

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
vr	1-1			03:52		366	03:43		341	3:56		331	04:07		361	03:43		312	4:22		391	4:28		401
vr	1-1				10:21	83		10:26	72		10:33	62		10:47	92		10:39	87		10:53	32		10:59	42
vr	1-1			16:29		347	16:18		318	16:31		308	16:42		338	16:19		293	16:57		368	17:03		378
vr	1-1				22:27	100		22:39	94		22:46	84		23:00	114		22:49	102		23:06	54		23:12	64
za	2-1	6:30	LK	04:34		364	04:26		338	4:39		328	04:50		358	04:26		310	5:05		388	5:11		398
za	2-1				11:06	87		11:08	76		11:15	66		11:29	96		11:22	89		11:35	36		11:41	46
za	2-1			17:18		344	17:06		314	17:19		304	17:30		334	17:08		290	17:45		364	17:51		374
za	2-1				23:18	104		23:25	100		23:32	90		23:46	120		23:39	106			-60		23:58	70
zo	3-1			05:27		356	05:18		328	5:31		318	05:42		348	05:23		302		23:52	60	6:03		388
zo	3-1				12:00	92		11:57	85		12:04	75		12:18	105		12:16	94	5:57		378		12:30	55
zo	3-1			18:13		340	18:02		308	18:15		298	18:26		328	18:12		285		12:24	45	18:47		368
zo	3-1																		18:41		358			
ma	4-1				00:18	109		00:21	110		0:28	100		00:42	130		00:40	110		0:48	70		0:54	80
ma	4-1			06:28		346	06:19		315	6:32		305	06:43		335	06:33		290	6:58		365	7:04		375
ma	4-1				13:00	97		12:57	97		13:04	87		13:18	117		13:19	99		13:24	57		13:30	67
ma	4-1			19:11		337	19:04		304	19:17		294	19:28		324	19:21		282	19:43		354	19:49		364
di	5-1				01:23	111		01:30	116		1:37	106		01:51	136		01:51	112		1:57	76		2:03	86
di	5-1			07:31		337	07:24		305	7:37		295	07:48		325	07:44		282	8:03		355	8:09		365
di	5-1				14:02	99		14:06	101		14:13	91		14:27	121		14:26	101		14:33	61		14:39	71
di	5-1			20:10		339	20:08		309	20:21		299	20:32		329	20:25		284	20:47		359	20:53		369
wo	6-1				02:31	107		02:44	109		2:51	99		03:05	129		03:02	107		3:11	69		3:17	79
wo	6-1			08:32		335	08:28		305	8:41		295	08:52		325	08:48		281	9:07		355	9:13		365
wo	6-1				15:03	96		15:13	93		15:20	83		15:34	113		15:29	97		15:40	53		15:46	63
wo	6-1			21:09		347	21:08		322	21:21		312	21:32		342	21:21		293	21:47		372	21:53		382
do	7-1				03:39	97		03:50	92		3:57	82		04:11	112		04:03	97		4:17	52		4:23	62
do	7-1			09:30		339	09:28		314	9:41		304	09:52		334	09:43		286	10:07		364	10:13		374
do	7-1				16:01	87		16:11	78		16:18	68		16:32	98		16:23	89		16:38	38		16:44	48
do	7-1			22:03		360	22:02		341	22:15		331	22:26		361	22:11		306	22:41		391	22:47		401
vr	8-1				04:37	83		04:46	71		4:53	61		05:07	91		04:55	84		5:13	31		5:19	41
vr	8-1			10:26		347	10:22		328	10:35		318	10:46		348	10:32		295	11:01		378	11:07		388
vr	8-1				16:54	75		17:03	61		17:10	51		17:24	81		17:10	77		17:30	21		17:36	31
vr	8-1			22:54		373	22:50		359	23:03		349	23:14		379	22:57		319	23:29		409	23:35		419
za	9-1				05:28	68		05:35	53		5:42	43		05:56	73		05:43	70		6:02	13		6:08	23
za	9-1			11:17		356	11:12		341	11:25		331	11:36		361	11:18		303	11:51		391	11:57		401
za	9-1				17:44	62		17:51	47		17:58	37		18:12	67		17:56	66		18:18	7		18:24	17
za	9-1			23:41		382	23:36		372	23:49		362				23:41		328			-60			

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maandag				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	2:30	NM		06:16	55		06:21	39		6:28	29	00:00		392		06:29	58	0:15		422	0:21		432
zo	10-1			12:06		361	12:00		347	12:13		337		06:42	59	12:03		307		6:48	-1		6:54	9
zo	10-1				18:31	53		18:36	38		18:43	28	12:24		367		18:41	57	12:39		397	12:45		407
zo	10-1													18:57	58			332		19:03	-2		19:09	8
ma	11-1			00:26		386	00:20		376	0:33		366	00:44		396	00:23		332	0:59		426	1:05		436
ma	11-1				07:01	45		07:05	30		7:12	20		07:26	50		07:14	49		7:32	-10		7:38	0
ma	11-1			12:51		361	12:45		345	12:58		335	13:09		365	12:47		305	13:24		395	13:30		405
ma	11-1				19:14	48		19:20	35		19:27	25		19:41	55		19:25	53		19:47	-5		19:53	5
di	12-1			01:07		384	01:01		373	1:14		363	01:25		393	01:05		330	1:40		423	1:46		433
di	12-1				07:44	39		07:47	25		7:54	15		08:08	45		07:58	44		8:14	-15		8:20	-5
di	12-1			13:34		356	13:28		338	13:41		328	13:52		358	13:30		299	14:07		388	14:13		398
di	12-1				19:55	45		20:01	34		20:08	24		20:22	54		20:07	51		20:28	-6		20:34	4
wo	13-1			01:46		382	01:39		371	1:52		361	02:03		391	01:46		326	2:18		421	2:24		431
wo	13-1				08:25	35		08:28	21		8:35	11		08:49	41		08:39	41		8:55	-19		9:01	-9
wo	13-1			14:15		350	14:07		331	14:20		321	14:31		351	14:12		293	14:46		381	14:52		391
wo	13-1				20:34	42		20:40	32		20:47	22		21:01	52		20:46	48		21:07	-8		21:13	2
do	14-1			02:24		382	02:16		371	2:29		361	02:40		391	02:26		324	2:55		421	3:01		431
do	14-1				09:04	32		09:07	18		9:14	8		09:28	38		09:18	38		9:34	-22		9:40	-12
do	14-1			14:57		346	14:44		327	14:57		317	15:08		347	14:54		289	15:23		377	15:29		387
do	14-1				21:12	39		21:18	29		21:25	19		21:39	49		21:25	44		21:45	-11		21:51	-1
vr	15-1			03:05		382	02:57		374	3:10		364	03:21		394	03:08		325	3:36		424	3:42		434
vr	15-1				09:44	31		09:46	16		9:53	6		10:07	36		09:58	36		10:13	-24		10:19	-14
vr	15-1			15:40		343	15:25		325	15:38		315	15:49		345	15:37		287	16:04		375	16:10		385
vr	15-1				21:53	37		21:58	27		22:05	17		22:19	47		22:08	41		22:25	-13		22:31	-3
za	16-1			03:50		381	03:42		372	3:55		362	04:06		392	03:52		324	4:21		422	4:27		432
za	16-1				10:25	34		10:29	19		10:36	9		10:50	39		10:42	36		10:56	-21		11:02	-11
za	16-1			16:27		338	16:11		319	16:24		309	16:35		339	16:23		283	16:50		369	16:56		379
za	16-1				22:37	41		22:42	32		22:49	22		23:03	52		22:54	43		23:09	-8		23:15	2
zo	17-1	0:26	EK	04:39		372	04:33		362	4:46		352	04:57		382	04:41		318	5:12		412	5:18		422
zo	17-1				11:13	43		11:16	31		11:23	21		11:37	51		11:32	43		11:43	-9		11:49	1
zo	17-1			17:20		330	17:05		307	17:18		297	17:29		327	17:14		276	17:44		357	17:50		367
zo	17-1				23:28	52		23:33	46		23:40	36		23:54	66		23:49	51			-60			
ma	18-1			05:35		357	05:32		342	5:45		332	05:56		362	05:37		305		0:00	6		0:06	16
ma	18-1				12:10	57		12:13	48		12:20	38		12:34	68		12:33	54	6:11		392	6:17		402
ma	18-1			18:23		320	18:12		293	18:25		283	18:36		313	18:14		267		12:40	8		12:46	18
ma	18-1																		18:51		343	18:57		353

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	19-1				00:31	64		00:36	63		0:43	53		00:57	83		00:56	62		1:03	23		1:09	33
di	19-1			06:45		340	06:45		322	6:58		312	07:09		342	06:45		290	7:24		372	7:30		382
di	19-1				13:30	67		13:23	63		13:30	53		13:44	83		13:48	64		13:50	23		13:56	33
di	19-1			19:35		313	19:29		285	19:42		275	19:53		305	19:25		260	20:08		335	20:14		345
wo	20-1				02:01	69		01:54	71		2:01	61		02:15	91		02:18	66		2:21	31		2:27	41
wo	20-1			08:07		330	08:02		311	8:15		301	08:26		331	08:02		280	8:41		361	8:47		371
wo	20-1				14:44	66		14:37	64		14:44	54		14:58	84		15:02	66		15:04	24		15:10	34
wo	20-1			20:53		316	20:43		290	20:56		280	21:07		310	20:39		261	21:22		340	21:28		350
do	21-1				03:16	61		03:12	61		3:19	51		03:33	81		03:34	60		3:39	21		3:45	31
do	21-1			09:27		331	09:16		313	9:29		303	09:40		333	09:19		279	9:55		363	10:01		373
do	21-1				15:56	59		15:48	53		15:55	43		16:09	73		16:14	60		16:15	13		16:21	23
do	21-1			21:59		328	21:50		305	22:03		295	22:14		325	21:50		271	22:29		355	22:35		365
vr	22-1				04:34	48		04:24	42		4:31	32		04:45	62		04:48	47		4:51	2		4:57	12
vr	22-1			10:32		340	10:23		324	10:36		314	10:47		344	10:27		286	11:02		374	11:08		384
vr	22-1				17:06	48		16:56	39		17:03	29		17:17	59		17:19	50		17:23	-1		17:29	9
vr	22-1			22:55		344	22:49		324	23:02		314	23:13		344	22:52		285	23:28		374	23:34		384
za	23-1				05:38	32		05:30	23		5:37	13		05:51	43		05:49	35		5:57	-17		6:03	-7
za	23-1			11:26		351	11:23		337	11:36		327	11:47		357	11:25		295	12:02		387	12:08		397
za	23-1				18:00	37		17:57	27		18:04	17		18:18	47		18:11	42		18:24	-13		18:30	-3
za	23-1			23:44		357	23:42		339	23:55		329			359	23:45		298			-60			
zo	24-1	2:46 VM			06:28	23		06:26	14		6:33	4	00:06		359		06:39	29	0:21		389	0:27		399
zo	24-1			12:14		358	12:16		344	12:29		334		06:47	34	12:15		303		6:53	-26		6:59	-16
zo	24-1				18:47	35		18:49	25		18:56	15	12:40		364		18:57	40	12:55		394	13:01		404
zo	24-1													19:10	45					19:16	-15		19:22	-5
ma	25-1			00:28		365	00:30		346	0:43		336	00:54		366	00:32		306	1:09		396	1:15		406
ma	25-1				07:12	26		07:14	18		7:21	8		07:35	38		07:23	32		7:41	-22		7:47	-12
ma	25-1			12:57		360	13:01		343	13:14		333	13:25		363	13:00		305	13:40		393	13:46		403
ma	25-1				19:27	42		19:32	34		19:39	24		19:53	54		19:37	46		19:59	-6		20:05	4
di	26-1			01:08		367	01:11		346	1:24		336	01:35		366	01:14		308	1:50		396	1:56		406
di	26-1				07:50	37		07:54	32		8:01	22		08:15	52		08:02	42		8:21	-8		8:27	2
di	26-1			13:36		358	13:40		337	13:53		327	14:04		357	13:39		303	14:19		387	14:25		397
di	26-1				20:03	54		20:08	48		20:15	38		20:29	68		20:13	56		20:35	8		20:41	18
wo	27-1			01:44		367	01:45		342	1:58		332	02:09		362	01:48		307	2:24		392	2:30		402
wo	27-1				08:24	50		08:28	45		8:35	35		08:49	65		08:36	54		8:55	5		9:01	15
wo	27-1			14:09		356	14:12		331	14:25		321	14:36		351	14:12		300	14:51		381	14:57		391
wo	27-1				20:31	64		20:39	58		20:46	48		21:00	78		20:45	66		21:06	18		21:12	28

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
do	28-1			02:16		367	02:14		341	2:27		331	02:38		361	02:17		307	2:53		391	2:59		401
do	28-1				08:52	59		08:57	51		9:04	41		09:18	71		09:06	63		9:24	11		9:30	21
do	28-1			14:41		356	14:39		329	14:52		319	15:03		349	14:41		299	15:18		379	15:24		389
do	28-1				20:55	69		21:07	61		21:14	51		21:28	81		21:14	72		21:34	21		21:40	31
vr	29-1			02:47		368	02:42		343	2:55		333	03:06		363	02:44		309	3:21		393	3:27		403
vr	29-1				09:18	61		09:26	50		9:33	40		09:47	70		09:34	66		9:53	10		9:59	20
vr	29-1			15:16		356	15:09		331	15:22		321	15:33		351	15:09		300	15:48		381	15:54		391
vr	29-1				21:24	70		21:37	59		21:44	49		21:58	79		21:43	74		22:04	19		22:10	29
za	30-1			03:21		367	03:14		345	3:27		335	03:38		365	03:15		311	3:53		395	3:59		405
za	30-1				09:49	63		09:57	48		10:04	38		10:18	68		10:04	67		10:24	8		10:30	18
za	30-1			15:53		353	15:42		331	15:55		321	16:06		351	15:43		299	16:21		381	16:27		391
za	30-1				21:58	73		22:10	61		22:17	51		22:31	81		22:16	75		22:37	21		22:43	31
zo	31-1			03:58		362	03:50		341	4:03		331	04:14		361	03:52		307	4:29		391	4:35		401
zo	31-1				10:25	69		10:31	54		10:38	44		10:52	74		10:39	71		10:58	14		11:04	24
zo	31-1			16:34		346	16:20		324	16:33		314	16:44		344	16:22		294	16:59		374	17:05		384
zo	31-1				22:38	81		22:46	68		22:53	58		23:07	88		22:55	81		23:13	28		23:19	38

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"E			
ma	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	1-2	4:28	LK		04:40		351	04:32		328	4:45		318	04:56		348	04:37		297	5:11		378	5:17		388
ma	1-2					11:04	82		11:09	68		11:16	58		11:30	88		11:20	82		11:36	28		11:42	38
ma	1-2				17:19		337	17:03		312	17:16		302	17:27		332	17:09		285	17:42		362	17:48		372
ma	1-2					23:25	92		23:28	83		23:35	73		23:49	103		23:43	92		-60				
di	2-2				05:28		338	05:20		311	5:33		301	05:44		331	05:30		283		23:55	43		0:01	53
di	2-2					11:52	96		11:54	88		12:01	78		12:15	108		12:10	95	5:59		361	6:05		371
di	2-2				18:10		331	17:54		301	18:07		291	18:18		321	18:07		277		12:21	48		12:27	58
di	2-2															120				18:33		351	18:39		361
wo	3-2					00:20	103		00:20	100		0:27	90		00:41	120		00:40	104		0:47	60		0:53	70
wo	3-2				06:24		328	06:17		298	6:30		288	06:41		318	06:34		272	6:56		348	7:02		358
wo	3-2					12:50	106		12:52	105		12:59	95		13:13	125		13:10	106		13:19	65		13:25	75
wo	3-2				19:07		330	18:56		298	19:09		288	19:20		318	19:16		276	19:35		348	19:41		358
do	4-2					01:23	107		01:28	111		1:35	101		01:49	131		01:48	109		1:55	71		2:01	81
do	4-2				07:27		325	07:23		295	7:36		285	07:47		315	07:45		270	8:02		345	8:08		355
do	4-2					13:52	106		14:06	109		14:13	99		14:27	129		14:18	108		14:33	69		14:39	79
do	4-2				20:12		338	20:06		308	20:19		298	20:30		328	20:25		284	20:45		358	20:51		368
vr	5-2					02:31	101		02:52	104		2:59	94		03:13	124		03:05	102		3:19	64		3:25	74
vr	5-2				08:35		331	08:35		303	8:48		293	08:59		323	08:55		276	9:14		353	9:20		363
vr	5-2					14:59	95		15:24	93		15:31	83		15:45	113		15:30	97		15:51	53		15:57	63
vr	5-2				21:20		352	21:18		327	21:31		317	21:42		347	21:29		298	21:57		377	22:03		387
za	6-2					03:48	85		04:07	79		4:14	69		04:28	99		04:15	85		4:34	39		4:40	49
za	6-2				09:48		341	09:46		319	9:59		309	10:10		339	09:58		287	10:25		369	10:31		379
za	6-2					16:13	77		16:31	68		16:38	58		16:52	88		16:36	80		16:58	28		17:04	38
za	6-2				22:24		366	22:21		349	22:34		339	22:45		369	22:27		311	23:00		399	23:06		409
zo	7-2					04:59	64		05:08	52		5:15	42		05:29	72		05:15	65		5:35	12		5:41	22
zo	7-2				10:54		351	10:49		334	11:02		324	11:13		354	10:56		296	11:28		384	11:34		394
zo	7-2					17:19	58		17:28	46		17:35	36		17:49	66		17:33	62		17:55	6		18:01	16
zo	7-2				23:19		375	23:15		362	23:28		352	23:39		382	23:20		319		-60				
ma	8-2					05:54	44		06:01	31		6:08	21		06:22	51		06:09	47	23:54		412	0:00		422
ma	8-2				11:48		356	11:43		340	11:56		330	12:07		360	11:47		298		6:28	-9		6:34	1
ma	8-2	15:39	NM			18:12	43		18:19	31		18:26	21		18:40	51		18:24	48	12:22		390	12:28		400
ma	8-2																				18:46	-9		18:52	1
di	9-2				00:07		377	00:03		366	0:16		356	00:27		386	00:06		320	0:42		416	0:48		426
di	9-2					06:43	29		06:48	18		6:55	8		07:09	38		06:57	34		7:15	-22		7:21	-12
di	9-2				12:36		354	12:31		338	12:44		328	12:55		358	12:32		295	13:10		388	13:16		398
di	9-2					18:59	32		19:04	22		19:11	12		19:25	42		19:10	38		19:31	-18		19:37	-8

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"E		
maandag	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			00:50		376	00:46		365	0:59		355	01:10		385	00:48		318	1:25		415	1:31		425
wo	10-2				07:29	19		07:32	8		7:39	-2		07:53	28		07:43	26		7:59	-32		8:05	-22
wo	10-2			13:20		351	13:15		334	13:28		324	13:39		354	13:13		291	13:54		384	14:00		394
wo	10-2				19:41	24		19:47	13		19:54	3		20:08	33		19:53	30		20:14	-27		20:20	-17
do	11-2			01:31		377	01:25		367	1:38		357	01:49		387	01:29		319	2:04		417	2:10		427
do	11-2				08:11	13		08:13	0		8:20	-10		08:34	20		08:25	21		8:40	-40		8:46	-30
do	11-2			14:01		349	13:54		332	14:07		322	14:18		352	13:54		290	14:33		382	14:39		392
do	11-2				20:21	17		20:27	3		20:34	-7		20:48	23		20:34	23		20:54	-37		21:00	-27
vr	12-2			02:11		380	02:05		373	2:18		363	02:29		393	02:11		322	2:44		423	2:50		433
vr	12-2				08:51	9		08:54	0		9:01	-10		09:15	13		09:05	17		9:21	-47		9:27	-37
vr	12-2			14:42		349	14:33		333	14:46		323	14:57		353	14:36		290	15:12		383	15:18		393
vr	12-2				21:00	11		21:07	-5		21:14	-15		21:28	15		21:14	16		21:34	-45		21:40	-35
za	13-2			02:54		383	02:46		378	2:59		368	03:10		398	02:54		325	3:25		428	3:31		438
za	13-2				09:30	11		09:34	0		9:41	-10		09:55	11		09:44	16		10:01	-49		10:07	-39
za	13-2			15:25		348	15:13		334	15:26		324	15:37		354	15:20		290	15:52		384	15:58		394
za	13-2				21:40	10		21:47	-7		21:54	-17		22:08	13		21:55	14		22:14	-47		22:20	-37
zo	14-2			03:38		379	03:31		374	3:44		364	03:55		394	03:40		322	4:10		424	4:16		434
zo	14-2				10:09	19		10:14	0		10:21	-10		10:35	20		10:25	20		10:41	-40		10:47	-30
zo	14-2			16:10		341	15:56		328	16:09		318	16:20		348	16:04		286	16:35		378	16:41		388
zo	14-2				22:21	18		22:29	3		22:36	-7		22:50	23		22:39	19		22:56	-37		23:02	-27
ma	15-2			04:26		365	04:20		358	4:33		348	04:44		378	04:27		311	4:59		408	5:05		418
ma	15-2	8:46 EK			10:51	34		10:58	18		11:05	8		11:19	38		11:11	33		11:25	-22		11:31	-12
ma	15-2			16:59		329	16:45		313	16:58		303	17:09		333	16:52		275	17:24		363	17:30		373
ma	15-2				23:07	33		23:15	22		23:22	12		23:36	42		23:28	31		23:42	-18		23:48	-8
di	16-2			05:21		343	05:17		333	5:30		323	05:41		353	05:21		292	5:56		383	6:02		393
di	16-2				11:42	54		11:48	44		11:55	34		12:09	64		12:05	50		12:15	4		12:21	14
di	16-2			17:57		313	17:46		293	17:59		283	18:10		313	17:48		261	18:25		343	18:31		353
di	16-2																							
wo	17-2				00:08	51		00:13	46		0:20	36		00:34	66		00:32	47		0:40	6		0:46	16
wo	17-2			06:29		322	06:27		308	6:40		298	06:51		328	06:27		272	7:06		358	7:12		368
wo	17-2				13:05	69		12:53	67		13:00	57		13:14	87		13:19	65		13:20	27		13:26	37
wo	17-2			19:07		303	19:01		280	19:14		270	19:25		300	18:58		251	19:40		330	19:46		340
do	18-2				01:42	59		01:29	62		1:36	52		01:50	82		01:56	56		1:56	22		2:02	32
do	18-2			07:49		311	07:44		297	7:57		287	08:08		317	07:46		261	8:23		347	8:29		357
do	18-2				14:23	70		14:14	74		14:21	64		14:35	94		14:40	69		14:41	34		14:47	44
do	18-2			20:27		306	20:19		284	20:32		274	20:43		304	20:18		252	20:58		334	21:04		344

