

Getijdengegevens 2017 bron: gezeiten-kalender.de

bron: getij.rws.nl

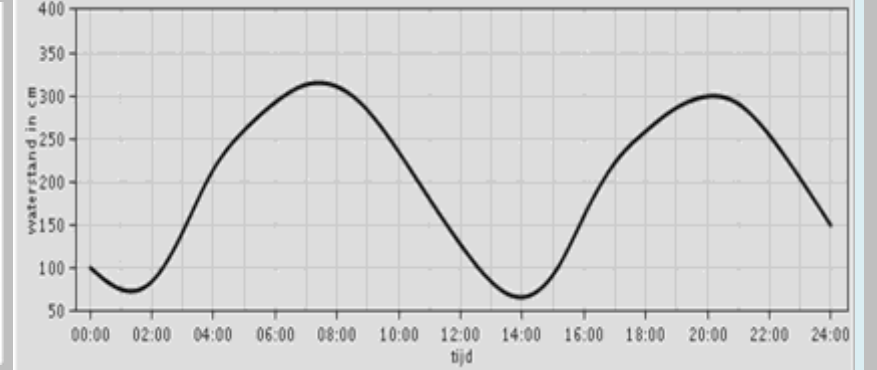
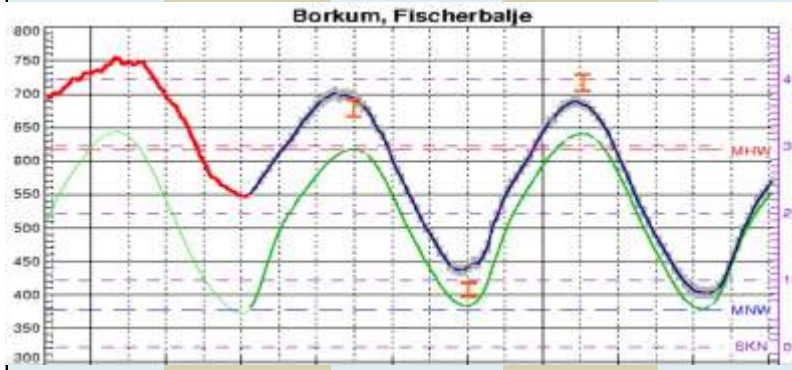
Referentievlak : LAT

Borkum Fischerbalje 53.5575° N, 6.7478° O
LAT=NAP-167

Eemshaven 53.4500° N, 6.8333° O
LAT=NAP-192

datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
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HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
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datum	dag	maan	stand	00:40	334	07:05	57	13:05	305	19:12	68		
1-1	zon			01:14	329	07:41	62	13:41	295	19:42	73		
2-1	maa			01:46	323	08:14	64	14:15	288	20:15	71		
3-1	din			02:22	322	08:50	60	14:54	285	20:56	66		
4-1	woe			03:06	322	09:32	56	15:41	284	21:45	62		
5-1	don		20:47 EK	03:56	320	10:22	55	16:33	282	22:39	64		
6-1	vry			04:50	313	11:17	59	17:34	277	23:39	70		
7-1	zat			05:52	302	12:24	65	18:48	274				
8-1	zon					00:51	74	07:11	294	13:46	65	20:10	276
9-1	maa					02:12	67	08:36	292	14:55	56	21:18	284
10-1	din					03:23	53	09:44	297	16:01	46	22:13	296
11-1	woe					04:40	36	10:42	302	17:07	36	23:02	307
12-1	don		12:34 VM			05:42	19	11:35	306	18:02	29	23:50	314
13-1	vry					06:33	12	12:25	306	18:50	30		
14-1	zat			00:36	317	07:19	17	13:11	301	19:33	40		
15-1	zon			01:19	315	08:00	32	13:53	292	20:11	55		
16-1	maa			01:58	310	08:37	49	14:30	285	20:43	67		
17-1	din			02:36	306	09:10	61	15:08	282	21:11	72		
18-1	woe			03:15	304	09:45	66	15:49	281	21:48	74		
19-1	don		23:13 LK	04:01	299	10:28	69	16:40	280	22:39	78		
20-1	vry			04:57	291	11:21	74	17:36	277	23:42	84		
21-1	zat			05:59	282	12:23	81	18:34	276				
22-1	zon					00:51	88	07:02	275	13:28	85	19:33	278
23-1	maa					02:00	86	08:04	273	14:31	83	20:32	287
24-1	din					03:06	80	09:03	278	15:28	76	21:26	301
25-1	woe					04:01	71	09:54	288	16:18	67	22:15	315
26-1	don					04:47	61	10:42	298	17:03	57	23:01	325
27-1	vry					05:31	51	11:28	303	17:45	50	23:45	328
28-1	zat		1:07 NM										

0:45	337	7:26	52	13:06	314	19:25	53		
1:25	337	7:56	52	13:46	310	20:01	54		
1:55	336	8:36	53	14:26	305	20:36	56		
2:46	333	9:16	55	15:05	299	21:15	59		
3:26	329	9:55	58	15:55	293	22:16	64		
4:10	324	10:46	63	16:45	289	23:00	69		
5:16	318	11:46	68	17:50	288				
		0:05	74	6:15	315	12:56	69	19:05	293
		1:25	72	7:35	317	14:08	64	20:15	304
		2:35	63	8:50	323	15:16	59	21:20	317
		3:56	53	9:56	328	16:25	53	22:26	328
		5:02	41	10:56	329	17:26	48	23:15	335
		6:02	32	11:55	327	18:20	44		
0:11	339	6:50	26	12:47	322	19:06	42		
0:55	340	7:30	24	13:26	317	19:43	40		
1:36	340	8:11	26	14:11	312	20:22	40		
2:04	337	8:46	31	14:46	306	20:56	43		
2:55	332	9:20	39	15:26	299	21:26	50		
3:35	323	9:56	51	16:06	292	22:06	60		
4:15	312	10:36	64	16:46	286	22:40	73		
4:55	301	11:15	77	17:36	282	23:30	87		
5:44	291	12:15	88	18:30	282				
		0:34	98	6:45	287	13:25	90	19:35	288
		2:16	94	7:55	290	14:46	81	20:35	299
		3:16	80	9:04	298	15:35	69	21:35	312
		4:16	67	10:16	306	16:31	59	22:36	323
		5:00	56	11:06	311	17:17	53	23:26	329
		5:46	48	11:35	314	17:56	48	23:56	334

