30		298	15:05		330	14:43		310
wo	3-3				20:23	3		20:29	13		21:33	8		21:51	8		20:27	0		21:20	12		20:50	12
do	4-3			2:30		309	02:36		319	03:35		380	03:57		410	2:45		322	03:20		354	02:58		334
do	4-3				8:50	14		08:56	24		09:59	21		10:17	21		8:52	11		09:45	23		09:15	23
do	4-3			14:54		281	15:00		291	15:57		351	16:19		381	15:11		293	15:46		325	15:24		305
do	4-3				21:04	8		21:10	18		22:13	17		22:31	17		21:07	7		22:00	19		21:30	19
vr	5-3			3:18		296	03:24		306	04:24		366	04:46		396	3:31		308	04:06		340	03:44		320
vr	5-3				9:29	27		09:35	37		10:39	39		10:57	39		9:32	25		10:25	37		09:55	37
vr	5-3	12:32	EK	15:41		271	15:47		281	16:45		338	17:07		368	15:57		281	16:32		313	16:10		293
vr	5-3				21:49	21		21:55	31		22:56	36		23:14	36		21:52	22		22:45	34		22:15	34
za	6-3			4:11		277	04:17		287	05:20		343	05:42		373	4:23		286	04:58		318	04:36		298
za	6-3				10:15	44		10:21	54		11:23	62		11:41	62		10:19	45		11:12	57		10:42	57
za	6-3			16:37		258	16:43		268	17:41		322	18:03		352	16:52		264	17:27		296	17:05		276
za	6-3				22:44	38		22:50	48		23:49	59		00:07	0		22:47	40		23:40	52		23:10	52
zo	7-3			5:21		259	05:27		269	06:29		322	06:51		352	5:34		264	06:09		296	05:47		276
zo	7-3				11:18	61		11:24	71		12:27	85		12:45	85		11:33	64		12:26	76		11:56	76
zo	7-3			17:52		248	17:58		258	18:55		310	19:17		340	18:13		252	18:48		284	18:26		264
zo	7-3				0:18	49		00:24	59		01:25	75		01:43	75		0:35	50		01:28	50		00:58	50
ma	8-3				0:18	49		00:24	59		01:25	75		01:43	75		0:35	50		01:28	62		00:58	62
ma	8-3			6:45		251	06:51		261	07:51		313	08:13		343	7:07		256	07:42		288	07:20		268
ma	8-3				13:13	61		13:19	71		14:12	86		14:30	86		13:20	62		14:13	74		13:43	74
ma	8-3			19:19		251	19:25		261	20:29		313	20:51		343	19:41		257	20:16		289	19:54		269
di	9-3				1:49	40		01:55	50		02:50	63		03:08	63		1:57	40		02:50	52		02:20	52
di	9-3			8:11		258	08:17		268	09:13		323	09:35		353	8:29		266	09:04		298	08:42		278
di	9-3				14:26	47		14:32	57		15:29	66		15:47	66		14:33	48		15:26	60		14:56	60
di	9-3			20:38		268	20:44		278	21:42		334	22:04		364	20:54		276	21:29		308	21:07		288

getijden 2016				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"			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	10-3				3:10	25		03:16	35		04:14	39		04:32	39		3:15	24		04:08	36		03:38	36
wo	10-3			9:18		275	09:24		285	10:19		342	10:41		372	9:35		285	10:10		317	09:48		297
wo	10-3				15:41	31		15:47	41		16:45	41		17:03	41		15:46	30		16:39	42		16:09	42
wo	10-3			21:37		288	21:43		298	22:40		357	23:02		387	21:53		298	22:28		330	22:06		310
do	11-3				4:20	8		04:26	18		05:22	12		05:40	12		4:21	7		05:14	19		04:44	19
do	11-3			10:14		288	10:20		298	11:20		356	11:42		386	10:30		302	11:05		334	10:43		314
do	11-3				16:41	17		16:47	27		17:44	21		18:02	21		16:43	15		17:36	27		17:06	27
do	11-3			22:28		300	22:34		310	23:33		370	23:55		400	22:45		313	23:20		345	22:58		325
vr	12-3				5:11	1		05:17	11		06:14	1		06:32	1		5:12	0		06:05	12		05:35	12
vr	12-3			11:03		294	11:09		304	12:22		361	12:44		391	11:19		310	11:54		342	11:32		322
vr	12-3	15:54 VM			17:29	14		17:35	24		18:33	17		18:51	17		17:31	10		18:24	22		17:54	22
vr	12-3			23:12		304	23:18		314	00:20		0	00:42		0	23:31		318	00:06		0	23:44		330
za	13-3				5:55	6		06:01	16		00:20	371		00:42	401		5:56	3		00:06	350		06:19	15
za	13-3			11:46		291	11:52		301		06:59	8		07:17	8	12:02		309		06:49	15	12:15		321
za	13-3				18:10	19		18:16	29	13:13		357	13:35		387		18:12	14	12:37		341		18:35	26
za	13-3			23:50		300	23:56		310		19:15	26		19:33	26	0:11		-12		19:05	26	00:24		0
zo	14-3				6:32	17		06:38	27	00:57		365	01:19		395	0:11		315	00:46		347	00:24		327
zo	14-3			12:18		287	12:24		297		07:37	24		07:55	24		6:33	13		07:26	25		06:56	25
zo	14-3				18:44	27		18:50	37	13:34		349	13:56		379	12:37		305	13:12		337	12:50		317
zo	14-3			0:23		297	00:29		307		19:50	38		20:08	38		18:47	21		19:40	33		19:10	33
ma	15-3			0:23		297	00:29		307	01:27		360	01:49		390	0:45		311	01:20		343	00:58		323
ma	15-3				7:02	26		07:08	36		08:09	36		08:27	36		7:04	22		07:57	34		07:27	34
ma	15-3			12:44		286	12:50		296	13:47		349	14:09		379	13:07		303	13:42		335	13:20		315
ma	15-3				19:11	30		19:17	40		20:20	41		20:38	41		19:15	26		20:08	38		19:38	38
di	16-3			0:53		296	00:59		306	01:57		361	02:19		391	1:16		309	01:51		341	01:29		321
di	16-3				7:27	28		07:33	38		08:38	37		08:56	37		7:30	25		08:23	37		07:53	37
di	16-3			13:12		290	13:18		300	14:18		356	14:40		386	13:36		306	14:11		338	13:49		318
di	16-3				19:34	28		19:40	38		20:48	36		21:06	36		19:38	26		20:31	38		20:01	38
wo	17-3			1:25		296	01:31		306	02:32		363	02:54		393	1:48		309	02:23		341	02:01		321
wo	17-3				7:52	27		07:58	37		09:05	34		09:23	34		7:55	25		08:48	37		08:18	37
wo	17-3			13:44		294	13:50		304	14:54		362	15:16		392	14:09		309	14:44		341	14:22		321
wo	17-3				20:01	27		20:07	37		21:18	34		21:36	34		20:06	26		20:59	38		20:29	38
do	18-3			2:00		294	02:06		304	03:09		361	03:31		391	2:23		307	02:58		339	02:36		319
do	18-3				8:21	32		08:27	42		09:36	38		09:54	38		8:24	31		09:17	43		08:47	43
do	18-3			14:20		294	14:26		304	15:32		362	15:54		392	14:45		308	15:20		340	14:58		320
do	18-3				20:34	33		20:40	43		21:51	41		22:09	41		20:39	33		21:32	45		21:02	45

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafens			
maand	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	19-3			2:37		288	02:43		298	03:45		355	04:07		385	3:00		300	03:35		332	03:13		312
	vr	19-3				8:52	47	08:58		57	10:07		55	10:25		55	8:56		46	09:49		58	09:19		58
	vr	19-3			14:59		289	15:05		299	16:08		356	16:30		386	15:23		302	15:58		334	15:36		314
	vr	19-3				21:10	48	21:16		58	22:25		58	22:43		58	21:16		49	22:09		61	21:39		61
	za	20-3			3:16		278	03:22		288	04:21		344	04:43		374	3:39		288	04:14		320	03:52		300
	za	20-3				9:24	67	09:30		77	10:41		78	10:59		78	9:29		68	10:22		80	09:52		80
	za	20-3	16:58	LK	15:42		282	15:48		292	16:44		350	17:06		380	16:04		294	16:39		326	16:17		306
	za	20-3				21:52	68	21:58		78	23:03		78	23:21		78	21:58		69	22:51		81	22:21		81
	zo	21-3			4:04		268	04:10		278	05:02		336	05:24		366	4:24		277	04:59		309	04:37		289
	zo	21-3				10:06	88	10:12		98	11:20		100	11:38		100	10:10		90	11:03		102	10:33		102
	zo	21-3			16:34		279	16:40		289	17:26		347	17:48		377	16:50		288	17:25		320	17:03		300
	zo	21-3				22:46	85	22:52		95	23:49		97	00:07		0	22:51		86	23:44		98	23:14		98
	ma	22-3			5:02		262	05:08		272	05:56		331	00:07		97	5:17		270	05:52		302	05:30		282
	ma	22-3				11:06	101	11:12		111	12:10		117	06:18		361	11:11		103	12:04		115	11:34		115
	ma	22-3			17:35		280	17:41		290	18:25		348	12:28		117	17:46		287	18:21		319	17:59		299
	ma	22-3				23:53	92	23:59		102	00:48		110	18:47		378	23:54		93	00:47		105	00:17		105
	di	23-3			6:08		263	06:14		273	00:48		110	01:06		110	23:54		93	00:47		105	00:17		105
	di	23-3				12:18	102	12:24		112	07:06		333	07:28		363	6:18		270	06:53		302	06:31		282
	di	23-3			18:45		287	18:51		297	13:14		124	13:32		124	12:18		103	13:11		115	12:41		115
	di	23-3				1:06	-10	01:12		0	19:42		354	20:04		384	18:53		293	19:28		325	19:06		305
	wo	24-3				1:06	86	01:12		96	02:02		109	02:20		109	1:04		86	01:57		98	01:27		98
	wo	24-3			7:24		270	07:30		280	08:22		341	08:44		371	7:31		276	08:06		308	07:44		288
	wo	24-3				13:36	89	13:42		99	14:39		113	14:57		113	13:30		90	14:23		102	13:53		102
	wo	24-3			20:03		298	20:09		308	21:04		367	21:26		397	20:14		304	20:49		336	20:27		316
	do	25-3				2:26	67	02:32		77	03:38		86	03:56		86	2:29		67	03:22		79	02:52		79
	do	25-3			8:44		281	08:50		291	09:42		352	10:04		382	8:56		287	09:31		319	09:09		299
	do	25-3				14:55	66	15:01		76	16:06		82	16:24		82	15:01		67	15:54		79	15:24		79
	do	25-3			21:12		308	21:18		318	22:18		379	22:40		409	21:25		317	22:00		349	21:38		329
	vr	26-3				4:35	40	04:41		50	05:43		50	06:01		50	4:42		38	05:35		50	05:05		50
	vr	26-3			10:49		289	10:55		299	11:56		361	12:18		391	11:00		299	11:35		331	11:13		311
	vr	26-3				16:58	45	17:04		55	18:04		54	18:22		54	17:05		42	17:58		54	17:28		54
	vr	26-3			23:07		311	23:13		321	00:17		0	00:39		0	23:19		323	23:54		355	23:32		335
	za	27-3				5:30	20	05:36		30	00:17		384	00:39		414	5:34		18	06:27		30	05:57		30
	za	27-3			11:41		290	11:47		300	06:35		30	06:53		30	11:51		303	12:26		335	12:04		315
	za	27-3				17:48	30	17:54		40	12:53		362	13:15		392	17:54		24	18:47		36	18:17		36
	za	27-3			23:54		308	00:00		318	18:53		38	19:11		38	0:06		323	00:41		355	00:19		335

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörh (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		
maand				HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
zo	28-3	4:57	NM	23:54		308	00:00		318	01:05		379	01:27		409	0:06		323	00:41		355	00:19		335
zo	28-3				6:17	10		06:23	20		07:21	20		07:39	20		6:21	-2		07:14	10		06:44	10
zo	28-3			12:25		286	12:31		296	13:39		356	14:01		386	12:36		302	13:11		334	12:49		314
zo	28-3				18:33	20		18:39	30		19:37	27		19:55	27		18:38	13		19:31	25		19:01	25
ma	29-3			0:33		304	00:39		314	01:45		372	02:07		402	0:49		321	01:24		353	01:02		333
ma	29-3				7:00	0		07:06	10		08:04	10		08:22	10		7:03	-2		07:56	10		07:26	10
ma	29-3			13:02		283	13:08		293	14:16		351	14:38		381	13:16		300	13:51		332	13:29		312
ma	29-3				19:14	10		19:20	20		20:19	16		20:37	16		19:18	4		20:11	16		19:41	16
di	30-3			1:09		306	01:15		316	02:19		372	02:41		402	1:28		322	02:03		354	01:41		334
di	30-3				7:41	0		07:47	10		08:45	0		09:03	0		7:43	-12		08:36	0		08:06	0
di	30-3			13:35		286	13:41		296	14:46		353	15:08		383	13:54		302	14:29		334	14:07		314
di	30-3				19:53	0		19:59	10		20:59	3		21:17	3		19:56	-5		20:49	7		20:19	7
wo	31-3			1:48		310	01:54		320	02:54		378	03:16		408	2:07		326	02:42		358	02:20		338
wo	31-3				8:20	-10		08:26	0		09:24	0		09:42	0		8:21	-12		09:14	0		08:44	0
wo	31-3			14:11		292	14:17		302	15:16		361	15:38		391	14:32		307	15:07		339	14:45		319
wo	31-3				20:31	-8		20:37	2		21:40	0		21:58	0		20:33	-12		21:26	0		20:56	0

getijden 2016				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
do	1-4			2:31		312	02:37		322	03:35		382	03:57		412	2:49		326	03:24		358	03:02		338
do	1-4				8:57	0		09:03	10		10:04	0		10:22	0		8:57	-12		09:50	0		09:20	0
do	1-4			14:52		294	14:58		304	15:55		367	16:17		397	15:12		307	15:47		339	15:25		319
do	1-4				21:10	-8		21:16	2		22:20	0		22:38	0		21:11	-10		22:04	0		21:34	0
vr	2-4			3:18		304	03:24		314	04:21		375	04:43		405	3:33		317	04:08		349	03:46		329
vr	2-4				9:34	10		09:40	20		10:42	10		11:00	10		9:33	-2		10:26	10		09:56	10
vr	2-4			15:37		289	15:43		299	16:40		363	17:02		393	15:55		300	16:30		332	16:08		312
vr	2-4				21:51	1		21:57	11		23:01	10		23:19	10		21:51	-3		22:44	9		22:14	9
za	3-4			4:09		287	04:15		297	05:13		357	05:35		387	4:22		298	04:57		330	04:35		310
za	3-4				10:12	20		10:18	30		11:21	30		11:39	30		10:11	18		11:04	30		10:34	30
za	3-4			16:27		277	16:33		287	17:30		350	17:52		380	16:43		286	17:18		318	16:56		298
za	3-4	20:39	EK		22:37	17		22:43	27		23:46	33		00:04	0		22:37	15		23:30	27		23:00	27
zo	4-4			5:07		266	05:13		276	06:10		334		00:04	30	5:20		274	05:55		306	05:33		286
zo	4-4				10:56	40		11:02	50		12:04	60	06:32		364		10:58	38		11:51	50		11:21	50
zo	4-4			17:26		264	17:32		274	18:27		334		12:22	66	17:42		270	18:17		302	17:55		282
zo	4-4				23:38	35		23:44	45		00:47	50	18:49		364		23:43	28		00:36	40		00:06	40
ma	5-4			6:16		250	06:22		260		00:47	50	01:05		50		23:43	28		00:36	40		00:06	40
ma	5-4				12:24	60		12:30	70	07:17		316	07:39		346	6:33		256	07:08		288	06:46		268
ma	5-4			18:37		257	18:43		267		13:21	90	13:39		90		12:38	63		13:31	75		13:01	75
ma	5-4				1:22	-10		01:28	0	19:36		324	19:58		354	18:59		261	19:34		293	19:12		273
di	6-4				1:22	40		01:28	50		02:19	60		02:37	60		1:28	38		02:21	50		01:51	50
di	6-4			7:33		247	07:39		257	08:38		312	09:00		342	7:52		254	08:27		286	08:05		266
di	6-4				13:57	60		14:03	70		14:55	87		15:13	87		14:02	60		14:55	72		14:25	72
di	6-4			19:59		262	20:05		272	21:07		329	21:29		359	20:19		269	20:54		301	20:32		281
wo	7-4				2:35	30		02:41	40		03:35	50		03:53	50		2:39	28		03:32	40		03:02	40
wo	7-4			8:56		260	09:02		270	09:59		328	10:21		358	9:10		268	09:45		300	09:23		280
wo	7-4				15:07	47		15:13	57		16:09	68		16:27	68		15:11	47		16:04	59		15:34	59
wo	7-4			21:18		280	21:24		290	22:22		350	22:44		380	21:32		288	22:07		320	21:45		300
do	8-4				3:51	20		03:57	30		04:54	30		05:12	30		3:55	18		04:48	30		04:18	30
do	8-4			10:03		279	10:09		289	11:06		349	11:28		379	10:16		289	10:51		321	10:29		301
do	8-4				16:21	31		16:27	41		17:23	44		17:41	44		16:25	31		17:18	43		16:48	43
do	8-4			22:18		297	22:24		307	23:22		370	23:44		400	22:32		308	23:07		340	22:45		320
vr	9-4				4:59	0		05:05	10		05:59	10		06:17	10		5:01	8		05:54	20		05:24	20
vr	9-4			10:58		292	11:04		302	12:10		363	12:32		393	11:11		305	11:46		337	11:24		317
vr	9-4				17:21	19		17:27	29		18:22	25		18:40	25		17:23	17		18:16	29		17:46	29
vr	9-4			23:09		305	23:15		315	00:16		0	00:38		0	23:25		317	00:00		0	23:38		329