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maandag				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
vr	19-2				02:58	54		02:52	57		2:59	47		03:13	77		03:18	52		3:19	17		3:25	27
vr	19-2			09:11		317	09:00		304	9:13		294	09:24		324	09:08		264	9:39		354	9:45		364
vr	19-2				15:39	60		15:32	61		15:39	51		15:53	81		15:59	61		15:59	21		16:05	31
vr	19-2			21:39		323	21:31		304	21:44		294	21:55		324	21:38		266	22:10		354	22:16		364
za	20-2				04:21	41		04:10	38		4:17	28		04:31	58		04:37	40		4:37	-2		4:43	8
za	20-2			10:17		334	10:11		323	10:24		313	10:35		343	10:19		278	10:50		373	10:56		383
za	20-2				16:51	45		16:44	39		16:51	29		17:05	59		17:05	47		17:11	-1		17:17	9
za	20-2			22:37		344	22:35		329	22:48		319	22:59		349	22:43		285	23:14		379	23:20		389
zo	21-2				05:23	26		05:18	18		5:25	8		05:39	38		05:36	28		5:45	-22		5:51	-12
zo	21-2			11:12		351	11:12		342	11:25		332	11:36		362	11:15		293	11:51		392	11:57		402
zo	21-2				17:45	33		17:45	22		17:52	12		18:06	42		17:57	37		18:12	-18		18:18	-8
zo	21-2			23:27		360	23:30		346	23:43		336	23:54		366	23:36		300			-60			
ma	22-2				06:11	21		06:13	10		6:20	0		06:34	30		06:25	26	0:09		396	0:15		406
ma	22-2			11:59		359	12:03		349	12:16		339	12:27		369	12:03		302		6:40	-30		6:46	-20
ma	22-2	19:20 VM			18:29	31		18:35	20		18:42	10		18:56	40		18:41	37	12:42		399	12:48		409
ma	22-2																			19:02	-20		19:08	-10
di	23-2			00:11		365	00:16		350	0:29		340	00:40		370	00:20		306	0:55		400	1:01		410
di	23-2				06:53	27		06:58	18		7:05	8		07:19	38		07:05	33		7:25	-22		7:31	-12
di	23-2			12:39		359	12:44		345	12:57		335	13:08		365	12:43		303	13:23		395	13:29		405
di	23-2				19:08	38		19:15	30		19:22	20		19:36	50		19:19	43		19:42	-10		19:48	0
wo	24-2			00:48		364	00:52		346	1:05		336	01:16		366	00:56		305	1:31		396	1:37		406
wo	24-2				07:28	37		07:35	32		7:42	22		07:56	52		07:40	43		8:02	-8		8:08	2
wo	24-2			13:12		356	13:17		337	13:30		327	13:41		357	13:15		301	13:56		387	14:02		397
wo	24-2				19:40	47		19:48	40		19:55	30		20:09	60		19:51	50		20:15	0		20:21	10
do	25-2			01:19		363	01:21		342	1:34		332	01:45		362	01:24		303	2:00		392	2:06		402
do	25-2				07:58	45		08:05	39		8:12	29		08:26	59		08:09	50		8:32	-1		8:38	9
do	25-2			13:41		357	13:42		337	13:55		327	14:06		357	13:43		302	14:21		387	14:27		397
do	25-2				20:06	50		20:15	41		20:22	31		20:36	61		20:20	53		20:42	1		20:48	11
vr	26-2			01:48		365	01:46		345	1:59		335	02:10		365	01:50		306	2:25		395	2:31		405
vr	26-2				08:24	45		08:31	35		8:38	25		08:52	55		08:36	49		8:58	-5		9:04	5
vr	26-2			14:11		361	14:08		344	14:21		334	14:32		364	14:10		305	14:47		394	14:53		404
vr	26-2				20:31	48		20:43	34		20:50	24		21:04	54		20:47	51		21:10	-6		21:16	4
za	27-2			02:20		368	02:15		351	2:28		341	02:39		371	02:18		310	2:54		401	3:00		411
za	27-2				08:50	43		08:59	28		9:06	18		09:20	48		09:04	47		9:26	-12		9:32	-2
za	27-2			14:45		364	14:38		350	14:51		340	15:02		370	14:41		308	15:17		400	15:23		410
za	27-2				21:00	47		21:12	29		21:19	19		21:33	49		21:17	49		21:39	-11		21:45	-1

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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			02:54		367	02:48		353	3:01		343	03:12		373	02:52		310	3:27		403	3:33		413
zo	28-2				09:20	47		09:28	28		9:35	18		09:49	48		09:33	49		9:55	-12		10:01	-2
zo	28-2			15:21		361	15:11		349	15:24		339	15:35		369	15:14		307	15:50		399	15:56		409
zo	28-2				21:33	53		21:43	34		21:50	24		22:04	54		21:48	53		22:10	-6		22:16	4
ma	29-2			03:29		360	03:21		346	3:34		336	03:45		366	03:26		305	4:00		396	4:06		406
ma	29-2				09:49	59		09:57	40		10:04	30		10:18	60		10:04	59		10:24	0		10:30	10
ma	29-2			15:56		354	15:43		340	15:56		330	16:07		360	15:47		300	16:22		390	16:28		400
ma	29-2				22:06	66		22:13	47		22:20	37		22:34	67		22:22	64		22:40	7		22:46	17



				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"E		
maandag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
di	1-3			04:05		350	03:56		333	4:09		323	04:20		353	04:02		295	4:35		383	4:41		393
di	1-3				10:18	76		10:29	58		10:36	48		10:50	78		10:37	74		10:56	18		11:02	28
di	1-3			16:32		345	16:16		328	16:29		318	16:40		348	16:22		293	16:55		378	17:01		388
di	1-3				22:42	81		22:47	63		22:54	53		23:08	83		22:59	79		23:14	23		23:20	33
wo	2-3	0:11	LK	04:46		339	04:35		319	4:48		309	04:59		339	04:42		284	5:14		369	5:20		379
wo	2-3				10:52	92		11:06	77		11:13	67		11:27	97		11:16	90		11:33	37		11:39	47
wo	2-3			17:13		340	16:56		319	17:09		309	17:20		339	17:07		287	17:35		369	17:41		379
wo	2-3				23:30	94		23:31	80		23:38	70		23:52	100		23:48	94			-60			
do	3-3			05:36		332	05:25		307	5:38		297	05:49		327	05:35		275	#####		40		0:04	50
do	3-3				11:49	103		11:55	95		12:02	85		12:16	115		12:10	103	6:04		357	6:10		367
do	3-3			18:06		340	17:53		313	18:06		303	18:17		333	18:09		284		12:22	55		12:28	65
do	3-3																	102	18:32		363	18:38		373
vr	4-3				00:33	100		00:29	96		0:36	86		00:50	116		00:52	102		0:56	56		1:02	66
vr	4-3			06:35		330	06:30		302	6:43		292	06:54		322	06:44		272	7:09		352	7:15		362
vr	4-3				12:59	104		13:03	107		13:10	97		13:24	127		13:19	107		13:30	67		13:36	77
vr	4-3			19:09		344	19:06		315	19:19		305	19:30		335	19:24		288	19:45		365	19:51		375
za	5-3				01:43	95		01:49	100		1:56	90		02:10	120		02:10	98		2:16	60		2:22	70
za	5-3			07:43		333	07:46		306	7:59		296	08:10		326	08:03		275	8:25		356	8:31		366
za	5-3				14:11	93		14:31	100		14:38	90		14:52	120		14:39	98		14:58	60		15:04	70
za	5-3			20:26		352	20:28		327	20:41		317	20:52		347	20:42		298	21:07		377	21:13		387
zo	6-3				03:01	79		03:23	79		3:30	69		03:44	99		03:33	79		3:50	39		3:56	49
zo	6-3			09:07		340	09:09		319	9:22		309	09:33		339	09:22		285	9:48		369	9:54		379
zo	6-3				15:30	75		15:55	73		16:02	63		16:16	93		16:00	77		16:22	33		16:28	43
zo	6-3			21:50		364	21:46		346	21:59		336	22:10		366	21:53		309	22:25		396	22:31		406
ma	7-3				04:26	55		04:36	47		4:43	37		04:57	67		04:45	55		5:03	7		5:09	17
ma	7-3			10:28		349	10:22		334	10:35		324	10:46		354	10:30		293	11:01		384	11:07		394
ma	7-3				16:51	53		17:00	45		17:07	35		17:21	65		17:07	55		17:27	5		17:33	15
ma	7-3			22:53		372	22:48		359	23:01		349	23:12		379	22:53		315	23:27		409	23:33		419
di	8-3				05:29	32		05:35	22		5:42	12		05:56	42		05:44	35		6:02	-18		6:08	-8
di	8-3			11:27		354	11:20		340	11:33		330	11:44		360	11:24		294	11:59		390	12:05		400
di	8-3				17:49	34		17:55	26		18:02	16		18:16	46		18:02	38		18:22	-14		18:28	-4
di	8-3			23:44		375	23:38		364	23:51		354				23:43		315			-60			
wo	9-3	2:55	NM		06:21	17		06:25	8		6:32	-2	00:02		384		06:35	22	0:17		414	0:23		424
wo	9-3			12:16		353	12:10		338	12:23		328		06:46	28	12:09		292		6:52	-32		6:58	-22
wo	9-3				18:38	22		18:43	13		18:50	3	12:34		358		18:51	27	12:49		388	12:55		398
wo	9-3													19:04	33					19:10	-27		19:16	-17

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
do	10-3			00:30		375	00:23		365	0:36		355	00:47		385	00:25		315	1:02		415	1:08		425
do	10-3				07:08	7		07:10	0		7:17	-10		07:31	18		07:22	15		7:37	-42		7:43	-32
do	10-3			13:00		352	12:53		336	13:06		326	13:17		356	12:49		290	13:32		386	13:38		396
do	10-3				19:22	11		19:26	1		19:33	-9		19:47	21		19:35	17		19:53	-39		19:59	-29
vr	11-3			01:12		378	01:05		370	1:18		360	01:29		390	01:06		319	1:44		420	1:50		430
vr	11-3				07:51	1		07:53	-10		8:00	-20		08:14	9		08:04	9		8:20	-51		8:26	-41
vr	11-3			13:41		353	13:34		338	13:47		328	13:58		358	13:30		293	14:13		388	14:19		398
vr	11-3				20:04	1		20:08	-13		20:15	-23		20:29	7		20:17	7		20:35	-53		20:41	-43
za	12-3			01:54		383	01:47		377	2:00		367	02:11		397	01:50		324	2:26		427	2:32		437
za	12-3				08:32	0		08:33	-10		8:40	-20		08:54	1		08:45	6		9:00	-59		9:06	-49
za	12-3			14:23		356	14:14		344	14:27		334	14:38		364	14:14		297	14:53		394	14:59		404
za	12-3				20:44	-6		20:49	-24		20:56	-34		21:10	-4		20:58	0		21:16	-64		21:22	-54
zo	13-3			02:38		384	02:31		380	2:44		370	02:55		400	02:36		325	3:10		430	3:16		440
zo	13-3				09:11	1		09:14	-10		9:21	-20		09:35	1		09:25	6		9:41	-59		9:47	-49
zo	13-3			15:05		356	14:54		347	15:07		337	15:18		367	14:59		298	15:33		397	15:39		407
zo	13-3				21:23	-5		21:29	-25		21:36	-35		21:50	-5		21:39	-1		21:56	-65		22:02	-55
ma	14-3			03:23		375	03:17		372	3:30		362	03:41		392	03:23		318	3:56		422	4:02		432
ma	14-3				09:48	13		09:54	0		10:01	-10		10:15	12		10:05	14		10:21	-48		10:27	-38
ma	14-3			15:49		348	15:37		340	15:50		330	16:01		360	15:44		292	16:16		390	16:22		400
ma	14-3				22:03	5		22:11	-13		22:18	-23		22:32	7		22:22	7		22:38	-53		22:44	-43
di	15-3			04:12		356	04:05		352	4:18		342	04:29		372	04:11		302	4:44		402	4:50		412
di	15-3				10:26	31		10:35	16		10:42	6		10:56	36		10:47	30		11:02	-24		11:08	-14
di	15-3	18:03	EK	16:36		333	16:23		324	16:36		314	16:47		344	16:31		279	17:02		374	17:08		384
di	15-3				22:46	24		22:56	11		23:03	1		23:17	31		23:09	23		23:23	-29		23:29	-19
wo	16-3			05:05		331	05:00		324	5:13		314	05:24		344	05:04		280	5:39		374	5:45		384
wo	16-3				11:08	54		11:21	46		11:28	36		11:42	66		11:37	51		11:48	6		11:54	16
wo	16-3			17:30		316	17:18		303	17:31		293	17:42		323	17:24		265	17:57		353	18:03		363
wo	16-3				23:48	45		23:49	39		23:56	29												
do	17-3			06:10		311	06:06		300	6:19		290		00:10	59		00:11	42		0:16	-1		0:22	9
do	17-3				12:36	73		12:21	75		12:28	65	06:30		320	06:08		260	6:45		350	6:51		360
do	17-3			18:37		306	18:29		288	18:42		278		12:42	95		12:47	69		12:48	35		12:54	45
do	17-3												18:53		308	18:31		255	19:08		338	19:14		348
vr	18-3				01:20	56		01:02	61		1:09	51		01:23	81		01:33	54		1:29	21		1:35	31
vr	18-3			07:25		304	07:21		291	7:34		281	07:45		311	07:26		252	8:00		341	8:06		351
vr	18-3				13:57	75		13:45	87		13:52	77		14:06	107		14:12	75		14:12	47		14:18	57
vr	18-3			19:57		311	19:50		292	20:03		282	20:14		312	19:53		257	20:29		342	20:35		352

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	19-3				02:34	53		02:29	61		2:36	51		02:50	81		02:56	53		2:56	21		3:02	31
za	19-3			08:48		314	08:38		303	8:51		293	09:02		323	08:49		260	9:17		353	9:23		363
za	19-3				15:12	66		15:09	73		15:16	63		15:30	93		15:34	66		15:36	33		15:42	43
za	19-3			21:14		330	21:07		314	21:20		304	21:31		334	21:18		273	21:46		364	21:52		374
zo	20-3				03:57	42		03:49	43		3:56	33		04:10	63		04:15	41		4:16	3		4:22	13
zo	20-3			09:57		336	09:52		327	10:05		317	10:16		347	10:01		279	10:31		377	10:37		387
zo	20-3				16:28	49		16:24	48		16:31	38		16:45	68		16:43	50		16:51	8		16:57	18
zo	20-3			22:15		353	22:15		341	22:28		331	22:39		361	22:25		293	22:54		391	23:00		401
ma	21-3				05:00	28		04:57	22		5:04	12		05:18	42		05:16	30		5:24	-18		5:30	-8
ma	21-3			10:52		354	10:54		348	11:07		338	11:18		368	10:58		295	11:33		398	11:39		408
ma	21-3				17:22	36		17:24	28		17:31	18		17:45	48		17:36	39		17:51	-12		17:57	-2
ma	21-3			23:07		365	23:11		357	23:24		347	23:35		377	23:18		306			-60			
di	22-3				05:48	24		05:51	13		5:58	3		06:12	33		06:03	29	23:50		407	23:56		417
di	22-3			11:39		360	11:44		353	11:57		343	12:08		373	11:44		303		6:18	-27		6:24	-17
di	22-3				18:07	33		18:12	24		18:19	14		18:33	44		18:20	39	12:23		403	12:29		413
di	22-3			23:50		366	23:55		355	0:08		345							18:39		-16	18:45		-6
wo	23-3				06:28	30		06:34	20		6:41	10	00:19		375	00:00		307	0:34		405	0:40		415
wo	23-3	13:01 VM		12:16		357	12:21		346	12:34		336		06:55	40		06:42	36		7:01	-20		7:07	-10
wo	23-3				18:44	38		18:51	31		18:58	21	12:45		366	12:20		302	13:00		396	13:06		406
wo	23-3													19:12	51		18:55	43		19:18	-9		19:24	1
do	24-3			00:24		360	00:28		346	0:41		336	00:52		366	00:31		302	1:07		396	1:13		406
do	24-3				07:02	37		07:09	31		7:16	21		07:30	51		07:13	43		7:36	-9		7:42	1
do	24-3			12:45		354	12:47		340	13:00		330	13:11		360	12:47		300	13:26		390	13:32		400
do	24-3				19:15	42		19:21	36		19:28	26		19:42	56		19:25	46		19:48	-4		19:54	6
vr	25-3			00:52		357	00:52		343	1:05		333	01:16		363	00:56		300	1:31		393	1:37		403
vr	25-3				07:29	38		07:36	32		7:43	22		07:57	52		07:39	43		8:03	-8		8:09	2
vr	25-3			13:12		358	13:10		347	13:23		337	13:34		367	13:13		304	13:49		397	13:55		407
vr	25-3				19:40	40		19:48	28		19:55	18		20:09	48		19:52	42		20:15	-12		20:21	-2
za	26-3			01:21		361	01:18		350	1:31		340	01:42		370	01:22		305	1:57		400	2:03		410
za	26-3				07:55	34		08:03	22		8:10	12		08:24	42		08:06	38		8:30	-18		8:36	-8
za	26-3			13:43		367	13:39		361	13:52		351	14:03		381	13:42		312	14:18		411	14:24		421
za	26-3				20:07	34		20:17	16		20:24	6		20:38	36		20:21	36		20:44	-24		20:50	-14
zo	27-3			01:55		366	01:50		360	2:03		350	03:14		380	01:55		310	3:29		410	3:35		420
zo	27-3				09:24	30		09:31	10		9:38	0		09:52	30		09:35	30		9:58	-30		10:04	-20
zo	27-3			15:18		373	15:12		369	15:25		359	15:36		389	15:17		316	15:51		419	15:57		429
zo	27-3				21:38	35		21:48	13		21:55	3		22:09	33		21:52	36		22:15	-27		22:21	-17

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
ma	28-3			03:30		366	03:25		360	3:38		350	03:49		380	03:31		310	4:04		410	4:10		420
ma	28-3				09:54	40		10:02	20		10:09	10		10:23	40		10:06	40		10:29	-20		10:35	-10
ma	28-3			15:54		370	15:46		366	15:59		356	16:10		386	15:51		314	16:25		416	16:31		426
ma	28-3				22:11	46		22:19	25		22:26	15		22:40	45		22:24	46		22:46	-15		22:52	-5
di	29-3			04:05		359	03:59		350	4:12		340	04:23		370	04:05		302	4:38		400	4:44		410
di	29-3				10:22	50		10:30	30		10:37	20		10:51	50		10:36	50		10:57	-10		11:03	0
di	29-3			16:26		363	16:17		354	16:30		344	16:41		374	16:22		307	16:56		404	17:02		414
di	29-3				22:42	63		22:48	44		22:55	34		23:09	64		22:56	61		23:15	4		23:21	14
wo	30-3			04:39		348	04:32		335	4:45		325	04:56		355	04:36		292	5:11		385	5:17		395
wo	30-3				10:46	70		10:59	60		11:06	50		11:20	80		11:06	70		11:26	20		11:32	30
wo	30-3			16:57		356	16:48		344	17:01		334	17:12		364	16:50		301	17:27		394	17:33		404
wo	30-3				23:14	78		23:20	59		23:27	49		23:41	79		23:30	77			-60			
do	31-3			05:18		340	05:08		323	5:21		313	05:32		343	05:08		284		23:47	10		23:53	20
do	31-3				11:15	90		11:33	70		11:40	60		11:54	90		11:41	80	5:47		373	5:53		383
do	31-3	17:17	LK	17:37		354	17:25		338	17:38		328	17:49		358	17:28		299		12:00	34		12:06	44
do	31-3				23:58	87													18:04		388	18:10		398