Referentievlak : LAT				Borkum Fischerbalje LAT=NAP-167								53.5575° N, 6.7478° O				Eemshaven LAT=NAP-192				53.4500° N, 6.8333° O			
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
29-1	zon					06:12	44	12:12	303	18:25	47					6:31	41	12:15	315	18:41	43		
30-1	maa			00:25	325	06:52	40	12:52	297	19:00	46			0:30	338	7:11	36	12:45	315	19:21	39		
31-1	din			00:59	321	07:28	38	13:26	291	19:33	44			1:06	341	7:52	33	13:36	314	20:02	37		
1-2	woe			01:31	319	08:02	36	13:59	288	20:06	39			1:46	342	8:26	34	14:04	311	20:39	38		
2-2	don			02:08	320	08:37	35	14:36	287	20:43	35			2:26	339	9:07	39	14:50	306	21:16	42		
3-2	vry			02:50	319	09:14	36	15:19	284	21:26	36			3:11	333	9:46	46	15:36	299	21:57	48		
4-2	zat	5:19	EK	03:37	313	09:57	42	16:07	278	22:15	44			3:56	324	10:26	55	16:26	292	22:46	56		
5-2	zon			04:28	300	10:47	55	17:02	269	23:10	56			4:46	314	11:16	65	17:15	288	23:46	65		
6-2	maa			05:30	284	11:50	67	18:15	261					5:44	305	12:26	73	18:30	289				
7-2	din					00:24	65	06:57	274	13:28	69	19:44	262			1:01	68	7:04	303	13:40	72	19:44	297
8-2	woe					02:00	59	08:26	275	14:42	58	21:00	275			2:20	61	8:24	308	14:55	64	20:55	311
9-2	don					03:20	43	09:36	286	15:56	43	21:58	292			3:46	48	9:56	316	16:10	53	22:15	325
10-2	vry					04:37	24	10:32	297	17:00	30	22:49	306			4:53	32	10:45	321	17:16	43	23:06	333
11-2	zat	1:33	VM			05:33	11	11:24	303	17:51	24	23:36	313			5:46	21	11:40	321	18:06	36	23:50	337
12-2	zon					06:20	11	12:10	303	18:36	27					6:33	18	12:31	318	18:48	33		
13-2	maa			00:19	314	07:01	21	12:51	299	19:14	37			0:30	338	7:12	19	13:16	314	19:26	31		
14-2	din			00:57	311	07:37	35	13:25	293	19:46	47			1:17	337	7:49	21	13:40	312	19:56	28		
15-2	woe			01:30	308	08:06	46	13:55	291	20:11	52			1:50	335	8:21	26	14:04	308	20:29	30		
16-2	don			02:03	306	08:33	50	14:26	291	20:36	52			2:26	328	8:51	33	14:45	303	20:59	36		
17-2	vry			02:37	304	09:02	52	15:02	290	21:09	53			2:56	318	9:19	43	15:16	297	21:26	46		
18-2	zat	20:33	LK	03:15	298	09:38	59	15:46	287	21:51	62			3:35	306	9:46	55	15:45	291	22:01	57		
19-2	zon			04:03	287	10:21	73	16:38	281	22:42	77			4:06	295	10:26	66	16:15	285	22:40	70		
20-2	maa			05:00	276	11:13	91	17:36	277	23:43	92			4:35	285	11:06	78	17:25	281	23:36	85		
21-2	din			06:02	269	12:18	104	18:37	279					5:45	277	12:16	90	18:34	281				
22-2	woe					00:54	99	07:07	269	13:32	104	19:43	289			0:49	93	7:14	278	13:45	89	20:06	291
23-2	don					02:10	93	08:17	278	14:45	91	20:52	304			2:30	81	8:25	287	15:07	74	21:04	305
24-2	vry					03:22	77	09:26	289	15:46	72	21:51	317			3:41	62	9:46	300	16:00	58	22:16	318
25-2	zat					04:19	59	10:23	298	16:37	55	22:41	323			4:36	47	10:35	308	16:52	47	22:56	327
26-2	zon	15:58	NM			05:07	43	11:11	301	17:23	43	23:26	322			5:26	36	11:20	313	17:41	39	23:36	332
27-2	maa					05:51	32	11:55	298	18:04	35					6:11	27	12:06	315	18:22	31		
28-2	din			00:05	318	06:32	24	12:32	293	18:42	28			0:16	337	6:56	20	12:46	317	19:10	24		
1-3	woe			00:39	317	07:10	19	13:05	292	19:17	21			0:50	341	7:36	16	13:20	318	19:46	20		
2-3	don			01:13	320	07:46	17	13:38	294	19:52	15			1:30	342	8:16	18	13:56	316	20:28	20		
3-3	vry			01:52	322	08:21	18	14:17	295	20:29	13			2:10	339	8:56	25	14:36	311	21:06	26		
4-3	zat			02:36	319	08:56	24	15:00	291	21:10	18			2:44	330	9:32	36	15:05	304	21:46	34		
5-3	zon	12:32	EK	03:24	306	09:35	37	15:47	281	21:55	31			3:35	319	10:12	49	16:06	297	22:26	44		
6-3	maa			04:17	287	10:21	54	16:43	268	22:50	48			4:30	306	10:56	63	17:05	291	23:26	56		
7-3	din			05:27	269	11:24	71	17:58	258					5:40	295	12:05	75	18:10	290				
8-3	woe					00:24	59	06:51	261	13:19	71	19:25	261			0:45	62	7:05	292	13:26	76	19:30	297
9-3	don					01:55	50	08:17	268	14:32	57	20:44	278			2:05	54	8:26	299	14:45	64	20:56	310
10-3	vry					03:16	35	09:24	285	15:47	41	21:43	298			3:36	38	9:46	309	16:01	48	22:06	323
11-3	zat					04:26	18	10:20	298	16:47	27	22:34	310			4:36	22	10:41	316	16:55	36	22:44	330