getijden 2016				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"			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	10-4				5:49	0		05:55	10	00:16		376	00:38		406		5:50	-2	00:00		349		06:13	10
za	10-4			11:46		294	11:52		304	06:50	0		07:08	0		11:59		310	06:43	10	12:12		322	
za	10-4				18:08	16		18:14	26	13:10		363	13:32		393	18:10	13	12:34		342	18:33		25	
za	10-4			23:51		301	23:57		311	19:10	22		19:28	22		0:10		315	19:03	25	00:23		327	
zo	11-4				6:30	10		06:36	20	01:01		369	01:23		399	0:10		315	00:45	347	00:23		327	
zo	11-4	8:08	VM	12:23		289	12:29		299	07:34	10		07:52	10		6:32	8	07:25	20		06:55		20	
zo	11-4				18:47	21		18:53	31	13:52		354	14:14		384	12:39		306	13:14	338	12:52		318	
zo	11-4			0:25		294	00:31		304	19:50	31		20:08	31		18:49	16	19:42	28		19:12		28	
ma	12-4			0:25		294	00:31		304	01:29		358	01:51		388	0:48		307	01:23	339	01:01		319	
ma	12-4				7:04	20		07:10	30	08:10	20		08:28	20		7:07	8	08:00	20		07:30		20	
ma	12-4			12:48		286	12:54		296	13:51		348	14:13		378	13:10		302	13:45	334	13:23		314	
ma	12-4				19:19	25		19:25	35	20:24	38		20:42	38		19:22	21	20:15	33		19:45		33	
di	13-4			0:54		290	01:00		300	01:54		356	02:16		386	1:19		303	01:54	335	01:32		315	
di	13-4				7:31	20		07:37	30	08:39	30		08:57	30		7:34	18	08:27	30		07:57		30	
di	13-4			13:11		291	13:17		301	14:13		357	14:35		387	13:36		305	14:11	337	13:49		317	
di	13-4				19:43	23		19:49	33	20:52	34		21:10	34		19:47	21	20:40	33		20:10		33	
wo	14-4			1:25		293	01:31		303	02:27		361	02:49		391	1:49		304	02:24	336	02:02		316	
wo	14-4				7:55	20		08:01	30	09:06	30		09:24	30		7:59	18	08:52	30		08:22		30	
wo	14-4			13:43		300	13:49		310	14:49		371	15:11		401	14:06		314	14:41	346	14:19		326	
wo	14-4				20:08	19		20:14	29	21:21	26		21:39	26		20:12	18	21:05	30		20:35		30	
do	15-4			2:01		297	02:07		307	03:06		367	03:28		397	2:23		309	02:58	341	02:36		321	
do	15-4				8:24	20		08:30	30	09:35	20		09:53	20		8:27	18	09:20	30		08:50		30	
do	15-4			14:20		306	14:26		316	15:29		380	15:51		410	14:42		321	15:17	353	14:55		333	
do	15-4				20:38	22		20:44	32	21:53	26		22:11	26		20:43	21	21:36	33		21:06		33	
vr	16-4			2:40		295	02:46		305	03:47		366	04:09		396	3:00		308	03:35	340	03:13		320	
vr	16-4				8:56	30		09:02	40	10:06	30		10:24	30		8:58	28	09:51	40		09:21		40	
vr	16-4			14:58		305	15:04		315	16:09		379	16:31		409	15:19		320	15:54	352	15:32		332	
vr	16-4				21:12	36		21:18	46	22:26	42		22:44	42		21:17	34	22:10	46		21:40		46	
za	17-4			3:17		288	03:23		298	04:25		357	04:47		387	3:36		301	04:11	333	03:49		313	
za	17-4				9:25	50		09:31	60	10:38	60		10:56	60		9:29	48	10:22	60		09:52		60	
za	17-4			15:34		300	15:40		310	16:44		371	17:06		401	15:54		314	16:29	346	16:07		326	
za	17-4				21:46	55		21:52	65	23:00	64		23:18	64		21:52	54	22:45	66		22:15		66	
zo	18-4			3:54		278	04:00		288	05:00		346	05:22		376	4:13		291	04:48	323	04:26		303	
zo	18-4				9:51	70		09:57	80	11:09	80		11:27	80		9:56	68	10:49	80		10:19		80	
zo	18-4			16:10		295	16:16		305	17:17		365	17:39		395	16:29		308	17:04	340	16:42		320	
zo	18-4				22:24	72		22:30	82	23:35	83		23:53	83		22:30	73	23:23	85		22:53		85	

getijden 2016				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"			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	19-4			4:35		271	04:41		281	05:37		338	05:59		368	4:53		282	05:28		314	05:06		294
ma	19-4	11:57	LK		10:27	80		10:33	90		11:46	100		12:04	100		10:29	88		11:22	100		10:52	100
ma	19-4			16:55		294	17:01		304	17:56		364	18:18		394	17:11		305	17:46		337	17:24		317
ma	19-4				23:14	82		23:20	92		00:19	90		00:37	90		23:18	83		00:11	90		23:41	95
di	20-4			5:28		268	05:34		278		00:19	90		00:37	90	5:41		278		00:11	90	05:54		290
di	20-4				11:25	90		11:31	100	06:25		336	06:47		366		11:29	98	06:16		310		11:52	110
di	20-4			17:52		296	17:58		306		12:34	107		12:52	107	18:03		305		12:22	111	18:16		317
di	20-4				0:16	80		00:22	90	18:48		366	19:10		396		0:18	-12	18:38		337		00:41	0
wo	21-4				0:16	80		00:22	90		01:13	90		01:31	90		0:18	78		01:11	90		00:41	90
wo	21-4			6:31		270	06:37		280	07:32		339	07:54		369	6:39		279	07:14		311	06:52		291
wo	21-4				12:35	93		12:41	103		13:33	108		13:51	108		12:37	94		13:30	106		13:00	106
wo	21-4			18:58		300	19:04		310	20:00		369	20:22		399	19:05		308	19:40		340	19:18		320
do	22-4				1:24	70		01:30	80		02:19	90		02:37	90		1:24	68		02:17	80		01:47	80
do	22-4			7:45		276	07:51		286	08:52		347	09:14		377	7:47		284	08:22		316	08:00		296
do	22-4				13:47	80		13:53	90		14:45	101		15:03	101		13:46	80		14:39	92		14:09	92
do	22-4			20:17		305	20:23		315	21:25		376	21:47		406	20:20		313	20:55		345	20:33		325
vr	23-4				2:38	50		02:44	60		03:42	70		04:00	70		2:38	48		03:31	60		03:01	60
vr	23-4			9:08		284	09:14		294	10:10		357	10:32		387	9:12		292	09:47		324	09:25		304
vr	23-4				15:04	61		15:10	71		16:14	81		16:32	81		15:04	61		15:57	73		15:27	73
vr	23-4			21:34		310	21:40		320	22:39		383	23:01		413	21:42		319	22:17		351	21:55		331
za	24-4				3:51	30		03:57	40		05:00	40		05:18	40		3:58	28		04:51	40		04:21	40
za	24-4			10:17		291	10:23		301	11:23		365	11:45		395	10:25		301	11:00		333	10:38		313
za	24-4				16:15	43		16:21	53		17:24	55		17:42	55		16:25	40		17:18	52		16:48	52
za	24-4			22:34		311	22:40		321	23:42		385	00:04		0	22:45		324	23:20		356	22:58		336
zo	25-4				4:53	10		04:59	20		05:58	20		00:04	415		4:59	8		05:52	20		05:22	20
zo	25-4			11:12		291	11:18		301	12:22		366		06:16	20	11:20		305	11:55		337	11:33		317
zo	25-4				17:14	29		17:20	39		18:19	39		12:44	396		17:22	23		18:15	35		17:45	35
zo	25-4			23:23		307	23:29		317	00:34		380		18:37	39	23:36		324	00:11		356	23:49		336
ma	26-4				5:45	10		05:51	20	00:34		380	00:56		410		5:50	-2	00:11		356		06:13	10
ma	26-4			11:57		288	12:03		298		06:49	10		07:07	10	12:07		305		06:43	10	12:20		317
ma	26-4	14:16	NM		18:04	19		18:10	29	13:10		361	13:32		391		18:10	11	12:42		337		18:33	23
ma	26-4			0:06		305	00:12		315		19:09	27		19:27	27	0:22		-12		19:03	23	00:35		0
di	27-4			0:06		305	00:12		315	01:18		375	01:40		405	0:22		323	00:57		355	00:35		335
di	27-4				6:33	0		06:39	10		07:36	10		07:54	10		6:36	-2		07:29	10		06:59	10
di	27-4			12:35		288	12:41		298	13:50		358	14:12		388	12:50		306	13:25		338	13:03		318
di	27-4				18:50	6		18:56	16		19:55	13		20:13	13		18:55	1		19:48	13		19:18	13

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörh (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		
			maan	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
wo	28-4			0:46		307	00:52		317	01:58		374	02:20		404	1:06		324	01:41		356	01:19		336
wo	28-4				7:17	-10		07:23	0		08:20	0		08:38	0		7:19	-12		08:12	0		07:42	0
wo	28-4			13:11		293	13:17		303	14:24		362	14:46		392	13:30		310	14:05		342	13:43		322
wo	28-4				19:34	-6		19:40	4		20:40	0		20:58	0		19:37	-10		20:30	2		20:00	2
do	29-4			1:30		310	01:36		320	02:39		377	03:01		407	1:49		326	02:24		358	02:02		338
do	29-4				8:00	-10		08:06	0		09:04	0		09:22	0		8:00	-12		08:53	0		08:23	0
do	29-4			13:51		300	13:57		310	14:59		370	15:21		400	14:12		315	14:47		347	14:25		327
do	29-4				20:17	-10		20:23	0		21:25	-10		21:43	-10		20:18	-12		21:11	0		20:41	0
vr	30-4			2:17		307	02:23		317	03:23		376	03:45		406	2:35		322	03:10		354	02:48		334
vr	30-4				8:41	-10		08:47	0		09:47	0		10:05	0		8:39	-12		09:32	0		09:02	0
vr	30-4			14:35		302	14:41		312	15:40		376	16:02		406	14:55		316	15:30		348	15:08		328
vr	30-4				21:01	-10		21:07	0		22:10	0		22:28	0		20:59	-12		21:52	0		21:22	0

getijden 2016				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"		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	1-5			3:07		297	03:13		307	04:11		366	04:33		396	3:23		311	03:58		343	03:36		323	
za	1-5				9:22	0		09:28	10		10:29	10		10:47	10		9:18	-2		10:11	10		09:41	10	
za	1-5			15:23		297	15:29		307	16:26		373	16:48		403	15:41		309	16:16		341	15:54		321	
za	1-5				21:46	-2		21:52	8		22:56	7		23:14	7		21:43	-6		22:36	6		22:06	6	
zo	2-5			4:00		280	04:06		290	05:03		349	05:25		379	4:15		292	04:50		324	04:28		304	
zo	2-5				10:03	20		10:09	30		11:12	40		11:30	40		9:58	18		10:51	30		10:21	30	
zo	2-5			16:14		287	16:20		297	17:16		363	17:38		393	16:31		297	17:06		329	16:44		309	
zo	2-5				22:39	15		22:45	25		23:48	31		00:06	30		22:36	13		23:29	25		22:59	25	
ma	3-5	4:47	EK	4:58		262	05:04		272	05:59		330	06:06		30	5:13		273	05:48		305	05:26		285	
ma	3-5				10:53	40		10:59	50		12:01	60		06:21	360		10:50	38		11:43	50		11:13	50	
ma	3-5			17:12		277	17:18		287	18:12		351	18:19		68	17:30		285	18:05		317	17:43		297	
ma	3-5				23:52	31		23:58	41		00:52	0		18:34	381		23:55	28		00:48	40		00:18	40	
di	4-5			6:01		253	06:07		263			50		01:10	50		23:55	28		00:48	40		00:18	40	
di	4-5				12:19	50		12:25	60		07:03	319		07:25	349		6:18		262	06:53		294	06:31		274
di	4-5			18:17		273	18:23		283		13:16	85		13:34	85		12:23	58		13:16	70		12:46	70	
di	4-5				1:03	30		01:09	40		19:19	345		19:41	375		18:38		281	19:13		313	18:51		293
wo	5-5				1:03	30		01:09	40		02:01	50		02:19	50		1:06	28		01:59	40		01:29	40	
wo	5-5			7:11		254	07:17		264	08:20		322	08:42		352	7:26		263	08:01		295	07:39		275	
wo	5-5				13:31	57		13:37	67		14:28	82		14:46	82		13:33	56		14:26	68		13:56	68	
wo	5-5			19:32		279	19:38		289	20:42		351	21:04		381	19:50		287	20:25		319	20:03		299	
do	6-5				2:07	30		02:13	40		03:07	40		03:25	40		2:09	28		03:02	40		02:32	40	
do	6-5			8:28		266	08:34		276	09:35		339	09:57		369	8:38		275	09:13		307	08:51		287	
do	6-5				14:35	47		14:41	57		15:36	68		15:54	68		14:38	48		15:31	60		15:01	60	
do	6-5			20:49		292	20:55		302	21:55		368	22:17		398	21:00		301	21:35		333	21:13		313	
vr	7-5				3:14	20		03:20	30		04:18	30		04:36	30		3:16	18		04:09	30		03:39	30	
vr	7-5			9:36		282	09:42		292	10:40		356	11:02		386	9:46		292	10:21		324	09:59		304	
vr	7-5				15:46	35		15:52	45		16:49	50		17:07	50		15:51	36		16:44	48		16:14	48	
vr	7-5			21:52		302	21:58		312	22:55		379	23:17		409	22:04		312	22:39		344	22:17		324	
za	8-5				4:26	10		04:32	20		05:26	10		05:44	10		4:29	8		05:22	20		04:52	20	
za	8-5			10:32		291	10:38		301	11:41		364	12:03		394	10:44		304	11:19		336	10:57		316	
za	8-5				16:51	24		16:57	34		17:52	34		18:10	34		16:55	23		17:48	35		17:18	35	
za	8-5			22:43		302	22:49		312	23:49		376	00:11		406	22:59		314	23:34		346	23:12		326	
zo	9-5				5:18	10		05:24	20		06:19	10		06:37	10		5:21	8		06:14	20		05:44	20	
zo	9-5			11:19		290	11:25		300	12:37		360		06:37	10	11:32		306	12:07		338	11:45		318	
zo	9-5				17:40	21		17:46	31		18:41	29		12:59	390		17:43	18		18:36	30		18:06	30	
zo	9-5			23:26		293	23:32		303	00:32		0		18:59	29	23:45		307	00:20		0	23:58		319	

getijden 2016				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"		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	10-5				6:00	10		06:06	20	00:32		362	00:54		392		6:02	8	00:20		339		06:25	20
ma	10-5			11:53		285	11:59		295		07:03	20		07:21	20	12:11		301		06:55	20	12:24		313
ma	10-5				18:20	23		18:26	33	13:09		351	13:31		381		18:22	20	12:46		333		18:45	32
ma	10-5	23:43	VM	23:54		284	00:03		294		19:22	34		19:40	34	0:22		-12		19:15	32	00:35		0
di	11-5			23:54		284	00:03		294	00:58		350	01:20		380	0:22		298	00:57		330	00:35		310
di	11-5				6:32	20		06:38	30		07:38	30		07:56	30		6:36	18		07:29	30		06:59	30
di	11-5			12:15		285	12:21		295	13:17		351	13:39		381	12:40		301	13:15		333	12:53		313
di	11-5				18:51	25		18:57	35		19:55	36		20:13	36		18:54	22		19:47	34		19:17	34
wo	12-5			0:26		283	00:32		293	01:24		352	01:46		382	0:53		296	01:28		328	01:06		308
wo	12-5				6:59	20		07:05	30		08:09	30		08:27	30		7:03	18		07:56	30		07:26	30
wo	12-5			12:42		296	12:48		306	13:45		367	14:07		397	13:07		309	13:42		341	13:20		321
wo	12-5				19:17	22		19:23	32		20:26	31		20:44	31		19:21	20		20:14	32		19:44	32
do	13-5			1:01		291	01:07		301	02:01		362	02:23		392	1:24		302	01:59		334	01:37		314
do	13-5				7:28	10		07:34	20		08:38	20		08:56	20		7:31	18		08:24	30		07:54	30
do	13-5			13:19		309	13:25		319	14:25		385	14:47		415	13:40		323	14:15		355	13:53		335
do	13-5				19:46	19		19:52	29		20:57	24		21:15	24		19:49	18		20:42	30		20:12	30
vr	14-5			1:42		298	01:48		308	02:45		372	03:07		402	2:01		310	02:36		342	02:14		322
vr	14-5				8:01	20		08:07	30		09:10	20		09:28	20		8:03	18		08:56	30		08:26	30
vr	14-5			14:00		317	14:06		327	15:08		395	15:30		425	14:18		331	14:53		363	14:31		343
vr	14-5				20:20	25		20:26	35		21:31	28		21:49	28		20:23	25		21:16	37		20:46	37
za	15-5			2:24		298	02:30		308	03:29		373	03:51		403	2:40		311	03:15		343	02:53		323
za	15-5				8:35	30		08:41	40		09:43	40		10:01	40		8:37	38		09:30	50		09:00	50
za	15-5			14:40		316	14:46		326	15:49		394	16:11		424	14:56		331	15:31		363	15:09		343
za	15-5				20:54	41		21:00	51		22:06	47		22:24	47		20:59	40		21:52	52		21:22	52
zo	16-5			3:03		291	03:09		301	04:09		363	04:31		393	3:17		304	03:52		336	03:30		316
zo	16-5				9:04	50		09:10	60		10:15	60		10:33	60		9:09	58		10:02	70		09:32	70
zo	16-5			15:16		310	15:22		320	16:25		385	16:47		415	15:30		325	16:05		357	15:43		337
zo	16-5				21:29	59		21:35	69		22:39	68		22:57	68		21:34	58		22:27	70		21:57	70
ma	17-5			3:38		280	03:44		290	04:45		350	05:07		380	3:52		294	04:27		326	04:05		306
ma	17-5				9:31	70		09:37	80		10:46	80		11:04	80		9:38	68		10:31	80		10:01	80
ma	17-5			15:48		305	15:54		315	16:58		378	17:20		408	16:04		319	16:39		351	16:17		331
ma	17-5				22:05	70		22:11	80		23:15	79		23:33	79		22:11	70		23:04	82		22:34	82
di	18-5			4:16		273	04:22		283	05:21		341	05:43		371	4:30		287	05:05		319	04:43		299
di	18-5				10:07	80		10:13	90		11:23	90		11:41	90		10:13	78		11:06	90		10:36	90
di	18-5			16:29		305	16:35		315	17:35		378	17:57		408	16:43		318	17:18		350	16:56		330
di	18-5				22:51	71		22:57	81		23:56	79		00:14	0		22:56	72		23:49	84		23:19	84