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"E		
maandag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
vr	1-4			06:06		336		00:00	70		0:07	60		00:21	90		00:15	80		0:27	30		0:33	40
vr	1-4				12:10	90		05:54	315		6:07	305		06:18	335		05:58	279		6:33	365		6:39	375
vr	1-4			18:29		355		12:20	86		12:27	76		12:41	106		12:33	98		12:47	46		12:53	56
vr	1-4							18:18	334		18:31	324		18:42	354		18:26	299		18:57	384		19:03	394
za	2-4				01:01	80		00:56	70		1:03	60		01:17	90		01:18	90		1:23	30		1:29	40
za	2-4			07:04		336		06:57	311		7:10	301		07:21	331		07:06	277		7:36	361		7:42	371
za	2-4				13:24	96		13:23	95		13:30	85		13:44	115		13:42	99		13:50	55		13:56	65
za	2-4			19:31		357		19:28	333		19:41	323		19:52	353		19:41	300		20:07	383		20:13	393
zo	3-4				02:10	80		02:10	80		2:17	70		02:31	100		02:33	80		2:37	40		2:43	50
zo	3-4			08:11		337		08:14	313		8:27	303		08:38	333		08:26	279		8:53	363		8:59	373
zo	3-4				14:37	85		14:48	93		14:55	83		15:09	113		15:02	90		15:15	53		15:21	63
zo	3-4			20:43		360		20:50	339		21:03	329		21:14	359		21:01	305		21:29	389		21:35	399
ma	4-4				03:27	60		03:43	60		3:50	50		04:04	80		03:58	60		4:10	20		4:16	30
ma	4-4			09:35		342		09:37	324		9:50	314		10:01	344		09:50	286		10:16	374		10:22	384
ma	4-4				15:56	68		16:17	70		16:24	60		16:38	90		16:27	70		16:44	30		16:50	40
ma	4-4			22:12		367		22:10	353		22:23	343		22:34	373		22:19	312		22:49	403		22:55	413
di	5-4				04:52	40		05:01	30		5:08	20		05:22	50		05:14	40		5:28	-10		5:34	0
di	5-4			11:00		350		10:53	338		11:06	328		11:17	358		11:02	293		11:32	388		11:38	398
di	5-4				17:19	49		17:28	43		17:35	33		17:49	63		17:38	49		17:55	3		18:01	13
di	5-4			23:23		374		23:16	364		23:29	354		23:40	384		23:24	316			-60			
wo	6-4				06:00	20		06:04	10		6:11	0		06:25	30		06:16	20		23:55	414		0:01	424
wo	6-4			12:01		355		11:53	344		12:06	334		12:17	364		11:58	295		6:31	-30		6:37	-20
wo	6-4				18:22	32		18:26	24		18:33	14		18:47	44		18:36	33		12:32	394		12:38	404
wo	6-4																			18:53	-16		18:59	-6
do	7-4			00:18		376		00:10	369		0:23	359		00:34	389		00:15	318		0:49	419		0:55	429
do	7-4	13:24	NM		06:55	10		06:57	0		7:04	-10		07:18	20		07:09	10		7:24	-40		7:30	-30
do	7-4			12:52		356		12:43	343		12:56	333		13:07	363		12:43	294		13:22	393		13:28	403
do	7-4				19:14	19		19:17	10		19:24	0		19:38	30		19:27	23		19:44	-30		19:50	-20
vr	8-4			01:06		377		00:58	371		1:11	361		01:22	391		00:59	319		1:37	421		1:43	431
vr	8-4				07:44	0		07:44	0		7:51	-10		08:05	10		07:57	10		8:11	-50		8:17	-40
vr	8-4			13:36		356		13:28	344		13:41	334		13:52	364		13:24	295		14:07	394		14:13	404
vr	8-4				20:01	7		20:02	0		20:09	-10		20:23	17		20:13	12		20:29	-43		20:35	-33
za	9-4			01:51		380		01:43	375		1:56	365		02:07	395		01:42	322		2:22	425		2:28	435
za	9-4				08:29	0		08:28	0		8:35	-10		08:49	0		08:41	0		8:55	-60		9:01	-50
za	9-4			14:19		360		14:10	349		14:23	339		14:34	369		14:06	300		14:49	399		14:55	409
za	9-4				20:44	0		20:46	-10		20:53	-20		21:07	1		20:57	2		21:13	-59		21:19	-49

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"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	10-4			02:35		383	02:28		380	2:41		370	02:52		400	02:28		326	3:07		430	3:13		440
zo	10-4				09:10	0		09:11	0		9:18	-10		09:32	0		09:23	0		9:38	-60		9:44	-50
zo	10-4			15:01		364	14:52		357	15:05		347	15:16		377	14:52		306	15:31		407	15:37		417
zo	10-4				21:26	-10		21:29	-30		21:36	-40		21:50	-10		21:40	0		21:56	-70		22:02	-60
ma	11-4			03:21		380	03:15		378	3:28		368	03:39		398	03:17		324	3:54		428	4:00		438
ma	11-4				09:50	0		09:52	0		9:59	-10		10:13	0		10:04	0		10:19	-60		10:25	-50
ma	11-4			15:44		364	15:35		360	15:48		350	15:59		380	15:39		307	16:14		410	16:20		420
ma	11-4				22:07	0		22:11	-30		22:18	-40		22:32	-10		22:24	0		22:38	-70		22:44	-60
di	12-4			04:07		368	04:02		366	4:15		356	04:26		386	04:06		313	4:41		416	4:47		426
di	12-4				10:28	10		10:32	0		10:39	-10		10:53	10		10:45	10		10:59	-50		11:05	-40
di	12-4			16:28		356	16:18		353	16:31		343	16:42		373	16:26		300	16:57		403	17:03		413
di	12-4				22:48	4		22:53	-10		23:00	-20		23:14	6		23:07	5		23:20	-54		23:26	-44
wo	13-4			04:56		348	04:50		344	5:03		334	05:14		364	04:56		295	5:29		394	5:35		404
wo	13-4				11:02	30		11:12	20		11:19	10		11:33	40		11:26	30		11:39	-20		11:45	-10
wo	13-4			17:14		342	17:02		337	17:15		327	17:26		357	17:11		288	17:41		387	17:47		397
wo	13-4				23:31	25		23:37	12		23:44	2		23:58	32		23:54	24			-60			
do	14-4	5:59	EK	05:48		327	05:41		319	5:54		309	06:05		339	05:46		275		0:04	-30		0:10	-20
do	14-4				11:39	50		11:56	50		12:03	40		12:17	70		12:11	50	6:20		369	6:26		379
do	14-4			18:05		328	17:53		320	18:06		310	18:17		340	18:01		277		12:23	11		12:29	21
do	14-4																	40	18:32		370	18:38		380
vr	15-4				00:35	40		00:27	40		0:34	30		00:48	60		00:51	40		0:54	0		1:00	10
vr	15-4			06:47		312	06:41		300	6:54		290	07:05		320	06:45		260	7:20		350	7:26		360
vr	15-4				13:00	76		12:51	79		12:58	69		13:12	99		13:14	74		13:18	39		13:24	49
vr	15-4			19:07		322	18:58		308	19:11		298	19:22		328	19:03		270	19:37		358	19:43		368
za	16-4				01:53	50		01:33	60		1:40	50		01:54	80		02:04	50		2:00	20		2:06	30
za	16-4			07:54		309	07:50		296	8:03		286	08:14		316	07:57		256	8:29		346	8:35		356
za	16-4				14:23	80		14:08	94		14:15	84		14:29	114		14:35	81		14:35	54		14:41	64
za	16-4			20:20		327	20:15		311	20:28		301	20:39		331	20:20		273	20:54		361	21:00		371
zo	17-4				03:00	50		02:55	60		3:02	50		03:16	80		03:21	50		3:22	20		3:28	30
zo	17-4			09:11		320	09:05		308	9:18		298	09:29		328	09:16		265	9:44		358	9:50		368
zo	17-4				15:33	73		15:33	85		15:40	75		15:54	105		15:54	75		16:00	45		16:06	55
zo	17-4			21:37		343	21:33		329	21:46		319	21:57		349	21:43		286	22:12		379	22:18		389
ma	18-4				04:13	40		04:14	50		4:21	40		04:35	70		04:38	40		4:41	10		4:47	20
ma	18-4			10:25		339	10:19		330	10:32		320	10:43		350	10:30		283	10:58		380	11:04		390
ma	18-4				16:50	59		16:48	62		16:55	52		17:09	82		17:08	60		17:15	22		17:21	32
ma	18-4			22:43		360	22:42		351	22:55		341	23:06		371	22:54		301	23:21		401	23:27		411

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	19-4				05:26	30		05:22	30		5:29	20		05:43	50		05:43	30		5:49	-10		5:55	0
di	19-4			11:23		354	11:23		348	11:36		338	11:47		368	11:29		298	12:02		398	12:08		408
di	19-4				17:51	45		17:51	42		17:58	32		18:12	62		18:05	48		18:18	2		18:24	12
di	19-4			23:37		366	23:40		360	23:53		350				23:48		308			-60			
wo	20-4				06:17	30		06:17	20		6:24	10	00:04		380		06:32	30	0:19		410	0:25		420
wo	20-4			12:10		358	12:12		352	12:25		342		06:38	40	12:15		303		6:44	-20		6:50	-10
wo	20-4				18:38	40		18:40	34		18:47	24	12:36		372		18:50	44	12:51		402	12:57		412
wo	20-4													19:01	54			305		19:07	-6		19:13	4
do	21-4			00:21		362	00:23		353	0:36		343	00:47		373	00:29		305	1:02		403	1:08		413
do	21-4				06:57	30		07:01	20		7:08	10		07:22	40		07:10	30		7:28	-20		7:34	-10
do	21-4			12:46		354	12:47		346	13:00		336	13:11		366	12:49		301	13:26		396	13:32		406
do	21-4				19:15	40		19:19	35		19:26	25		19:40	55		19:26	45		19:46	-5		19:52	5
vr	22-4	7:24	VM	00:55		353	00:55		343	1:08		333	01:19		363	00:59		298	1:34		393	1:40		403
vr	22-4				07:30	30		07:35	30		7:42	20		07:56	50		07:41	40		8:02	-10		8:08	0
vr	22-4			13:14		354	13:12		346	13:25		336	13:36		366	13:15		301	13:51		396	13:57		406
vr	22-4				19:46	40		19:50	33		19:57	23		20:11	53		19:56	44		20:17	-7		20:23	3
za	23-4			01:24		352	01:20		344	1:33		334	01:44		364	01:25		298	1:59		394	2:05		404
za	23-4				07:59	30		08:04	20		8:11	10		08:25	40		08:07	30		8:31	-20		8:37	-10
za	23-4			13:43		362	13:38		359	13:51		349	14:02		379	13:42		309	14:17		409	14:23		419
za	23-4				20:14	34		20:20	21		20:27	11		20:41	41		20:24	37		20:47	-19		20:53	-9
zo	24-4			01:56		358	01:50		356	2:03		346	02:14		376	01:55		305	2:29		406	2:35		416
zo	24-4				08:28	20		08:33	10		8:40	0		08:54	30		08:36	30		9:00	-30		9:06	-20
zo	24-4			14:17		374	14:11		376	14:24		366	14:35		396	14:15		319	14:50		426	14:56		436
zo	24-4				20:44	29		20:51	10		20:58	0		21:12	30		20:56	32		21:18	-30		21:24	-20
ma	25-4			02:32		365	02:27		367	2:40		357	02:51		387	02:31		311	3:06		417	3:12		427
ma	25-4				09:00	30		09:05	10		9:12	0		09:26	30		09:09	30		9:32	-30		9:38	-20
ma	25-4			14:55		381	14:49		384	15:02		374	15:13		404	14:54		325	15:28		434	15:34		444
ma	25-4				21:18	33		21:26	11		21:33	1		21:47	31		21:30	35		21:53	-29		21:59	-19
di	26-4			03:10		366	03:05		366	3:18		356	03:29		386	03:11		310	3:44		416	3:50		426
di	26-4				09:32	40		09:38	20		9:45	10		09:59	40		09:42	40		10:05	-20		10:11	-10
di	26-4			15:30		379	15:25		379	15:38		369	15:49		399	15:31		322	16:04		429	16:10		439
di	26-4				21:52	47		21:59	26		22:06	16		22:20	46		22:05	48		22:26	-14		22:32	-4
wo	27-4			03:46		358	03:41		353	3:54		343	04:05		373	03:48		301	4:20		403	4:26		413
wo	27-4				10:01	60		10:09	40		10:16	30		10:30	60		10:14	60		10:36	0		10:42	10
wo	27-4			16:02		372	15:57		367	16:10		357	16:21		387	16:03		315	16:36		417	16:42		427
wo	27-4				22:25	63		22:30	46		22:37	36		22:51	66		22:38	63		22:57	6		23:03	16



				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
do	28-4			04:20		347	04:15		336	4:28		326	04:39		356	04:19		290	4:54		386	5:00		396
do	28-4				10:28	70		10:39	60		10:46	50		11:00	80		10:45	70		11:06	20		11:12	30
do	28-4			16:34		367	16:29		358	16:42		348	16:53		378	16:30		310	17:08		408	17:14		418
do	28-4				22:59	74		23:03	58		23:10	48		23:24	78		23:13	74		23:30	18		23:36	28
vr	29-4			04:59		340	04:51		325	5:04		315	05:15		345	04:52		283	5:30		375	5:36		385
vr	29-4				11:02	80		11:13	70		11:20	60		11:34	90		11:21	80		11:40	30		11:46	40
vr	29-4			17:14		366	17:07		355	17:20		345	17:31		375	17:06		309	17:46		405	17:52		415
vr	29-4				23:44	76		23:43	61		23:50	51					23:58	77			-60			
za	30-4	5:29	LK	05:47		337	05:36		319	5:49		309		00:04	80	05:40		281		0:10	20		0:16	30
za	30-4				11:56	80		11:58	70		12:05	60	06:00		339		12:13	80	6:15		369	6:21		379
za	30-4			18:06		368	17:58		354	18:11		344		12:19	94	18:02		310		12:25	34		12:31	44
za	30-4												18:22		374			70	18:37		404	18:43		414



				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	1-5				00:41	70		00:36	60		0:43	50		00:57	80		00:57	70		1:03	20		1:09	30
zo	1-5			06:43		338	06:36		318	6:49		308	07:00		338	06:44		280	7:15		368	7:21		378
zo	1-5				13:02	81		12:59	78		13:06	68		13:20	98		13:19	85		13:26	38		13:32	48
zo	1-5			19:05		369	19:03		353	19:16		343	19:27		373	19:12		310	19:42		403	19:48		413
ma	2-5				01:46	60		01:46	50		1:53	40		02:07	70		02:07	60		2:13	10		2:19	20
ma	2-5			07:49		340	07:49		320	8:02		310	08:13		340	07:59		282	8:28		370	8:34		380
ma	2-5				14:10	72		14:17	77		14:24	67		14:38	97		14:34	77		14:44	37		14:50	47
ma	2-5			20:13		369	20:20		355	20:33		345	20:44		375	20:28		312	20:59		405	21:05		415
di	3-5				02:59	40		03:10	40		3:17	30		03:31	60		03:27	50		3:37	0		3:43	10
di	3-5			09:08		343	09:09		329	9:22		319	09:33		349	09:20		287	9:48		379	9:54		389
di	3-5				15:25	61		15:42	61		15:49	51		16:03	81		15:56	63		16:09	21		16:15	31
di	3-5			21:35		370	21:37		363	21:50		353	22:01		383	21:45		315	22:16		413	22:22		423
wo	4-5				04:19	30		04:27	20		4:34	10		04:48	40		04:43	30		4:54	-20		5:00	-10
wo	4-5			10:30		349	10:23		340	10:36		330	10:47		360	10:31		292	11:02		390	11:08		400
wo	4-5				16:46	48		16:54	40		17:01	30		17:15	60		17:08	47		17:21	0		17:27	10
wo	4-5			22:51		373	22:44		371	22:57		361	23:08		391	22:52		318	23:23		421	23:29		431
do	5-5				05:29	20		05:30	0		5:37	-10		05:51	20		05:46	20		5:57	-40		6:03	-30
do	5-5			11:34		354	11:23		347	11:36		337	11:47		367	11:28		295	12:02		397	12:08		407
do	5-5				17:53	35		17:55	22		18:02	12		18:16	42		18:09	34		18:22	-18		18:28	-8
do	5-5			23:51		375	23:41		375	23:54		365				23:47		320			-60			
vr	6-5				06:27	10		06:26	0		6:33	-10	00:05		395		06:42	10	0:20		425	0:26		435
vr	6-5			12:26		356	12:15		349	12:28		339		06:47	10	12:16		297		6:53	-50		6:59	-40
vr	6-5				18:49	22		18:49	8		18:56	-2	12:39		369		19:02	24	12:54		399	13:00		409
vr	6-5	21:29 NM												19:10	28			321		19:16	-32		19:22	-22
za	7-5			00:42		376	00:32		376	0:45		366	00:56		396	00:34		321	1:11		426	1:17		436
za	7-5				07:19	0		07:16	0		7:23	-10		07:37	10		07:31	10		7:43	-50		7:49	-40
za	7-5			13:12		359	13:02		354	13:15		344	13:26		374	12:59		301	13:41		404	13:47		414
za	7-5				19:39	9		19:38	0		19:45	-10		19:59	13		19:51	12		20:05	-47		20:11	-37
zo	8-5			01:30		377	01:22		378	1:35		368	01:46		398	01:21		323	2:01		428	2:07		438
zo	8-5				08:06	0		08:04	0		8:11	-10		08:25	0		08:17	0		8:31	-60		8:37	-50
zo	8-5			13:56		364	13:47		361	14:00		351	14:11		381	13:45		308	14:26		411	14:32		421
zo	8-5				20:26	0		20:25	-20		20:32	-30		20:46	0		20:38	1		20:52	-60		20:58	-50
ma	9-5			02:18		377	02:12		379	2:25		369	02:36		399	02:11		324	2:51		429	2:57		439
ma	9-5				08:50	0		08:49	0		8:56	-10		09:10	0		09:02	0		9:16	-60		9:22	-50
ma	9-5			14:40		369	14:33		368	14:46		358	14:57		388	14:33		314	15:12		418	15:18		428
ma	9-5				21:12	0		21:11	-20		21:18	-30		21:32	0		21:25	0		21:38	-60		21:44	-50

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
di	10-5			03:05		373	03:02		374	3:15		364	03:26		394	03:02		319	3:41		424	3:47		434
di	10-5				09:32	0		09:32	0		9:39	-10		09:53	0		09:45	0		9:59	-60		10:05	-50
di	10-5			15:24		369	15:19		369	15:32		359	15:43		389	15:22		314	15:58		419	16:04		429
di	10-5				21:55	0		21:55	-20		22:02	-30		22:16	0		22:10	0		22:22	-60		22:28	-50
wo	11-5			03:52		361	03:50		360	4:03		350	04:14		380	03:52		308	4:29		410	4:35		420
wo	11-5				10:12	20		10:14	0		10:21	-10		10:35	20		10:27	20		10:41	-40		10:47	-30
wo	11-5			16:09		363	16:02		361	16:15		351	16:26		381	16:09		308	16:41		411	16:47		421
wo	11-5				22:38	11		22:38	0		22:45	-10		22:59	15		22:55	12		23:05	-45		23:11	-35
do	12-5			04:40		345	04:37		340	4:50		330	05:01		360	04:40		292	5:16		390	5:22		400
do	12-5				10:47	40		10:54	30		11:01	20		11:15	50		11:08	40		11:21	-10		11:27	0
do	12-5			16:53		353	16:45		349	16:58		339	17:09		369	16:53		299	17:24		399	17:30		409
do	12-5				23:23	32		23:20	20		23:27	10		23:41	40		23:39	32			-60			
vr	13-5			05:29		330	05:23		322	5:36		312	05:47		342	05:27		278		23:47	-20		23:53	-10
vr	13-5				11:22	60		11:35	50		11:42	40		11:56	70		11:50	60	6:02		372	6:08		382
vr	13-5	19:02	EK	17:40		345	17:31		339	17:44		329	17:55		359	17:38		292		12:02	15		12:08	25
vr	13-5																	50	18:10		389	18:16		399
za	14-5				00:16	50		00:06	40		0:13	30		00:27	60		00:29	50		0:33	0		0:39	10
za	14-5			06:21		322	06:14		310	6:27		300	06:38		330	06:19		270	6:53		360	6:59		370
za	14-5				12:21	77		12:24	76		12:31	66		12:45	96		12:43	77		12:51	36		12:57	46
za	14-5			18:36		342	18:27		333	18:40		323	18:51		353	18:32		290	19:06		383	19:12		393
zo	15-5				01:19	60		01:03	60		1:10	50		01:24	80		01:30	60		1:30	20		1:36	30
zo	15-5			07:19		323	07:14		309	7:27		299	07:38		329	07:21		269	7:53		359	7:59		369
zo	15-5				13:41	83		13:29	89		13:36	79		13:50	109		13:52	84		13:56	49		14:02	59
zo	15-5			19:41		346	19:34		334	19:47		324	19:58		354	19:41		292	20:13		384	20:19		394
ma	16-5				02:21	60		02:14	60		2:21	50		02:35	80		02:37	60		2:41	20		2:47	30
ma	16-5			08:22		330	08:21		317	8:34		307	08:45		337	08:32		276	9:00		367	9:06		377
ma	16-5				14:48	78		14:45	87		14:52	77		15:06	107		15:06	80		15:12	47		15:18	57
ma	16-5			20:49		353	20:46		342	20:59		332	21:10		362	20:56		298	21:25		392	21:31		402
di	17-5				03:23	50		03:27	50		3:34	40		03:48	70		03:47	50		3:54	10		4:00	20
di	17-5			09:33		341	09:31		330	9:44		320	09:55		350	09:44		288	10:10		380	10:16		390
di	17-5				15:56	68		15:59	72		16:06	62		16:20	92		16:19	69		16:26	32		16:32	42
di	17-5			21:58		359	21:55		350	22:08		340	22:19		370	22:07		304	22:34		400	22:40		410
wo	18-5				04:30	40		04:34	40		4:41	30		04:55	60		04:54	40		5:01	0		5:07	10
wo	18-5			10:39		349	10:35		342	10:48		332	10:59		362	10:46		297	11:14		392	11:20		402
wo	18-5				17:06	57		17:05	55		17:12	45		17:26	75		17:23	58		17:32	15		17:38	25
wo	18-5			22:57		359	22:55		351	23:08		341	23:19		371	23:06		304			401			411