Referentievlak : LAT

datum dag maan stand

				Borkum Fischerbalje												Eemshaven				53.4500° N, 6.8333° O							
				LAT=NAP-167												LAT=NAP-192											
HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm				
12-3	zon	15:54	VM	05:17	11	11:09	304	17:35	24	23:18	314					5:29	14	11:25	316	17:46	29	23:24	331				
13-3	maa			06:01	16	11:52	301	18:16	29	23:56	310					6:13	14	12:10	314	18:26	27						
14-3	din			06:38	27	12:24	297	18:50	37					0:16	331	6:51	18	12:46	312	19:01	26						
15-3	woe			07:08	36	12:50	296	19:17	40					0:46	331	7:26	22	13:16	313	19:36	24						
16-3	don			07:33	38	13:18	300	19:40	38					1:26	328	7:51	24	13:40	313	20:01	24						
17-3	vry			07:58	37	13:50	304	20:07	37					1:44	321	8:16	30	14:16	309	20:29	29						
18-3	zat			08:27	42	14:26	304	20:40	43					2:14	310	8:42	38	14:40	303	20:56	38						
19-3	zon			08:58	57	15:05	299	21:16	58					2:56	299	9:11	47	14:54	296	21:29	47						
20-3	maa	16:58	LK	09:30	77	15:48	292	21:58	78					3:26	289	9:46	55	15:34	291	22:06	57						
21-3	din			10:12	98	16:40	289	22:52	95					3:55	280	10:20	64	16:30	286	22:56	69						
22-3	woe			11:12	111	17:41	290	23:59	102					5:05	272	11:16	78	17:45	282								
23-3	don			12:24	112	18:51	297								0:00	80	6:25	270	12:35	87	19:26	287					
24-3	vry			07:30	96	07:30	280	13:42	99	20:09	308			1:40	76	7:54	280	14:15	77	20:25	301						
25-3	zat			08:50	77	08:50	291	15:01	76	21:18	318			3:06	56	9:16	295	15:25	58	21:36	316						
26-3	zon			04:41	50	10:55	299	17:04	55	23:13	321			5:06	38	11:10	307	17:26	44	23:31	326						
27-3	maa			05:36	30	11:47	300	17:54	40						5:56	25	11:55	313	18:16	33							
28-3	din	4:57	NM	06:23	20	12:31	296	18:39	30					0:17	331	6:48	16	12:46	316	19:02	23						
29-3	woe			07:06	10	13:08	293	19:20	20					0:56	335	7:33	10	13:14	318	19:48	14						
30-3	don			07:47	10	13:41	296	19:59	10					1:36	338	8:16	8	14:05	320	20:32	9						
31-3	vry			08:26	0	14:17	302	20:37	2					2:16	337	8:56	9	14:47	319	21:13	8						
1-4	zat			09:03	10	14:58	304	21:16	2					2:55	333	9:33	18	15:26	316	21:53	13						
2-4	zon			09:40	20	15:43	299	21:57	11					3:40	324	10:16	31	16:07	311	22:30	22						
3-4	maa	20:39	EK	10:18	30	16:33	287	22:43	27					4:30	312	10:56	45	16:45	305	23:16	34						
4-4	din			11:02	50	17:32	274	23:44	45					5:26	299	11:41	59	17:45	299								
5-4	woe			12:30	70	18:43	267								0:16	46	6:36	289	12:34	72	18:55	297					
6-4	don			01:28	50	07:39	257	14:03	70	20:05	272			1:30	51	7:56	287	14:06	73	20:15	302						
7-4	vry			02:41	40	09:02	270	15:13	57	21:24	290			2:56	43	9:10	295	15:26	60	21:30	313						
8-4	zat			03:57	30	10:09	289	16:27	41	22:24	307			4:05	29	10:15	305	16:39	44	22:46	322						
9-4	zon			05:05	10	11:04	302	17:27	29	23:15	315			5:16	17	11:25	312	17:36	33	23:30	326						
10-4	maa			05:55	10	11:52	304	18:14	26	23:57	311			6:06	14	12:10	313	18:22	29								
11-4	din	8:08	VM	06:36	20	12:29	299	18:53	31					0:04	324	6:46	18	12:46	311	19:06	29						
12-4	woe			07:10	30	12:54	296	19:25	35					0:46	323	7:23	23	13:16	312	19:36	28						
13-4	don			07:37	30	13:17	301	19:49	33					1:26	322	7:56	26	13:46	316	20:06	25						
14-4	vry			08:01	30	13:49	310	20:14	29					1:43	320	8:21	26	14:17	318	20:36	25						
15-4	zat			08:30	30	14:26	316	20:44	32					2:26	314	8:47	30	14:46	315	21:02	29						
16-4	zon			09:02	40	15:04	315	21:18	46					2:55	303	9:10	36	15:05	308	21:31	37						
17-4	maa			09:31	60	15:40	310	21:52	65					3:31	292	9:41	43	15:40	302	22:01	44						
18-4	din			09:57	80	16:16	305	22:30	82					3:55	283	10:11	48	16:15	297	22:36	50						
19-4	woe	11:57	LK	10:33	90	17:01	304	23:20	92					4:40	276	10:51	55	16:54	292	23:26	57						
20-4	don			11:31	100	17:58	306							5:35	270	11:46	67	18:05	289								
21-4	vry			00:22	90	06:37	280	12:41	103	19:04	310				0:26	66	6:44	268	12:56	77	19:36	291					
22-4	zat			01:30	80	07:51	286	13:53	90	20:23	315				1:57	65	8:35	277	14:26	74	20:55	302					