getijden 2016				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		
wo	19-5	2:33	LK	5:03		272	05:09		282	06:05		340		00:14	70	5:16		285	05:51		317	05:29		297
wo	19-5				11:00	80		11:06	90		12:09	80	06:27		370		11:05	78		11:58	90		11:28	90
wo	19-5			17:21		307	17:27		317	18:24		380		12:27	87	17:33		319	18:08		351	17:46		331
wo	19-5				23:47	64		23:53	74		00:47	0	18:46		410		23:50	58		00:43	70		00:13	70
do	20-5			6:01		275	06:07		285		00:47	70		01:05	70		23:50	58		00:43	70		00:13	70
do	20-5				12:03	70		12:09	80	07:06		342	07:28		372	6:10		287	06:45		319	06:23		299
do	20-5			18:21		309	18:27		319		13:04	83		13:22	83		12:07	76		13:00	88		12:30	88
do	20-5				0:49	50		00:55	0	19:28		380	19:50		410	18:31		320	19:06		352	18:44		332
vr	21-5				0:49	50		00:55	60		01:47	60		02:05	60		0:51	48		01:44	60		01:14	60
vr	21-5			7:09		279	07:15		289	08:23		349	08:45		379	7:12		290	07:47		322	07:25		302
vr	21-5				13:10	64		13:16	74		14:09	80		14:27	80		13:11	65		14:04	77		13:34	77
vr	21-5			19:31		309	19:37		319	20:49		381	21:11		411	19:36		320	20:11		352	19:49		332
za	22-5				1:57	40		02:03	50		02:59	50		03:17	50		1:58	38		02:51	50		02:21	50
za	22-5			8:29		284	08:35		294	09:36		358	09:58		388	8:28		294	09:03		326	08:41		306
za	22-5				14:21	54		14:27	64		15:27	72		15:45	72		14:22	54		15:15	66		14:45	66
za	22-5			20:49		309	20:55		319	22:01		384	22:23		414	20:54		320	21:29		352	21:07		332
zo	23-5				3:09	20		03:15	30		04:17	30		04:35	30		3:13	18		04:06	30		03:36	30
zo	23-5			9:40		289	09:46		299	10:47		364	11:09		394	9:46		300	10:21		332	09:59		312
zo	23-5				15:33	42		15:39	52		16:43	56		17:01	56		15:42	41		16:35	53		16:05	53
zo	23-5			21:56		308	22:02		318	23:06		384	23:28		414	22:07		321	22:42		353	22:20		333
ma	24-5				4:14	10		04:20	20		05:20	20		05:38	20		4:22	8		05:15	20		04:45	20
ma	24-5			10:39		290	10:45		300	11:48		366	12:10		396	10:48		304	11:23		336	11:01		316
ma	24-5				16:37	31		16:43	41		17:44	41		18:02	41		16:48	27		17:41	39		17:11	39
ma	24-5			22:51		306	22:57		316	00:01		0	00:23		0	23:06		321	23:41		353	23:19		333
di	25-5				5:11	10		05:17	20		06:16	10		06:34	10		5:18	8		06:11	20		05:41	20
di	25-5			11:27		290	11:33		300		06:16	10		06:34	10	11:39		306	12:14		338	11:52		318
di	25-5				17:34	20		17:40	30	12:38		364	13:00		394		17:43	15		18:36	27		18:06	27
di	25-5	21:44	NM	23:40		304	23:46		314	18:39		28	18:57		28	23:57		321	00:32		353	00:10		333
wo	26-5				6:04	0		06:10	10	00:51		377	01:13		407	23:57		321	00:32		353	00:10		333
wo	26-5			12:09		292	12:15		302		07:08	10		07:26	10		6:09	-2		07:02	10		06:32	10
wo	26-5				18:27	6		18:33	16	13:22		364	13:44		394	12:25		309	13:00		341	12:38		321
wo	26-5			0:27		305	00:33		315		19:32	14		19:50	14		18:33	2		19:26	14		18:56	14
do	27-5			0:27		305	00:33		315	01:38		374	02:00		404	0:46		321	01:21		353	00:59		333
do	27-5				6:54	0		07:00	10		07:58	0		08:16	0		6:57	-2		07:50	10		07:20	10
do	27-5			12:50		298	12:56		308	14:02		369	14:24		399	13:09		315	13:44		347	13:22		327
do	27-5				19:18	-8		19:24	2		20:23	0		20:41	0		19:20	-10		20:13	2		19:43	2

getijden 2016				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
vr	28-5			1:16		305	01:22		315	02:24		373	02:46		403	1:34		321	02:09		353	01:47		333
vr	28-5				7:42	-10		07:48	0		08:46	0		09:04	0		7:43	-12		08:36	0		08:06	0
vr	28-5			13:34		305	13:40		315	14:43		376	15:05		406	13:54		320	14:29		352	14:07		332
vr	28-5				20:08	-10		20:14	0		21:14	-10		21:32	-10		20:08	-12		21:01	0		20:31	0
za	29-5			2:07		300	02:13		310	03:13		367	03:35		397	2:24		316	02:59		348	02:37		328
za	29-5				8:29	0		08:35	10		09:34	0		09:52	0		8:27	-2		09:20	10		08:50	10
za	29-5			14:21		307	14:27		317	15:27		379	15:49		409	14:40		321	15:15		353	14:53		333
za	29-5				20:57	-10		21:03	0		22:03	0		22:21	0		20:55	-12		21:48	0		21:18	0
zo	30-5			2:58		290	03:04		300	04:02		357	04:24		387	3:14		306	03:49		338	03:27		318
zo	30-5				9:15	10		09:21	20		10:21	20		10:39	20		9:12	8		10:05	20		09:35	20
zo	30-5			15:10		303	15:16		313	16:13		376	16:35		406	15:28		316	16:03		348	15:41		328
zo	30-5				21:47	-1		21:53	9		22:52	8		23:10	8		21:45	-2		22:38	10		22:08	10
ma	31-5			3:50		277	03:56		287	04:53		343	05:15		373	4:05		292	04:40		324	04:18		304
ma	31-5				10:02	20		10:08	30		11:08	40		11:26	40		9:58	18		10:51	30		10:21	30
ma	31-5			16:00		296	16:06		306	17:03		370	17:25		400	16:18		308	16:53		340	16:31		320
ma	31-5				22:40	16		22:46	26		23:43	29		00:01	0		22:39	14		23:32	26		23:02	26

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafem		
maand		dag datum		HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
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"			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E		
di	1-6			4:43		266	04:49		276	05:46		332		00:01	20	4:59		279	05:34		311	05:12		291
di	1-6				10:53	40		10:59	50		11:57	60	06:08		362		10:53	38		11:46	50		11:16	50
di	1-6	14:42	EK	16:54		290	17:00		300	17:56		364		12:15	65	17:12		301	17:47		333	17:25		313
di	1-6				23:36	29		23:42	39		00:36	40		00:54	40		23:37	28		00:30	40		00:00	40
wo	2-6			5:40		261	05:46		271		00:36	40		00:54	40		23:37	28		00:30	40		00:00	40
wo	2-6				11:53	50		11:59	60	06:45		328	07:07		358	5:54		273	06:29		305	06:07		285
wo	2-6			17:53		288	17:59		298		12:54	77		13:12	77		11:56	53		12:49	65		12:19	65
wo	2-6				0:33	-10		00:39	0	18:58		362	19:20		392	18:12		299	18:47		331	18:25		311
do	3-6				0:33	30		00:39	40		01:32	50		01:50	50		0:35	28		01:28	40		00:58	40
do	3-6			6:41		263	06:47		273	07:50		332	08:12		362	6:53		275	07:28		307	07:06		287
do	3-6				12:56	54		13:02	64		13:54	77		14:12	77		12:58	54		13:51	66		13:21	66
do	3-6			18:58		291	19:04		301	20:09		365	20:31		395	19:14		302	19:49		334	19:27		314
vr	4-6				1:31	30		01:37	40		02:30	40		02:48	40		1:31	28		02:24	40		01:54	40
vr	4-6			7:47		270	07:53		280	08:58		342	09:20		372	7:55		282	08:30		314	08:08		294
vr	4-6				13:57	49		14:03	59		14:56	70		15:14	70		13:58	49		14:51	61		14:21	61
vr	4-6			20:09		294	20:15		304	21:19		371	21:41		401	20:19		306	20:54		338	20:32		318
za	5-6				2:30	20		02:36	30		03:32	40		03:50	40		2:29	28		03:22	40		02:52	40
za	5-6			8:56		278	09:02		288	10:02		352	10:24		382	9:03		290	09:38		322	09:16		302
za	5-6				15:00	42		15:06	52		16:02	60		16:20	60		15:03	42		15:56	54		15:26	54
za	5-6			21:16		295	21:22		305	22:21		372	22:43		402	21:26		307	22:01		339	21:39		319
zo	6-6				3:35	20		03:41	30		04:39	30		04:57	30		3:36	18		04:29	30		03:59	30
zo	6-6			9:57		283	10:03		293	11:01		355	11:23		385	10:07		297	10:42		329	10:20		309
zo	6-6				16:11	34		16:17	44		17:11	49		17:29	49		16:17	33		17:10	45		16:40	45
zo	6-6			22:13		290	22:19		300	23:16		364	23:38		394	22:26		304	23:01		336	22:39		316
ma	7-6				4:37	20		04:43	30		05:40	30		05:58	30		4:42	18		05:35	30		05:05	30
ma	7-6			10:46		283	10:52		293	11:53		352	12:15		382	10:58		299	11:33		331	11:11		311
ma	7-6				17:07	30		17:13	40		18:07	42		18:25	42		17:12	27		18:05	39		17:35	39
ma	7-6			22:58		281	23:04		291	00:02		0	00:24		0	23:16		296	23:51		328	23:29		308
di	8-6				5:23	20		05:29	30	00:02		350	00:24		380		5:28	18		06:21	30		05:51	30
di	8-6			11:20		281	11:26		291		06:27	30		06:45	30	11:38		299	12:13		331	11:51		311
di	8-6				17:49	31		17:55	41	12:27		348	12:49		378		17:53	27		18:46	39		18:16	39
di	8-6			23:31		275	23:37		285		18:51	41		19:09	41	23:56		291	00:31		323	00:09		303
wo	9-6				5:59	30		06:05	40	00:31		342	00:53		372	23:56		291	00:31		323	00:09		303
wo	9-6			11:45		287	11:51		297		07:06	30		07:24	30		6:04	28		06:57	40		06:27	40
wo	9-6	15:10	VM		18:23	31		18:29	41	12:50		355	13:12		385	12:09		303	12:44		335	12:22		315
wo	9-6			0:01		279	00:07		289		19:28	41		19:46	41		18:27	28		19:20	40		18:50	40

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maand		dag datum		HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
fase		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"			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	10-6			0:01		279	00:07		289	01:00		348	01:22		378	0:29		293	01:04		325	00:42		305
do	10-6				6:31	30		06:37	40		07:41	40		07:59	40		6:35	28		07:28	40		06:58	40
do	10-6			12:17		301	12:23		311	13:23		372	13:45		402	12:41		316	13:16		348	12:54		328
do	10-6				18:54	29		19:00	39		20:03	37		20:21	37		18:57	27		19:50	39		19:20	39
vr	11-6			0:40		290	00:46		300	01:40		361	02:02		391	1:04		303	01:39		335	01:17		315
vr	11-6				7:05	20		07:11	30		08:15	30		08:33	30		7:08	28		08:01	40		07:31	40
vr	11-6			12:58		315	13:04		325	14:04		391	14:26		421	13:18		330	13:53		362	13:31		342
vr	11-6				19:27	28		19:33	38		20:38	34		20:56	34		19:30	27		20:23	39		19:53	39
za	12-6			1:24		298	01:30		308	02:25		373	02:47		403	1:42		312	02:17		344	01:55		324
za	12-6				7:41	30		07:47	40		08:49	30		09:07	30		7:43	28		08:36	40		08:06	40
za	12-6			13:41		323	13:47		333	14:48		400	15:10		430	13:58		338	14:33		370	14:11		350
za	12-6				20:04	34		20:10	44		21:13	39		21:31	39		20:07	32		21:00	44		20:30	44
zo	13-6			2:07		299	02:13		309	03:10		374	03:32		404	2:22		314	02:57		346	02:35		326
zo	13-6				8:16	40		08:22	50		09:23	50		09:41	50		8:19	38		09:12	50		08:42	50
zo	13-6			14:22		321	14:28		331	15:28		399	15:50		429	14:36		338	15:11		370	14:49		350
zo	13-6				20:39	46		20:45	56		21:48	52		22:06	52		20:43	43		21:36	55		21:06	55
ma	14-6			2:47		291	02:53		301	03:51		364	04:13		394	2:59		307	03:34		339	03:12		319
ma	14-6				8:47	60		08:53	70		09:55	60		10:13	60		8:52	58		09:45	70		09:15	70
ma	14-6			14:57		315	15:03		325	16:04		391	16:26		421	15:09		331	15:44		363	15:22		343
ma	14-6				21:14	57		21:20	67		22:21	66		22:39	66		21:18	53		22:11	65		21:41	65
di	15-6			3:23		281	03:29		291	04:26		351	04:48		381	3:34		297	04:09		329	03:47		309
di	15-6				9:16	60		09:22	70		10:27	70		10:45	70		9:24	68		10:17	80		09:47	80
di	15-6			15:29		310	15:35		320	16:38		384	17:00		414	15:42		327	16:17		359	15:55		339
di	15-6				21:49	61		21:55	71		22:56	71		23:14	71		21:54	57		22:47	69		22:17	69
wo	16-6			3:57		274	04:03		284	05:02		342	05:24		372	4:10		290	04:45		322	04:23		302
wo	16-6				9:52	60		09:58	70		11:04	70		11:22	70		9:59	68		10:52	80		10:22	80
wo	16-6			16:07		309	16:13		319	17:15		383	17:37		413	16:20		326	16:55		358	16:33		338
wo	16-6				22:30	56		22:36	66		23:36	65		23:54	65		22:35	54		23:28	66		22:58	66
do	17-6			4:41		273	04:47		283	05:44		339	06:06		369	4:52		290	05:27		322	05:05		302
do	17-6				10:39	60		10:45	70		11:47	60		12:05	60		10:45	58		11:38	70		11:08	70
do	17-6	13:33	LK	16:55		311	17:01		321	18:00		383	18:22		413	17:07		327	17:42		359	17:20		339
do	17-6				23:20	48		23:26	58		00:23	50		00:41	50		23:23	47		00:16	50		23:46	59
vr	18-6			5:32		275	05:38		285	00:23		50		00:41	50		5:43	292		00:16	50		05:56	304
vr	18-6				11:35	50		11:41	60		06:38	341		07:00	371		11:39	58		06:18	324		12:02	70
vr	18-6			17:49		310	17:55		320	12:38		65		12:56	65		18:00	327		12:32	71		18:13	339
vr	18-6				0:16	40		00:22	50		18:55	381		19:17	411		0:19	38		18:35	359		00:42	50