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maandag				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	19-5				05:32	40		05:32	30		5:39	20		05:53	50		05:50	40	23:34		401	23:40		411
do	19-5			11:29		352	11:26		346	11:39		336	11:50		366	11:35		301		5:59	-10		6:05	0
do	19-5				18:00	49		17:59	44		18:06	34		18:20	64		18:13	52	12:05		396	12:11		406
do	19-5			23:44		353	23:42		345	23:55		335				23:50		299		18:26	4		18:32	14
vr	20-5				06:17	40		06:18	30		6:25	20	00:06		365		06:32	40	0:21		395	0:27		405
vr	20-5			12:07		352	12:04		347	12:17		337		06:39	50	12:11		301		6:45	-10		6:51	0
vr	20-5				18:40	46		18:41	39		18:48	29	12:28		367		18:52	50	12:43		397	12:49		407
vr	20-5													19:02	59			295		19:08	-1		19:14	9
za	21-5			00:21		347	00:17		340	0:30		330	00:41		360	00:24		295	0:56		390	1:02		400
za	21-5				06:54	40		06:56	30		7:03	20		07:17	50		07:05	40		7:23	-10		7:29	0
za	21-5			12:40		357	12:34		354	12:47		344	12:58		374	12:41		305	13:13		404	13:19		414
za	21-5	23:14 VM			19:14	43		19:17	32		19:24	22		19:38	52		19:24	47		19:44	-8		19:50	2
zo	22-5			00:55		349	00:48		346	1:01		336	01:12		366	00:54		299	1:27		396	1:33		406
zo	22-5				07:27	30		07:30	20		7:37	10		07:51	40		07:35	40		7:57	-20		8:03	-10
zo	22-5			13:14		368	13:07		370	13:20		360	13:31		390	13:13		316	13:46		420	13:52		430
zo	22-5				19:47	37		19:51	21		19:58	11		20:12	41		19:56	40		20:18	-19		20:24	-9
ma	23-5			01:32		358	01:23		360	1:36		350	01:47		380	01:29		307	2:02		410	2:08		420
ma	23-5				08:01	30		08:05	10		8:12	0		08:26	30		08:08	30		8:32	-30		8:38	-20
ma	23-5			13:53		381	13:46		386	13:59		376	14:10		406	13:50		328	14:25		436	14:31		446
ma	23-5				20:22	33		20:28	13		20:35	3		20:49	33		20:32	36		20:55	-27		21:01	-17
di	24-5			02:12		365	02:04		369	2:17		359	02:28		389	02:09		314	2:43		419	2:49		429
di	24-5				08:37	30		08:41	10		8:48	0		09:02	30		08:44	30		9:08	-30		9:14	-20
di	24-5			14:32		387	14:25		392	14:38		382	14:49		412	14:31		334	15:04		442	15:10		452
di	24-5				21:00	36		21:05	15		21:12	5		21:26	35		21:11	39		21:32	-25		21:38	-15
wo	25-5			02:52		365	02:45		366	2:58		356	03:09		386	02:52		312	3:24		416	3:30		426
wo	25-5				09:12	40		09:18	20		9:25	10		09:39	40		09:21	40		9:45	-20		9:51	-10
wo	25-5			15:09		385	15:03		388	15:16		378	15:27		408	15:12		331	15:42		438	15:48		448
wo	25-5				21:36	46		21:41	28		21:48	18		22:02	48		21:48	49		22:08	-12		22:14	-2
do	26-5			03:30		357	03:23		353	3:36		343	03:47		373	03:32		302	4:02		403	4:08		413
do	26-5				09:45	50		09:52	40		9:59	30		10:13	60		09:55	60		10:19	0		10:25	10
do	26-5			15:43		379	15:37		377	15:50		367	16:01		397	15:47		324	16:16		427	16:22		437
do	26-5				22:12	56		22:15	43		22:22	33		22:36	63		22:24	59		22:42	3		22:48	13
vr	27-5			04:06		347	03:58		337	4:11		327	04:22		357	04:07		291	4:37		387	4:43		397
vr	27-5				10:17	60		10:24	50		10:31	40		10:45	70		10:30	70		10:51	10		10:57	20
vr	27-5			16:16		375	16:11		371	16:24		361	16:35		391	16:18		318	16:50		421	16:56		431
vr	27-5				22:49	60		22:50	48		22:57	38		23:11	68		23:00	63		23:17	8		23:23	18

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	28-5			04:45		341	04:35		328	4:48		318	04:59		348	04:43		284	5:14		378	5:20		388
za	28-5				10:56	70		10:59	60		11:06	50		11:20	80		11:09	70		11:26	20		11:32	30
za	28-5			16:57		375	16:51		370	17:04		360	17:15		390	16:54		318	17:30		420	17:36		430
za	28-5				23:32	57		23:30	45		23:37	35		23:51	65		23:44	60			-60			
zo	29-5			05:31		339	05:20		325	5:33		315	05:44		345	05:28		283		23:57	0		0:03	10
zo	29-5				11:44	60		11:43	50		11:50	40		12:04	70		11:58	70	5:59		375	6:05		385
zo	29-5	14:12	LK	17:46		377	17:40		370	17:53		360	18:04		390	17:45		319		12:10	17		12:16	27
zo	29-5																		18:19		420	18:25		430
ma	30-5				00:23	50		00:21	40		0:28	30		00:42	60		00:39	50		0:48	0		0:54	10
ma	30-5			06:25		340	06:15		324	6:28		314	06:39		344	06:25		283	6:54		374	7:00		384
ma	30-5				12:42	63		12:40	58		12:47	48		13:01	78		12:58	67		13:07	18		13:13	28
ma	30-5			18:43		376	18:40		367	18:53		357	19:04		387	18:47		318	19:19		417	19:25		427
di	31-5				01:23	40		01:24	30		1:31	20		01:45	50		01:43	40		1:51	-10		1:57	0
di	31-5			07:27		340	07:23		323	7:36		313	07:47		343	07:32		284	8:02		373	8:08		383
di	31-5				13:44	60		13:49	60		13:56	50		14:10	80		14:07	64		14:16	20		14:22	30
di	31-5			19:46		372	19:51		363	20:04		353	20:15		383	19:57		316	20:30		413	20:36		423

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"E		
maandag	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	1-6				02:31	40		02:39	30		2:46	20		03:00	50		02:57	40		3:06	-10		3:12	0
wo	1-6			08:40		340	08:39		326	8:52		316	09:03		346	08:46		285	9:18		376	9:24		386
wo	1-6				14:55	58		15:07	55		15:14	45		15:28	75		15:24	59		15:34	15		15:40	25
wo	1-6			21:02		367	21:05		364	21:18		354	21:29		384	21:11		315	21:44		414	21:50		424
do	2-6				03:48	30		03:53	20		4:00	10		04:14	40		04:11	30		4:20	-20		4:26	-10
do	2-6			09:59		342	09:51		333	10:04		323	10:15		353	09:56		288	10:30		383	10:36		393
do	2-6				16:15	52		16:20	41		16:27	31		16:41	61		16:37	50		16:47	1		16:53	11
do	2-6			22:21		366	22:13		366	22:26		356	22:37		386	22:19		315	22:52		416	22:58		426
vr	3-6				04:58	30		04:58	10		5:05	0		05:19	30		05:16	30		5:25	-30		5:31	-20
vr	3-6			11:06		347	10:53		340	11:06		330	11:17		360	10:56		292	11:32		390	11:38		400
vr	3-6				17:25	41		17:24	26		17:31	16		17:45	46		17:41	40		17:51	-14		17:57	-4
vr	3-6			23:27		366	23:14		368	23:27		358	23:38		388	23:18		315			-60			
za	4-6				06:00	20		05:56	0		6:03	-10		06:17	20		06:14	20	23:53		418	23:59		428
za	4-6			12:02		352	11:48		347	12:01		337	12:12		367	11:48		297		6:23	-40		6:29	-30
za	4-6				18:26	28		18:23	11		18:30	1		18:44	31		18:39	29	12:27		397	12:33		407
za	4-6																		18:50		-29	18:56		-19
zo	5-6	5:00	NM	00:23		367	00:11		370	0:24		360	00:35		390	00:12		317	0:50		420	0:56		430
zo	5-6				06:56	10		06:51	0		6:58	-10		07:12	10		07:07	20		7:18	-50		7:24	-40
zo	5-6			12:51		358	12:39		355	12:52		345	13:03		375	12:37		304	13:18		405	13:24		415
zo	5-6				19:22	13		19:18	0		19:25	-10		19:39	16		19:32	16		19:45	-44		19:51	-34
ma	6-6			01:14		369	01:05		371	1:18		361	01:29		391	01:04		319	1:44		421	1:50		431
ma	6-6				07:48	10		07:44	0		7:51	-10		08:05	10		07:56	10		8:11	-50		8:17	-40
ma	6-6			13:37		365	13:29		364	13:42		354	13:53		384	13:26		312	14:08		414	14:14		424
ma	6-6				20:14	2		20:09	-10		20:16	-20		20:30	5		20:23	6		20:36	-55		20:42	-45
di	7-6			02:04		369	01:59		371	2:12		361	02:23		391	01:57		318	2:38		421	2:44		431
di	7-6				08:35	10		08:33	0		8:40	-10		08:54	10		08:44	10		9:00	-50		9:06	-40
di	7-6			14:23		371	14:18		369	14:31		359	14:42		389	14:17		317	14:57		419	15:03		429
di	7-6				21:01	0		20:58	-10		21:05	-20		21:19	3		21:12	3		21:25	-57		21:31	-47
wo	8-6			02:51		366	02:51		365	3:04		355	03:15		385	02:49		314	3:30		415	3:36		425
wo	8-6				09:20	10		09:19	0		9:26	-10		09:40	20		09:29	20		9:46	-40		9:52	-30
wo	8-6			15:07		372	15:06		368	15:19		358	15:30		388	15:07		317	15:45		418	15:51		428
wo	8-6				21:46	7		21:43	0		21:50	-10		22:04	14		21:58	10		22:10	-46		22:16	-36
do	9-6			03:38		358	03:39		353	3:52		343	04:03		373	03:38		305	4:18		403	4:24		413
do	9-6				10:01	30		10:01	20		10:08	10		10:22	40		10:13	30		10:28	-20		10:34	-10
do	9-6			15:51		367	15:49		362	16:02		352	16:13		382	15:52		313	16:28		412	16:34		422
do	9-6				22:28	25		22:25	13		22:32	3		22:46	33		22:41	27		22:52	-27		22:58	-17

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"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	10-6			04:23		347	04:22		338	4:35		328	04:46		358	04:23		294	5:01		388	5:07		398
vr	10-6				10:37	50		10:40	40		10:47	30		11:01	60		10:52	50		11:07	0		11:13	10
vr	10-6			16:33		362	16:28		354	16:41		344	16:52		374	16:32		308	17:07		404	17:13		414
vr	10-6				23:08	44		23:04	34		23:11	24		23:25	54		23:22	46		23:31	-6		23:37	4
za	11-6			05:06		339	05:02		326	5:15		316	05:26		346	05:04		286	5:41		376	5:47		386
za	11-6				11:10	60		11:17	60		11:24	50		11:38	80		11:29	60		11:44	20		11:50	30
za	11-6			17:15		358	17:08		350	17:21		340	17:32		370	17:11		305	17:47		400	17:53		410
za	11-6				23:50	58		23:45	48		23:52	38												
zo	12-6			05:51		335	05:44		321	5:57		311		00:06	60		00:02	60		0:12	0		0:18	10
zo	12-6	10:10	EK		11:51	70		11:59	70		12:06	60	06:08		341	05:47		282	6:23		371	6:29		381
zo	12-6			18:03		357	17:55		349	18:08		339		12:20	91		12:12	79		12:26	31		12:32	41
zo	12-6												18:19		369	17:56		305	18:34		399	18:40		409
ma	13-6				00:39	60		00:32	50		0:39	40		00:53	70		00:51	60		0:59	10		1:05	20
ma	13-6			06:41		337	06:35		321	6:48		311	06:59		341	06:40		283	7:14		371	7:20		381
ma	13-6				12:52	82		12:51	79		12:58	69		13:12	99		13:07	84		13:18	39		13:24	49
ma	13-6			19:00		357	18:52		347	19:05		337	19:16		367	18:56		304	19:31		397	19:37		407
di	14-6				01:37	60		01:30	60		1:37	50		01:51	80		01:50	60		1:57	20		2:03	30
di	14-6			07:38		339	07:34		324	7:47		314	07:58		344	07:44		285	8:13		374	8:19		384
di	14-6				13:58	81		13:55	83		14:02	73		14:16	103		14:14	83		14:22	43		14:28	53
di	14-6			20:02		356	19:56		343	20:09		333	20:20		363	20:07		301	20:35		393	20:41		403
wo	15-6				02:36	60		02:36	60		2:43	50		02:57	80		02:55	60		3:03	20		3:09	30
wo	15-6			08:37		342	08:38		327	8:51		317	09:02		347	08:51		289	9:17		377	9:23		387
wo	15-6				15:04	77		15:07	79		15:14	69		15:28	99		15:25	79		15:34	39		15:40	49
wo	15-6			21:05		352	21:03		339	21:16		329	21:27		359	21:16		298	21:42		389	21:48		399
do	16-6				03:37	50		03:43	50		3:50	40		04:04	70		04:00	60		4:10	10		4:16	20
do	16-6			09:39		344	09:41		333	9:54		323	10:05		353	09:55		293	10:20		383	10:26		393
do	16-6				16:10	71		16:15	69		16:22	59		16:36	89		16:33	72		16:42	29		16:48	39
do	16-6			22:06		347	22:06		336	22:19		326	22:30		356	22:18		295	22:45		386	22:51		396
vr	17-6				04:38	50		04:44	50		4:51	40		05:05	70		05:01	60		5:11	10		5:17	20
vr	17-6			10:38		347	10:37		339	10:50		329	11:01		359	10:49		297	11:16		389	11:22		399
vr	17-6				17:13	65		17:15	58		17:22	48		17:36	78		17:31	66		17:42	18		17:48	28
vr	17-6			23:01		343	22:59		335	23:12		325	23:23		355	23:09		293			-60			
za	18-6				05:32	50		05:36	40		5:43	30		05:57	60		05:50	50	23:38		385	23:44		395
za	18-6			11:26		353	11:23		348	11:36		338	11:47		368	11:32		303		6:03	0		6:09	10
za	18-6				18:03	60		18:04	48		18:11	38		18:25	68		18:16	62	12:02		398	12:08		408
za	18-6			23:47		344	23:41		338	23:54		328				23:50		295		18:31	8		18:37	18

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel			
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	19-6				06:17	50		06:20	40		6:27	30	00:05		358		06:29	50	0:20		388	0:26		398	
zo	19-6				12:08		363	12:03		361	12:16		351		06:41	60	12:10		313		6:47	0		6:53	10
zo	19-6					18:43	53		18:47	38		18:54	28	12:27		381		18:54	56	12:42		411	12:48		421
zo	19-6														19:08	58			302		19:14	-2		19:20	8
ma	20-6				00:28		350	00:20		348	0:33		338	00:44		368	00:27		302	0:59		398	1:05		408
ma	20-6	13:02	VM			06:57	40		07:01	30		7:08	20		07:22	50		07:05	50		7:28	-10		7:34	0
ma	20-6				12:49		375	12:43		377	12:56		367	13:07		397	12:47		326	13:22		427	13:28		437
ma	20-6					19:23	46		19:27	29		19:34	19		19:48	49		19:33	49		19:54	-11		20:00	-1
di	21-6				01:10		359	01:02		360	1:15		350	01:26		380	01:07		311	1:41		410	1:47		420
di	21-6					07:38	40		07:41	20		7:48	10		08:02	40		07:43	40		8:08	-20		8:14	-10
di	21-6				13:31		386	13:24		389	13:37		379	13:48		409	13:28		336	14:03		439	14:09		449
di	21-6					20:03	41		20:08	22		20:15	12		20:29	42		20:13	43		20:35	-18		20:41	-8
wo	22-6				01:54		365	01:45		365	1:58		355	02:09		385	01:49		315	2:24		415	2:30		425
wo	22-6					08:17	40		08:22	20		8:29	10		08:43	40		08:24	40		8:49	-20		8:55	-10
wo	22-6				14:12		390	14:05		393	14:18		383	14:29		413	14:10		340	14:44		443	14:50		453
wo	22-6					20:44	39		20:48	23		20:55	13		21:09	43		20:54	43		21:15	-17		21:21	-7
do	23-6				02:36		363	02:27		360	2:40		350	02:51		380	02:33		312	3:06		410	3:12		420
do	23-6					08:55	40		09:01	30		9:08	20		09:22	50		09:03	50		9:28	-10		9:34	0
do	23-6				14:51		388	14:44		388	14:57		378	15:08		408	14:52		336	15:23		438	15:29		448
do	23-6					21:23	42		21:26	28		21:33	18		21:47	48		21:34	46		21:53	-12		21:59	-2
vr	24-6				03:15		356	03:06		348	3:19		338	03:30		368	03:15		303	3:45		398	3:51		408
vr	24-6					09:31	50		09:38	30		9:45	20		09:59	50		09:41	50		10:05	-10		10:11	0
vr	24-6				15:26		383	15:19		381	15:32		371	15:43		401	15:29		329	15:58		431	16:04		441
vr	24-6					22:00	44		22:03	33		22:10	23		22:24	53		22:12	50		22:30	-7		22:36	3
za	25-6				03:53		348	03:43		337	3:56		327	04:07		357	03:53		294	4:22		387	4:28		397
za	25-6					10:07	50		10:13	40		10:20	30		10:34	60		10:18	50		10:40	0		10:46	10
za	25-6				16:01		381	15:55		379	16:08		369	16:19		399	16:05		325	16:34		429	16:40		439
za	25-6					22:38	43		22:40	33		22:47	23		23:01	53		22:49	48		23:07	-7		23:13	3
zo	26-6				04:32		344	04:20		332	4:33		322	04:44		352	04:32		289	4:59		382	5:05		392
zo	26-6					10:46	50		10:50	40		10:57	30		11:11	60		10:58	50		11:17	0		11:23	10
zo	26-6				16:42		382	16:36		380	16:49		370	17:00		400	16:44		325	17:15		430	17:21		440
zo	26-6					23:18	39		23:19	29		23:26	19		23:40	49		23:31	44		23:46	-11		23:52	-1
ma	27-6				05:17		343	05:04		330	5:17		320	05:28		350	05:15		288	5:43		380	5:49		390
ma	27-6					11:30	40		11:32	40		11:39	30		11:53	60		11:44	50		11:59	0		12:05	10
ma	27-6				17:29		382	17:23		379	17:36		369	17:47		399	17:31		326	18:02		429	18:08		439
ma	27-6	20:19	LK																						



				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	28-6				00:05	30		00:06	20		0:13	10		00:27	40		00:21	40		0:33	-20		0:39	-10
di	28-6			06:07		342	05:56		327	6:09		317	06:20		347	06:06		287	6:35		377	6:41		387
di	28-6				12:21	49		12:22	42		12:29	32		12:43	62		12:38	52		12:49	2		12:55	12
di	28-6			18:22		378	18:19		372	18:32		362	18:43		392	18:26		323	18:58		422	19:04		432
wo	29-6				00:59	40		01:02	30		1:09	20		01:23	50		01:19	40		1:29	-10		1:35	0
wo	29-6			07:05		338	06:57		321	7:10		311	07:21		341	07:05		284	7:36		371	7:42		381
wo	29-6				13:18	55		13:23	50		13:30	40		13:44	70		13:40	56		13:50	10		13:56	20
wo	29-6			19:22		368	19:24		361	19:37		351	19:48		381	19:29		316	20:03		411	20:09		421
do	30-6				02:04	40		02:10	30		2:17	20		02:31	50		02:27	40		2:37	-10		2:43	0
do	30-6			08:14		334	08:10		317	8:23		307	08:34		337	08:13		281	8:49		367	8:55		377
do	30-6				14:27	61		14:36	56		14:43	46		14:57	76		14:54	59		15:03	16		15:09	26
do	30-6			20:36		358	20:38		353	20:51		343	21:02		373	20:40		309	21:17		403	21:23		413