Referentievlak : LAT				Borkum Fischerbalje LAT=NAP-167								Eemshaven LAT=NAP-192											
				53.5575° N, 6.7478° O								53.4500° N, 6.8333° O											
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm				
23-4	zon					02:44	60	09:14	294	15:10	71	21:40	320			3:16	49	9:35	292	15:45	58	22:06	315
24-4	maa					03:57	40	10:23	301	16:21	53	22:40	321			4:20	31	10:35	305	16:46	43	22:56	325
25-4	din					04:59	20	11:18	301	17:20	39	23:29	317			5:21	20	11:36	313	17:46	31	23:46	331
26-4	woe	14:16	NM			05:51	20	12:03	298	18:10	29					6:16	14	12:21	318	18:35	21		
27-4	don			00:12	315	06:39	10	12:41	298	18:56	16			0:36	333	7:06	10	13:07	320	19:26	11		
28-4	vry			00:52	317	07:23	0	13:17	303	19:40	4			1:16	333	7:51	8	13:35	322	20:13	6		
29-4	zat			01:36	320	08:06	0	13:57	310	20:23	0			1:55	331	8:33	11	14:26	323	20:56	3		
30-4	zon			02:23	317	08:47	0	14:41	312	21:07	0			2:46	325	9:16	17	15:06	322	21:39	7		
1-5	maa			03:13	307	09:28	10	15:29	307	21:52	8			3:30	317	9:58	28	15:50	320	22:21	15		
2-5	din			04:06	290	10:09	30	16:20	297	22:45	25			4:15	306	10:35	40	16:40	316	23:09	24		
3-5	woe	4:47	EK	05:04	272	10:59	50	17:18	287	23:58	41			5:20	297	11:25	52	17:46	311				
4-5	don			06:07	263	12:25	60	18:23	283							0:00	34	6:20	290	12:26	63	18:40	309
5-5	vry					01:09	40	07:17	264	13:37	67	19:38	289			1:10	39	7:36	288	13:40	65	19:55	310
6-5	zat					02:13	40	08:34	276	14:41	57	20:55	302			2:26	36	8:45	293	14:56	58	20:55	314
7-5	zon					03:20	30	09:42	292	15:52	45	21:58	312			3:39	28	10:06	301	16:06	47	22:16	319
8-5	maa					04:32	20	10:38	301	16:57	34	22:49	312			4:46	23	11:06	307	17:06	39	23:00	320
9-5	din					05:24	20	11:25	300	17:46	31	23:32	303			5:32	22	11:40	310	17:52	35	23:46	317
10-5	woe	23:43	VM			06:06	20	11:59	295	18:26	33					6:16	27	12:16	311	18:36	35		
11-5	don			00:03	294	06:38	30	12:21	295	18:57	35			0:15	315	6:51	31	12:40	315	19:11	34		
12-5	vry			00:32	293	07:05	30	12:48	306	19:23	32			0:50	315	7:26	32	13:04	320	19:46	32		
13-5	zat			01:07	301	07:34	20	13:25	319	19:52	29			1:26	313	7:45	31	13:46	323	20:16	31		
14-5	zon			01:48	308	08:07	30	14:06	327	20:26	35			2:05	308	8:21	32	14:20	321	20:40	34		
15-5	maa			02:30	308	08:41	40	14:46	326	21:00	51			2:36	299	8:46	38	14:50	315	21:10	40		
16-5	din			03:09	301	09:10	60	15:22	320	21:35	69			3:16	289	9:15	43	15:15	308	21:46	45		
17-5	woe			03:44	290	09:37	80	15:54	315	22:11	80			3:45	281	9:46	47	16:06	304	22:19	47		
18-5	don			04:22	283	10:13	90	16:35	315	22:57	81			4:25	276	10:31	51	16:34	301	23:00	50		
19-5	vry	2:33	LK	05:09	282	11:06	90	17:27	317	23:53	74			5:26	272	11:20	58	17:35	300				
20-5	zat			06:07	285	12:09	80	18:27	319							0:06	54	6:25	272	12:26	66	18:45	301
21-5	zon					00:55	60	07:15	289	13:16	74	19:37	319			1:16	54	7:45	278	13:46	67	19:54	306
22-5	maa					02:03	50	08:35	294	14:27	64	20:55	319			2:36	44	9:01	290	14:55	57	21:25	316
23-5	din					03:15	30	09:46	299	15:39	52	22:02	318			3:34	31	10:07	302	16:06	44	22:15	325
24-5	woe					04:20	20	10:45	300	16:43	41	22:57	316			4:40	22	11:06	312	17:11	33	23:16	330
25-5	don	21:44	NM			05:17	20	11:33	300	17:40	30	23:46	314			5:46	19	11:56	319	18:11	24		
26-5	vry					06:10	10	12:15	302	18:33	16			0:06	331	6:42	17	12:41	324	19:06	16		
27-5	zat			00:33	315	07:00	10	12:56	308	19:24	2			0:56	329	7:32	17	13:15	326	19:53	9		
28-5	zon			01:22	315	07:48	0	13:40	315	20:14	0			1:46	325	8:16	19	14:16	328	20:41	6		
29-5	maa			02:13	310	08:35	10	14:27	317	21:03	0			2:36	319	8:59	22	14:56	329	21:28	6		
30-5	din			03:04	300	09:21	20	15:16	313	21:53	9			3:26	312	9:41	27	15:40	329	22:08	10		
31-5	woe			03:56	287	10:08	30	16:06	306	22:46	26			4:16	305	10:26	35	16:25	327	22:58	17		
1-6	don	14:42	EK	04:49	276	10:59	50	17:00	300	23:42	39			5:16	298	11:11	43	17:20	324	23:45	26		
2-6	vry			05:46	271	11:59	60	17:59	298					6:06	293	12:00	52	18:26	319				
3-6	zat					00:39	40	06:47	273	13:02	64	19:04	301			0:46	34	7:06	290	13:05	60	19:15	315

