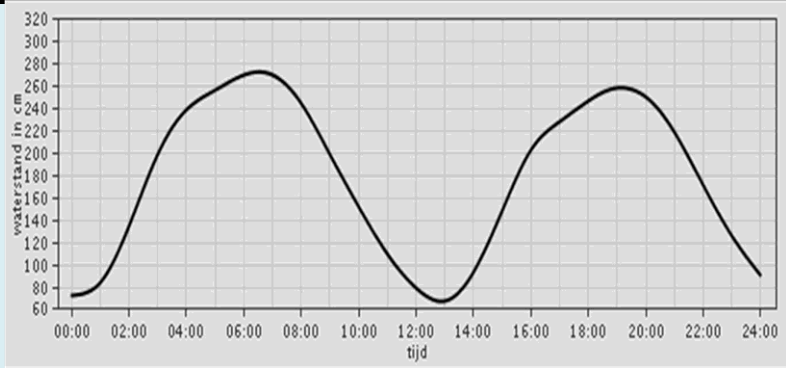


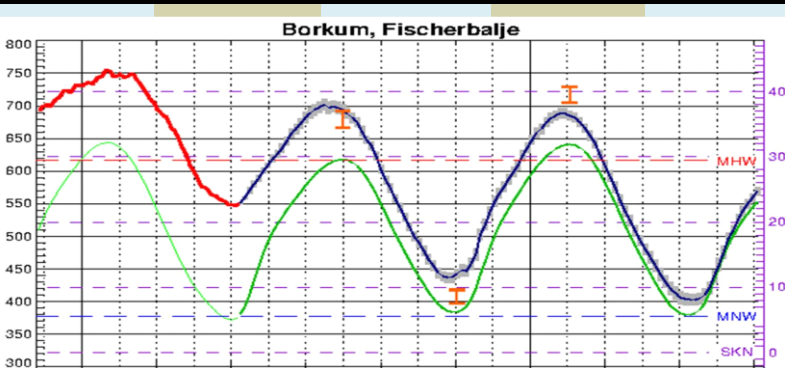
Referentievlak :LAT

datum dag maanstand

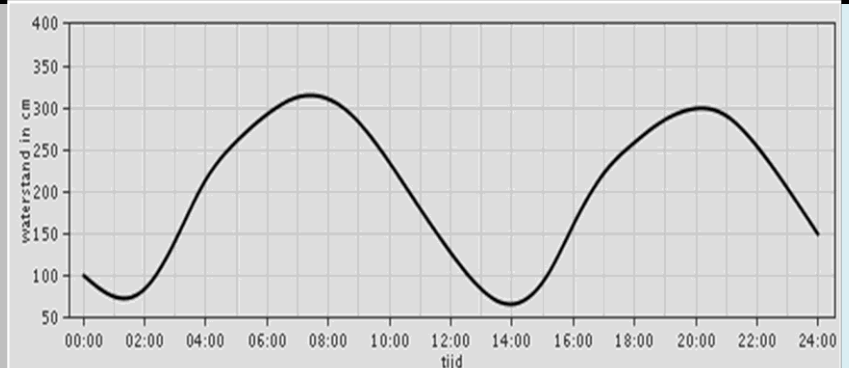
Huibertgat		53.5667° N, 6.4000° O			
LAT=NAP+167		53°34'012 / 6°24'0			
HW	cm	lw	cm	HW	cm
				lw	cm
				HW	cm



Borkum Fischerbalje		53.5575° N, 6.7478° O			
LAT=NAP+167					
HW	cm	lw	cm	HW	cm
				lw	cm
				HW	cm



Eemshaven		53.4500° N, 6.8333° O			
LAT=NAP+192					
HW	cm	lw	cm	HW	cm
				lw	cm
				HW	cm