				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
vr	1-7				03:22	40		03:23	30		3:30	20		03:44	50		03:42	40		3:50	-10		3:56	0
vr	1-7			09:31		333	09:23		320	9:36		310	09:47		340	09:23		281	10:02		370	10:08		380
vr	1-7				15:51	58		15:51	51		15:58	41		16:12	71		16:10	56		16:18	11		16:24	21
vr	1-7			21:58		353	21:49		350	22:02		340	22:13		370	21:51		305	22:28		400	22:34		410
za	2-7				04:32	40		04:30	20		4:37	10		04:51	40		04:49	40		4:57	-20		5:03	-10
za	2-7			10:43		338	10:28		328	10:41		318	10:52		348	10:28		286	11:07		378	11:13		388
za	2-7				17:03	48		17:00	36		17:07	26		17:21	56		17:18	47		17:27	-4		17:33	6
za	2-7			23:10		354	22:56		352	23:09		342	23:20		372	22:58		306			402			412
zo	3-7				05:38	30		05:33	20		5:40	10		05:54	40		05:52	40	23:35		402	23:41		412
zo	3-7			11:41		348	11:28		340	11:41		330	11:52		360	11:27		295		6:00	-20		6:06	-10
zo	3-7				18:12	33		18:05	19		18:12	9		18:26	39		18:22	35	12:07		390	12:13		400
zo	3-7						23:58		357	0:11		347				23:58		309		18:32	-21		18:38	-11
ma	4-7			00:09		359		06:35	10		6:42	0	00:22		377		06:50	30	0:37		407	0:43		417
ma	4-7	13:01	NM		06:41	30	12:23		353	12:36		343		06:56	30	12:22		306		7:02	-30		7:08	-20
ma	4-7			12:33		359		19:06	5		19:13	-5	12:47		373		19:20	23	13:02		403	13:08		413
ma	4-7				19:12	19								19:27	25					19:33	-35		19:39	-25
di	5-7			01:02		364	00:56		363	1:09		353	01:20		383	00:54		314	1:35		413	1:41		423
di	5-7				07:35	20		07:32	0		7:39	-10		07:53	20		07:42	20		7:59	-40		8:05	-30
di	5-7			13:21		369	13:16		363	13:29		353	13:40		383	13:15		315	13:55		413	14:01		423
di	5-7				20:04	10		20:01	0		20:08	-10		20:22	18		20:12	16		20:28	-42		20:34	-32
wo	6-7			01:51		366	01:50		364	2:03		354	02:14		384	01:46		316	2:29		414	2:35		424
wo	6-7				08:23	20		08:23	10		8:30	0		08:44	30		08:30	20		8:50	-30		8:56	-20
wo	6-7			14:07		374	14:07		368	14:20		358	14:31		388	14:05		320	14:46		418	14:52		428
wo	6-7				20:50	12		20:50	3		20:57	-7		21:11	23		20:59	19		21:17	-37		21:23	-27
do	7-7			02:38		365	02:40		360	2:53		350	03:04		380	02:36		313	3:19		410	3:25		420
do	7-7				09:07	30		09:09	20		9:16	10		09:30	40		09:15	30		9:36	-20		9:42	-10
do	7-7			14:51		376	14:52		367	15:05		357	15:16		387	14:52		320	15:31		417	15:37		427
do	7-7				21:33	24		21:33	17		21:40	7		21:54	37		21:43	30		22:00	-23		22:06	-13
vr	8-7			03:21		360	03:24		349	3:37		339	03:48		369	03:20		307	4:03		399	4:09		409
vr	8-7				09:45	40		09:48	30		9:55	20		10:09	50		09:55	40		10:15	-10		10:21	0
vr	8-7			15:31		373	15:32		361	15:45		351	15:56		381	15:33		317	16:11		411	16:17		421
vr	8-7				22:11	41		22:10	34		22:17	24		22:31	54		22:22	46		22:37	-6		22:43	4
za	9-7			04:00		354	04:01		338	4:14		328	04:25		358	04:00		299	4:40		388	4:46		398
za	9-7				10:19	60		10:23	50		10:30	40		10:44	70		10:31	60		10:50	10		10:56	20
za	9-7			16:09		370	16:06		357	16:19		347	16:30		377	16:07		314	16:45		407	16:51		417
za	9-7				22:44	55		22:44	46		22:51	36		23:05	66		22:57	60		23:11	6		23:17	16

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"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	10-7			04:38		350	04:35		332	4:48		322	04:59		352	04:34		295	5:14		382	5:20		392
zo	10-7				10:47	70		10:56	60		11:03	50		11:17	80		11:03	70		11:23	20		11:29	30
zo	10-7			16:46		369	16:40		356	16:53		346	17:04		376	16:39		315	17:19		406	17:25		416
zo	10-7				23:17	62		23:20	52		23:27	42		23:41	72		23:30	68			-60			
ma	11-7			05:18		349	05:11		331	5:24		321	05:35		351	05:09		295		23:47	10		23:53	20
ma	11-7				11:21	70		11:32	60		11:39	50		11:53	80		11:38	70	5:50		381	5:56		391
ma	11-7			17:27		367	17:20		355	17:33		345	17:44		375	17:18		314		11:59	26		12:05	36
ma	11-7				23:57	66		23:58	55		0:05	45							17:59		405	18:05		415
di	12-7	2:52	EK	06:02		348	05:55		331	6:08		321		00:19	70		00:09	70		0:25	10		0:31	20
di	12-7				12:05	70		12:15	70		12:22	60	06:19		351	05:54		295	6:34		381	6:40		391
di	12-7			18:16		362	18:08		349	18:21		339		12:36	91		12:23	82		12:42	31		12:48	41
di	12-7												18:32		369	18:09		309	18:47		399	18:53		409
wo	13-7				00:46	70		00:45	60		0:52	50		01:06	80		00:59	70		1:12	20		1:18	30
wo	13-7			06:54		346	06:46		327	6:59		317	07:10		347	06:51		291	7:25		377	7:31		387
wo	13-7				13:02	85		13:06	81		13:13	71		13:27	101		13:20	88		13:33	41		13:39	51
wo	13-7			19:12		353	19:04		337	19:17		327	19:28		357	19:14		299	19:43		387	19:49		397
do	14-7				01:43	70		01:41	70		1:48	60		02:02	90		01:58	80		2:08	30		2:14	40
do	14-7			07:49		342	07:45		323	7:58		313	08:09		343	07:58		288	8:24		373	8:30		383
do	14-7				14:05	91		14:10	91		14:17	81		14:31	111		14:27	93		14:37	51		14:43	61
do	14-7			20:13		344	20:07		325	20:20		315	20:31		345	20:23		290	20:46		375	20:52		385
vr	15-7				02:44	80		02:47	80		2:54	70		03:08	100		03:04	80		3:14	40		3:20	50
vr	15-7			08:48		341	08:48		323	9:01		313	09:12		343	09:03		289	9:27		373	9:33		383
vr	15-7				15:12	93		15:22	94		15:29	84		15:43	114		15:38	94		15:49	54		15:55	64
vr	15-7			21:14		338	21:12		320	21:25		310	21:36		340	21:29		287	21:51		370	21:57		380
za	16-7				03:45	80		03:54	80		4:01	70		04:15	100		04:09	80		4:21	40		4:27	50
za	16-7			09:48		346	09:50		331	10:03		321	10:14		351	10:02		296	10:29		381	10:35		391
za	16-7				16:20	90		16:31	84		16:38	74		16:52	104		16:44	90		16:58	44		17:04	54
za	16-7			22:14		338	22:13		325	22:26		315	22:37		345	22:27		290	22:52		375	22:58		385
zo	17-7				04:45	80		04:55	70		5:02	60		05:16	90		05:06	80		5:22	30		5:28	40
zo	17-7			10:46		357	10:46		348	10:59		338	11:10		368	10:55		308	11:25		398	11:31		408
zo	17-7				17:23	81		17:30	69		17:37	59		17:51	89		17:39	82		17:57	29		18:03	39
zo	17-7			23:11		345	23:08		338	23:21		328	23:32		358	23:17		298			-60			-50
ma	18-7				05:41	70		05:48	50		5:55	40		06:09	70		05:55	70	23:47		388	23:53		398
ma	18-7			11:38		372	11:36		368	11:49		358	12:00		388	11:42		322		6:15	10		6:21	20
ma	18-7				18:14	70		18:21	53		18:28	43		18:42	73		18:26	71	12:15		418	12:21		428
ma	18-7					355	23:57		351	0:10		341			371			307		18:48	13		18:54	23

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"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	19-7			00:03		355		06:36	40		6:43	30	00:21		371	00:03		307	0:36		401	0:42		411
di	19-7				06:30	60	12:22		384	12:35		374		06:57	60		06:39	60		7:03	0		7:09	10
di	19-7			12:26		385		19:07	39		19:14	29	12:46		404	12:25		335	13:01		434	13:07		444
di	19-7				19:01	57								19:28	59		19:11	60		19:34	-1		19:40	9
wo	20-7	0:57	VM	00:51		363	00:44		361	0:57		351	01:08		381	00:47		314	1:23		411	1:29		421
wo	20-7				07:16	50		07:22	30		7:29	20		07:43	50		07:23	50		7:49	-10		7:55	0
wo	20-7			13:11		392	13:06		392	13:19		382	13:30		412	13:09		342	13:45		442	13:51		452
wo	20-7				19:45	46		19:51	30		19:58	20		20:12	50		19:56	51		20:18	-10		20:24	0
do	21-7			01:37		366	01:29		362	1:42		352	01:53		382	01:31		315	2:08		412	2:14		422
do	21-7				08:00	40		08:05	30		8:12	20		08:26	50		08:07	50		8:32	-10		8:38	0
do	21-7			13:54		393	13:48		392	14:01		382	14:12		412	13:51		342	14:27		442	14:33		452
do	21-7				20:28	39		20:33	25		20:40	15		20:54	45		20:39	45		21:00	-15		21:06	-5
vr	22-7			02:20		363	02:13		356	2:26		346	02:37		376	02:15		310	2:52		406	2:58		416
vr	22-7				08:40	40		08:46	30		8:53	20		09:07	50		08:48	50		9:13	-10		9:19	0
vr	22-7			14:33		390	14:27		388	14:40		378	14:51		408	14:32		338	15:06		438	15:12		448
vr	22-7				21:09	36		21:13	23		21:20	13		21:34	43		21:20	43		21:40	-17		21:46	-7
za	23-7			03:00		357	02:52		347	3:05		337	03:16		367	02:56		303	3:31		397	3:37		407
za	23-7				09:18	40		09:24	30		9:31	20		09:45	50		09:28	40		9:51	-10		9:57	0
za	23-7			15:10		388	15:03		386	15:16		376	15:27		406	15:11		334	15:42		436	15:48		446
za	23-7				21:47	33		21:51	20		21:58	10		22:12	40		21:59	41		22:18	-20		22:24	-10
zo	24-7			03:39		353	03:29		341	3:42		331	03:53		361	03:35		298	4:08		391	4:14		401
zo	24-7				09:55	30		10:02	20		10:09	10		10:23	40		10:06	40		10:29	-20		10:35	-10
zo	24-7			15:47		389	15:41		388	15:54		378	16:05		408	15:50		333	16:20		438	16:26		448
zo	24-7				22:25	31		22:29	17		22:36	7		22:50	37		22:37	38		22:56	-23		23:02	-13
ma	25-7			04:19		351	04:07		340	4:20		330	04:31		360	04:16		296	4:46		390	4:52		400
ma	25-7				10:33	30		10:39	20		10:46	10		11:00	40		10:45	40		11:06	-20		11:12	-10
ma	25-7			16:28		390	16:22		391	16:35		381	16:46		411	16:31		334	17:01		441	17:07		451
ma	25-7				23:04	31		23:08	17		23:15	7		23:29	37		23:17	36		23:35	-23		23:41	-13
di	26-7			05:02		350	04:50		339	5:03		329	05:14		359	04:58		295	5:29		389	5:35		399
di	26-7				11:14	30		11:20	20		11:27	10		11:41	40		11:28	40		11:47	-20		11:53	-10
di	26-7			17:14		387	17:08		387	17:21		377	17:32		407	17:16		332	17:47		437	17:53		447
di	26-7				23:47	36		23:51	22		23:58	12												
wo	27-7	1:00	LK	05:50		346	05:38		333	5:51		323		00:12	40		00:02	30		0:18	-20		0:24	-10
wo	27-7				12:01	40		12:06	30		12:13	20	06:02		353	05:46		292	6:17		383	6:23		393
wo	27-7			18:04		376	18:01		373	18:14		363		12:27	53		12:18	45		12:33	-7		12:39	3
wo	27-7												18:25		393	18:07		324	18:40		423	18:46		433

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
do	28-7				00:36	40		00:41	30		0:48	20		01:02	50		00:55	40		1:08	-10		1:14	0
do	28-7			06:45		337	06:36		321	6:49		311	07:00		341	06:40		285	7:15		371	7:21		381
do	28-7				12:54	56		13:01	49		13:08	39		13:22	69		13:16	55		13:28	9		13:34	19
do	28-7			19:04		360	19:05		353	19:18		343	19:29		373	19:07		311	19:44		403	19:50		413
vr	29-7				01:39	60		01:43	50		1:50	40		02:04	70		02:01	50		2:10	10		2:16	20
vr	29-7			07:52		329	07:47		311	8:00		301	08:11		331	07:45		278	8:26		361	8:32		371
vr	29-7				14:06	67		14:10	64		14:17	54		14:31	84		14:29	65		14:37	24		14:43	34
vr	29-7			20:21		345	20:20		338	20:33		328	20:44		358	20:19		299	20:59		388	21:05		398
za	30-7				03:03	60		02:57	50		3:04	40		03:18	70		03:18	60		3:24	10		3:30	20
za	30-7			09:10		327	09:02		312	9:15		302	09:26		332	08:59		277	9:41		362	9:47		372
za	30-7				15:36	66		15:30	63		15:37	53		15:51	83		15:51	64		15:57	23		16:03	33
za	30-7			21:45		341	21:35		335	21:48		325	21:59		355	21:36		294	22:14		385	22:20		395
zo	31-7				04:15	60		04:11	50		4:18	40		04:32	70		04:31	60		4:38	10		4:44	20
zo	31-7			10:24		336	10:12		324	10:25		314	10:36		344	10:12		284	10:51		374	10:57		384
zo	31-7				16:50	54		16:46	47		16:53	37		17:07	67		17:06	54		17:13	7		17:19	17
zo	31-7			22:58		348	22:45		344	22:58		334	23:09		364	22:49		298	23:24		394	23:30		404

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	1-8				05:25	50		05:20	30		5:27	20		05:41	50		05:39	50		5:47	-10		5:53	0
ma	1-8			11:25		352	11:15		343	11:28		333	11:39		363	11:18		298	11:54		393	12:00		403
ma	1-8				18:04	39		17:56	27		18:03	17		18:17	47		18:15	41		18:23	-13		18:29	-3
ma	1-8			23:58		359	23:50		356	0:03		346				23:52		307			-60			
di	2-8				06:31	40		06:25	20		6:32	10	00:14		376		06:40	40	0:29		406	0:35		416
di	2-8			12:18		368	12:13		362	12:26		352		06:46	40	12:16		313		6:52	-20		6:58	-10
di	2-8				19:03	26		18:59	13		19:06	3	12:37		382		19:12	32	12:52		412	12:58		422
di	2-8	22:45	NM											19:20	33					19:26	-27		19:32	-17
wo	3-8			00:50		368	00:47		366	1:00		356	01:11		386	00:46		316	1:26		416	1:32		426
wo	3-8				07:23	30		07:23	10		7:30	0		07:44	30		07:31	30		7:50	-30		7:56	-20
wo	3-8			13:06		379	13:06		373	13:19		363	13:30		393	13:07		324	13:45		423	13:51		433
wo	3-8				19:52	22		19:53	10		20:00	0		20:14	30		20:01	31		20:20	-30		20:26	-20
do	4-8			01:37		372	01:39		367	1:52		357	02:03		387	01:35		320	2:18		417	2:24		427
do	4-8				08:09	30		08:12	20		8:19	10		08:33	40		08:16	40		8:39	-20		8:45	-10
do	4-8			13:51		384	13:53		376	14:06		366	14:17		396	13:53		328	14:32		426	14:38		436
do	4-8				20:35	29		20:38	21		20:45	11		20:59	41		20:44	38		21:05	-19		21:11	-9
vr	5-8			02:20		370	02:24		360	2:37		350	02:48		380	02:18		317	3:03		410	3:09		420
vr	5-8				08:49	40		08:54	30		9:01	20		09:15	50		08:57	50		9:21	-10		9:27	0
vr	5-8			14:31		383	14:34		371	14:47		361	14:58		391	14:33		327	15:13		421	15:19		431
vr	5-8				21:13	43		21:16	37		21:23	27		21:37	57		21:23	51		21:43	-3		21:49	7
za	6-8			02:58		366	03:01		350	3:14		340	03:25		370	02:56		312	3:40		400	3:46		410
za	6-8				09:24	50		09:29	50		9:36	40		09:50	70		09:33	60		9:56	10		10:02	20
za	6-8			15:06		380	15:07		365	15:20		355	15:31		385	15:07		323	15:46		415	15:52		425
za	6-8				21:45	55		21:49	48		21:56	38		22:10	68		21:56	62		22:16	8		22:22	18
zo	7-8			03:32		363	03:31		344	3:44		334	03:55		364	03:29		309	4:10		394	4:16		404
zo	7-8				09:52	60		09:59	50		10:06	40		10:20	70		10:04	70		10:26	10		10:32	20
zo	7-8			15:40		379	15:36		363	15:49		353	16:00		383	15:35		323	16:15		413	16:21		423
zo	7-8				22:13	62		22:18	52		22:25	42		22:39	72		22:25	69		22:45	12		22:51	22
ma	8-8			04:05		363	04:00		344	4:13		334	04:24		364	03:58		308	4:39		394	4:45		404
ma	8-8				10:17	70		10:29	50		10:36	40		10:50	70		10:32	70		10:56	10		11:02	20
ma	8-8			16:13		378	16:07		365	16:20		355	16:31		385	16:05		324	16:46		415	16:52		425
ma	8-8				22:43	64		22:49	51		22:56	41		23:10	71		22:54	71		23:16	11		23:22	21
di	9-8			04:41		363	04:34		346	4:47		336	04:58		366	04:31		309	5:13		396	5:19		406
di	9-8				10:49	70		11:01	60		11:08	50		11:22	80		11:04	70		11:28	20		11:34	30
di	9-8			16:50		375	16:43		363	16:56		353	17:07		383	16:41		322	17:22		413	17:28		423
di	9-8				23:17	69		23:22	54		23:29	44		23:43	74		23:28	74			-60			

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"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	10-8			05:22		360	05:12		344	5:25		334	05:36		364	05:10		307		23:49	10		23:55	20
wo	10-8				11:27	80		11:37	60		11:44	50		11:58	80		11:43	80	5:51		394	5:57		404
wo	10-8			17:32		366	17:24		353	17:37		343	17:48		373	17:25		314		12:04	27		12:10	37
wo	10-8	20:21	EK		23:57	80		23:59	67		0:06	57							18:03		403	18:09		413
do	11-8			06:08		353	05:56		335	6:09		325		00:20	80		00:09	80		0:26	20		0:32	30
do	11-8				12:13	90		12:18	80		12:25	70	06:20		355	05:58		300	6:35		385	6:41		395
do	11-8			18:20		353	18:11		337	18:24		327		12:39	102		12:29	94		12:45	42		12:51	52
do	11-8												18:35		357	18:19		301	18:50		387	18:56		397
vr	12-8				00:44	90		00:43	80		0:50	70		01:04	100		00:58	90		1:10	40		1:16	50
vr	12-8			06:58		346	06:46		324	6:59		314	07:10		344	06:57		293	7:25		374	7:31		384
vr	12-8				13:07	108		13:07	104		13:14	94		13:28	124		13:25	109		13:34	64		13:40	74
vr	12-8			19:15		342	19:06		321	19:19		311	19:30		341	19:23		289	19:45		371	19:51		381
za	13-8				01:38	110		01:38	110		1:45	100		01:59	130		01:56	110		2:05	70		2:11	80
za	13-8			07:55		344	07:45		319	7:58		309	08:09		339	08:05		292	8:24		369	8:30		379
za	13-8				14:08	118		14:12	121		14:19	111		14:33	141		14:33	119		14:39	81		14:45	91
za	13-8			20:16		337	20:09		314	20:22		304	20:33		334	20:33		285	20:48		364	20:54		374
zo	14-8				02:39	110		02:49	120		2:56	110		03:10	140		03:02	110		3:16	80		3:22	90
zo	14-8			08:57		350	08:52		327	9:05		317	09:16		347	09:12		300	9:31		377	9:37		387
zo	14-8				15:16	117		15:34	120		15:41	110		15:55	140		15:47	118		16:01	80		16:07	90
zo	14-8			21:21		341	21:19		321	21:32		311	21:43		341	21:40		291	21:58		371	22:04		381
ma	15-8				03:44	110		04:06	100		4:13	90		04:27	120		04:13	110		4:33	60		4:39	70
ma	15-8			10:03		364	10:02		348	10:15		338	10:26		368	10:14		316	10:41		398	10:47		408
ma	15-8				16:32	105		16:51	99		16:58	89		17:12	119		16:57	105		17:18	59		17:24	69
ma	15-8			22:30		351	22:29		337	22:42		327	22:53		357	22:41		302	23:08		387	23:14		397
di	16-8				04:56	90		05:13	80		5:20	70		05:34	100		05:16	90		5:40	40		5:46	50
di	16-8			11:06		382	11:05		373	11:18		363	11:29		393	11:10		332	11:44		423	11:50		433
di	16-8				17:42	85		17:52	71		17:59	61		18:13	91		17:56	86		18:19	31		18:25	41
di	16-8			23:35		363	23:30		355	23:43		345	23:54		375	23:37		313			-60			
wo	17-8				06:01	70		06:10	50		6:17	40		06:31	70		06:12	80	0:09		405	0:15		415
wo	17-8			12:01		394	11:58		390	12:11		380	12:22		410	12:02		343		6:37	10		6:43	20
wo	17-8				18:36	65		18:44	48		18:51	38		19:05	68		18:48	67	12:37		440	12:43		450
wo	17-8																			19:11	8		19:17	18
do	18-8			00:29		370	00:23		364	0:36		354	00:47		384	00:26		318	1:02		414	1:08		424
do	18-8	11:27	VM		06:53	60		06:59	40		7:06	30		07:20	60		07:02	60		7:26	0		7:32	10
do	18-8			12:49		399	12:45		397	12:58		387	13:09		417	12:48		346	13:24		447	13:30		457
do	18-8				19:24	49		19:31	34		19:38	24		19:52	54		19:36	54		19:58	-6		20:04	4