Referentievlak : LAT				Borkum Fischerbalje LAT=NAP-167								53.5575° N, 6.7478° O				Eemshaven LAT=NAP-192				53.4500° N, 6.8333° O			
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
4-6	zon					01:37	40	07:53	280	14:03	59	20:15	304			1:51	38	8:16	290	14:16	62	20:15	312
5-6	maa					02:36	30	09:02	288	15:06	52	21:22	305			2:56	39	9:05	294	15:20	57	21:30	312
6-6	din					03:41	30	10:03	293	16:17	44	22:19	300			3:56	38	10:15	301	16:25	52	22:35	311
7-6	woe					04:43	30	10:52	293	17:13	40	23:04	291			4:56	38	11:06	307	17:15	48	23:05	310
8-6	don					05:29	30	11:26	291	17:55	41	23:37	285			5:35	39	11:45	312	18:02	45	23:56	309
9-6	vry	15:10	VM			06:05	40	11:51	297	18:29	41					6:19	39	12:16	318	18:40	43		
10-6	zat			00:07	289	06:37	40	12:23	311	19:00	39			0:35	309	6:56	39	12:51	324	19:16	41		
11-6	zon			00:46	300	07:11	30	13:04	325	19:33	38			1:06	308	7:27	38	13:26	327	19:50	39		
12-6	maa			01:30	308	07:47	40	13:47	333	20:10	44			1:46	305	8:01	38	14:07	326	20:25	40		
13-6	din			02:13	309	08:22	50	14:28	331	20:45	56			2:20	300	8:31	41	14:36	323	20:56	43		
14-6	woe			02:53	301	08:53	70	15:03	325	21:20	67			2:56	293	9:01	44	15:10	319	21:36	46		
15-6	don			03:29	291	09:22	70	15:35	320	21:55	71			3:36	287	9:36	47	15:46	316	22:06	47		
16-6	vry			04:03	284	09:58	70	16:13	319	22:36	66			4:05	282	10:16	50	16:31	314	22:51	47		
17-6	zat	13:33	LK	04:47	283	10:45	70	17:01	321	23:26	58			5:00	280	11:00	53	17:15	312	23:40	48		
18-6	zon			05:38	285	11:41	60	17:55	320					5:50	279	12:01	58	18:16	311				
19-6	maa					00:22	50	06:38	287	12:41	64	18:56	317			0:39	49	7:00	281	13:06	61	19:15	312
20-6	din					01:25	40	07:49	288	13:48	63	20:07	313			1:49	46	8:04	288	14:15	58	20:24	316
21-6	woe					02:36	40	09:06	290	15:01	58	21:23	310			2:59	39	9:27	300	15:25	49	21:46	323
22-6	don					03:45	40	10:12	294	16:10	48	22:29	309			4:06	33	10:26	312	16:35	40	22:46	328
23-6	vry					04:46	30	11:06	298	17:13	35	23:26	309			5:10	30	11:20	322	17:49	31	23:46	329
24-6	zat	4:31	NM			05:46	20	11:55	304	18:17	20					6:16	29	12:16	328	18:46	23		
25-6	zon			00:21	310	06:44	20	12:42	312	19:16	6			0:47	326	7:11	27	13:06	332	19:43	15		
26-6	maa			01:14	309	07:37	10	13:29	318	20:08	0			1:36	322	7:59	27	13:56	335	20:29	10		
27-6	din			02:05	305	08:27	10	14:17	319	20:57	4			2:26	317	8:46	26	14:40	337	21:13	8		
28-6	woe			02:54	298	09:13	20	15:04	317	21:44	18			3:16	312	9:26	28	15:26	337	21:56	10		
29-6	don			03:42	288	09:57	40	15:50	312	22:29	35			4:05	307	10:06	31	16:10	336	22:39	16		
30-6	vry			04:30	281	10:40	50	16:38	308	23:14	47			4:51	302	10:46	37	16:55	331	23:20	26		
1-7	zat	2:51	EK	05:18	278	11:26	60	17:30	306					5:36	296	11:36	47	17:56	323				
2-7	zon					00:02	50	06:10	279	12:20	67	18:28	303			0:06	39	6:26	291	12:20	59	18:46	314
3-7	maa					00:55	50	07:07	282	13:20	66	19:31	299			1:06	51	7:26	287	13:20	70	19:35	306
4-7	din					01:52	50	08:10	284	14:22	63	20:39	293			2:00	58	8:15	288	14:35	74	20:25	301
5-7	woe					02:52	50	09:17	286	15:29	60	21:44	289			3:06	60	9:20	294	15:40	70	21:34	301
6-7	don					03:55	50	10:14	290	16:36	56	22:37	285			4:05	56	10:14	303	16:40	63	22:40	304
7-7	vry					04:51	50	10:55	296	17:25	55	23:16	286			5:01	52	11:04	313	17:36	57	23:25	306
8-7	zat					05:35	50	11:29	306	18:04	54	23:51	293			5:45	49	11:50	321	18:19	52		
9-7	zon	6:07	VM			06:14	50	12:06	320	18:41	52			0:05	307	6:31	47	12:36	326	18:56	49		
10-7	maa			00:31	303	06:53	50	12:48	332	19:18	50			0:45	307	7:06	46	13:11	330	19:36	46		
11-7	din			01:15	309	07:31	50	13:31	336	19:56	51			1:26	306	7:42	44	13:46	331	20:12	43		
12-7	woe			01:58	308	08:07	50	14:10	334	20:32	55			2:06	304	8:16	44	14:26	331	20:46	43		
13-7	don			02:37	301	08:38	60	14:44	327	21:05	60			2:40	302	8:56	45	14:45	330	21:26	44		
14-7	vry			03:11	291	09:08	60	15:16	323	21:39	60			3:15	298	9:29	46	15:36	328	22:01	45		
15-7	zat			03:45	286	09:43	60	15:52	322	22:16	56			4:06	293	10:02	48	16:10	326	22:38	47		