getijden 2016				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"	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	19-6				0:16	40		00:22	50		01:17	50		01:35	50		0:19	38		01:12	50		00:42	50
za	19-6			6:32		277	06:38		287	07:49		344	08:11		374	6:40		293	07:15		325	06:53		305
za	19-6				12:35	54		12:41	64		13:36	67		13:54	67		12:39	55		13:32	67		13:02	67
za	19-6			18:50		307	18:56		317	20:09		377	20:31		407	19:00		322	19:35		354	19:13		334
zo	20-6				1:19	30		01:25	40		02:22	50		02:40	50		1:21	38		02:14	50		01:44	50
zo	20-6			7:43		278	07:49		288	09:00		348	09:22		378	7:47		292	08:22		324	08:00		304
zo	20-6				13:42	53		13:48	63		14:46	71		15:04	71		13:45	53		14:38	65		14:08	65
zo	20-6			20:01		303	20:07		313	21:23		375	21:45		405	20:10		316	20:45		348	20:23		328
ma	21-6				2:30	30		02:36	40		03:38	40		03:56	40		2:34	28		03:27	40		02:57	40
ma	21-6			9:00		280	09:06		290	10:10		352	10:32		382	9:06		294	09:41		326	09:19		306
ma	21-6				14:55	48		15:01	58		16:05	64		16:23	64		15:04	47		15:57	59		15:27	59
ma	21-6			21:17		300	21:23		310	22:31		373	22:53		403	21:31		314	22:06		346	21:44		326
di	22-6				3:39	30		03:45	40		04:46	30		05:04	30		3:46	28		04:39	40		04:09	40
di	22-6			10:06		284	10:12		294	11:15		356	11:37		386	10:16		299	10:51		331	10:29		311
di	22-6				16:04	38		16:10	48		17:12	50		17:30	50		16:17	35		17:10	47		16:40	47
di	22-6			22:23		299	22:29		309	23:33		372	23:55		402	22:40		314	23:15		346	22:53		326
wo	23-6				4:40	20		04:46	30		05:46	20		06:04	20		4:49	18		05:42	30		05:12	30
wo	23-6			11:00		288	11:06		298	12:10		361	12:32		391	11:13		304	11:48		336	11:26		316
wo	23-6				17:07	25		17:13	35		18:15	36		18:33	36		17:18	20		18:11	32		17:41	32
wo	23-6			23:20		299	23:26		309	00:29		0	00:51		0	23:38		315	00:13		0	23:51		327
do	24-6	4:31	NM		5:40	10		05:46	20		00:29	371		00:51	401		5:46	8		00:13	347		06:09	20
do	24-6			11:49		294	11:55		304	06:45		20	07:03		20	12:04		311	06:39		20	12:17		323
do	24-6				18:11	10		18:17	20		12:59	366		13:21	396		18:16	5		12:39	343		18:39	17
do	24-6			0:15		300	00:21		310		19:17	20		19:35	20	0:32		317	19:09		17	00:45		329
vr	25-6			0:15		300	00:21		310	01:22		369	01:44		399	0:32		317	01:07		349	00:45		329
vr	25-6				6:38	10		06:44	20		07:43	10		08:01	10		6:41	-2		07:34	10		07:04	10
vr	25-6			12:36		302	12:42		312	13:46		372	14:08		402	12:52		318	13:27		350	13:05		330
vr	25-6				19:10	-4		19:16	6		20:15	5		20:33	5		19:11	-7		20:04	5		19:34	5
za	26-6			1:08		299	01:14		309	02:15		366	02:37		396	1:23		316	01:58		348	01:36		328
za	26-6				7:31	0		07:37	10		08:36	10		08:54	10		7:32	-2		08:25	10		07:55	10
za	26-6			13:23		308	13:29		318	14:32		377	14:54		407	13:40		323	14:15		355	13:53		335
za	26-6				20:02	-10		20:08	0		21:07	0		21:25	0		20:03	-12		20:56	0		20:26	0
zo	27-6			1:59		295	02:05		305	03:08		361	03:30		391	2:14		313	02:49		345	02:27		325
zo	27-6				8:21	0		08:27	10		09:26	20		09:44	20		8:20	-2		09:13	10		08:43	10
zo	27-6			14:11		309	14:17		319	15:19		378	15:41		408	14:27		325	15:02		357	14:40		337
zo	27-6				20:51	-6		20:57	4		21:56	2		22:14	2		20:51	-7		21:44	5		21:14	5

getijden 2016				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		
			maan	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
ma	28-6			2:48		288	02:54		298	03:59		351	04:21		381	3:02		305	03:37		337	03:15		317
ma	28-6				9:07	10		09:13	20		10:12	30		10:30	30		9:07	8		10:00	20		09:30	20
ma	28-6			14:58		307	15:04		317	16:04		376	16:26		406	15:14		322	15:49		354	15:27		334
ma	28-6				21:38	8		21:44	18		22:41	18		22:59	18		21:38	7		22:31	19		22:01	19
di	29-6			3:36		278	03:42		288	04:46		342	05:08		372	3:50		296	04:25		328	04:03		308
di	29-6				9:51	30		09:57	40		10:56	50		11:14	50		9:51	28		10:44	40		10:14	40
di	29-6			15:44		302	15:50		312	16:50		372	17:12		402	16:01		317	16:36		349	16:14		329
di	29-6				22:23	25		22:29	35		23:26	37		23:44	37		22:24	23		23:17	35		22:47	35
wo	30-6			4:24		271	04:30		281	05:32		335	05:54		365	4:37		289	05:12		321	04:50		301
wo	30-6				10:34	40		10:40	50		11:39	60		11:57	60		10:35	38		11:28	50		10:58	50
wo	30-6			16:32		298	16:38		308	17:38		369	18:00		399	16:49		313	17:24		345	17:02		325
wo	30-6				23:08	37		23:14	47		00:10	50		00:28	50		23:09	35		00:02	40		23:32	47

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafan		
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"		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	1-7	2:51	EK	5:12		268	05:18		278	00:10	50		00:28	50	5:25		285		00:02	40	05:38		297	
do	1-7				11:20	50		11:26	60	06:21		333	06:43		363		11:22	48	06:00		317		11:45	60
do	1-7			17:24		296	17:30		306	12:24	74		12:42	74	17:40		309		12:15	65	17:53		321	
do	1-7				23:52	40		00:02	50	18:31		367	18:53		397		23:58	-12	18:15		341		00:21	0
vr	2-7				23:52	40		00:02	50	00:57	50		01:15	50		23:58	38		00:51	50		00:21	50	
vr	2-7			6:04		269	06:10		279	07:14		336	07:36		366	6:15		285	06:50		317	06:28		297
vr	2-7				12:14	57		12:20	67	13:15	77		13:33	77		12:16	56		13:09	68		12:39	68	
vr	2-7			18:22		293	18:28		303	19:31		365	19:53		395	18:36		306	19:11		338	18:49		318
za	3-7				0:49	40		00:55	50	01:49	50		02:07	50		0:50	38		01:43	50		01:13	50	
za	3-7			7:01		272	07:07		282	08:13		339	08:35		369	7:10		286	07:45		318	07:23		298
za	3-7				13:14	56		13:20	66	14:12	76		14:30	76		13:15	54		14:08	66		13:38	66	
za	3-7			19:25		289	19:31		299	20:36		361	20:58		391	19:36		302	20:11		334	19:49		314
zo	4-7				1:46	40		01:52	50	02:46	50		03:04	50		1:46	38		02:39	50		02:09	50	
zo	4-7			8:04		274	08:10		284	09:16		342	09:38		372	8:09		288	08:44		320	08:22		300
zo	4-7				14:16	53		14:22	63	15:15	73		15:33	73		14:16	52		15:09	64		14:39	64	
zo	4-7			20:33		283	20:39		293	21:40		355	22:02		385	20:40		296	21:15		328	20:53		308
ma	5-7				2:46	40		02:52	50	03:49	50		04:07	50		2:45	38		03:38	50		03:08	50	
ma	5-7			9:11		276	09:17		286	10:18		344	10:40		374	9:16		290	09:51		322	09:29		302
ma	5-7				15:23	50		15:29	60	16:23	69		16:41	69		15:26	49		16:19	61		15:49	61	
ma	5-7			21:38		279	21:44		289	22:42		349	23:04		379	21:48		291	22:23		323	22:01		303
di	6-7				3:49	40		03:55	50	04:55	50		05:13	50		3:52	38		04:45	50		04:15	50	
di	6-7			10:08		280	10:14		290	11:14		347	11:36		377	10:19		295	10:54		327	10:32		307
di	6-7				16:30	46		16:36	56	17:29	61		17:47	61		16:36	44		17:29	56		16:59	56	
di	6-7			22:31		275	22:37		285	23:35		343	23:57		373	22:47		289	23:22		321	23:00		301
wo	7-7				4:45	40		04:51	50	05:51	50		06:09	50		4:51	38		05:44	50		05:14	50	
wo	7-7			10:49		286	10:55		296	11:59		353	12:21		383	11:05		302	11:40		334	11:18		314
wo	7-7				17:19	45		17:25	55	18:21	56		18:39	56		17:24	42		18:17	54		17:47	54	
wo	7-7			23:10		276	23:16		286	00:15	0	00:37	0	00:37	0	23:31		291	00:06	0	23:44		303	
do	8-7				5:29	40		05:35	50	00:15	342		00:37	372		5:35	38		00:06	323		05:58	50	
do	8-7			11:23		296	11:29		306	06:37	50		06:55	50		11:43	312		06:28	50		11:56	324	
do	8-7				17:58	44		18:04	54	12:33	364		12:55	394		18:02	42		12:18	344		18:25	54	
do	8-7			23:45		283	23:51		293	19:04	54		19:22	54		0:08	298		18:55	54	00:21		310	
vr	9-7				6:08	40		06:14	50	00:47	350		01:09	380		0:08	298		00:43	330	00:21		310	
vr	9-7	6:07	VM	12:00		310	12:06		320	07:17	50		07:35	50		6:12	38		07:05	50		06:35	50	
vr	9-7				18:35	42		18:41	52	13:10	379		13:32	409		12:20	326		12:55	358		12:33	338	
vr	9-7			0:25		293	00:31		303	19:43	51		20:01	51		18:37	40		19:30	52		19:00	52	

getijden 2016				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"			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	10-7			0:25		293	00:31		303	01:27		361	01:49		391	0:46		308	01:21		340	00:59		320
za	10-7				6:47	40		06:53	50		07:55	50		08:13	50		6:49	38		07:42	50		07:12	50
za	10-7			12:42		322	12:48		332	13:51		393	14:13		423	12:59		338	13:34		370	13:12		350
za	10-7				19:12	40		19:18	50		20:20	49		20:38	49		19:14	37		20:07	49		19:37	49
zo	11-7			1:09		299	01:15		309	02:12		368	02:34		398	1:25		315	02:00		347	01:38		327
zo	11-7				7:25	40		07:31	50		08:32	50		08:50	50		7:26	38		08:19	50		07:49	50
zo	11-7			13:25		326	13:31		336	14:32		398	14:54		428	13:39		343	14:14		375	13:52		355
zo	11-7				19:50	41		19:56	51		20:57	50		21:15	50		19:51	37		20:44	49		20:14	49
ma	12-7			1:52		298	01:58		308	02:55		367	03:17		397	2:04		315	02:39		347	02:17		327
ma	12-7				8:01	40		08:07	50		09:07	50		09:25	50		8:02	38		08:55	50		08:25	50
ma	12-7			14:04		324	14:10		334	15:10		396	15:32		426	14:16		341	14:51		373	14:29		353
ma	12-7				20:26	45		20:32	55		21:32	55		21:50	55		20:27	40		21:20	52		20:50	52
di	13-7			2:31		291	02:37		301	03:34		359	03:56		389	2:41		308	03:16		340	02:54		320
di	13-7				8:32	50		08:38	60		09:39	60		09:57	60		8:35	48		09:28	60		08:58	60
di	13-7			14:38		317	14:44		327	15:44		390	16:06		420	14:49		336	15:24		368	15:02		348
di	13-7				20:59	50		21:05	60		22:05	60		22:23	60		21:02	43		21:55	55		21:25	55
wo	14-7			3:05		281	03:11		291	04:08		349	04:30		379	3:15		300	03:50		332	03:28		312
wo	14-7				9:02	50		09:08	60		10:11	60		10:29	60		9:08	48		10:01	60		09:31	60
wo	14-7			15:10		313	15:16		323	16:17		385	16:39		415	15:22		332	15:57		364	15:35		344
wo	14-7				21:33	50		21:39	60		22:40	60		22:58	60		21:36	43		22:29	55		21:59	55
do	15-7			3:39		276	03:45		286	04:43		342	05:05		372	3:50		295	04:25		327	04:03		307
do	15-7				9:37	50		09:43	60		10:47	60		11:05	60		9:43	48		10:36	60		10:06	60
do	15-7			15:46		312	15:52		322	16:55		384	17:17		414	15:59		332	16:34		364	16:12		344
do	15-7				22:10	46		22:16	56		23:17	56		23:35	56		22:14	40		23:07	52		22:37	52
vr	16-7			4:18		275	04:24		285	05:23		340	05:45		370	4:30		295	05:05		327	04:43		307
vr	16-7				10:19	50		10:25	60		11:27	50		11:45	50		10:24	48		11:17	60		10:47	60
vr	16-7			16:30		313	16:36		323	17:38		382	18:00		412	16:43		332	17:18		364	16:56		344
vr	16-7	21:26	LK		22:54	43		23:00	53		00:00	0		00:18	0		22:58	39		23:51	51		23:21	51
za	17-7			5:04		276	05:10		286	06:11		339	06:33		369	5:16		296	05:51		328	05:29		308
za	17-7				11:08	40		11:14	50		12:14	59		12:32	59		11:13	48		12:06	60		11:36	60
za	17-7			17:21		310	17:27		320							17:33		328	18:08		360	17:46		340
za	17-7				23:44	44		23:50	54		18:27	376		18:49	406		23:48	38		00:41	50		00:11	50
zo	18-7			5:58		276	06:04		286		00:49	50		01:07	50		23:48	38		00:41	50		00:11	50
zo	18-7				12:03	50		12:09	60		07:12	337		07:34	367		6:09	293		06:44	325		06:22	305
zo	18-7			18:17		303	18:23		313		13:06	68		13:24	68		12:08	53		13:01	65		12:31	65
zo	18-7				0:42	-10		00:48	0		19:30	367		19:52	397		18:29	319		19:04	351		18:42	331

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen			
maan	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	19-7				0:42	40		00:48	50		01:47	60		02:05	60		0:48	38		01:41	50		01:11	50
	ma	19-7			7:02		273	07:08		283	08:24		336	08:46		366	7:12		288	07:47		320	07:25		300
	ma	19-7				13:06	59		13:12	69		14:11	80		14:29	80		13:11	59		14:04	71		13:34	71
	ma	19-7			19:25		295	19:31		305	20:49		360	21:11		390	19:37		308	20:12		340	19:50		320
	di	20-7				1:55	50		02:01	60		03:04	70		03:22	70		2:01	48		02:54	60		02:24	60
	di	20-7			8:21		273	08:27		283	09:38		338	10:00		368	8:31		287	09:06		319	08:44		299
	di	20-7				14:25	58		14:31	68		15:35	79		15:53	79		14:35	57		15:28	69		14:58	69
	di	20-7			20:50		290	20:56		300	22:05		358	22:27		388	21:05		303	21:40		335	21:18		315
	wo	21-7				3:12	40		03:18	50		04:19	50		04:37	50		3:20	38		04:13	50		03:43	50
	wo	21-7			9:39		280	09:45		290	10:49		347	11:11		377	9:51		293	10:26		325	10:04		305
	wo	21-7				15:42	46		15:48	56		16:50	64		17:08	64		15:54	43		16:47	55		16:17	55
	wo	21-7			22:07		292	22:13		302	23:14		362	23:36		392	22:23		306	22:58		338	22:36		318
	do	22-7				4:19	30		04:25	40		05:25	40		05:43	40		4:27	28		05:20	40		04:50	40
	do	22-7			10:41		290	10:47		300	11:49		360	12:11		390	10:54		304	11:29		336	11:07		316
	do	22-7				16:55	31		17:01	41		18:03	46		18:21	46		17:03	27		17:56	39		17:26	39
	do	22-7			23:10		296	23:16		306	00:15		367	00:37		397	23:26		312	00:01		344	23:39		324
	vr	23-7				5:26	20		05:32	30		06:33	30		06:51	30		5:31	18		06:24	30		12:01	328
	vr	23-7			11:35		301	11:41		311	12:42		371	13:04		401	11:48		316		06:24	30		12:01	328
	vr	23-7	11:45	NM		18:07	15		18:13	25		19:13	25		19:31	25		18:08	11		12:23	348		18:31	23
	vr	23-7			0:06		300	00:12		310		19:13	25		19:31	25		0:21	316		19:01	23		00:34	328
	za	24-7			0:06		300	00:12		310	01:12		369	01:34		399	0:21		316	00:56		348	00:34		328
	za	24-7				6:29	10		06:35	20		07:35	20		07:53	20		6:31	8		07:24	20		06:54	20
	za	24-7			12:24		310	12:30		320	13:33		380	13:55		410	12:39		325	13:14		357	12:52		337
	za	24-7				19:04	2		19:10	12		20:09	10		20:27	10		19:04	0		19:57	12		19:27	12
	zo	25-7			0:59		301	01:05		311	02:09		368	02:31		398	1:13		318	01:48		350	01:26		330
	zo	25-7				7:22	10		07:28	20		08:28	20		08:46	20		7:22	8		08:15	20		07:45	20
	zo	25-7			13:12		316	13:18		326	14:23		384	14:45		414	13:27		331	14:02		363	13:40		343
	zo	25-7				19:53	0		19:59	10		20:58	7		21:16	7		19:53	-2		20:46	10		20:16	10
	ma	26-7			1:48		298	01:54		308	03:07		363	03:29		393	2:01		316	02:36		348	02:14		328
	ma	26-7				8:09	10		08:15	20		09:15	30		09:33	30		8:09	8		09:02	20		08:32	20
	ma	26-7			13:58		316	14:04		326	15:11		383	15:33		413	14:13		333	14:48		365	14:26		345
	ma	26-7				20:38	9		20:44	19		21:42	17		22:00	17		20:38	7		21:31	19		21:01	19
	di	27-7			2:34		291	02:40		301	03:56		355	04:18		385	2:46		311	03:21		343	02:59		323
	di	27-7				8:51	20		08:57	30		09:57	40		10:15	40		8:52	18		09:45	30		09:15	30
	di	27-7			14:41		313	14:47		323	15:54		379	16:16		409	14:56		330	15:31		362	15:09		342
	di	27-7				21:19	25		21:25	35		22:23	34		22:41	34		21:19	22		22:12	34		21:42	34