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"E		
maandag	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	19-8			01:17		370	01:10		362	1:23		352	01:34		382	01:11		316	1:49		412	1:55		422
vr	19-8				07:39	40		07:45	30		7:52	20		08:06	50		07:48	50		8:12	-10		8:18	0
vr	19-8			13:33		397	13:28		395	13:41		385	13:52		415	13:30		343	14:07		445	14:13		455
vr	19-8				20:09	38		20:14	26		20:21	16		20:35	46		20:21	46		20:41	-14		20:47	-4
za	20-8			02:01		366	01:54		356	2:07		346	02:18		376	01:52		311	2:33		406	2:39		416
za	20-8				08:22	40		08:27	30		8:34	20		08:48	50		08:31	40		8:54	-10		9:00	0
za	20-8			14:13		395	14:07		393	14:20		383	14:31		413	14:09		341	14:46		443	14:52		453
za	20-8				20:51	32		20:54	19		21:01	9		21:15	39		21:02	41		21:21	-21		21:27	-11
zo	21-8			02:41		362	02:33		350	2:46		340	02:57		370	02:31		307	3:12		400	3:18		410
zo	21-8				09:01	30		09:06	20		9:13	10		09:27	40		09:11	40		9:33	-20		9:39	-10
zo	21-8			14:52		396	14:44		395	14:57		385	15:08		415	14:47		341	15:23		445	15:29		455
zo	21-8				21:30	28		21:33	13		21:40	3		21:54	33		21:42	38		22:00	-27		22:06	-17
ma	22-8			03:21		362	03:11		350	3:24		340	03:35		370	03:11		306	3:50		400	3:56		410
ma	22-8				09:39	30		09:45	10		9:52	0		10:06	30		09:50	30		10:12	-30		10:18	-20
ma	22-8			15:31		399	15:24		400	15:37		390	15:48		420	15:29		343	16:03		450	16:09		460
ma	22-8				22:08	27		22:12	9		22:19	-1		22:33	29		22:20	35		22:39	-31		22:45	-21
di	23-8			04:02		363	03:50		352	4:03		342	04:14		372	03:54		307	4:29		402	4:35		412
di	23-8				10:17	20		10:24	10		10:31	0		10:45	30		10:29	30		10:51	-30		10:57	-20
di	23-8			16:13		398	16:06		400	16:19		390	16:30		420	16:13		343	16:45		450	16:51		460
di	23-8				22:46	31		22:51	12		22:58	2		23:12	32		23:00	37		23:18	-28		23:24	-18
wo	24-8			04:44		361	04:32		351	4:45		341	04:56		371	04:38		305	5:11		401	5:17		411
wo	24-8				10:57	30		11:05	10		11:12	0		11:26	30		11:12	30		11:32	-30		11:38	-20
wo	24-8			16:59		389	16:53		390	17:06		380	17:17		410	16:59		336	17:32		440	17:38		450
wo	24-8				23:27	43		23:32	26		23:39	16		23:53	46		23:43	44			-60			
do	25-8	5:41	LK	05:31		353	05:19		341	5:32		331	05:43		361	05:25		299	#####		-20		0:05	-10
do	25-8				11:41	40		11:49	30		11:56	20		12:10	50		11:59	40	5:58		391	6:04		401
do	25-8			17:50		371	17:45		368	17:58		358	18:09		388	17:50		320		12:16	-7		12:22	3
do	25-8															50			18:24		418	18:30		428
vr	26-8				00:12	60		00:19	40		0:26	30		00:40	60		00:33	50		0:46	0		0:52	10
vr	26-8			06:25		340	06:15		326	6:28		316	06:39		346	06:19		288	6:54		376	7:00		386
vr	26-8				12:33	63		12:40	56		12:47	46		13:01	76		12:56	62		13:07	16		13:13	26
vr	26-8			18:52		349	18:50		342	19:03		332	19:14		362	18:50		301	19:29		392	19:35		402
za	27-8				01:17	70		01:17	70		1:24	60		01:38	90		01:38	70		1:44	30		1:50	40
za	27-8			07:32		328	07:26		312	7:39		302	07:50		332	07:24		278	8:05		362	8:11		372
za	27-8				13:59	77		13:49	76		13:56	66		14:10	96		14:14	74		14:16	36		14:22	46
za	27-8			20:11		334	20:06		326	20:19		316	20:30		346	20:07		287	20:45		376	20:51		386



				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	28-8				02:49	80		02:35	80		2:42	70		02:56	100		03:00	80		3:02	40		3:08	50
zo	28-8			08:50		328	08:43		313	8:56		303	09:07		333	08:44		277	9:22		363	9:28		373
zo	28-8				15:25	74		15:14	79		15:21	69		15:35	99		15:40	73		15:41	39		15:47	49
zo	28-8			21:34		335	21:23		328	21:36		318	21:47		348	21:29		285	22:02		378	22:08		388
ma	29-8				04:01	70		03:55	70		4:02	60		04:16	90		04:18	70		4:22	30		4:28	40
ma	29-8			10:07		343	09:56		331	10:09		321	10:20		351	10:03		289	10:35		381	10:41		391
ma	29-8				16:41	62		16:34	61		16:41	51		16:55	81		16:59	62		17:01	21		17:07	31
ma	29-8			22:46		350	22:35		344	22:48		334	22:59		364	22:43		297	23:14		394	23:20		404
di	30-8				05:14	60		05:09	50		5:16	40		05:30	70		05:29	60		5:36	10		5:42	20
di	30-8			11:09		365	11:03		358	11:16		348	11:27		378	11:12		309	11:42		408	11:48		418
di	30-8				17:54	46		17:47	37		17:54	27		18:08	57		18:07	49		18:14	-3		18:20	7
di	30-8			23:45		367	23:40		364	23:53		354				23:44		313			-60			
wo	31-8				06:17	40		06:15	30		6:22	20	00:04		384		06:29	50	0:19		414	0:25		424
wo	31-8			12:03		384	12:02		380	12:15		370		06:36	50	12:08		327		6:42	-10		6:48	0
wo	31-8				18:48	35		18:48	22		18:55	12	12:26		400		19:01	42	12:41		430	12:47		440
wo	31-8													19:09	42					19:15	-18		19:21	-8



					Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan					53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	1-9				00:36		378	00:36		375	0:49		365	01:00		395	00:35		324	1:15		425	1:21		435
do	1-9	11:03	NM			07:07	40		07:10	20		7:17	10		07:31	40		07:18	40		7:37	-20		7:43	-10
do	1-9				12:50		393	12:53		388	13:06		378	13:17		408	12:56		336	13:32		438	13:38		448
do	1-9					19:34	36		19:38	23		19:45	13		19:59	43		19:46	46		20:05	-17		20:11	-7
vr	2-9				01:20		380	01:24		372	1:37		362	01:48		392	01:19		326	2:03		422	2:09		432
vr	2-9					07:51	40		07:56	30		8:03	20		08:17	50		07:59	50		8:23	-10		8:29	0
vr	2-9				13:32		392	13:36		384	13:49		374	14:00		404	13:36		336	14:15		434	14:21		444
vr	2-9					20:14	47		20:20	37		20:27	27		20:41	57		20:24	56		20:47	-3		20:53	7
za	3-9				01:59		375	02:02		361	2:15		351	02:26		381	01:57		323	2:41		411	2:47		421
za	3-9					08:28	50		08:33	50		8:40	40		08:54	70		08:35	60		9:00	10		9:06	20
za	3-9				14:07		387	14:10		374	14:23		364	14:34		394	14:09		331	14:49		424	14:55		434
za	3-9					20:48	58		20:53	52		21:00	42		21:14	72		20:57	66		21:20	12		21:26	22
zo	4-9				02:30		371	02:31		353	2:44		343	02:55		373	02:28		319	3:10		403	3:16		413
zo	4-9					08:58	60		09:03	60		9:10	50		09:24	80		09:06	70		9:30	20		9:36	30
zo	4-9				14:38		384	14:37		369	14:50		359	15:01		389	14:36		328	15:16		419	15:22		429
zo	4-9					21:16	64		21:21	56		21:28	46		21:42	76		21:25	71		21:48	16		21:54	26
ma	5-9				02:59		372	02:56		354	3:09		344	03:20		374	02:55		319	3:35		404	3:41		414
ma	5-9					09:22	70		09:30	50		9:37	40		09:51	70		09:34	70		9:57	10		10:03	20
ma	5-9				15:08		384	15:03		372	15:16		362	15:27		392	15:03		330	15:42		422	15:48		432
ma	5-9					21:41	65		21:48	51		21:55	41		22:09	71		21:52	71		22:15	11		22:21	21
di	6-9				03:31		376	03:25		362	3:38		352	03:49		382	03:24		323	4:04		412	4:10		422
di	6-9					09:48	70		09:59	50		10:06	40		10:20	70		10:03	70		10:26	10		10:32	20
di	6-9				15:41		384	15:34		375	15:47		365	15:58		395	15:35		331	16:13		425	16:19		435
di	6-9					22:09	67		22:16	49		22:23	39		22:37	69		22:21	72		22:43	9		22:49	19
wo	7-9				04:07		377	03:58		365	4:11		355	04:22		385	03:58		324	4:37		415	4:43		425
wo	7-9					10:20	70		10:31	50		10:38	40		10:52	70		10:34	70		10:58	10		11:04	20
wo	7-9				16:17		380	16:09		370	16:22		360	16:33		390	16:10		328	16:48		420	16:54		430
wo	7-9					22:41	77		22:47	58		22:54	48		23:08	78		22:52	80		23:14	18		23:20	28
do	8-9				04:45		372	04:33		359	4:46		349	04:57		379	04:34		320	5:12		409	5:18		419
do	8-9					10:55	80		11:02	70		11:09	60		11:23	90		11:09	80		11:29	30		11:35	40
do	8-9				16:55		369	16:45		358	16:58		348	17:09		378	16:48		318	17:24		408	17:30		418
do	8-9					23:14	96		23:18	78		23:25	68		23:39	98		23:26	96		23:45	38		23:51	48
vr	9-9				05:24		365	05:09		348	5:22		338	05:33		368	05:12		313	5:48		398	5:54		408
vr	9-9					11:33	100		11:36	90		11:43	80		11:57	110		11:47	100		12:03	50		12:09	60
vr	9-9	13:49	EK		17:35		357	17:23		341	17:36		331	17:47		361	17:30		306	18:02		391	18:08		401
vr	9-9					23:48	116		23:53	102		0:00	92												

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	10-9			06:05		358	05:49		337	6:02		327		00:14	120		00:05	110		0:20	60		0:26	70
za	10-9				12:19	120		12:17	110		12:24	100	06:13		357	05:58		306	6:28		387	6:34		397
za	10-9			18:23		348	18:11		326	18:24		316		12:38	132		12:34	123		12:44	72		12:50	82
za	10-9												18:35		346	18:22		295	18:50		376	18:56		386
zo	11-9				00:37	130		00:38	120		0:45	110		00:59	140		00:55	130		1:05	80		1:11	90
zo	11-9			06:55		357	06:42		331	6:55		321	07:06		351	06:59		304	7:21		381	7:27		391
zo	11-9				13:17	134		13:11	132		13:18	122		13:32	152		13:35	136		13:38	92		13:44	102
zo	11-9			19:19		345	19:12		318	19:25		308	19:36		338	19:29		291	19:51		368	19:57		378
ma	12-9				01:40	130		01:41	130		1:48	120		02:02	150		02:00	130		2:08	90		2:14	100
ma	12-9			07:55		362	07:50		335	8:03		325	08:14		355	08:12		310	8:29		385	8:35		395
ma	12-9				14:24	131		14:26	139		14:33	129		14:47	159		14:49	134		14:53	99		14:59	109
ma	12-9			20:25		349	20:25		322	20:38		312	20:49		342	20:47		295	21:04		372	21:10		382
di	13-9				02:48	120		03:05	130		3:12	120		03:26	150		03:15	130		3:32	90		3:38	100
di	13-9			09:09		374	09:10		351	9:23		341	09:34		371	09:27		324	9:49		401	9:55		411
di	13-9				15:38	116		16:02	119		16:09	109		16:23	139		16:11	117		16:29	79		16:35	89
di	13-9			21:43		358	21:46		338	21:59		328	22:10		358	22:02		307	22:25		388	22:31		398
wo	14-9				04:02	100		04:30	100		4:37	90		04:51	120		04:34	110		4:57	60		5:03	70
wo	14-9			10:29		389	10:26		375	10:39		365	10:50		395	10:34		339	11:05		425	11:11		435
wo	14-9				17:03	91		17:16	83		17:23	73		17:37	103		17:22	91		17:43	43		17:49	53
wo	14-9			23:03		370	22:58		356	23:11		346	23:22		376	23:07		318			-60			
do	15-9				05:25	80		05:36	70		5:43	60		05:57	90		05:41	80	23:37		406	23:43		416
do	15-9			11:31		401	11:26		393	11:39		383	11:50		413	11:33		348		6:03	30		6:09	40
do	15-9				18:07	66		18:13	54		18:20	44		18:34	74		18:20	69	12:05		443	12:11		453
do	15-9						23:56		366	0:09		356								18:40	14		18:46	24
vr	16-9			00:04		377		06:31	50		6:38	40	00:20		386	00:02		323	0:35		416	0:41		426
vr	16-9				06:26	60	12:17		399	12:30		389		06:52	70		06:37	60		6:58	10		7:04	20
vr	16-9			12:23		405		19:03	37		19:10	27	12:41		419	12:21		349	12:56		449	13:02		459
vr	16-9	21:05 VM			18:59	48								19:24	57		19:11	54		19:30	-3		19:36	7
za	17-9			00:53		376	00:45		364	0:58		354	01:09		384	00:46		320	1:24		414	1:30		424
za	17-9				07:15	50		07:19	40		7:26	30		07:40	60		07:25	50		7:46	0		7:52	10
za	17-9			13:08		403	13:01		398	13:14		388	13:25		418	13:02		347	13:40		448	13:46		458
za	17-9				19:45	38		19:48	29		19:55	19		20:09	49		19:57	47		20:15	-11		20:21	-1
zo	18-9			01:37		373	01:28		358	1:41		348	01:52		378	01:25		315	2:07		408	2:13		418
zo	18-9				08:00	40		08:01	30		8:08	20		08:22	50		08:09	50		8:28	-10		8:34	0
zo	18-9			13:50		402	13:41		397	13:54		387	14:05		417	13:40		346	14:20		447	14:26		457
zo	18-9				20:28	33		20:29	21		20:36	11		20:50	41		20:40	43		20:56	-19		21:02	-9

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"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	19-9			02:18		372	02:08		356	2:21		346	02:32		376	02:03		315	2:47		406	2:53		416
ma	19-9				08:41	30		08:43	20		8:50	10		09:04	40		08:51	40		9:10	-20		9:16	-10
ma	19-9			14:31		404	14:21		401	14:34		391	14:45		421	14:21		348	15:00		451	15:06		461
ma	19-9				21:09	30		21:09	14		21:16	4		21:30	34		21:20	40		21:36	-26		21:42	-16
di	20-9			02:59		374	02:47		360	3:00		350	03:11		380	02:44		317	3:26		410	3:32		420
di	20-9				09:21	30		09:23	10		9:30	0		09:44	30		09:32	30		9:50	-30		9:56	-20
di	20-9			15:13		405	15:03		404	15:16		394	15:27		424	15:05		350	15:42		454	15:48		464
di	20-9				21:47	31		21:49	10		21:56	0		22:10	30		21:59	39		22:16	-30		22:22	-20
wo	21-9			03:40		376	03:28		364	3:41		354	03:52		384	03:30		320	4:07		414	4:13		424
wo	21-9				09:59	20		10:05	10		10:12	0		10:26	30		10:13	30		10:32	-30		10:38	-20
wo	21-9			15:57		400	15:48		399	16:01		389	16:12		419	15:53		345	16:27		449	16:33		459
wo	21-9				22:26	38		22:29	17		22:36	7		22:50	37		22:40	43		22:56	-23		23:02	-13
do	22-9			04:24		372	04:11		362	4:24		352	04:35		382	04:17		317	4:50		412	4:56		422
do	22-9				10:39	30		10:46	10		10:53	0		11:07	30		10:56	30		11:13	-30		11:19	-20
do	22-9			16:45		384	16:36		382	16:49		372	17:00		402	16:43		332	17:15		432	17:21		442
do	22-9				23:04	53		23:10	36		23:17	26		23:31	56		23:22	55		23:37	-4		23:43	6
vr	23-9			05:11		361	04:58		351	5:11		341	05:22		371	05:05		307	5:37		401	5:43		411
vr	23-9	11:56	LK		11:22	50		11:30	30		11:37	20		11:51	50		11:43	50		11:57	-10		12:03	0
vr	23-9			17:37		361	17:29		356	17:42		346	17:53		376	17:35		311	18:08		406	18:14		416
vr	23-9				23:47	74		23:55	64		0:02	54												
za	24-9			06:04		346	05:52		333	6:05		323		00:16	80		00:10	70		0:22	20		0:28	30
za	24-9				12:17	70		12:21	60		12:28	50	06:16		353	05:58		294	6:31		383	6:37		393
za	24-9			18:41		339	18:33		329	18:46		319		12:42	85		12:41	70		12:48	25		12:54	35
za	24-9												18:57		349	18:37		290	19:12		379	19:18		389
zo	25-9				00:58	90		00:50	90		0:57	80		01:11	110		01:15	90		1:17	50		1:23	60
zo	25-9			07:10		335	07:01		318	7:14		308	07:25		338	07:04		284	7:40		368	7:46		378
zo	25-9				13:52	85		13:27	90		13:34	80		13:48	110		14:02	83		13:54	50		14:00	60
zo	25-9			19:56		329	19:48		315	20:01		305	20:12		335	19:54		278	20:27		365	20:33		375
ma	26-9				02:30	90		02:09	100		2:16	90		02:30	120		02:40	100		2:36	60		2:42	70
ma	26-9			08:27		337	08:20		320	8:33		310	08:44		340	08:25		284	8:59		370	9:05		380
ma	26-9				15:08	82		14:55	95		15:02	85		15:16	115		15:25	83		15:22	55		15:28	65
ma	26-9			21:16		336	21:05		323	21:18		313	21:29		343	21:17		283	21:44		373	21:50		383
di	27-9				03:40	90		03:36	90		3:43	80		03:57	110		03:59	90		4:03	50		4:09	60
di	27-9			09:44		355	09:36		341	9:49		331	10:00		361	09:48		299	10:15		391	10:21		401
di	27-9				16:22	70		16:18	76		16:25	66		16:39	96		16:44	72		16:45	36		16:51	46
di	27-9			22:28		356	22:20		345	22:33		335	22:44		365	22:31		300	22:59		395	23:05		405

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
wo	28-9				04:54	70		04:51	70		4:58	60		05:12	90		05:11	70		5:18	30		5:24	40
wo	28-9			10:48		379	10:46		370	10:59		360	11:10		390	10:57		321	11:25		420	11:31		430
wo	28-9				17:34	55		17:29	50		17:36	40		17:50	70		17:50	58		17:56	10		18:02	20
wo	28-9			23:27		376	23:26		369	23:39		359	23:50		389	23:30		319			-60			
do	29-9				05:57	60		05:56	50		6:03	40		06:17	70		06:10	60	0:05		419	0:11		429
do	29-9			11:43		395	11:46		391	11:59		381	12:10		411	11:53		338		6:23	10		6:29	20
do	29-9				18:27	46		18:28	35		18:35	25		18:49	55		18:42	52	12:25		441	12:31		451
do	29-9																			18:55	-5		19:01	5
vr	30-9			00:17		385	00:21		380	0:34		370	00:45		400	00:20		329	1:00		430	1:06		440
vr	30-9				06:47	50		06:50	40		6:57	30		07:11	60		06:58	60		7:17	0		7:23	10
vr	30-9			12:30		399	12:35		394	12:48		384	12:59		414	12:39		342	13:14		444	13:20		454
vr	30-9				19:11	49		19:15	36		19:22	26		19:36	56		19:24	57		19:42	-4		19:48	6