Referentievlak : LAT				Borkum Fischerbalje LAT=NAP-167				53.5575° N, 6.7478° O				Eemshaven LAT=NAP-192				53.4500° N, 6.8333° O									
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm				
27-8	zon			03:21	300	09:34	60	15:30	317	21:57	66					3:46	309	9:51	43	15:57	326	22:10	50		
28-8	maa			03:56	300	10:03	70	16:09	311	22:30	73					4:16	303	10:20	53	16:26	314	22:40	63		
29-8	din	10:13	EK	04:38	299	10:40	70	16:56	302	23:12	85					4:34	296	10:56	67	17:06	301	23:12	76		
30-8	woe			05:28	296	11:29	90	17:52	292							5:25	291	11:30	81	17:40	291	23:56	90		
31-8	don					00:04	100	06:25	294	12:31	109	18:54	285			6:15	287	12:15	97	18:45	283				
1-9	vry					01:09	110	07:27	297	13:46	118	20:01	285					0:50	102	7:30	288	13:34	108	19:54	282
2-9	zat					02:23	120	08:34	307	15:06	114	21:14	293					2:24	105	8:34	296	15:26	98	21:14	291
3-9	zon					03:35	110	09:44	323	16:17	101	22:19	304					3:50	89	10:00	311	16:25	79	22:36	303
4-9	maa					04:34	90	10:40	338	17:09	85	23:09	314					4:45	74	10:56	324	17:15	65	23:20	312
5-9	din					05:24	80	11:26	346	17:54	70	23:54	317					5:36	64	11:45	332	18:11	55		
6-9	woe	9:03	VM			06:08	60	12:09	346	18:35	59					0:05	316	6:22	57	12:27	336	18:52	48		
7-9	don			00:36	315	06:48	60	12:48	342	19:15	52					0:51	318	7:06	52	13:00	340	19:36	43		
8-9	vry			01:15	311	07:26	50	13:23	338	19:52	48					1:26	319	7:45	46	13:36	343	20:16	38		
9-9	zat			01:50	308	08:00	50	13:57	337	20:27	47					2:05	320	8:26	41	14:16	344	20:56	40		
10-9	zon			02:23	307	08:33	50	14:32	338	21:01	49					2:41	319	9:06	42	14:50	342	21:32	46		
11-9	maa			02:57	309	09:08	40	15:13	335	21:35	54					3:16	315	9:42	46	15:36	335	22:06	56		
12-9	din			03:37	308	09:46	50	15:58	327	22:13	63					3:50	310	10:22	53	16:05	325	22:41	67		
13-9	woe	8:25	LK	04:22	303	10:30	60	16:49	312	22:57	76					4:36	304	10:55	62	17:06	314	23:26	79		
14-9	don			05:15	294	11:21	70	17:52	294	23:52	91					5:25	299	11:56	72	18:05	304				
15-9	vry			06:24	286	12:30	80	19:15	284									0:25	90	6:40	298	13:05	80	19:25	300
16-9	zat					01:31	90	07:49	287	14:20	83	20:41	288					1:46	95	8:06	304	14:30	75	20:56	306
17-9	zon					02:55	80	09:12	301	15:37	66	21:55	303					3:06	85	9:20	319	15:50	60	22:11	318
18-9	maa					04:05	70	10:16	321	16:53	49	22:54	317					4:19	69	10:36	333	17:06	44	23:10	326
19-9	din					05:15	50	11:10	336	17:52	37	23:46	323					5:28	55	11:26	342	18:03	33		
20-9	woe	7:30	NM			06:10	40	11:57	341	18:40	36					0:06	327	6:26	47	12:15	344	18:53	32		
21-9	don			00:32	322	06:56	50	12:39	338	19:22	45					0:43	324	7:06	45	12:56	342	19:36	36		
22-9	vry			01:11	316	07:35	50	13:15	332	19:56	56					1:36	321	7:48	45	13:37	340	20:08	42		
23-9	zat			01:42	311	08:08	60	13:48	326	20:25	64					1:54	320	8:21	45	14:05	337	20:41	47		
24-9	zon			02:10	311	08:35	60	14:21	323	20:50	67					2:30	320	8:51	46	14:40	331	21:06	53		
25-9	maa			02:40	314	08:59	60	14:56	319	21:18	72					3:00	317	9:21	51	15:16	320	21:36	62		
26-9	din			03:16	315	09:29	70	15:32	312	21:50	84					3:30	311	9:46	61	15:35	307	22:00	72		
27-9	woe			03:55	313	10:04	80	16:13	303	22:25	104					3:55	304	10:19	72	16:15	296	22:30	81		
28-9	don	4:53	EK	04:39	309	10:47	100	17:01	294	23:07	126					4:24	298	10:56	84	16:44	286	23:06	91		
29-9	vry			05:31	307	11:40	120	18:01	288							5:20	293	11:36	96	17:45	278	23:55	103		
30-9	zat					00:03	140	06:32	309	12:46	138	19:09	289			6:30	289	12:46	108	19:15	277				
1-10	zon					01:13	140	07:42	317	14:02	134	20:22	297					1:10	113	7:55	295	14:26	107	20:46	286
2-10	maa					02:31	130	08:56	331	15:23	115	21:35	310					2:55	106	9:04	308	15:40	86	21:55	301
3-10	din					03:48	110	10:01	343	16:28	91	22:35	320					4:11	86	10:20	324	16:46	68	22:50	314
4-10	woe					04:46	90	10:53	348	17:18	72	23:25	322					5:00	71	11:16	334	17:36	55	23:40	321
5-10	don	20:40	VM			05:35	70	11:39	346	18:03	59							5:56	61	11:55	340	18:22	47		
6-10	vry			00:08	319	06:19	60	12:19	340	18:45	52					0:25	324	6:42	53	12:36	343	19:09	42		
7-10	zat			00:47	315	06:59	50	12:55	337	19:25	48					1:05	326	7:26	46	13:15	345	19:52	40		