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (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
			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"			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	28-7			3:15		284	03:21		294	04:34		346	04:56		376	3:28		304	04:03		336	03:41		316
wo	28-7				9:29	40		09:35	50		10:36	50		10:54	50		9:30	38		10:23	50		09:53	50
wo	28-7			15:21		308	15:27		318	16:32		374	16:54		404	15:38		325	16:13		357	15:51		337
wo	28-7				21:56	39		22:02	49		23:01	50		23:19	50		21:56	35		22:49	47		22:19	47
do	29-7			3:55		279	04:01		289	05:08		341	05:30		371	4:08		299	04:43		331	04:21		311
do	29-7				10:04	50		10:10	60		11:13	60		11:31	60		10:05	48		10:58	60		10:28	60
do	29-7			16:03		304	16:09		314	17:13		370	17:35		400	16:19		320	16:54		352	16:32		332
do	29-7				22:32	48		22:38	58		23:39	60		23:57	60		22:32	44		23:25	56		22:55	56
vr	30-7			4:36		277	04:42		287	05:46		340	06:08		370	4:48		296	05:23		328	05:01		308
vr	30-7				10:39	50		10:45	60		11:51	70		12:09	70		10:40	48		11:33	60		11:03	60
vr	30-7	17:23	EK	16:47		298	16:53		308	17:57		366	18:19		396	17:03		314	17:38		346	17:16		326
vr	30-7				23:12	53		23:18	63		00:18	0		00:36	0		23:12	50		00:05	0		23:35	62
za	31-7			5:22		277	05:28		287		00:18	60		00:36	60	5:33		294		00:05	60	05:46		306
za	31-7				11:23	60		11:29	70	06:31		341	06:53		371		11:25	58	06:08		326		11:48	70
za	31-7			17:39		291	17:45		301		12:33	79		12:51	79	17:53		305		12:18	72	18:06		317
za	31-7				0:00	50		00:06	60	18:47		360	19:09		390		0:02	48,38	18:28		337		00:25	60

getijden 2016				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"		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	1-8				0:00	50		00:06	60		01:03	70		01:21	70		0:02	48		00:55	60		00:25	60
zo	1-8			6:14		276	06:20		286	07:23		341	07:45		371	6:23		291	06:58		323	06:36		303
zo	1-8				12:21	68		12:27	78		13:24	86		13:42	86		12:23	66		13:16	78		12:46	78
zo	1-8			18:38		283	18:44		293	19:44		351	20:06		381	18:49		296	19:24		328	19:02		308
ma	2-8				0:58	60		01:04	70		01:57	80		02:15	80		0:59	58		01:52	70		01:22	70
ma	2-8			7:11		275	07:17		285	08:19		340	08:41		370	7:20		289	07:55		321	07:33		301
ma	2-8				13:27	73		13:33	83		14:25	95		14:43	95		13:27	72		14:20	84		13:50	84
ma	2-8			19:41		276	19:47		286	20:47		344	21:09		374	19:51		287	20:26		319	20:04		299
di	3-8				2:01	70		02:07	80		03:00	90		03:18	90		2:00	68		02:53	80		02:23	80
di	3-8			8:14		278	08:20		288	09:22		343	09:44		373	8:22		290	08:57		322	08:35		302
di	3-8				14:36	75		14:42	85		15:35	98		15:53	98		14:36	75		15:29	87		14:59	87
di	3-8			20:52		274	20:58		284	21:56		341	22:18		371	21:01		284	21:36		316	21:14		296
wo	4-8				3:06	70		03:12	80		04:10	90		04:28	90		3:07	68		04:00	80		03:30	80
wo	4-8			9:22		286	09:28		296	10:31		352	10:53		382	9:31		298	10:06		330	09:44		310
wo	4-8				15:49	72		15:55	82		16:50	91		17:08	91		15:56	72		16:49	84		16:19	84
wo	4-8			21:59		278	22:05		288	23:04		345	23:26		375	22:13		289	22:48		321	22:26		301
do	5-8				4:09	60		04:15	70		05:16	80		05:34	80		4:17	68		05:10	80		04:40	80
do	5-8			10:18		300	10:24		310	11:31		367	11:53		397	10:31		312	11:06		344	10:44		324
do	5-8				16:48	66		16:54	76		17:51	79		18:09	79		16:54	65		17:47	77		17:17	77
do	5-8			22:48		285	22:54		295	23:58		353	00:20		383	23:05		298	23:40		330	23:18		310
vr	6-8				5:01	60		05:07	70		06:08	70		06:26	70		5:08	58		06:01	70		05:31	70
vr	6-8			11:03		314	11:09		324	12:18		383	06:26		383	11:18		327	11:53		359	11:31		339
vr	6-8				17:34	59		17:40	69		18:39	69		12:40	413		17:37	58		18:30	70		18:00	70
vr	6-8			23:29		294	23:35		304	00:40		361	18:57		361	23:46		307	00:21		339	23:59		319
za	7-8				5:46	50		05:52	60		06:54	60		07:12	60		5:50	48		06:43	60		12:12	351
za	7-8			11:44		325	11:50		335	12:59		395	13:21		425	11:59		339	12:34		371	12:12		351
za	7-8				18:15	53		18:21	63		19:22	61		19:40	61		18:17	51		12:34	371		18:40	63
za	7-8	20:11 VM		0:10		300	00:16		310		19:22	61		19:40	61		0:26	-12		19:10	63		00:39	0
zo	8-8			0:10		300	00:16		310	01:21		367	01:43		397	0:26		315	01:01		347	00:39		327
zo	8-8				6:27	50		06:33	60		07:35	50		07:53	50		6:29	48		07:22	60		06:52	60
zo	8-8			12:26		331	12:32		341	13:40		401	14:02		431	12:40		346	13:15		378	12:53		358
zo	8-8				18:55	46		19:01	56		20:01	56		20:19	56		18:55	43		19:48	55		19:18	55
ma	9-8			0:52		302	00:58		312	02:02		369	02:24		399	1:06		318	01:41		350	01:19		330
ma	9-8				7:06	40		07:12	50		08:13	50		08:31	50		7:07	38		08:00	50		07:30	50
ma	9-8			13:06		331	13:12		341	14:18		400	14:40		430	13:19		347	13:54		379	13:32		359
ma	9-8				19:32	42		19:38	52		20:38	52		20:56	52		19:33	37		20:26	49		19:56	49

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen			
maand	dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm			
	di	10-8			1:33		299	01:39		309	02:42		365	03:04		395	1:45		316	02:20		348	01:58		328
	di	10-8				7:43	40		07:49	50		08:48	50		09:06	50		7:44	38		08:37	50		08:07	50
	di	10-8			13:43		326	13:49		336	14:52		396	15:14		426	13:56		344	14:31		376	14:09		356
	di	10-8				20:09	41		20:15	51		21:14	50		21:32	50		20:09	35		21:02	47		20:32	47
	wo	11-8			2:10		293	02:16		303	03:17		359	03:39		389	2:21		310	02:56		342	02:34		322
	wo	11-8				8:15	40		08:21	50		09:22	50		09:40	50		8:18	38		09:11	50		08:41	50
	wo	11-8			14:16		322	14:22		332	15:23		392	15:45		422	14:29		340	15:04		372	14:42		352
	wo	11-8				20:43	41		20:49	51		21:48	49		22:06	49		20:44	34		21:37	46		21:07	46
	do	12-8			2:44		287	02:50		297	03:49		354	04:11		384	2:55		305	03:30		337	03:08		317
	do	12-8				8:46	40		08:52	50		09:55	50		10:13	50		8:51	38		09:44	50		09:14	50
	do	12-8			14:49		320	14:55		330	15:57		392	16:19		422	15:02		338	15:37		370	15:15		350
	do	12-8				21:15	41		21:21	51		22:22	49		22:40	49		21:17	34		22:10	46		21:40	46
	vr	13-8			3:17		285	03:23		295	04:23		352	04:45		382	3:29		304	04:04		336	03:42		316
	vr	13-8				9:20	40		09:26	50		10:30	50		10:48	50		9:25	38		10:18	50		09:48	50
	vr	13-8			15:26		320	15:32		330	16:35		391	16:57		421	15:40		338	16:15		370	15:53		350
	vr	13-8				21:50	42		21:56	52		22:58	51		23:16	51		21:53	36		22:46	48		22:16	48
	za	14-8			3:54		285	04:00		295	05:02		350	05:24		380	4:08		304	04:43		336	04:21		316
	za	14-8				9:58	40		10:04	50		11:08	50		11:26	50		10:04	38		10:57	50		10:27	50
	za	14-8			16:10		317	16:16		327	17:18		386	17:40		416	16:22		335	16:57		367	16:35		347
	za	14-8				22:29	45		22:35	55		23:37	56		23:55	56		22:33	41		23:26	53		22:56	53
	zo	15-8	3:15	LK	4:39		283	04:45		293	05:47		346	06:09		376	4:52		301	05:27		333	05:05		313
	zo	15-8				10:44	40		10:50	50		11:51	60		12:09	60		10:48	38		11:41	50		11:11	50
	zo	15-8			16:58		309	17:04		319	18:06		374	18:28		404	17:10		325	17:45		357	17:23		337
	zo	15-8				23:16	53		23:22	63		00:22	60		00:40	60		23:20	52		00:13	60		23:43	64
	ma	16-8			5:30		279	05:36		289		00:22	60		00:40	60		5:42	294		00:13	60		05:55	306
	ma	16-8				11:35	50		11:41	60		06:41	339		07:03	369		11:40	58		06:17	326		12:03	70
	ma	16-8			17:54		296	18:00		306		12:40	75		12:58	75		18:05	310		12:33	70		18:18	322
	ma	16-8				0:11	60		00:17	70		19:08	358		19:30	388		0:17	58		18:40	342		00:40	70
	di	17-8				0:11	60		00:17	70		01:16	80		01:34	80		0:17	58		01:10	70		00:40	70
	di	17-8			6:33		273	06:39		283	07:52		333	08:14		363	6:44		285	07:19		317	06:57		297
	di	17-8				12:38	68		12:44	78		13:43	92		14:01	92		12:45	69		13:38	81		13:08	81
	di	17-8			19:10		285	19:16		295	20:28		347	20:50		377	19:19		295	19:54		327	19:32		307
	wo	18-8				1:29	70		01:35	80		02:37	90		02:55	90		1:39	68		02:32	80		02:02	80
	wo	18-8			7:58		273	08:04		283	09:12		334	09:34		364	8:11		282	08:46		314	08:24		294
	wo	18-8				14:11	68		14:17	78		15:18	94		15:36	94		14:24	67		15:17	79		14:47	79
	wo	18-8			20:40		282	20:46		292	21:49		347	22:11		377	20:56		292	21:31		324	21:09		304

getijden 2016				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	19-8				2:58	60		03:04	70		04:03	80		04:21	80		3:05	58		03:58	70		03:28	70
do	19-8			9:21		283	09:27		293	10:30		349	10:52		379	9:34		293	10:09		325	09:47		305
do	19-8				15:34	53		15:40	63		16:39	75		16:57	75		15:43	51		16:36	63		16:06	63
do	19-8			21:58		290	22:04		300	23:02		358	23:24		388	22:14		302	22:49		334	22:27		314
vr	20-8				4:08	50		04:14	60		05:15	60		05:33	60		4:15	48		05:08	60		04:38	60
vr	20-8			10:26		299	10:32		309	11:32		369	11:54		399	10:39		311	11:14		343	10:52		323
vr	20-8				16:55	36		17:01	46		18:01	50		18:19	50		16:57	33		17:50	45		17:20	45
vr	20-8			23:00		300	23:06		310	00:04		0	00:26		0	23:15		314	23:50		346	23:28		326
za	21-8				5:19	30		05:25	40	00:04		370	00:26		400		5:23	28		06:16	40		05:46	40
za	21-8			11:20		314	11:26		324		06:27	40		06:45	40	11:34		327	12:09		359	11:47		339
za	21-8				18:00	20		18:06	30	12:26		385	12:48		415		18:00	17		18:53	29		18:23	29
za	21-8	20:30	NM	23:54		306	00:00		316		19:05	26		19:23	26	0:09		323	00:44		0	00:22		335
zo	22-8			23:54		306	00:00		316	01:02		376	01:24		406	0:09		323	00:44		355	00:22		335
zo	22-8				6:19	20		06:25	30		07:25	30		07:43	30		6:20	18		07:13	30		06:43	30
zo	22-8			12:09		323	12:15		333	13:18		394	13:40		424	12:24		338	12:59		370	12:37		350
zo	22-8				18:52	13		18:58	23		19:57	16		20:15	16		18:51	11		19:44	23		19:14	23
ma	23-8			0:44		307	00:50		317	02:02		375	02:24		405	0:58		326	01:33		358	01:11		338
ma	23-8				7:08	20		07:14	30		08:14	30		08:32	30		7:09	18		08:02	30		07:32	30
ma	23-8			12:55		325	13:01		335	14:08		394	14:30		424	13:10		342	13:45		374	13:23		354
ma	23-8				19:37	18		19:43	28		20:42	22		21:00	22		19:37	14		20:30	26		20:00	26
di	24-8			1:29		303	01:35		313	02:58		369	03:20		399	1:43		323	02:18		355	01:56		335
di	24-8				7:51	30		07:57	40		08:57	40		09:15	40		7:52	28		08:45	40		08:15	40
di	24-8			13:36		323	13:42		333	14:52		389	15:14		419	13:53		340	14:28		372	14:06		352
di	24-8				20:17	30		20:23	40		21:22	37		21:40	37		20:17	26		21:10	38		20:40	38
wo	25-8			2:08		296	02:14		306	03:37		360	03:59		390	2:23		317	02:58		349	02:36		329
wo	25-8				8:28	40		08:34	50		09:35	50		09:53	50		8:29	38		09:22	50		08:52	50
wo	25-8			14:14		317	14:20		327	15:27		382	15:49		412	14:31		335	15:06		367	14:44		347
wo	25-8				20:51	43		20:57	53		21:57	52		22:15	52		20:52	38		21:45	50		21:15	50
do	26-8			2:42		292	02:48		302	03:58		353	04:20		383	2:58		313	03:33		345	03:11		325
do	26-8				9:00	50		09:06	60		10:09	60		10:27	60		9:01	48		09:54	60		09:24	60
do	26-8			14:49		312	14:55		322	16:00		377	16:22		407	15:08		330	15:43		362	15:21		342
do	26-8				21:22	52		21:28	62		22:30	61		22:48	61		21:22	47		22:15	59		21:45	59
vr	27-8			3:15		290	03:21		300	04:25		352	04:47		382	3:32		310	04:07		342	03:45		322
vr	27-8				9:28	50		09:34	60		10:41	70		10:59	70		9:28	48		10:21	60		09:51	60
vr	27-8			15:24		307	15:30		317	16:35		373	16:57		403	15:44		324	16:19		356	15:57		336
vr	27-8				21:51	56		21:57	66		23:02	66		23:20	66		21:50	52		22:43	64		22:13	64

getijden 2016				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
za	28-8			3:50		290	03:56		300	05:01		353	05:23		383	4:08		308	04:43		340	04:21		320
za	28-8				9:57	60		10:03	70		11:14	70		11:32	70		9:58	58		10:51	70		10:21	70
za	28-8			16:03		301	16:09		311	17:14		367	17:36		397	16:23		316	16:58		348	16:36		328
za	28-8				22:24	63		22:30	73		23:36	74		23:54	74		22:25	60		23:18	72		22:48	72
zo	29-8			4:32		289	04:38		299	05:43		353	06:05		383	4:49		305	05:24		337	05:02		317
zo	29-8				10:34	60		10:40	70		11:50	80		12:08	80		10:37	58		11:30	70		11:00	70
zo	29-8			16:50		292	16:56		302	17:57		358	18:19		388	17:07		306	17:42		338	17:20		318
zo	29-8				23:06	75		23:12	85		00:13	0		00:31	0		23:08	73		00:01	0		23:31	85
ma	30-8			5:22		286	05:28		296		00:13	80		00:31	80	5:36		300		00:01	80	05:49		312
ma	30-8	10:13	EK		11:23	80		11:29	90	06:29		350	06:51		380		11:28	78	06:11		332		11:51	90
ma	30-8			17:46		282	17:52		292		12:33	99		12:51	99	18:00		294		12:21	94	18:13		306
ma	30-8				23:54	90		00:04	100	18:47		348	19:09		378		0:01	88	18:35		326		00:24	100
di	31-8				23:54	90		00:04	100		00:59	110		01:17	110		0:01	88		00:54	100		00:24	100
di	31-8			6:19		284	06:25		294	07:20		348	07:42		378	6:31		296	07:06		328	06:44		308
di	31-8				12:25	99		12:31	109		13:26	119		13:44	119		12:30	98		13:23	110		12:53	110
di	31-8			18:48		275	18:54		285	19:45		341	20:07		371	19:00		285	19:35		317	19:13		297