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	1-10	2:11	NM	01:00		383	01:04		373	1:17		363	01:28		393	01:01		329	1:43		423	1:49		433
za	1-10				07:29	50		07:33	40		7:40	30		07:54	60		07:39	60		8:00	0		8:06	10
za	1-10			13:10		391	13:14		382	13:27		372	13:38		402	13:15		335	13:53		432	13:59		442
za	1-10				19:49	59		19:54	49		20:01	39		20:15	69		20:00	67		20:21	9		20:27	19
zo	2-10			01:34		376	01:35		361	1:48		351	01:59		381	01:32		325	2:14		411	2:20		421
zo	2-10				08:03	60		08:07	60		8:14	50		08:28	80		08:12	70		8:34	20		8:40	30
zo	2-10			13:42		383	13:42		370	13:55		360	14:06		390	13:42		328	14:21		420	14:27		430
zo	2-10				20:19	67		20:24	59		20:31	49		20:45	79		20:28	74		20:51	19		20:57	29
ma	3-10			02:00		374	01:57		359	2:10		349	02:21		379	01:58		323	2:36		409	2:42		419
ma	3-10				08:31	70		08:35	60		8:42	50		08:56	80		08:39	70		9:02	20		9:08	30
ma	3-10			14:09		381	14:05		369	14:18		359	14:29		389	14:06		327	14:44		419	14:50		429
ma	3-10				20:44	68		20:50	57		20:57	47		21:11	77		20:53	73		21:17	17		21:23	27
di	4-10			02:28		380	02:21		368	2:34		358	02:45		388	02:24		328	3:00		418	3:06		428
di	4-10				08:55	70		09:02	50		9:09	40		09:23	70		09:06	70		9:29	10		9:35	20
di	4-10			14:40		384	14:33		377	14:46		367	14:57		397	14:35		331	15:12		427	15:18		437
di	4-10				21:11	66		21:17	50		21:24	40		21:38	70		21:21	71		21:44	10		21:50	20
wo	5-10			03:01		388	02:54		379	3:07		369	03:18		399	02:56		334	3:33		429	3:39		439
wo	5-10				09:23	70		09:32	50		9:39	40		09:53	70		09:37	70		9:59	10		10:05	20
wo	5-10			15:15		386	15:07		380	15:20		370	15:31		400	15:10		333	15:46		430	15:52		440
wo	5-10				21:41	72		21:47	52		21:54	42		22:08	72		21:51	76		22:14	12		22:20	22
do	6-10			03:38		390	03:29		381	3:42		371	03:53		401	03:31		335	4:08		431	4:14		441
do	6-10				09:56	70		10:04	50		10:11	40		10:25	70		10:09	80		10:31	10		10:37	20
do	6-10			15:51		380	15:43		372	15:56		362	16:07		392	15:46		327	16:22		422	16:28		432
do	6-10				22:11	89		22:17	69		22:24	59		22:38	89		22:23	91		22:44	29		22:50	39
vr	7-10			04:14		384	04:04		372	4:17		362	04:28		392	04:06		330	4:43		422	4:49		432
vr	7-10				10:30	90		10:35	70		10:42	60		10:56	90		10:43	90		11:02	30		11:08	40
vr	7-10			16:26		369	16:17		357	16:30		347	16:41		377	16:20		317	16:56		407	17:02		417
vr	7-10				22:38	111		22:46	93		22:53	83		23:07	113		22:53	111		23:13	53		23:19	63
za	8-10			04:47		377	04:36		359	4:49		349	05:00		379	04:37		323	5:15		409	5:21		419
za	8-10				11:03	110		11:06	100		11:13	90		11:27	120		11:17	110		11:33	60		11:39	70
za	8-10			17:03		359	16:51		340	17:04		330	17:15		360	16:53		306	17:30		390	17:36		400
za	8-10				23:01	129		23:17	114		23:24	104		23:38	134		23:25	129		23:44	74		23:50	84
zo	9-10	6:33	EK	05:23		372	05:11		351	5:24		341	05:35		371	05:11		319	5:50		401	5:56		411
zo	9-10				11:43	130		11:43	110		11:50	100		12:04	130		11:59	130		12:10	70		12:16	80
zo	9-10			17:48		352	17:33		329	17:46		319	17:57		349	17:37		299	18:12		379	18:18		389
zo	9-10				23:46	139		23:58	127		0:05	117												

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maand				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	10-10			06:11		373	05:59		348	6:12		338		00:19	140		00:11	140		0:25	80		0:31	90
ma	10-10				12:40	130		12:33	120		12:40	110	06:23		368	06:06		319	6:38		398	6:44		408
ma	10-10			18:43		351	18:32		323	18:45		313		12:54	147		12:56	137		13:00	87		13:06	97
ma	10-10												18:56		343	18:43		296	19:11		373	19:17		383
di	11-10				00:59	130		00:57	130		1:04	120		01:18	150		01:17	140		1:24	90		1:30	100
di	11-10			07:09		377	07:04		349	7:17		339	07:28		369	07:18		322	7:43		399	7:49		409
di	11-10				13:47	127		13:42	130		13:49	120		14:03	150		14:08	130		14:09	90		14:15	100
di	11-10			19:47		355	19:46		325	19:59		315	20:10		345	20:01		299	20:25		375	20:31		385
wo	12-10				02:09	120		02:15	130		2:22	120		02:36	150		02:33	130		2:42	90		2:48	100
wo	12-10			08:17		384	08:23		358	8:36		348	08:47		378	08:37		330	9:02		408	9:08		418
wo	12-10				14:59	109		15:12	114		15:19	104		15:33	134		15:29	111		15:39	74		15:45	84
wo	12-10			21:04		363	21:08		339	21:21		329	21:32		359	21:24		309	21:47		389	21:53		399
do	13-10				03:22	100		03:45	110		3:52	100		04:06	130		03:55	110		4:12	70		4:18	80
do	13-10			09:43		393	09:43		376	9:56		366	10:07		396	09:55		340	10:22		426	10:28		436
do	13-10				16:21	85		16:34	80		16:41	70		16:55	100		16:46	85		17:01	40		17:07	50
do	13-10			22:30		374	22:25		357	22:38		347	22:49		377	22:36		320	23:04		407	23:10		417
vr	14-10				04:45	80		04:59	80		5:06	70		05:20	100		05:09	80		5:26	40		5:32	50
vr	14-10			10:57		402	10:50		391	11:03		381	11:14		411	10:59		348	11:29		441	11:35		451
vr	14-10				17:32	62		17:37	51		17:44	41		17:58	71		17:49	64		18:04	11		18:10	21
vr	14-10			23:34		381	23:26		367	23:39		357	23:50		387	23:33		324			-60			
za	15-10				05:54	70		05:58	50		6:05	40		06:19	70		06:09	70	0:05		417	0:11		427
za	15-10			11:53		405	11:45		397	11:58		387	12:09		417	11:51		349		6:25	10		6:31	20
za	15-10				18:29	48		18:31	35		18:38	25		18:52	55		18:43	53	12:24		447	12:30		457
za	15-10																			18:58	-5		19:04	5
zo	16-10	6:23	VM	00:26		382	00:16		367	0:29		357	00:40		387	00:19		323	0:55		417	1:01		427
zo	16-10				06:48	50		06:49	40		6:56	30		07:10	60		07:00	60		7:16	0		7:22	10
zo	16-10			12:41		404	12:32		397	12:45		387	12:56		417	12:34		347	13:11		447	13:17		457
zo	16-10				19:18	40		19:18	27		19:25	17		19:39	47		19:30	48		19:45	-13		19:51	-3
ma	17-10			01:11		380	01:00		364	1:13		354	01:24		384	00:57		321	1:39		414	1:45		424
ma	17-10				07:35	40		07:35	30		7:42	20		07:56	50		07:46	50		8:02	-10		8:08	0
ma	17-10			13:26		403	13:15		398	13:28		388	13:39		418	13:13		347	13:54		448	14:00		458
ma	17-10				20:03	37		20:02	21		20:09	11		20:23	41		20:14	45		20:29	-19		20:35	-9
di	18-10			01:53		380	01:41		366	1:54		356	02:05		386	01:36		324	2:20		416	2:26		426
di	18-10				08:19	30		08:18	20		8:25	10		08:39	40		08:31	40		8:45	-20		8:51	-10
di	18-10			14:09		404	14:00		400	14:13		390	14:24		420	13:57		349	14:39		450	14:45		460
di	18-10				20:45	34		20:44	14		20:51	4		21:05	34		20:57	42		21:11	-26		21:17	-16

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
wo	19-10			02:35		384	02:23		372	2:36		362	02:47		392	02:20		328	3:02		422	3:08		432
wo	19-10				09:02	20		09:02	10		9:09	0		09:23	30		09:14	30		9:29	-30		9:35	-20
wo	19-10			14:55		402	14:46		399	14:59		389	15:10		419	14:46		348	15:25		449	15:31		459
wo	19-10				21:26	36		21:26	13		21:33	3		21:47	33		21:38	42		21:53	-27		21:59	-17
do	20-10			03:18		385	03:06		376	3:19		366	03:30		396	03:09		331	3:45		426	3:51		436
do	20-10				09:43	20		09:46	0		9:53	-10		10:07	20		09:59	30		10:13	-40		10:19	-30
do	20-10			15:41		393	15:34		389	15:47		379	15:58		409	15:37		339	16:13		439	16:19		449
do	20-10				22:05	45		22:08	23		22:15	13		22:29	43		22:21	49		22:35	-17		22:41	-7
vr	21-10			04:03		381	03:52		372	4:05		362	04:16		392	03:58		326	4:31		422	4:37		432
vr	21-10				10:25	30		10:29	10		10:36	0		10:50	30		10:44	40		10:56	-30		11:02	-20
vr	21-10			16:31		375	16:23		368	16:36		358	16:47		388	16:29		322	17:02		418	17:08		428
vr	21-10				22:44	62		22:50	45		22:57	35		23:11	65		23:03	64		23:17	5		23:23	15
za	22-10			04:51		369	04:38		359	4:51		349	05:02		379	04:47		316	5:17		409	5:23		419
za	22-10				11:10	50		11:14	40		11:21	30		11:35	60		11:32	50		11:41	0		11:47	10
za	22-10			17:24		352	17:15		342	17:28		332	17:39		362	17:21		302	17:54		392	18:00		402
za	22-10	21:14	LK		23:25	84		23:33	75		23:40	65		23:54	95		23:50	84			-60			
zo	23-10			05:42		355	05:30		342	5:43		332	05:54		362	05:38		303		0:00	30		0:06	40
zo	23-10				12:12	70		12:03	70		12:10	60		12:24	90		12:30	70	6:09		392	6:15		402
zo	23-10			18:24		335	18:14		319	18:27		309	18:38		339	18:21		284		12:30	30		12:36	40
zo	23-10																		18:53		369	18:59		379
ma	24-10				00:38	100		00:24	100		0:31	90		00:45	120		00:51	100		0:51	60		0:57	70
ma	24-10			06:44		346	06:33		329	6:46		319	06:57		349	06:39		295	7:12		379	7:18		389
ma	24-10				13:32	88		13:05	94		13:12	84		13:26	114		13:43	88		13:32	54		13:38	64
ma	24-10			19:32		330	19:23		310	19:36		300	19:47		330	19:32		277	20:02		360	20:08		370
di	25-10				02:01	100		01:37	120		1:44	110		01:58	140		02:10	110		2:04	80		2:10	90
di	25-10			07:56		349	07:48		329	8:01		319	08:12		349	07:55		296	8:27		379	8:33		389
di	25-10				14:39	86		14:25	101		14:32	91		14:46	121		14:58	89		14:52	61		14:58	71
di	25-10			20:45		339	20:37		319	20:50		309	21:01		339	20:50		284	21:16		369	21:22		379
wo	26-10				03:08	100		03:03	110		3:10	100		03:24	130		03:27	100		3:30	70		3:36	80
wo	26-10			09:10		364	09:05		346	9:18		336	09:29		366	09:17		308	9:44		396	9:50		406
wo	26-10				15:46	78		15:45	86		15:52	76		16:06	106		16:12	80		16:12	46		16:18	56
wo	26-10			21:58		357	21:52		341	22:05		331	22:16		361	22:04		301	22:31		391	22:37		401
do	27-10				04:18	80		04:19	90		4:26	80		04:40	110		04:39	90		4:46	50		4:52	60
do	27-10			10:18		382	10:16		369	10:29		359	10:40		389	10:29		325	10:55		419	11:01		429
do	27-10				17:00	66		16:56	63		17:03	53		17:17	83		17:19	67		17:23	23		17:29	33
do	27-10			23:00		375	22:59		364	23:12		354	23:23		384	23:06		319			-60			



				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	28-10				05:27	70		05:25	60		5:32	50		05:46	80		05:42	70	23:38		414	23:44		424
vr	28-10			11:16		392	11:18		384	11:31		374	11:42		404	11:27		335		5:52	20		5:58	30
vr	28-10				17:57	57		17:55	48		18:02	38		18:16	68		18:13	60	11:57		434	12:03		444
vr	28-10			23:51		383	23:53		373	0:06		363				23:56		327		18:22	8		18:28	18
za	29-10				06:20	60		06:19	50		6:26	40	00:17		393		06:33	60	0:32		423	0:38		433
za	29-10			12:04		390	12:08		381	12:21		371		06:40	70	12:13		333		6:46	10		6:52	20
za	29-10				18:42	57		18:43	47		18:50	37	12:32		401		18:56	63	12:47		431	12:53		441
za	29-10													19:04	67					19:10	7		19:16	17
zo	30-10			00:33		380	00:34		367	0:47		357	00:58		387	00:35		326	1:13		417	1:19		427
zo	30-10				06:02	65		06:03	58		6:10	48		06:24	78		06:13	71		6:30	18		6:36	28
zo	30-10	18:38	NM	11:44		380	11:45		366	11:58		356	12:09		386	11:48		324	12:24		416	12:30		426
zo	30-10				18:18	64		18:21	56		18:28	46		18:42	76		18:29	71		18:48	16		18:54	26
ma	31-10			00:04		374	00:01		360	0:14		350	00:25		380	00:04		322	0:40		410	0:46		420
ma	31-10				06:36	70		06:37	63		6:44	53		06:58	83		06:45	76		7:04	23		7:10	33
ma	31-10			12:14		371	12:10		358	12:23		348	12:34		378	12:13		318	12:49		408	12:55		418
ma	31-10				18:47	68		18:51	61		18:58	51		19:12	81		18:56	75		19:18	21		19:24	31



				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
di	1-11			00:29		376	00:23		364	0:36		354	00:47		384	00:27		325	1:02		414	1:08		424
di	1-11				07:03	71		07:06	59		7:13	49		07:27	79		07:12	75		7:33	19		7:39	29
di	1-11			12:42		373	12:35		363	12:48		353	12:59		383	12:38		321	13:14		413	13:20		423
di	1-11				19:13	67		19:18	55		19:25	45		19:39	75		19:22	73		19:45	15		19:51	25
wo	2-11			00:59		387	00:51		380	1:04		370	01:15		400	00:56		334	1:30		430	1:36		440
wo	2-11				07:30	68		07:35	50		7:42	40		07:56	70		07:41	72		8:02	10		8:08	20
wo	2-11			13:15		379	13:07		374	13:20		364	13:31		394	13:10		327	13:46		424	13:52		434
wo	2-11				19:43	68		19:48	49		19:55	39		20:09	69		19:52	72		20:15	9		20:21	19
do	3-11			01:35		396	01:27		392	1:40		382	01:51		412	01:31		343	2:06		442	2:12		452
do	3-11				08:02	70		08:08	47		8:15	37		08:29	67		08:14	73		8:35	7		8:41	17
do	3-11			13:53		382	13:45		378	13:58		368	14:09		398	13:49		329	14:24		428	14:30		438
do	3-11				20:16	77		20:21	55		20:28	45		20:42	75		20:26	80		20:48	15		20:54	25
vr	4-11			02:13		398	02:05		392	2:18		382	02:29		412	02:09		343	2:44		442	2:50		452
vr	4-11				08:36	81		08:43	60		8:50	50		09:04	80		08:50	84		9:10	20		9:16	30
vr	4-11			14:30		377	14:22		368	14:35		358	14:46		388	14:28		323	15:01		418	15:07		428
vr	4-11				20:47	96		20:53	76		21:00	66		21:14	96		20:58	98		21:20	36		21:26	46
za	5-11			02:48		392	02:39		381	2:52		371	03:03		401	02:44		337	3:18		431	3:24		441
za	5-11				09:10	99		09:15	81		9:22	71		09:36	101		09:24	101		9:42	41		9:48	51
za	5-11			15:05		366	14:56		350	15:09		340	15:20		370	15:02		311	15:35		400	15:41		410
za	5-11				21:14	116		21:22	99		21:29	89		21:43	119		21:28	117		21:49	59		21:55	69
zo	6-11			03:18		385	03:10		368	3:23		358	03:34		388	03:11		330	3:49		418	3:55		428
zo	6-11				09:44	114		09:46	100		9:53	90		10:07	120		09:57	116		10:13	60		10:19	70
zo	6-11			15:41		355	15:29		335	15:42		325	15:53		355	15:31		301	16:08		385	16:14		395
zo	6-11				21:38	128		21:53	114		22:00	104		22:14	134		22:00	129		22:20	74		22:26	84
ma	7-11			03:53		382	03:44		362	3:57		352	04:08		382	03:40		327	4:23		412	4:29		422
ma	7-11				10:22	120		10:21	106		10:28	96		10:42	126		10:37	122		10:48	66		10:54	76
ma	7-11			16:24		351	16:09		326	16:22		316	16:33		346	16:11		296	16:48		376	16:54		386
ma	7-11	20:51 EK			22:23	130		22:32	118		22:39	108		22:53	138		22:45	133		22:59	78		23:05	88
di	8-11			04:40		383	04:29		361	4:42		351	04:53		381	04:29		327	5:08		411	5:14		421
di	8-11				11:15	117		11:09	105		11:16	95		11:30	125		11:30	119		11:36	65		11:42	75
di	8-11			17:17		351	17:03		323	17:16		313	17:27		343	17:12		295	17:42		373	17:48		383
di	8-11				23:31	126		23:27	119		23:34	109		23:48	139		23:48	130			-60			
wo	9-11			05:37		385	05:30		360	5:43		350	05:54		380	05:38		328		23:54	79		0:00	89
wo	9-11				12:17	106		12:12	102		12:19	92		12:33	122		12:36	110	6:09		410	6:15		420
wo	9-11			18:18		355	18:13		325	18:26		315	18:37		345	18:25		298		12:39	62		12:45	72
wo	9-11																		18:52		375	18:58		385

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
do	10-11				00:39	115		00:39	118		0:46	108		01:00	138		01:00	121		1:06	78		1:12	88
do	10-11			06:41		387	06:43		362	6:56		352	07:07		382	06:53		330	7:22		412	7:28		422
do	10-11				13:25	91		13:31	91		13:38	81		13:52	111		13:51	94		13:58	51		14:04	61
do	10-11			19:30		361	19:33		334	19:46		324	19:57		354	19:45		304	20:12		384	20:18		394
vr	11-11				01:48	102		02:03	104		2:10	94		02:24	124		02:18	106		2:30	64		2:36	74
vr	11-11			07:55		389	08:02		370	8:15		360	08:26		390	08:11		334	8:41		420	8:47		430
vr	11-11				14:41	75		14:52	68		14:59	58		15:13	88		15:09	76		15:19	28		15:25	38
vr	11-11			20:54		368	20:50		348	21:03		338	21:14		368	21:00		312	21:29		398	21:35		408
za	12-11				03:07	87		03:20	80		3:27	70		03:41	100		03:35	88		3:47	40		3:53	50
za	12-11			09:18		392	09:12		380	9:25		370	09:36		400	09:21		338	9:51		430	9:57		440
za	12-11				15:55	60		15:59	45		16:06	35		16:20	65		16:15	61		16:26	5		16:32	15
za	12-11			22:03		375	21:53		359	22:06		349	22:17		379	22:01		317	22:32		409	22:38		419
zo	13-11				04:21	72		04:24	59		4:31	49		04:45	79		04:39	72		4:51	19		4:57	29
zo	13-11			10:22		395	10:12		386	10:25		376	10:36		406	10:18		339	10:51		436	10:57		446
zo	13-11				16:56	50		16:56	31		17:03	21		17:17	51		17:12	53		17:23	-9		17:29	1
zo	13-11			22:58		378	22:46		364	22:59		354	23:10		384	22:50		318	23:25		414	23:31		424
ma	14-11				05:20	59		05:19	43		5:26	33		05:40	63		05:34	61		5:46	3		5:52	13
ma	14-11			11:15		394	11:04		387	11:17		377	11:28		407	11:06		339	11:43		437	11:49		447
ma	14-11	14:52 VM			17:49	44		17:47	24		17:54	14		18:08	44		18:03	49		18:14	-16		18:20	-6
ma	14-11			23:45		379	23:32		366	23:45		356	23:56		386	23:32		321			-60			
di	15-11				06:12	47		06:09	29		6:16	19		06:30	49		06:25	51	0:11		416	0:17		426
di	15-11			12:04		394	11:53		388	12:06		378	12:17		408	11:52		339		6:36	-11		6:42	-1
di	15-11				18:38	39		18:36	18		18:43	8		18:57	38		18:50	45	12:32		438	12:38		448
di	15-11																			19:03	-22		19:09	-12
wo	16-11			00:30		382	00:17		371	0:30		361	00:41		391	00:15		326	0:56		421	1:02		431
wo	16-11				07:00	34		06:57	14		7:04	4		07:18	34		07:13	40		7:24	-26		7:30	-16
wo	16-11			12:52		393	12:42		388	12:55		378	13:06		408	12:40		340	13:21		438	13:27		448
wo	16-11				19:24	36		19:22	14		19:29	4		19:43	34		19:36	41		19:49	-26		19:55	-16
do	17-11			01:14		386	01:03		377	1:16		367	01:27		397	01:02		332	1:42		427	1:48		437
do	17-11				07:47	25		07:44	4		7:51	-6		08:05	24		08:00	31		8:11	-36		8:17	-26
do	17-11			13:40		389	13:33		383	13:46		373	13:57		403	13:32		336	14:12		433	14:18		443
do	17-11				20:08	38		20:07	16		20:14	6		20:28	36		20:21	42		20:34	-24		20:40	-14
vr	18-11			01:59		387	01:50		379	2:03		369	02:14		399	01:52		333	2:29		429	2:35		439
vr	18-11				08:33	25		08:31	4		8:38	-6		08:52	24		08:48	29		8:58	-36		9:04	-26
vr	18-11			14:28		379	14:24		371	14:37		361	14:48		391	14:25		327	15:03		421	15:09		431
vr	18-11				20:51	48		20:51	29		20:58	19		21:12	49		21:06	50		21:18	-11		21:24	-1