Referentievlak : LAT				Borkum Fischerbalje LAT=NAP-167								53.5575° N, 6.7478° O				Eemshaven LAT=NAP-192				53.4500° N, 6.8333° O					
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm		
8-10	zon			01:21	315	07:38	50	13:31	338	20:03	47			1:35	327	8:10	41	13:51	345	20:33	42				
9-10	maa			01:54	318	08:15	40	14:11	339	20:40	48			2:04	326	8:49	40	14:30	341	21:12	49				
10-10	din			02:33	321	08:52	40	14:56	333	21:16	56			2:44	324	9:29	44	15:10	333	21:52	60				
11-10	woe			03:16	319	09:32	50	15:46	319	21:54	68			3:36	320	10:09	52	16:00	322	22:25	72				
12-10	don	14:25	LK	04:05	312	10:16	60	16:42	301	22:37	85			4:21	315	10:51	62	16:45	309	23:16	85				
13-10	vry			05:01	301	11:10	70	17:50	284	23:36	101			5:05	309	11:40	72	18:05	300						
14-10	zat			06:11	293	12:48	80	19:08	279						0:05	96	6:15	307	12:55	79	19:20	298			
15-10	zon					01:28	100	07:31	296	14:11	78	20:29	288			1:26	100	7:46	312	14:16	73	20:46	304		
16-10	maa					02:39	90	08:52	311	15:21	64	21:40	306			2:50	89	8:54	323	15:36	59	21:45	315		
17-10	din					03:48	70	09:57	329	16:34	50	22:38	321			3:59	73	10:10	335	16:46	46	22:56	324		
18-10	woe					04:57	60	10:51	339	17:31	42	23:29	326			5:05	60	11:06	340	17:41	40	23:46	326		
19-10	don	21:12	NM			05:51	50	11:37	339	18:17	44					6:02	54	11:50	340	18:26	43				
20-10	vry			00:11	322	06:35	50	12:16	330	18:56	53			0:25	324	6:46	53	12:31	337	19:08	49				
21-10	zat			00:43	316	07:12	60	12:48	322	19:27	62			0:55	323	7:21	54	12:54	334	19:42	55				
22-10	zon			01:07	316	07:42	60	13:19	319	19:51	65			1:26	325	7:56	54	13:24	331	20:06	58				
23-10	maa			01:35	321	08:06	60	13:53	320	20:16	66			1:56	327	8:20	54	14:16	325	20:36	61				
24-10	din			02:09	327	08:32	60	14:31	318	20:47	75			2:20	326	8:51	58	14:40	315	21:06	67				
25-10	woe			02:47	329	09:04	70	15:09	313	21:19	94			2:45	319	9:16	67	15:10	303	21:25	74				
26-10	don			03:25	327	09:39	90	15:46	304	21:49	116			3:14	312	9:46	76	15:34	292	21:56	81				
27-10	vry			04:02	323	10:17	110	16:27	296	22:21	134			3:45	306	10:26	83	16:20	285	22:30	86				
28-10	zat	0:22	EK	04:46	321	11:04	120	17:19	291	23:13	144			4:35	302	11:06	90	17:15	279	23:20	95				
29-10	zon			04:41	322	11:03	132	17:22	293	23:19	143			4:34	298	11:06	98	17:15	276	23:25	105				
30-10	maa			05:46	326	12:09	124	18:36	300					5:45	298	12:16	100	18:55	283						
31-10	din					00:29	131	07:01	332	13:20	106	19:51	311			0:45	107	7:25	308	13:45	87	20:16	297		
1-11	woe					01:44	112	08:15	339	14:33	84	20:57	321			2:05	93	8:36	322	14:56	68	21:10	312		
2-11	don					02:56	91	09:15	342	15:34	66	21:51	324			3:21	75	9:30	334	15:50	54	22:06	322		
3-11	vry					03:56	75	10:05	340	16:26	55	22:38	322			4:16	63	10:20	341	16:45	47	22:50	328		
4-11	zat	6:23	VM			04:46	64	10:48	336	17:13	50	23:17	320			5:11	53	11:06	344	17:39	43	23:36	331		
5-11	zon					05:32	55	11:27	334	17:57	46	23:51	321			5:59	45	11:56	344	18:26	43				
6-11	maa					06:15	45	12:09	334	18:39	43			0:04	332	6:48	40	12:30	342	19:13	45				
7-11	din			00:27	326	06:58	37	12:54	332	19:20	45			0:56	333	7:33	38	13:05	336	19:52	51				
8-11	woe			01:10	329	07:41	34	13:44	324	20:01	52			1:35	332	8:16	41	13:54	328	20:31	59				
9-11	don			01:58	326	08:25	41	14:36	309	20:42	66			2:05	329	8:57	47	14:56	318	21:16	69				
10-11	vry	21:36	LK	02:49	318	09:14	54	15:34	292	21:28	83			3:05	326	9:46	55	15:45	308	22:01	79				
11-11	zat			03:46	308	10:19	69	16:38	280	22:41	97			4:06	322	10:35	63	16:56	300	22:56	89				
12-11	zon			04:51	302	11:40	75	17:48	278					5:05	319	11:35	69	18:00	298						
13-11	maa					00:06	98	06:04	304	12:46	70	19:03	287			0:05	93	6:20	320	12:50	67	19:05	301		
14-11	din					01:12	88	07:21	313	13:49	62	20:14	303			1:26	88	7:36	324	14:00	60	20:26	309		
15-11	woe					02:17	77	08:30	324	15:00	53	21:13	315			2:30	77	8:40	330	15:16	54	21:31	317		
16-11	don					03:28	65	09:26	327	16:02	47	22:04	318			3:36	67	9:46	332	16:06	51	22:21	321		
17-11	vry					04:26	56	10:13	321	16:49	49	22:44	314			4:30	61	10:26	331	16:59	53	23:05	322		
18-11	zat	12:42	NM			05:10	56	10:51	311	17:26	56	23:12	310			5:17	60	11:06	328	17:36	59	23:15	324		