getijden 2016				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"			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	1-9				1:03	100		01:09	110		01:56	130		02:14	130		1:04	98		01:57	110		01:27	110
wo	1-9			7:21		287	07:27		297	08:19		350	08:41		380	7:32		296	08:07		328	07:45		308
wo	1-9				13:40	108		13:46	118		14:34	134		14:52	134		13:39	107		14:32	119		14:02	119
wo	1-9			19:55		275	20:01		285	20:49		341	21:11		371	20:06		284	20:41		316	20:19		296
do	2-9				2:17	110		02:23	120		03:14	130		03:32	130		2:13	108		03:06	120		02:36	120
do	2-9			8:28		297	08:34		307	09:29		361	09:51		391	8:41		306	09:16		338	08:54		318
do	2-9				15:00	104		15:06	114		16:02	131		16:20	131		15:02	105		15:55	117		15:25	117
do	2-9			21:08		283	21:14		293	22:03		348	22:25		378	21:21		291	21:56		323	21:34		303
vr	3-9				3:29	100		03:35	110		04:36	120		04:54	120		3:34	98		04:27	110		03:57	110
vr	3-9			9:38		313	09:44		323	10:46		380	11:08		410	9:51		323	10:26		355	10:04		335
vr	3-9				16:11	91		16:17	101		17:16	109		17:34	109		16:18	91		17:11	103		16:41	103
vr	3-9			22:13		294	22:19		304	23:20		362	23:42		392	22:28		304	23:03		336	22:41		316
za	4-9				4:28	80		04:34	90		05:36	90		05:54	90		4:35	78		05:28	90		04:58	90
za	4-9			10:34		328	10:40		338	11:47		399	12:09		429	10:46		339	11:21		371	10:59		351
za	4-9				17:03	75		17:09	85		18:09	86		18:27	86		17:07	73		18:00	85		17:30	85
za	4-9			23:03		304	23:09		314	00:16		373	00:38		403	23:17		316	23:52		348	23:30		328
zo	5-9				5:18	70		05:24	80	00:16		373	00:38		403		5:22	68		06:15	80		05:45	80
zo	5-9			11:20		336	11:26		346		06:24	70		06:42	70	11:33		349	12:08		381	11:46		361
zo	5-9				17:48	60		17:54	70	12:35		408	12:57		438		17:50	57		18:43	69		18:13	69
zo	5-9			23:48		307	23:54		317		18:54	69		19:12	69	0:01		322	00:36		354	00:14		334
ma	6-9				6:02	50		06:08	60	01:02		376	01:24		406	0:01		322	00:36		354	00:14		334
ma	6-9	9:03 VM		12:03		336	12:09		346		07:08	60		07:26	60		6:05	48		06:58	60		06:28	60
ma	6-9				18:29	49		18:35	59	13:17		408	13:39		438	12:16		352	12:51		384	12:29		364
ma	6-9			0:30		305	00:36		315		19:35	58		19:53	58		18:31	45		19:24	57		18:54	57
di	7-9			0:30		305	00:36		315	01:44		373	02:06		403	0:42		322	01:17		354	00:55		334
di	7-9				6:42	50		06:48	60		07:48	60		08:06	60		6:44	38		07:37	50		07:07	50
di	7-9			12:42		332	12:48		342	13:55		402	14:17		432	12:55		349	13:30		381	13:08		361
di	7-9				19:09	42		19:15	52		20:14	51		20:32	51		19:10	37		20:03	49		19:33	49
wo	8-9			1:09		301	01:15		311	02:22		367	02:44		397	1:22		318	01:57		350	01:35		330
wo	8-9				7:20	40		07:26	50		08:25	50		08:43	50		7:22	38		08:15	50		07:45	50
wo	8-9			13:17		328	13:23		338	14:28		396	14:50		426	13:32		346	14:07		378	13:45		358
wo	8-9				19:46	38		19:52	48		20:50	45		21:08	45		19:47	33		20:40	45		20:10	45
do	9-9			1:44		298	01:50		308	02:54		363	03:16		393	1:58		315	02:33		347	02:11		327
do	9-9				7:54	40		08:00	50		09:01	50		09:19	50		7:58	38		08:51	50		08:21	50
do	9-9			13:51		327	13:57		337	14:59		396	15:21		426	14:07		344	14:42		376	14:20		356
do	9-9				20:21	37		20:27	47		21:26	42		21:44	42		20:22	31		21:15	43		20:45	43

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafen		
maand		dag datum		HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
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"			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E		
vr	10-9			2:17		297	02:23		307	03:24		363	03:46		393	2:32		315	03:07		347	02:45		327
vr	10-9				8:27	40		08:33	50		09:37	40		09:55	40		8:31	28		09:24	40		08:54	40
vr	10-9			14:26		328	14:32		338	15:34		399	15:56		429	14:42		345	15:17		377	14:55		357
vr	10-9				20:55	39		21:01	49		22:01	44		22:19	44		20:56	33		21:49	45		21:19	45
za	11-9			2:51		299	02:57		309	03:58		366	04:20		396	3:08		316	03:43		348	03:21		328
za	11-9				9:02	30		09:08	40		10:13	40		10:31	40		9:06	28		09:59	40		09:29	40
za	11-9			15:07		325	15:13		335	16:14		398	16:36		428	15:21		342	15:56		374	15:34		354
za	11-9				21:29	44		21:35	54		22:37	50		22:55	50		21:31	38		22:24	50		21:54	50
zo	12-9			3:31		298	03:37		308	04:39		366	05:01		396	3:47		314	04:22		346	04:00		326
zo	12-9				9:40	40		09:46	50		10:51	50		11:09	50		9:44	38		10:37	50		10:07	50
zo	12-9			15:52		317	15:58		327	16:59		387	17:21		417	16:05		333	16:40		365	16:18		345
zo	12-9				22:07	53		22:13	63		23:15	63		23:33	63		22:09	49		23:02	61		22:32	61
ma	13-9			4:16		293	04:22		303	05:25		359	05:47		389	4:30		307	05:05		339	04:43		319
ma	13-9	8:25	LK		10:24	50		10:30	60		11:32	60		11:50	60		10:27	48		11:20	60		10:50	60
ma	13-9			16:43		302	16:49		312	17:51		369	18:13		399	16:53		316	17:28		348	17:06		328
ma	13-9				22:51	66		22:57	76		23:57	81		00:15	80		22:54	65		23:47	77		23:17	77
di	14-9			5:09		284	05:15		294	06:20		348	06:42		378	5:21		296	05:56		328	05:34		308
di	14-9				11:15	60		11:21	70		12:20	80		12:38	84		11:18	58		12:11	70		11:41	70
di	14-9			17:46		284	17:52		294	18:58		349	19:20		379	17:53		295	18:28		327	18:06		307
di	14-9				23:46	81		23:52	91		00:48	100		01:06	100		23:52	78		00:45	90		00:15	90
wo	15-9			6:18		276	06:24		286	07:29		339	07:51		369	6:29		284	07:04		316	06:42		296
wo	15-9			19:09		274	19:15		284	20:14		337	20:36		367	19:22		282	19:57		314	19:35		294
wo	15-9				1:25	80		01:31	90		02:24	110		02:42	110		1:36	88		02:29	100		01:59	100
do	16-9			7:43		277	07:49		287	08:50		340	09:12		370	8:00		285	08:35		317	08:13		297
do	16-9				14:14	73		14:20	83		15:13	101		15:31	101		14:23	71		15:16	83		14:46	83
do	16-9			20:35		278	20:41		288	21:39		342	22:01		372	20:50		287	21:25		319	21:03		299
vr	17-9				2:49	70		02:55	80		03:51	90		04:09	90		2:55	68		03:48	80		03:18	80
vr	17-9			9:06		291	09:12		301	10:12		358	10:34		388	9:20		301	09:55		333	09:33		313
vr	17-9				15:31	56		15:37	66		16:33	78		16:51	78		15:36	54		16:29	66		15:59	66
vr	17-9			21:49		293	21:55		303	22:52		360	23:14		390	22:03		304	22:38		336	22:16		316
za	18-9				3:59	60		04:05	70		05:05	70		05:23	70		4:05	58		04:58	70		04:28	70
za	18-9			10:10		311	10:16		321	11:15		381	11:37		411	10:24		323	10:59		355	10:37		335
za	18-9				16:47	39		16:53	49		17:51	50		18:09	50		16:49	37		17:42	49		17:12	49
za	18-9			22:48		307	22:54		317	23:55		376	00:17		0	23:02		321	23:37		353	23:15		333

getijden 2016				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	19-9				5:09	40		05:15	50		06:15	50	00:17		406		5:12	38		06:05	50		05:35	50
zo	19-9			11:04		326	11:10		336	12:10		397		06:33	50	11:19		340	11:54		372	11:32		352
zo	19-9				17:46	27		17:52	37		18:50	30	12:32		427		17:47	25		18:40	37		18:10	37
zo	19-9			23:40		313	23:46		323	00:55		382		19:08	30	23:54		331,4	00:29		363	00:07		343
ma	20-9				6:04	30		06:10	40	00:55		382	01:17		412	23:54		331	00:29		363	00:07		343
ma	20-9	7:30	NM	11:51		331	11:57		341		07:09	40		07:27	40		6:06	28		06:59	40		06:29	40
ma	20-9				18:34	26		18:40	36	13:01		401	13:23		431	12:08		347	12:43		379	12:21		359
ma	20-9			0:26		312	00:32		322		19:38	27		19:56	27		18:34	24		19:27	36		18:57	36
di	21-9			0:26		312	00:32		322	01:54		379	02:16		409	0:40		332	01:15		364	00:53		344
di	21-9				6:50	40		06:56	50		07:55	40		08:13	40		6:51	28		07:44	40		07:14	40
di	21-9			12:33		328	12:39		338	13:46		396	14:08		426	12:51		346	13:26		378	13:04		358
di	21-9				19:16	35		19:22	45		20:20	40		20:38	40		19:16	31		20:09	43		19:39	43
wo	22-9			1:05		306	01:11		316	02:37		370	02:59		400	1:21		327	01:56		359	01:34		339
wo	22-9				7:29	40		07:35	50		08:35	50		08:53	50		7:31	38		08:24	50		07:54	50
wo	22-9			13:09		322	13:15		332	14:20		387	14:42		417	13:29		339	14:04		371	13:42		351
wo	22-9				19:50	46		19:56	56		20:57	56		21:15	56		19:51	42		20:44	54		20:14	54
do	23-9			1:36		301	01:42		311	02:49		362	03:11		392	1:55		321	02:30		353	02:08		333
do	23-9				8:02	50		08:08	60		09:09	60		09:27	60		8:04	48		08:57	60		08:27	60
do	23-9			13:42		316	13:48		326	14:50		381	15:12		411	14:03		333	14:38		365	14:16		345
do	23-9				20:19	54		20:25	64		21:28	65		21:46	65		20:21	50		21:14	62		20:44	62
vr	24-9			2:04		301	02:10		311	03:10		364	03:32		394	2:25		320	03:00		352	02:38		332
vr	24-9				8:29	50		08:35	60		09:39	70		09:57	70		8:31	48		09:24	60		08:54	60
vr	24-9			14:15		313	14:21		323	15:23		378	15:45		408	14:36		329	15:11		361	14:49		341
vr	24-9				20:44	57		20:50	67		21:56	67		22:14	67		20:45	57		21:38	66		21:08	66
za	25-9			2:34		304	02:40		314	03:44		368	04:06		398	2:56		322	03:31		354	03:09		334
za	25-9				8:53	50		08:59	60		10:09	70		10:27	70		8:55	48		09:48	60		09:18	60
za	25-9			14:50		309	14:56		319	16:00		375	16:22		405	15:11		325	15:46		357	15:24		337
za	25-9				21:12	62		21:18	72		22:25	71		22:43	71		21:12	59		22:05	71		21:35	71
zo	26-9			3:10		305	03:16		315	04:22		370	04:44		400	3:32		323	04:07		355	03:45		335
zo	26-9				9:23	60		09:29	70		10:41	70		10:59	70		9:26	58		10:19	70		09:49	70
zo	26-9			15:26		302	15:32		312	16:37		369	16:59		399	15:48		318	16:23		350	16:01		330
zo	26-9				21:44	74		21:50	84		22:57	85		23:15	85		21:45	72		22:38	84		22:08	84
ma	27-9			3:49		303	03:55		313	05:01		368	05:23		398	4:10		320	04:45		352	04:23		332
ma	27-9				9:58	70		10:04	80		11:15	90		11:33	90		10:02	78		10:55	90		10:25	90
ma	27-9			16:07		293	16:13		303	17:14		359	17:36		389	16:29		308	17:04		340	16:42		320
ma	27-9				22:19	94		22:25	104		23:30	107		23:48	107		22:21	93		23:14	105		22:44	105

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörh (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
			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		
di	28-9	4:53	EK	4:33		299	04:39		309	05:41		363	06:03		393	4:52		314	05:27		346	05:05		326
di	28-9				10:41	90		10:47	100		11:53	110		12:11	110		10:46	98		11:39	110		11:09	110
di	28-9			16:55		284	17:01		294	17:55		349	18:17		379	17:14		297	17:49		329	17:27		309
di	28-9				23:01	116		23:07	126		00:08	130		00:26	130		23:04	116		23:57	128		23:27	128
wo	29-9			5:25		297	05:31		307		00:08	130		00:26	130	5:40		309	06:15		341	05:53		321
wo	29-9				11:34	110		11:40	120	06:25		361	06:47		391		11:39	118		12:32	130		12:02	130
wo	29-9			17:55		278	18:01		288		12:37	135		12:55	135	18:08		289	18:43		321	18:21		301
wo	29-9				23:53	130		00:03	140	18:48		343	19:10		373		0:01	128		00:54	140		00:24	140
do	30-9				23:53	130		00:03	140		00:56	150		01:14	150		0:01	128		00:54	140		00:24	140
do	30-9			6:26		299	06:32		309	07:22		363	07:44		393	6:37		309	07:12		341	06:50		321
do	30-9				12:40	128		12:46	138		13:34	150		13:52	150		12:43	128		13:36	140		13:06	140
do	30-9			19:03		279	19:09		289	19:58		344	20:20		374	19:11		288	19:46		320	19:24		300

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafan		
maand		dag datum		HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
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"			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E		
vr	1-10				1:07	130		01:13	140		01:58	160		02:16	160		1:07	128		02:00	140		01:30	140
vr	1-10			7:36		307	07:42		317	08:34		372	08:56		402	7:45		316	08:20		348	07:58		328
vr	1-10				13:56	124		14:02	134		14:48	153		15:06	153		13:54	124		14:47	136		14:17	136
vr	1-10			20:16		287	20:22		297	21:11		353	21:33		383	20:24		295	20:59		327	20:37		307
za	2-10				2:25	120		02:31	130		03:25	150		03:43	150		2:18	118		03:11	130		02:41	130
za	2-10			8:50		321	08:56		331	09:51		387	10:13		417	9:01		329	09:36		361	09:14		341
za	2-10				15:17	105		15:23	115		16:26	129		16:44	129		15:22	105		16:15	117		15:45	117
za	2-10			21:29		300	21:35		310	22:28		367	22:50		397	21:41		309	22:16		341	21:54		321
zo	3-10				3:42	100		03:48	110		04:52	120		05:10	120		3:48	98		04:41	110		04:11	110
zo	3-10			9:55		333	10:01		343	11:01		403	11:23		433	10:07		344	10:42		376	10:20		356
zo	3-10				16:22	81		16:28	91		17:29	96		17:47	96		16:27	79		17:20	91		16:50	91
zo	3-10			22:29		310	22:35		320	23:38		379	00:00		409	22:41		321	23:16		353	22:54		333
ma	4-10				4:40	80		04:46	90		05:47	90	00:00		409		4:46	78		05:39	90		05:09	90
ma	4-10			10:47		338	10:53		348	11:58		410	06:05		90	11:00		352	11:35		384	11:13		364
ma	4-10				17:12	62		17:18	72		18:19	72	12:20		440		17:16	57		18:09	69		17:39	69
ma	4-10			23:19		312	23:25		322	00:32		0	18:37		72	23:30		327	00:05		0	23:43		339
di	5-10				5:29	60		05:35	70	00:32		383	00:54		413		5:34	58	00:05		359		05:57	70
di	5-10			11:33		336	11:39		346		06:35	70	06:53		70	11:46		353		06:27	70	11:59		365
di	5-10				17:57	49		18:03	59	12:45		407	13:07		437		18:01	43	12:21		385		18:24	55
di	5-10	20:40	VM	0:02		309	00:08		319		19:03	58	19:21		58	0:14		327		18:54	55	00:27		339
wo	6-10			0:02		309	00:08		319	01:17		378	01:39		408	0:14		327	00:49		359	00:27		339
wo	6-10				6:13	50		06:19	60		07:18	60	07:36		60		6:17	48		07:10	60		06:40	60
wo	6-10			12:13		330	12:19		340	13:26		399	13:48		429	12:28		349	13:03		381	12:41		361
wo	6-10				18:39	42		18:45	52		19:44	51	20:02		51		18:42	36		19:35	48		19:05	48
do	7-10			0:41		305	00:47		315	01:56		372	02:18		402	0:54		324	01:29		356	01:07		336
do	7-10				6:53	40		06:59	50		07:59	50	08:17		50		6:57	38		07:50	50		07:20	50
do	7-10			12:49		327	12:55		337	14:02		394	14:24		424	13:07		347	13:42		379	13:20		359
do	7-10				19:19	38		19:25	48		20:24	45	20:42		45		19:21	33		20:14	45		19:44	45
vr	8-10			1:15		305	01:21		315	02:29		369	02:51		399	1:32		324	02:07		356	01:45		336
vr	8-10				7:32	40		07:38	50		08:38	40	08:56		40		7:35	28		08:28	40		07:58	40
vr	8-10			13:25		328	13:31		338	14:36		396	14:58		426	13:44		347	14:19		379	13:57		359
vr	8-10				19:57	37		20:03	47		21:02	41	21:20		41		19:58	32		20:51	44		20:21	44
za	9-10			1:48		308	01:54		318	02:58		373	03:20		403	2:08		326	02:43		358	02:21		338
za	9-10				8:09	30		08:15	40		09:17	40	09:35		40		8:12	28		09:05	40		08:35	40
za	9-10			14:05		329	14:11		339	15:13		398	15:35		428	14:24		346	14:59		378	14:37		358
za	9-10				20:34	38		20:40	48		21:40	42	21:58		42		20:34	34		21:27	46		20:57	46