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"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	19-11			02:45		383	02:37		372	2:50		362	03:01		392	02:43		329	3:16		422	3:22		432
za	19-11				09:19	36		09:16	18		9:23	8		09:37	38		09:36	38		9:43	-22		9:49	-12
za	19-11			15:18		364	15:14		352	15:27		342	15:38		372	15:17		312	15:53		402	15:59		412
za	19-11				21:33	66		21:34	52		21:41	42		21:55	72		21:50	66		22:01	12		22:07	22
zo	20-11			03:32		373	03:23		360	3:36		350	03:47		380	03:30		319	4:02		410	4:08		420
zo	20-11				10:07	55		10:00	42		10:07	32		10:21	62		10:24	56		10:27	2		10:33	12
zo	20-11			16:08		347	16:01		331	16:14		321	16:25		351	16:07		295	16:40		381	16:46		391
zo	20-11				22:15	86		22:16	78		22:23	68		22:37	98		22:35	86		22:43	38		22:49	48
ma	21-11			04:20		362	04:10		347	4:23		337	04:34		367	04:17		310	4:49		397	4:55		407
ma	21-11				11:01	74		10:46	67		10:53	57		11:07	87		11:15	74		11:13	27		11:19	37
ma	21-11	9:33	LK	17:02		335	16:52		315	17:05		305	17:16		335	16:59		283	17:31		365	17:37		375
ma	21-11				23:12	103		23:03	101		23:10	91		23:24	121		23:26	102		23:30	61		23:36	71
di	22-11			05:15		356	05:04		338	5:17		328	05:28		358	05:09		304	5:43		388	5:49		398
di	22-11				12:01	86		11:40	86		11:47	76		12:01	106		12:13	87		12:07	46		12:13	56
di	22-11			17:59		333	17:50		309	18:03		299	18:14		329	17:59		279	18:29		359	18:35		369
di	22-11																							
wo	23-11				00:23	110		00:02	115		0:09	105		00:23	135		00:31	110		0:29	75		0:35	85
wo	23-11			06:18		357	06:09		335	6:22		325	06:33		355	06:15		303	6:48		385	6:54		395
wo	23-11				13:01	87		12:46	94		12:53	84		13:07	114		13:17	89		13:13	54		13:19	64
wo	23-11			19:01		339	18:56		314	19:09		304	19:20		334	19:08		285	19:35		364	19:41		374
do	24-11				01:27	105		01:16	117		1:23	107		01:37	137		01:42	107		1:43	77		1:49	87
do	24-11			07:25		363	07:20		341	7:33		331	07:44		361	07:31		308	7:59		391	8:05		401
do	24-11				14:00	80		13:59	87		14:06	77		14:20	107		14:24	84		14:26	47		14:32	57
do	24-11			20:10		350	20:07		328	20:20		318	20:31		348	20:20		296	20:46		378	20:52		388
vr	25-11				02:31	94		02:32	103		2:39	93		02:53	123		02:54	96		2:59	63		3:05	73
vr	25-11			08:34		370	08:32		350	8:45		340	08:56		370	08:45		314	9:11		400	9:17		410
vr	25-11				15:04	72		15:09	72		15:16	62		15:30	92		15:32	74		15:36	32		15:42	42
vr	25-11			21:19		362	21:15		343	21:28		333	21:39		363	21:27		308	21:54		393	22:00		403
za	26-11				03:42	82		03:41	84		3:48	74		04:02	104		04:03	83		4:08	44		4:14	54
za	26-11			09:38		373	09:38		354	9:51		344	10:02		374	09:48		317	10:17		404	10:23		414
za	26-11				16:12	66		16:11	60		16:18	50		16:32	80		16:33	68		16:38	20		16:44	30
za	26-11			22:15		368	22:12		352	22:25		342	22:36		372	22:21		315	22:51		402	22:57		412
zo	27-11				04:45	72		04:40	69		4:47	59		05:01	89		04:59	74		5:07	29		5:13	39
zo	27-11			10:32		368	10:32		350	10:45		340	10:56		370	10:39		313	11:11		400	11:17		410
zo	27-11				17:04	64		17:02	57		17:09	47		17:23	77		17:20	68		17:29	17		17:35	27
zo	27-11			22:58		368	22:55		352	23:08		342	23:19		372	23:02		315			-60			

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
ma	28-11				05:30	69		05:27	63		5:34	53		05:48	83		05:43	73	23:34		402	23:40		412
ma	28-11			11:14		360	11:11		342	11:24		332	11:35		362	11:16		306		5:54	23		6:00	33
ma	28-11				17:42	67		17:43	60		17:50	50		18:04	80		17:56	73	11:50		392	11:56		402
ma	28-11			23:30		368	23:25		354	23:38		344	23:49		374	23:32		316		18:10	20		18:16	30
di	29-11				06:06	70		06:05	60		6:12	50		06:26	80		06:17	74	0:04		404	0:10		414
di	29-11	13:18	NM	11:47		357	11:40		341	11:53		331	12:04		361	11:45		305		6:32	20		6:38	30
di	29-11				18:15	69		18:18	60		18:25	50		18:39	80		18:25	75	12:19		391	12:25		401
						375	23:53		365	0:06		355				23:59		323		18:45	20		18:51	30
wo	30-11			00:00		375		06:38	54		6:45	44	00:17		385		06:46	73	0:32		415	0:38		425
wo	30-11				06:37	68	12:09		351	12:22		341		06:59	74	12:14		311		7:05	14		7:11	24
wo	30-11			12:19		363		18:50	54		18:57	44	12:33		371		18:54	73	12:48		401	12:54		411
wo	30-11													19:11	74					19:17	14		19:23	24

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	1-12			00:34		388	00:26		381	0:39		371	00:50		401	00:31		335	1:05		431	1:11		441
do	1-12				07:08	65		07:12	47		7:19	37		07:33	67		07:19	69		7:39	7		7:45	17
do	1-12			12:55		371	12:45		364	12:58		354	13:09		384	12:50		320	13:24		414	13:30		424
do	1-12				19:20	68		19:25	49		19:32	39		19:46	69		19:28	72		19:52	9		19:58	19
vr	2-12			01:13		398	01:04		393	1:17		383	01:28		413	01:09		345	1:43		443	1:49		453
vr	2-12				07:44	67		07:49	45		7:56	35		08:10	65		07:56	70		8:16	5		8:22	15
vr	2-12			13:35		375	13:25		367	13:38		357	13:49		387	13:31		323	14:04		417	14:10		427
vr	2-12				19:55	75		20:00	56		20:07	46		20:21	76		20:04	79		20:27	16		20:33	26
za	3-12			01:51		399	01:42		391	1:55		381	02:06		411	01:50		345	2:21		441	2:27		451
za	3-12				08:20	75		08:25	55		8:32	45		08:46	75		08:33	78		8:52	15		8:58	25
za	3-12			14:14		370	14:03		357	14:16		347	14:27		377	14:13		316	14:42		407	14:48		417
za	3-12				20:29	89		20:34	72		20:41	62		20:55	92		20:39	92		21:01	32		21:07	42
zo	4-12			02:26		393	02:16		381	2:29		371	02:40		401	02:26		338	2:55		431	3:01		441
zo	4-12				08:56	86		08:59	70		9:06	60		09:20	90		09:09	89		9:26	30		9:32	40
zo	4-12			14:48		359	14:37		341	14:50		331	15:01		361	14:49		304	15:16		391	15:22		401
zo	4-12				20:59	101		21:05	89		21:12	79		21:26	109		21:12	105		21:32	49		21:38	59
ma	5-12			02:56		386	02:48		371	3:01		361	03:12		391	02:55		330	3:27		421	3:33		431
ma	5-12				09:30	93		09:31	81		9:38	71		09:52	101		09:43	97		9:58	41		10:04	51
ma	5-12			15:23		350	15:10		328	15:23		318	15:34		348	15:20		295	15:49		378	15:55		388
ma	5-12				21:31	106		21:37	96		21:44	86		21:58	116		21:46	110		22:04	56		22:10	66
di	6-12			03:32		384	03:23		367	3:36		357	03:47		387	03:24		327	4:02		417	4:08		427
di	6-12				10:08	93		10:06	80		10:13	70		10:27	100		10:20	96		10:33	40		10:39	50
di	6-12			16:05		347	15:48		323	16:01		313	16:12		343	15:57		291	16:27		373	16:33		383
di	6-12				22:13	104		22:15	93		22:22	83		22:36	113		22:28	107		22:42	53		22:48	63
wo	7-12			04:17		384	04:06		366	4:19		356	04:30		386	04:08		327	4:45		416	4:51		426
wo	7-12	10:03 EK			10:54	86		10:50	73		10:57	63		11:11	93		11:08	90		11:17	33		11:23	43
wo	7-12			16:54		348	16:37		321	16:50		311	17:01		341	16:49		292	17:16		371	17:22		381
wo	7-12				23:09	98		23:05	90		23:12	80		23:26	110		23:24	102		23:32	50		23:38	60
do	8-12			05:10		385	05:00		363	5:13		353	05:24		383	05:07		327	5:39		413	5:45		423
do	8-12				11:49	79		11:46	69		11:53	59		12:07	89		12:07	82		12:13	29		12:19	39
do	8-12			17:51		349	17:39		320	17:52		310	18:03		340	17:51		292	18:18		370	18:24		380
do	8-12																							
vr	9-12				00:09	93		00:07	90		0:14	80		00:28	110		00:29	97		0:34	50		0:40	60
vr	9-12			06:09		382	06:06		358	6:19		348	06:30		378	06:14		324	6:45		408	6:51		418
vr	9-12				12:51	73		12:54	68		13:01	58		13:15	88		13:15	76		13:21	28		13:27	38
vr	9-12			18:56		350	18:53		321	19:06		311	19:17		341	19:01		293	19:32		371	19:38		381

				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"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	10-12				01:14	89		01:22	89		1:29	79		01:43	109		01:41	92		1:49	49		1:55	59
za	10-12			07:15		377	07:21		355	7:34		345	07:45		375	07:26		321	8:00		405	8:06		415
za	10-12				14:03	69		14:12	60		14:19	50		14:33	80		14:30	70		14:39	20		14:45	30
za	10-12			20:15		352	20:11		327	20:24		317	20:35		347	20:16		295	20:50		377	20:56		387
zo	11-12				02:31	84		02:41	78		2:48	68		03:02	98		03:00	83		3:08	38		3:14	48
zo	11-12			08:37		373	08:35		356	8:48		346	08:59		376	08:40		320	9:14		406	9:20		416
zo	11-12				15:20	62		15:22	47		15:29	37		15:43	67		15:42	63		15:49	7		15:55	17
zo	11-12			21:31		356	21:19		336	21:32		326	21:43		356	21:23		299	21:58		386	22:04		396
ma	12-12				03:49	72		03:50	61		3:57	51		04:11	81		04:10	72		4:17	21		4:23	31
ma	12-12			09:53		373	09:41		359	9:54		349	10:05		379	09:45		320	10:20		409	10:26		419
ma	12-12				16:25	54		16:24	35		16:31	25		16:45	55		16:43	56		16:51	-5		16:57	5
ma	12-12			22:31		362	22:17		344	22:30		334	22:41		364	22:19		304	22:56		394	23:02		404
di	13-12				04:54	57		04:52	42		4:59	32		05:13	62		05:10	59		5:19	2		5:25	12
di	13-12			10:54		374	10:40		362	10:53		352	11:04		382	10:42		321	11:19		412	11:25		422
di	13-12				17:24	47		17:21	27		17:28	17		17:42	47		17:39	51		17:48	-13		17:54	-3
di	13-12			23:23		367	23:09		353	23:22		343	23:33		373	23:09		311			-60			
wo	14-12	1:06 VM			05:53	42		05:49	24		5:56	14		06:10	44		06:06	45	23:48		403	23:54		413
wo	14-12			11:48		376	11:37		365	11:50		355	12:01		385	11:36		322		6:16	-16		6:22	-6
wo	14-12				18:19	40		18:15	20		18:22	10		18:36	40		18:31	44	12:16		415	12:22		425
wo	14-12															23:58		318		18:42	-20		18:48	-10
do	15-12			00:10		374	00:00		362	0:13		352	00:24		382		06:59	32	0:39		412	0:45		422
do	15-12				06:47	28		06:43	10		6:50	0		07:04	30	12:30		323		7:10	-30		7:16	-20
do	15-12			12:39		376	12:33		366	12:46		356	12:57		386		19:20	39	13:12		416	13:18		426
do	15-12				19:09	35		19:08	17		19:15	7		19:29	37					19:35	-23		19:41	-13
vr	16-12			00:57		379	00:51		368	1:04		358	01:15		388	00:49		324	1:30		418	1:36		428
vr	16-12				07:38	20		07:35	3		7:42	-7		07:56	23		07:50	24		8:02	-37		8:08	-27
vr	16-12			13:28		374	13:27		363	13:40		353	13:51		383	13:23		320	14:06		413	14:12		423
vr	16-12				19:57	37		19:57	21		20:04	11		20:18	41		20:08	40		20:24	-19		20:30	-9
za	17-12			01:44		381	01:41		368	1:54		358	02:05		388	01:41		326	2:20		418	2:26		428
za	17-12				08:26	22		08:23	7		8:30	-3		08:44	27		08:39	25		8:50	-33		8:56	-23
za	17-12			14:16		367	14:18		353	14:31		343	14:42		373	14:15		313	14:57		403	15:03		413
za	17-12				20:42	47		20:42	34		20:49	24		21:03	54		20:55	48		21:09	-6		21:15	4
zo	18-12			02:29		378	02:27		362	2:40		352	02:51		382	02:30		322	3:06		412	3:12		422
zo	18-12				09:12	35		09:07	22		9:14	12		09:28	42		09:26	37		9:34	-18		9:40	-8
zo	18-12			15:03		355	15:03		338	15:16		328	15:27		358	15:03		302	15:42		388	15:48		398
zo	18-12				21:24	63		21:23	54		21:30	44		21:44	74		21:38	64		21:50	14		21:56	24

				Wangerooge, West 53°46'35"N 7°52'05"E			Wangerooge, Langes Riff 53°48'23"N 7°55'45"E			Wangerooge, Ost 53°46'02"N 7°59'06"E			Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E			Helgoland 54°10'44"N 7°53'24"E			Schillig, Germany 53°41'55"N 8°03'05"E			Hooksiel 53°38'31"N 8°04'55"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	19-12			03:14		371	03:09		353	3:22		343	03:33		373	03:14		315	3:48		403	3:54		413
ma	19-12				09:55	54		09:49	43		9:56	33		10:10	63		10:09	55		10:16	3		10:22	13
ma	19-12			15:48		344	15:45		323	15:58		313	16:09		343	15:47		291	16:24		373	16:30		383
ma	19-12				22:03	81		22:01	73		22:08	63		22:22	93		22:18	80		22:28	33		22:34	43
di	20-12			03:57		363	03:49		344	4:02		334	04:13		364	03:54		309	4:28		394	4:34		404
di	20-12				10:37	70		10:28	61		10:35	51		10:49	81		10:51	71		10:55	21		11:01	31
di	20-12			16:33		337	16:25		313	16:38		303	16:49		333	16:29		284	17:04		363	17:10		373
di	20-12				22:41	93		22:41	87		22:48	77		23:02	107		22:58	92		23:08	47		23:14	57
wo	21-12	2:56	LK	04:44		359	04:33		338	4:46		328	04:57		358	04:35		306	5:12		388	5:18		398
wo	21-12				11:22	79		11:12	72		11:19	62		11:33	92		11:34	81		11:39	32		11:45	42
wo	21-12			17:21		335	17:12		309	17:25		299	17:36		329	17:16		281	17:51		359	17:57		369
wo	21-12				23:33	98		23:28	95		23:35	85		23:49	115		23:47	98			-60			
do	22-12			05:37		356	05:26		333	5:39		323	05:50		353	05:28		302		23:55	55		0:01	65
do	22-12				12:15	81		12:04	78		12:11	68		12:25	98		12:28	84	6:05		383	6:11		393
do	22-12			18:15		337	18:08		309	18:21		299	18:32		329	18:16		282		12:31	38		12:37	48
do	22-12																		18:47		359	18:53		369
vr	23-12				00:36	98		00:28	101		0:35	91		00:49	121		00:50	99		0:55	61		1:01	71
vr	23-12			06:37		354	06:29		327	6:42		317	06:53		347	06:38		298	7:08		377	7:14		387
vr	23-12				13:13	79		13:07	82		13:14	72		13:28	102		13:30	83		13:34	42		13:40	52
vr	23-12			19:14		340	19:13		311	19:26		301	19:37		331	19:25		285	19:52		361	19:58		371
za	24-12				01:41	93		01:39	101		1:46	91		02:00	121		02:01	95		2:06	61		2:12	71
za	24-12			07:41		350	07:39		321	7:52		311	08:03		341	07:51		294	8:18		371	8:24		381
za	24-12				14:12	77		14:16	81		14:23	71		14:37	101		14:37	81		14:43	41		14:49	51
za	24-12			20:17		342	20:21		316	20:34		306	20:45		336	20:33		289	21:00		366	21:06		376
zo	25-12				02:47	87		02:52	92		2:59	82		03:13	112		03:13	88		3:19	52		3:25	62
zo	25-12			08:48		345	08:49		318	9:02		308	09:13		338	09:00		291	9:28		368	9:34		378
zo	25-12				15:15	75		15:23	76		15:30	66		15:44	96		15:44	78		15:50	36		15:56	46
zo	25-12			21:23		346	21:24		324	21:37		314	21:48		344	21:35		294	22:03		374	22:09		384
ma	26-12				03:59	81		03:58	79		4:05	69		04:19	99		04:19	81		4:25	39		4:31	49
ma	26-12			09:53		342	09:51		318	10:04		308	10:15		338	09:59		289	10:30		368	10:36		378
ma	26-12				16:18	75		16:21	71		16:28	61		16:42	91		16:41	77		16:48	31		16:54	41
ma	26-12			22:16		352	22:15		333	22:28		323	22:39		353	22:24		299	22:54		383	23:00		393
di	27-12				04:55	75		04:52	68		4:59	58		05:13	88		05:10	77		5:19	28		5:25	38
di	27-12			10:43		341	10:38		320	10:51		310	11:02		340	10:44		289	11:17		370	11:23		380
di	27-12				17:07	74		17:09	66		17:16	56		17:30	86		17:24	78		17:36	26		17:42	36
di	27-12			22:57		360	22:55		345	23:08		335	23:19		365	23:02		307			-60			



				Wangerooge, West			Wangerooge, Langes Riff			Wangerooge, Ost			Minsener Oog, Buhne C			Helgoland			Schillig, Germany			Hooksiel		
maan				53°46'35"N 7°52'05"E			53°48'23"N 7°55'45"E			53°46'02"N 7°59'06"E			53°45'0.0"N, 8°1'59.9"E			54°10'44"N 7°53'24"E			53°41'55"N 8°03'05"E			53°38'31"N 8°04'55"E		
dag	datum	tijd	fase	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm	HW	lw	cm
wo	28-12				05:36	72		05:37	59		5:44	49		05:58	79		05:49	74	23:34		395	23:40		405
wo	28-12			11:22		346	11:15		327	11:28		317	11:39		347	11:21		294		6:04	19		6:10	29
wo	28-12				17:47	71		17:51	60		17:58	50		18:12	80		17:59	76	11:54		377	12:00		387
wo	28-12			23:35		372	23:31		360	23:44		350	23:55		380	23:37		319		18:18	20		18:24	30
do	29-12	7:53	NM		06:13	67		06:16	51		6:23	41		06:37	71		06:25	70	0:10		410	0:16		420
do	29-12			11:59		354	11:51		340	12:04		330	12:15		360	11:56		303		6:43	11		6:49	21
do	29-12				18:24	67		18:29	53		18:36	43		18:50	73		18:34	72	12:30		390	12:36		400
do	29-12																			18:56	13		19:02	23
vr	30-12			00:14		384	00:08		375	0:21		365	00:32		395	00:13		331	0:47		425	0:53		435
vr	30-12				06:50	61		06:55	44		7:02	34		07:16	64		07:01	64		7:22	4		7:28	14
vr	30-12			12:39		363	12:30		351	12:43		341	12:54		371	12:35		311	13:09		401	13:15		411
vr	30-12				19:02	63		19:07	48		19:14	38		19:28	68		19:11	68		19:34	8		19:40	18
za	31-12			00:55		392	00:48		383	1:01		373	01:12		403	00:53		339	1:27		433	1:33		443
za	31-12				07:28	58		07:33	41		7:40	31		07:54	61		07:40	61		8:00	1		8:06	11
za	31-12			13:19		366	13:10		352	13:23		342	13:34		372	13:17		313	13:49		402	13:55		412
za	31-12				19:40	64		19:45	50		19:52	40		20:06	70		19:49	69		20:12	10		20:18	20