Referentievlak : LAT				Borkum Fischerbalje LAT=NAP-167								53.5575° N, 6.7478° O				Eemshaven LAT=NAP-192				53.4500° N, 6.8333° O			
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
19-11	zon					05:47	59	11:22	306	17:55	62	23:34	315			5:56	60	11:30	327	18:06	62	23:50	330
20-11	maa					06:16	61	11:53	308	18:19	63					6:26	60	12:06	325	18:37	62		
21-11	din			00:06	326	06:41	61	12:30	314	18:49	65			0:14	333	6:59	59	12:46	320	19:00	62		
22-11	woe			00:44	335	07:11	65	13:11	317	19:23	76			1:05	332	7:26	62	13:21	312	19:30	65		
23-11	don			01:24	338	07:45	77	13:51	313	19:56	95			1:24	327	7:56	68	13:50	302	20:01	70		
24-11	vry			02:01	335	08:19	94	14:27	304	20:23	113			1:54	320	8:25	73	14:26	293	20:31	74		
25-11	zat			02:34	330	08:54	107	15:02	295	20:51	123			2:24	315	8:56	77	14:55	287	21:05	77		
26-11	zon	18:03	EK	03:12	328	09:36	112	15:46	291	21:38	125			3:15	312	9:35	79	15:45	283	21:56	82		
27-11	maa			04:01	327	10:28	108	16:41	292	22:40	120			3:54	309	10:36	83	16:34	281	22:56	89		
28-11	din			04:58	327	11:26	99	17:46	296	23:45	110			4:54	308	11:36	85	17:54	283	23:55	93		
29-11	woe			06:03	327	12:31	87	19:02	303					6:20	311	12:50	79	19:26	292				
30-11	don					00:53	98	07:17	327	13:40	73	20:14	311			1:15	88	7:34	319	14:05	66	20:31	306
1-12	vry					02:05	85	08:30	328	14:47	61	21:14	315			2:30	74	8:51	330	15:11	54	21:25	318
2-12	zat					03:12	72	09:28	327	15:46	53	22:05	316			3:36	61	9:46	338	16:11	47	22:25	327
3-12	zon	16:47	VM			04:11	60	10:18	325	16:39	47	22:48	317			4:36	52	10:25	341	17:06	45	23:05	333
4-12	maa					05:05	48	11:05	324	17:30	42	23:26	320			5:36	44	11:26	341	18:02	44	23:44	336
5-12	din					05:57	35	11:53	322	18:19	38					6:26	37	12:16	337	18:49	45		
6-12	woe			00:08	325	06:47	25	12:43	318	19:07	38			0:24	337	7:16	33	12:59	331	19:36	47		
7-12	don			00:55	327	07:37	22	13:34	310	19:54	44			1:15	338	8:03	33	13:45	323	20:19	52		
8-12	vry			01:45	325	08:27	29	14:26	298	20:41	57			2:16	337	8:49	35	14:46	316	21:01	57		
9-12	zat			02:35	319	09:19	42	15:21	286	21:30	71			2:56	336	9:32	40	15:36	309	21:47	64		
10-12	zon	8:51	LK	03:29	311	10:14	56	16:18	278	22:29	83			3:56	332	10:20	48	16:25	302	22:36	71		
11-12	maa			04:28	306	11:13	64	17:19	276	23:34	86			4:56	327	11:17	57	17:30	298	23:30	79		
12-12	din			05:32	303	12:11	65	18:23	280					5:45	322	12:15	63	18:36	296				
13-12	woe					00:36	82	06:41	303	13:09	62	19:34	288			0:46	84	6:56	318	13:26	66	19:46	298
14-12	don					01:37	74	07:54	304	14:11	58	20:39	296			1:50	81	8:06	317	14:25	65	20:55	304
15-12	vry					02:47	66	08:57	303	15:21	54	21:33	299			2:59	75	9:06	318	15:26	63	21:34	311
16-12	zat					03:55	58	09:49	297	16:15	54	22:15	299			3:56	69	9:44	318	16:21	62	22:25	318
17-12	zon					04:43	55	10:31	291	16:54	58	22:44	301			4:52	64	10:35	318	17:00	62	23:05	324
18-12	maa	7:30	NM			05:21	57	11:02	290	17:26	61	23:10	311			5:31	62	11:10	318	17:41	62	23:35	330
19-12	din					05:53	58	11:34	298	17:56	62	23:45	324			6:06	61	11:45	317	18:15	61	23:54	334
20-12	woe					06:23	59	12:12	308	18:30	64					6:41	59	12:20	315	18:40	59		
21-12	don			00:25	335	06:55	62	12:53	313	19:05	71			0:45	335	7:11	59	13:05	310	19:16	60		
22-12	vry			01:05	338	07:29	70	13:33	309	19:38	84			1:10	333	7:40	61	13:36	304	19:40	61		
23-12	zat			01:41	334	08:03	80	14:09	300	20:05	95			1:34	328	8:16	64	13:54	298	20:15	63		
24-12	zon			02:12	327	08:35	86	14:40	291	20:34	98			2:15	325	8:46	65	14:40	294	20:45	64		
25-12	maa			02:46	324	09:11	86	15:17	286	21:14	94			2:56	322	9:21	65	15:26	290	21:36	66		
26-12	din	10:20	EK	03:29	323	09:56	80	16:05	287	22:07	88			3:40	320	10:06	66	16:15	288	22:26	70		
27-12	woe			04:21	321	10:48	74	17:00	289	23:06	84			4:31	318	11:00	68	16:54	287	23:27	75		
28-12	don			05:18	318	11:47	71	18:03	290					5:25	316	12:06	70	18:10	290				
29-12	vry					00:10	82	06:22	313	12:53	68	19:18	293			0:30	76	6:34	316	13:20	65	19:25	298
30-12	zat					01:20	78	07:37	310	14:05	62	20:33	297			1:45	70	7:54	322	14:30	57	20:45	312
31-12	zon					02:34	68	08:52	309	15:11	54	21:34	302			3:06	59	9:16	330	15:35	50	21:45	324