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafens		
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"			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	10-10			2:27		311	02:33		321	03:33		379	03:55		409	2:46		328	03:21		360	02:59		340
zo	10-10				8:46	30		08:52	40		09:57	40		10:15	40		8:48	28		09:41	40		09:11	40
zo	10-10			14:50		323	14:56		333	15:57		394	16:19		424	15:06		340	15:41		372	15:19		352
zo	10-10				21:10	46		21:16	56		22:18	52		22:36	52		21:10	42		22:03	54		21:33	54
ma	11-10			3:10		309	03:16		319	04:17		379	04:39		409	3:28		324	04:03		356	03:41		336
ma	11-10				9:26	40		09:32	50		10:37	40		10:55	40		9:27	28		10:20	40		09:50	40
ma	11-10			15:40		309	15:46		319	16:45		380	17:07		410	15:53		324	16:28		356	16:06		336
ma	11-10				21:48	58		21:54	68		22:56	69		23:14	69		21:48	55		22:41	67		22:11	67
di	12-10			3:59		302	04:05		312	05:06		371	05:28		401	4:13		315	04:48		347	04:26		327
di	12-10				10:10	50		10:16	60		11:20	60		11:38	60		10:11	48		11:04	60		10:34	60
di	12-10	14:25	LK	16:36		291	16:42		301	17:41		359	18:03		389	16:46		303	17:21		335	16:59		315
di	12-10				22:31	75		22:37	85		23:37	91		23:55	91		22:33	73		23:26	85		22:56	85
wo	13-10			4:55		291	05:01		301	06:03		359	06:25		389	5:07		301	05:42		333	05:20		313
wo	13-10				11:04	60		11:10	70		12:11	80		12:29	80		11:07	58		12:00	70		11:30	70
wo	13-10			17:44		274	17:50		284	18:47		340	19:09		370	17:56		284	18:31		316	18:09		296
wo	13-10				23:30	91		23:36	101		00:30	110		00:48	110		23:37	88		00:30	100		00:00	100
do	14-10			6:05		283	06:11		293		00:30	110		00:48	110		23:37	88		00:30	100		00:00	100
do	14-10				12:42	70		12:48	80	07:10		350	07:32		380	6:21		290	06:56		322	06:34		302
do	14-10			19:02		269	19:08		279		13:37	104		13:55	104		12:51	77		13:44	89		13:14	89
do	14-10				1:22	-10		01:28	0	20:03		332	20:25		362	19:17		278	19:52		310	19:30		290
vr	15-10				1:22	90		01:28	100		02:18	120		02:36	120		1:28	88		02:21	100		01:51	100
vr	15-10			7:25		286	07:31		296	08:31		351	08:53		381	7:44		294	08:19		326	07:57		306
vr	15-10				14:05	68		14:11	78		15:02	95		15:20	95		14:10	68		15:03	80		14:33	80
vr	15-10			20:23		278	20:29		288	21:29		343	21:51		373	20:36		288	21:11		320	20:49		300
za	16-10				2:33	80		02:39	90		03:34	100		03:52	100		2:38	78		03:31	90		03:01	90
za	16-10			8:46		301	08:52		311	09:53		370	10:15		400	8:59		311	09:34		343	09:12		323
za	16-10				15:15	54		15:21	64		16:16	74		16:34	74		15:19	55		16:12	67		15:42	67
za	16-10			21:34		296	21:40		306	22:39		365	23:01		395	21:46		308	22:21		340	21:59		320
zo	17-10				3:42	60		03:48	70		04:47	80		05:05	80		3:47	58		04:40	70		04:10	70
zo	17-10			9:51		319	09:57		329	10:56		391	11:18		421	10:04		331	10:39		363	10:17		343
zo	17-10				16:28	40		16:34	50		17:30	50		17:48	50		16:31	41		17:24	53		16:54	53
zo	17-10			22:32		311	22:38		321	23:42		382	00:04		0	22:45		325	23:20		357	22:58		337
ma	18-10				4:51	50		04:57	60		05:54	50		00:04	412		4:54	48		05:47	60		05:17	60
ma	18-10			10:45		329	10:51		339	11:52		402	06:12		50	10:59		343	11:34		375	11:12		355
ma	18-10				17:25	32		17:31	42		18:27	35		12:14	432		17:27	33		18:20	45		17:50	45
ma	18-10			23:23		316	23:29		326	00:43		386		18:45	35	23:35		333	00:10		365	23:48		345

getijden 2016				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"			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	19-10				5:45	40		05:51	50	00:43		386	01:05		416		5:47	38	00:10		365	06:10		50
di	19-10			11:31		329	11:37		339		06:48	40		07:06	40	11:48		344		06:40	50	12:01		356
di	19-10				18:11	34		18:17	44	12:41		398	13:03		428		18:12	34	12:23		376		18:35	46
di	19-10	21:12	NM	0:05		312	00:11		322		19:14	36		19:32	36	0:20		331,4		19:05	46	00:33		343
wo	20-10			0:05		312	00:11		322	01:33		379	01:55		409	0:20		331	00:55		363	00:33		343
wo	20-10				6:29	40		06:35	50		07:33	50		07:51	50		6:31	38		07:24	50		06:54	50
wo	20-10			12:10		320	12:16		330	13:20		386	13:42		416	12:31		337	13:06		369	12:44		349
wo	20-10				18:50	43		18:56	53		19:55	50		20:13	50		18:51	42		19:44	54		19:14	54
do	21-10			0:37		306	00:43		316	01:57		368	02:19		398	0:57		325	01:32		357	01:10		337
do	21-10				7:06	50		07:12	60		08:10	60		08:28	60		7:08	48		08:01	60		07:31	60
do	21-10			12:42		312	12:48		322	13:47		377	14:09		407	13:06		328	13:41		360	13:19		340
do	21-10				19:21	52		19:27	62		20:28	63		20:46	63		19:23	50		20:16	62		19:46	62
vr	22-10			1:01		306	01:07		316	02:03		368	02:25		398	1:26		323	02:01		355	01:39		335
vr	22-10				7:36	50		07:42	60		08:42	60		09:00	60		7:39	48		08:32	60		08:02	60
vr	22-10			13:13		309	13:19		319	14:17		375	14:39		405	13:37		324	14:12		356	13:50		336
vr	22-10				19:45	55		19:51	65		20:57	67		21:15	67		19:48	53		20:41	65		20:11	65
za	23-10			1:29		311	01:35		321	02:34		378	02:56		408	1:53		327	02:28		359	02:06		339
za	23-10				8:00	50		08:06	60		09:11	60		09:29	60		8:03	48		08:56	60		08:26	60
za	23-10			13:47		310	13:53		320	14:54		378	15:16		408	14:09		324	14:44		356	14:22		336
za	23-10				20:10	56		20:16	66		21:24	66		21:42	66		20:12	56		21:05	68		20:35	68
zo	24-10			2:03		317	02:09		327	03:13		386	03:35		416	2:25		334	03:00		366	02:38		346
zo	24-10				8:26	50		08:32	60		09:41	60		09:59	60		8:29	58		09:22	70		08:52	70
zo	24-10			14:25		308	14:31		318	15:34		378	15:56		408	14:45		324	15:20		356	14:58		336
zo	24-10				20:41	65		20:47	75		21:54	73		22:12	73		20:43	65		21:36	77		21:06	77
ma	25-10			2:41		319	02:47		329	03:53		388	04:15		418	3:02		336	03:37		368	03:15		348
ma	25-10				8:58	60		09:04	70		10:14	70		10:32	70		9:02	68		09:55	80		09:25	80
ma	25-10			15:03		303	15:09		313	16:13		371	16:35		401	15:23		319	15:58		351	15:36		331
ma	25-10				21:13	84		21:19	94		22:26	94		22:44	94		21:16	85		22:09	97		21:39	97
di	26-10			3:19		317	03:25		327	04:32		383	04:54		413	3:39		333	04:14		365	03:52		345
di	26-10				9:33	80		09:39	90		10:49	90		11:07	90		9:38	88		10:31	100		10:01	100
di	26-10			15:40		294	15:46		304	16:49		361	17:11		391	16:01		309	16:36		341	16:14		321
di	26-10				21:43	106		21:49	116		22:58	119		23:16	119		21:47	108		22:40	120		22:10	120
wo	27-10			3:56		313	04:02		323	05:07		377	05:29		407	4:17		327	04:52		359	04:30		339
wo	27-10				10:11	100		10:17	110		11:24	110		11:42	110		10:16	108		11:09	120		10:39	120
wo	27-10			16:21		286	16:27		296	17:25		351	17:47		381	16:41		300	17:16		332	16:54		312
wo	27-10				22:15	124		22:21	134		23:33	138		23:51	138		22:19	128		23:12	140		22:42	140

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (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
			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		
do	28-10	0:22	EK	4:40		311	04:46		321	05:44		375	06:06		405	4:58		323	05:33		355	05:11		335
do	28-10				10:58	110		11:04	120		12:05	130		12:23	130		11:03	118		11:56	130		11:26	130
do	28-10			17:13		281	17:19		291	18:09		347	18:31		377	17:28		294	18:03		326	17:41		306
do	28-10				23:07	134		23:13	144		00:17	140		00:35	140		23:11	139		00:04	150		23:34	151
vr	29-10			4:35		312	04:41		322		00:17	140		00:35	140	4:47		322		00:04	150	05:00		334
vr	29-10				10:57	122		11:03	132	05:33		377	05:55		407		11:00	125	05:22		354		11:23	137
vr	29-10			17:16		283	17:22		293		11:55	138		12:13	138	17:24		293		11:53	137	17:37		305
vr	29-10				23:13	133		23:19	143	18:14		347	18:36		377		23:17	137	17:59		325		23:40	149
za	30-10			5:40		316	05:46		326		00:12	151		00:30	151	5:48		325		00:10	149	06:01		337
za	30-10				12:03	114		12:09	124	06:43		381	07:05		411		12:04	117	06:23		357		12:27	129
za	30-10			18:30		290	18:36		300		12:56	135		13:14	135	18:31		299		12:57	129	18:44		311
za	30-10				0:23	121		00:29	131	19:33		356	19:55		386		0:24	-12	19:06		331		00:47	0
zo	31-10				0:23	121		00:29	131		01:19	144		01:37	144		0:24	124		01:17	136		00:47	136
zo	31-10			6:55		322	07:01		332	08:03		390	08:25		420	7:00		331	07:35		363	07:13		343
zo	31-10				13:14	96		13:20	106		14:14	121		14:32	121		13:14	98		14:07	110		13:37	110
zo	31-10			19:45		301	19:51		311	20:46		369	21:08		399	19:50		309	20:25		341	20:03		321

getijden 2016				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"		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	1-11				1:38	102		01:44	112		02:45	124		03:03	124		1:37	104		02:30	116		02:00	116
ma	1-11			8:09		329	08:15		339	09:14		400	09:36		430	8:19		340	08:54		372	08:32		352
ma	1-11				14:27	74		14:33	84		15:37	92		15:55	92		14:33	74		15:26	86		14:56	86
ma	1-11			20:51		311	20:57		321	21:56		382	22:18		412	21:00		321	21:35		353	21:13		333
di	2-11				2:50	81		02:56	91		04:01	94		04:19	94		2:59	81		03:52	93		03:22	93
di	2-11			9:09		332	09:15		342	10:16		404	10:38		434	9:21		346	09:56		378	09:34		358
di	2-11				15:28	56		15:34	66		16:36	67		16:54	67		15:35	53		16:28	65		15:58	65
di	2-11			21:45		314	21:51		324	22:55		387	23:17		417	21:56		329	22:31		361	22:09		341
wo	3-11				3:50	65		03:56	75		04:57	74		05:15	74		3:58	61		04:51	73		04:21	73
wo	3-11			9:59		330	10:05		340	11:09		401	11:31		431	10:13		347	10:48		379	10:26		359
wo	3-11				16:20	45		16:26	55		17:26	53		17:44	53		16:26	41		17:19	53		16:49	53
wo	3-11			22:32		312	22:38		322	23:45		384	00:07		414	22:43		330	23:18		362	22:56		342
do	4-11				4:40	54		04:46	64		05:46	61		00:07	414		4:47	49		05:40	61		05:10	61
do	4-11	6:23 VM		10:42		326	10:48		336	11:56		395	06:04	61	10:58		345	11:33		377	11:11		357	
do	4-11				17:07	40		17:13	50		18:12	46		12:18	425		17:11	35		18:04	47		17:34	47
do	4-11			23:11		310	23:17		320	00:26		0	18:30	46	23:26		329	00:01		361	23:39		341	
vr	5-11				5:26	45		05:32	55	00:26		378	00:48		408		5:31	40	00:01		361		05:54	52
vr	5-11			11:21		324	11:27		334		06:31	51		06:49	51	11:41		343		06:24	52	11:54		355
vr	5-11				17:51	36		17:57	46	12:37		391	12:59		421		17:54	33	12:16		375		18:17	45
vr	5-11			23:45		311	23:51		321		18:56	41		19:14	41	0:05		330		18:47	45	00:18		342
za	6-11				6:09	35		06:15	45	01:01		377	01:23		407	0:05		330	00:40		362	00:18		342
za	6-11			12:03		324	12:09		334		07:16	39		07:34	39		6:13	32		07:06	44		06:36	44
za	6-11				18:33	33		18:39	43	13:16		390	13:38		420	12:24		342	12:59		374	12:37		354
za	6-11			0:21		316	00:27		326		19:39	37		19:57	37		18:35	31		19:28	43		18:58	43
zo	7-11			0:21		316	00:27		326	01:34		382	01:56		412	0:45		333	01:20		365	00:58		345
zo	7-11				6:52	27		06:58	37		08:00	29		08:18	29		6:54	25		07:47	37		07:17	37
zo	7-11			12:48		322	12:54		332	13:57		389	14:19		419	13:08		339	13:43		371	13:21		351
zo	7-11				19:14	35		19:20	45		20:21	39		20:39	39		19:14	33		20:07	45		19:37	45
ma	8-11			1:04		319	01:10		329	02:12		387	02:34		417	1:27		334	02:02		366	01:40		346
ma	8-11				7:35	24		07:41	34		08:44	27		09:02	27		7:35	23		08:28	35		07:58	35
ma	8-11			13:38		314	13:44		324	14:43		383	15:05		413	13:55		330	14:30		362	14:08		342
ma	8-11				19:55	42		20:01	52		21:03	49		21:21	49		19:53	40		20:46	52		20:16	52
di	9-11			1:52		316	01:58		326	02:58		387	03:20		417	2:12		330	02:47		362	02:25		342
di	9-11				8:19	31		08:25	41		09:30	37		09:48	37		8:17	29		09:10	41		08:40	41
di	9-11			14:30		299	14:36		309	15:34		368	15:56		398	14:46		313	15:21		345	14:59		325
di	9-11				20:36	56		20:42	66		21:45	68		22:03	68		20:33	54		21:26	66		20:56	66

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhör (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	10-11			2:43		308	02:49		318	03:48		380	04:10		410	3:01		321	03:36		353	03:14		333
wo	10-11				9:08	44		09:14	54		10:19	56		10:37	56		9:06	43		09:59	55		09:29	55
wo	10-11			15:28		282	15:34		292	16:30		350	16:52		380	15:43		295	16:18		327	15:56		307
wo	10-11	21:36	LK		21:22	73		21:28	83		22:30	91		22:48	91		21:21	72		22:14	84		21:44	84
do	11-11			3:40		298	03:46		308	04:45		369	05:07		399	3:57		308	04:32		340	04:10		320
do	11-11				10:13	59		10:19	69		11:19	77		11:37	77		10:16	59		11:09	71		10:39	71
do	11-11			16:32		270	16:38		280	17:33		336	17:55		366	16:48		281	17:23		313	17:01		293
do	11-11				22:35	87		22:41	97		23:36	111		23:54	111		22:42	88		23:35	100		23:05	100
vr	12-11			4:45		292	04:51		302	05:49		361	06:11		391	5:05		301	05:40		333	05:18		313
vr	12-11				11:34	65		11:40	75		12:30	86		12:48	86		11:38	65		12:31	77		12:01	77
vr	12-11			17:42		268	17:48		278	18:46		333	19:08		363	17:57		279	18:32		311	18:10		291
vr	12-11				0:00	88		00:06	98		00:58	114		01:16	114		0:05	89		00:58	101		00:28	101
za	13-11				0:00	88		00:06	98		00:58	114		01:16	114		0:05	89		00:58	101		00:28	101
za	13-11			5:58		294	06:04		304	07:07		362	07:29		392	6:18		303	06:53		335	06:31		315
za	13-11				12:40	60		12:46	70		13:37	81		13:55	81		12:43	61		13:36	73		13:06	73
za	13-11			18:57		277	19:03		287	20:07		345	20:29		375	19:08		288	19:43		320	19:21		300
zo	14-11				1:06	78		01:12	88		02:06	100		02:24	100		1:09	80		02:02	92		01:32	92
zo	14-11			7:15		303	07:21		313	08:26		374	08:48		404	7:29		314	08:04		346	07:42		326
zo	14-11				13:43	52		13:49	62		14:44	69		15:02	69		13:46	55		14:39	67		14:09	67
zo	14-11			20:08		293	20:14		303	21:14		364	21:36		394	20:18		304	20:53		336	20:31		316
ma	15-11				2:11	67		02:17	77		03:14	83		03:32	83		2:16	69		03:09	81		02:39	81
ma	15-11			8:24		314	08:30		324	09:29		387	09:51		417	8:36		326	09:11		358	08:49		338
ma	15-11				14:54	43		15:00	53		15:56	54		16:14	54		14:58	46		15:51	58		15:21	58
ma	15-11			21:07		305	21:13		315	22:15		376	22:37		406	21:19		318	21:54		350	21:32		330
di	16-11				3:22	55		03:28	65		04:24	64		04:42	64		3:28	55		04:21	67		03:51	67
di	16-11			9:20		317	09:26		327	10:25		389	10:47		419	9:35		331	10:10		363	09:48		343
di	16-11				15:56	37		16:02	47		16:56	42		17:14	42		15:59	39		16:52	51		16:22	51
di	16-11			21:58		308	22:04		318	23:11		377	23:33		407	22:11		324	22:46		356	22:24		336
wo	17-11				4:20	46		04:26	56		05:20	53		05:38	53		4:23	45		05:16	57		04:46	57
wo	17-11			10:07		311	10:13		321	11:15		380	11:37		410	10:26		327	11:01		359	10:39		339
wo	17-11				16:43	39		16:49	49		17:44	43		18:02	43		16:45	39		17:38	51		17:08	51
wo	17-11			22:38		304	22:44		314	23:55		369	00:17		399	22:55		322	23:30		354	23:08		334
do	18-11				5:04	46		05:10	56		06:06	53		06:24	53		5:07	43		06:00	55		05:30	55
do	18-11			10:45		301	10:51		311	11:51		366		06:24	53	11:08		318	11:43		350	11:21		330
do	18-11	12:42	NM		17:20	46		17:26	56		18:25	53	12:13		396		17:23	46		18:16	58		17:46	58
do	18-11			23:06		300	23:12		310	00:10		364		18:43	53	23:29		319	00:04		351	23:42		331

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (Greetsiel)			Juist, Hafens			
maand	dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm			
					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"			53°37'27"N 6°54'21"E			53°32'57"N,7°02'09"E			53°40'21"N 6°59'45"E		
vr		19-11				5:41	49		05:47	59	00:10		364	00:32		394		5:44	47	00:04		351	06:07	59	
vr		19-11			11:16		296	11:22		306		06:44	58		07:02	58		11:43		311		06:37	59	11:56	323
vr		19-11				17:49	52		17:55	62	12:17		360	12:39		390		17:54	51	12:18		343		18:17	63
vr		19-11			23:28		305	23:34		315		18:58	63		19:16	63		23:56		321		18:47	63	00:09	333
za		20-11				6:10	51		06:16	61	00:30		372	00:52		402		23:56		321		00:31	353	00:09	333
za		20-11			11:47		298	11:53		308		07:16	60		07:34	60		6:14	50		07:07	62		06:37	62
za		20-11				18:13	53		18:19	63	12:49		366	13:11		396		12:14		312		12:49	344	12:27	324
za		20-11			0:00		325	00:06		326		19:27	64		19:45	64		18:19	53		19:12	65		18:42	65
zo		21-11			0:00		325	00:06		326	01:06		387	01:28		417		0:25		330	01:00		362	00:38	342
zo		21-11				6:35	51		06:41	61		07:46	57		08:04	57		6:39	52		07:32	64		07:02	64
zo		21-11			12:24		304	12:30		314	13:29		375	13:51		405		12:47		318	13:22		350	13:00	330
zo		21-11				18:43	55		18:49	65		19:57	63		20:15	63		18:47	57		19:40	69		19:10	69
ma		22-11			0:38		325	00:44		335	01:47		398	02:09		428		1:00		340	01:35		372	01:13	352
ma		22-11				7:05	55		07:11	65		08:18	58		08:36	58		7:09	57		08:02	69		07:32	69
ma		22-11			13:05		307	13:11		317	14:12		380	14:34		410		13:25		321	14:00		353	13:38	333
ma		22-11				19:17	66		19:23	76		20:29	72		20:47	72		19:20	69		20:13	81		19:43	81
di		23-11			1:18		328	01:24		338	02:29		401	02:51		431		1:38		343	02:13		375	01:51	355
di		23-11				7:39	67		07:45	77		08:53	70		09:11	70		7:43	69		08:36	81		08:06	81
di		23-11			13:45		303	13:51		313	14:52		375	15:14		405		14:03		318	14:38		350	14:16	330
di		23-11				19:50	85		19:56	95		21:02	93		21:20	93		19:54	88		20:47	100		20:17	100
wo		24-11			1:55		325	02:01		335	03:07		395	03:29		425		2:14		340	02:49		372	02:27	352
wo		24-11				8:13	84		08:19	94		09:27	90		09:45	90		8:19	86		09:12	98		08:42	98
wo		24-11			14:21		294	14:27		304	15:29		363	15:51		393		14:39		308	15:14		340	14:52	320
wo		24-11				20:17	103		20:23	113		21:33	114		21:51	114		20:25	108		21:18	120		20:48	120
do		25-11			2:28		320	02:34		330	03:40		387	04:02		417		2:48		334	03:23		366	03:01	346
do		25-11				8:48	97		08:54	107		10:01	106		10:19	106		8:55	100		09:48	112		09:18	112
do		25-11			14:56		285	15:02		295	16:02		352	16:24		382		15:15		299	15:50		331	15:28	311
do		25-11				20:45	113		20:51	123		22:07	125		22:25	125		20:54	120		21:47	132		21:17	132
vr		26-11			3:06		318	03:12		328	04:14		384	04:36		414		3:24		330	03:59		362	03:37	342
vr		26-11				9:30	102		09:36	112		10:39	111		10:57	111		9:36	106		10:29	118		09:59	118
vr		26-11	18:03	EK	15:40		281	15:46		291	16:40		347	17:02		377		15:57		294	16:32		326	16:10	306
vr		26-11				21:32	115		21:38	125		22:48	125		23:06	125		21:38	122		22:31	134		22:01	134
za		27-11			3:55		317	04:01		327	04:58		383	05:20		413		4:10		329	04:45		361	04:23	341
za		27-11				10:22	98		10:28	108		11:25	107		11:43	107		10:26	103		11:19	115		10:49	115
za		27-11			16:35		282	16:41		292	17:33		347	17:55		377		16:47		294	17:22		326	17:00	306
za		27-11				22:34	110		22:40	120		23:39	120		23:57	120		22:40	117		23:33	129		23:03	129

getijden 2016				Borkum, Südstrand			Borkum, Fischerbalje			Knock			Emden, Neue Seeschleuse			Memmert			Leybucht, Leyhörn (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
zo	28-11			4:52		317	04:58		327	05:54		383	06:16		413	5:04		329	05:39		361	05:17		341
zo	28-11				11:20	89		11:26	99		12:19	100		12:37	100		11:24	93		12:17	105		11:47	105
zo	28-11			17:40		286	17:46		296	18:51		352	19:13		382	17:46		298	18:21		330	17:59		310
zo	28-11				23:39	100		23:45	110		00:39	114		00:57	114		23:43	105		00:36	117		00:06	117
ma	29-11			5:57		317	06:03		327		00:39	114		00:57	114		23:43	105		00:36	117		00:06	117
ma	29-11				12:25	77		12:31	87	07:13		383	07:35		413	6:06		329	06:41		361	06:19		341
ma	29-11			18:56		293	19:02		303		13:24	92		13:42	92		12:27	80		13:20	92		12:50	92
ma	29-11				0:47	88		00:53	98	20:05		362	20:27		392	18:55		304	19:30		336	19:08		316
di	30-11				0:47	88		00:53	98		01:49	106		02:07	106		0:49	92		01:42	104		01:12	104
di	30-11			7:11		317	07:17		327	08:28		387	08:50		417	7:18		329	07:53		361	07:31		341
di	30-11				13:34	63		13:40	73		14:40	79		14:58	79		13:37	66		14:30	78		14:00	78
di	30-11			20:08		301	20:14		311	21:13		372	21:35		402	20:13		311	20:48		343	20:26		323

getijden 2016				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	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"			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	1-12				1:59	75		02:05	85		03:09	90		03:27	90		2:05	78		02:58	90		02:28	90
wo	1-12			8:24		318	08:30		328	09:34		389	09:56		419	8:35		331	09:10		363	08:48		343
wo	1-12				14:41	51		14:47	61		15:50	61		16:08	61		14:49	52		15:42	64		15:12	64
wo	1-12			21:08		305	21:14		315	22:16		378	22:38		408	21:18		319	21:53		351	21:31		331
do	2-12				3:06	62		03:12	72		04:16	70		04:34	70		3:19	62		04:12	74		03:42	74
do	2-12			9:22		317	09:28		327	10:33		388	10:55		418	9:38		332	10:13		364	09:51		344
do	2-12				15:40	43		15:46	53		16:48	48		17:06	48		15:49	42		16:42	54		16:12	54
do	2-12			21:59		306	22:05		316	23:10		379	23:32		409	22:12		323	22:47		355	22:25		335
vr	3-12				4:05	50		04:11	60		05:12	55		05:30	55		4:16	48		05:09	60		04:39	60
vr	3-12			10:12		315	10:18		325	11:25		385	11:47		415	10:31		332	11:06		364	10:44		344
vr	3-12	16:47 VM			16:33	37		16:39	47		17:40	41		17:58	41		16:41	35		17:34	47		17:04	47
vr	3-12			22:42		307	22:48		317	23:56		377	00:18		407	22:59		324	23:34		356	23:12		336
za	4-12				4:59	38		05:05	48		06:05	42		00:18	407		5:07	35		06:00	47		05:30	47
za	4-12			10:59		314	11:05		324	12:14		381		06:23	42	11:20		331	11:55		363	11:33		343
za	4-12				17:24	32		17:30	42		18:30	36	12:36		411		17:30	31		18:23	43		17:53	43
za	4-12			23:20		310	23:26		320	00:37		377		18:48	36	23:43		327	00:18		359	23:56		339
zo	5-12				5:51	25		05:57	35	00:37		377	00:59		407		5:55	24	00:18		359		06:18	36
zo	5-12			11:47		312	11:53		322		06:56	28		07:14	28	12:09		330		06:48	36	12:22		342
zo	5-12				18:13	28		18:19	38	13:00		378	13:22		408		18:16	28	12:44		362		18:39	40
zo	5-12			0:02		315	00:08		325		19:19	33		19:37	33	0:27		-12		19:09	40	00:40		0
ma	6-12			0:02		315	00:08		325	01:15		381	01:37		411	0:27		331	01:02		363	00:40		343
ma	6-12				6:41	15		06:47	25		07:47	17		08:05	17		6:43	15		07:36	27		07:06	27
ma	6-12			12:37		308	12:43		318	13:47		374	14:09		404	12:57		325	13:32		357	13:10		337
ma	6-12				19:01	28		19:07	38		20:07	35		20:25	35		19:01	28		19:54	40		19:24	40
di	7-12			0:49		317	00:55		327	01:57		384	02:19		414	1:12		332	01:47		364	01:25		344
di	7-12				7:31	12		07:37	22		08:37	15		08:55	15		7:30	13		08:23	25		07:53	25
di	7-12			13:28		300	13:34		310	14:35		365	14:57		395	13:47		317	14:22		349	14:00		329
di	7-12				19:48	34		19:54	44		20:55	44		21:13	44		19:46	35		20:39	47		20:09	47
wo	8-12			1:39		315	01:45		325	02:43		383	03:05		413	2:00		329	02:35		361	02:13		341
wo	8-12				8:21	19		08:27	29		09:27	24		09:45	24		8:19	20		09:12	32		08:42	32
wo	8-12			14:20		288	14:26		298	15:24		354	15:46		384	14:39		304	15:14		336	14:52		316
wo	8-12				20:35	47		20:41	57		21:42	60		22:00	60		20:32	47		21:25	59		20:55	59
do	9-12			2:29		309	02:35		319	03:33		378	03:55		408	2:50		322	03:25		354	03:03		334
do	9-12				9:13	32		09:19	42		10:18	40		10:36	40		9:12	33		10:05	45		09:35	45
do	9-12			15:15		276	15:21		286	16:17		341	16:39		371	15:32		291	16:07		323	15:45		303
do	9-12				21:24	61		21:30	71		22:31	79		22:49	79		21:24	62		22:17	74		21:47	74

getijden 2016				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"			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	19-12				5:47	48		05:53	58	00:08		368	00:30		398		5:51	48	00:06		349		06:14	60
zo	19-12			11:28		288	11:34		298		06:53	55	07:11	55	11:55		303	06:44	60	12:08		315		315
zo	19-12				17:50	52		17:56	62	12:28		354	12:50		384		17:57	53	12:30		335		18:20	65
zo	19-12			23:39		314	23:45		324		19:03	62	19:21	62	0:03		329	18:50	65	00:16		341		341
ma	20-12				6:17	49		06:23	59	00:44		385	01:06		415		0:03	329	00:38		361		00:16	341
ma	20-12			12:06		298	12:12		308		07:26	54	07:44	54		6:21	50	07:14	62		06:44	62		62
ma	20-12				18:24	54		18:30	64	13:08		367	13:30		397	12:29		312	13:04		344	12:42		324
ma	20-12			0:19		325	00:25		335		19:36	62	19:54	62		18:29	56	19:22	68		18:52	68		68
di	21-12			0:19		325	00:25		335	01:25		397	01:47		427	0:40		340	01:15		372	00:53		352
di	21-12				6:49	52		06:55	62	08:00		55	08:18	55		6:53	53	07:46	65		07:16	65		65
di	21-12			12:47		303	12:53		313	13:51		374	14:13		404	13:07		317	13:42		349	13:20		329
di	21-12				18:59	61		19:05	71	20:10		68	20:28	68		19:03	64	19:56	76		19:26	76		76
wo	22-12			0:59		328	01:05		338	02:06		400	02:28		430	1:18		343	01:53		375	01:31		355
wo	22-12				7:23	60		07:29	70	08:34		63	08:52	63		7:28	60	08:21	72		07:51	72		72
wo	22-12			13:27		299	13:33		309	14:31		370	14:53		400	13:44		314	14:19		346	13:57		326
wo	22-12				19:32	74		19:38	84	20:42		82	21:00	82		19:37	76	20:30	88		20:00	88		88
do	23-12			1:35		324	01:41		334	02:42		394	03:04		424	1:53		339	02:28		371	02:06		351
do	23-12				7:57	70		08:03	80	09:08		76	09:26	76		8:02	70	08:55	82		08:25	82		82
do	23-12			14:03		290	14:09		300	15:07		359	15:29		389	14:19		305	14:54		337	14:32		317
do	23-12				19:59	85		20:05	95	21:13		95	21:31	95		20:08	88	21:01	100		20:31	100		100
vr	24-12			2:06		317	02:12		327	03:15		386	03:37		416	2:24		332	02:59		364	02:37		344
vr	24-12				8:29	76		08:35	86	09:41		84	09:59	84		8:36	77	09:29	89		08:59	89		89
vr	24-12			14:34		281	14:40		291	15:39		348	16:01		378	14:51		296	15:26		328	15:04		308
vr	24-12				20:28	88		20:34	98	21:46		98	22:04	98		20:38	92	21:31	104		21:01	104		104
za	25-12			2:40		314	02:46		324	03:49		381	04:11		411	2:58		329	03:33		361	03:11		341
za	25-12				9:05	76		09:11	86	10:16		83	10:34	83		9:12	78	10:05	90		09:35	90		90
za	25-12			15:11		276	15:17		286	16:14		342	16:36		372	15:29		292	16:04		324	15:42		304
za	25-12				21:08	84		21:14	94	22:24		92	22:42	92		21:17	90	22:10	102		21:40	102		102
zo	26-12			3:23		313	03:29		323	04:29		379	04:51		409	3:40		327	04:15		359	03:53		339
zo	26-12				9:50	70		09:56	80	10:58		76	11:16	76		9:55	73	10:48	85		10:18	85		85
zo	26-12			15:59		277	16:05		287	16:56		341	17:18		371	16:14		292	16:49		324	16:27		304
zo	26-12				22:01	78		22:07	88	23:10		85	23:28	85		22:07	85	23:00	97		22:30	97		97
ma	27-12			4:15		311	04:21		321	05:16		377	05:38		407	4:30		326	05:05		358	04:43		338
ma	27-12	10:20	EK		10:42	64		10:48	74	11:47		71	12:05	71		10:47	68	11:40	80		11:10	80		80
ma	27-12			16:54		279	17:00		289	17:51		342	18:13		372	17:07		294	17:42		326	17:20		306
ma	27-12				23:00	74		23:06	84	00:04		83	00:22	83		23:05	80	23:58	92		23:28	92		92

getijden 2016				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		
	maan			HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
di	28-12			5:12		308	05:18		318		00:04	83		00:22	83	5:26		322	06:01		354	05:39		334
di	28-12				11:41	61		11:47	71	06:14		372	06:36		402		11:45	64		12:38	76		12:08	76
di	28-12			17:57		280	18:03		290		12:44	71		13:02	71	18:07		294	18:42		326	18:20		306
di	28-12				0:04	72		00:10	82	19:15		344	19:37		374		0:08	77		01:01	89		00:31	89
wo	29-12				0:04	72		00:10	82		01:07	86		01:25	86		0:08	77		01:01	89		00:31	89
wo	29-12			6:16		303	06:22		313	07:38		367	08:00		397	6:29		316	07:04		348	06:42		328
wo	29-12				12:47	58		12:53	68		13:53	72		14:11	72		12:52	61		13:45	73		13:15	73
wo	29-12			19:12		283	19:18		293	20:29		349	20:51		379	19:20		295	19:55		327	19:33		307
do	30-12				1:14	68		01:20	78		02:23	84		02:41	84		1:20	72		02:13	84		01:43	84
do	30-12			7:31		300	07:37		310	08:52		367	09:14		397	7:46		312	08:21		344	07:59		324
do	30-12				13:59	52		14:05	62		15:09	63		15:27	63		14:06	54		14:59	66		14:29	66
do	30-12			20:27		287	20:33		297	21:38		355	22:00		385	20:39		300	21:14		332	20:52		312
vr	31-12				2:28	58		02:34	68		03:38	69		03:56	69		2:41	60		03:34	72		03:04	72
vr	31-12			8:46		299	08:52		309	09:59		367	10:21		397	9:05		313	09:40		345	09:18		325
vr	31-12				15:05	44		15:11	54		16:14	50		16:32	50		15:16	44		16:09	56		15:39	56
vr	31-12			21:28		292	21:34		302	22:40		361	23:02		391	21:42		307	22:17		339	21:55		319