2021

1-1 zon	5:01	279	11:27	70	17:43	246	23:39	79		05:51	308	12:19	64	18:32	268		6:05	320	12:34	70	18:44	286							
2-1 maa	6:07	272	12:29	74	18:45	249						00:40	71	06:54	297	13:16	64	19:36	267		0:51	81	7:11	312	13:36	75	19:49	288	
3-1 din			0:50	79	7:14	268	13:30	75	19:46	256		01:43	67	08:03	285	14:18	63	20:42	268		2:01	81	8:21	308	14:39	78	20:57	295	
4-1 woe			1:58	75	8:19	267	14:27	74	20:42	264		02:55	60	09:09	276	15:27	61	21:38	271		3:10	78	9:27	307	15:39	77	21:54	304	
5-1 don			3:00	70	9:14	265	15:18	73	21:25	271		04:03	53	10:07	273	16:20	62	22:22	278		4:13	72	10:22	307	16:33	76	22:39	312	
6-1 vry			3:53	67	9:57	263	16:01	72	21:58	277		04:52	52	10:54	276	17:01	67	22:56	288		5:06	67	11:06	305	17:17	75	23:14	319	
7-1 zat 01:08 VM			4:35	157	10:30	260	16:37	70	22:31	282		05:31	58	11:31	283	17:36	73	23:29	302		5:48	180	11:41	302	17:54	74	23:44	324	
8-1 zon			5:11	63	11:01	258	17:10	67	23:06	286		06:05	66	12:04	293	18:09	79				6:24	64	12:11	300	18:27	71			
9-1 maa			5:44	61	11:36	257	17:42	63	23:42	288	00:04	315	06:36	73	12:38	301	18:43	85		0:16	328	6:57	62	12:42	299	19:00	67		
10-1 din			6:18	58	12:13	256	18:13	60			00:41	323	07:08	78	13:13	303	19:16	91		0:50	330	7:30	60	13:16	298	19:32	64		
11-1 woe	0:18	288	6:51	57	12:50	254	18:44	59			01:15	324	07:41	80	13:48	297	19:46	95		1:25	331	8:03	58	13:52	297	20:04	62		
12-1 don	0:53	287	7:22	58	13:27	252	19:17	60			01:46	321	08:13	79	14:22	288	20:15	93		2:00	330	8:36	59	14:28	294	20:37	62		
13-1 vry			7:53	60	14:03	249	19:54	62			02:17	315	08:46	75	14:55	279	20:48	88				9:09	60	15:03	291	21:12	63		
14-1 zat	2:08	280	8:29	62	14:39	245	20:37	66			02:54	309	09:22	72	15:31	273	21:28	84		3:13	323	9:45	62	15:40	288	21:53	65		
15-1 zon 03:10 LK	2:47	276	9:13	66	15:17	243	21:28	71			03:38	302	10:04	71	16:15	271	22:17	84		3:53	319	10:27	64	16:20	287	22:41	70		
16-1 maa	3:30	271	10:06	71	16:01	243	22:28	76			04:28	295	10:53	76	17:06	271	23:13	89		4:39	314	11:18	69	17:08	285	23:37	76		
17-1 din	4:22	266	11:10	75	17:05	243	23:39	78			05:24	289	11:50	82	18:08	273				5:34	308	12:19	75	18:16	286				
18-1 woe	5:36	261	12:24	75	18:41	251							00:17	94	06:31	284	13:00	86	19:26	278		0:45	80	6:51	303	13:31	77	19:42	293
19-1 don			0:58	74	7:14	263	13:36	70	19:54	265			01:36	91	07:51	283	14:17	79	20:42	287		2:03	77	8:19	305	14:42	73	20:55	306
20-1 vry			2:09	63	8:29	270	14:38	63	20:54	279			02:53	77	09:11	287	15:24	67	21:47	299		3:17	67	9:34	311	15:48	67	22:01	321
21-1 zat 21:53 NM			3:16	156	9:33	275	15:37	58	21:50	291			04:04	57	10:22	292	16:28	55	22:43	308		4:31	179	10:40	317	16:56	61	22:59	333
22-1 zon			4:28	43	10:31	277	16:41	54	22:42	300			05:16	37	11:23	295	17:33	44	23:35	316		5:39	41	11:38	320	17:57	53	23:52	342
23-1 maa			5:30	33	11:23	276	17:40	48	23:32	306			06:17	19	12:18	295	18:30	36				6:34	28	12:31	319	18:49	45		
24-1 din			6:22	26	12:12	274	18:29	42			00:24	322	07:09	10	13:08	292	19:20	31		0:40	348	7:23	19	13:20	316	19:35	38		
25-1 woe	0:21	309	7:07	22	12:58	271	19:13	37			01:12	326	07:56	12	13:54	287	20:05	33		1:27	351	8:08	16	14:06	313	20:18	33		
26-1 don	1:08	309	7:49	24	13:43	266	19:53	36			01:57	328	08:40	22	14:37	282	20:47	37		2:13	351	8:50	18	14:50	308	20:59	32		
27-1 vry	1:54	304	8:28	32	14:27	260	20:32	40			02:43	326	09:21	35	15:20	276	21:27	43		2:58	346	9:31	27	15:33	302	21:38	37		
28-1 zat 16:19 EK	2:39	295	9:06	44	15:11	252	21:11	48			03:29	318	10:01	46	16:02	271	22:08	48		3:42	337	10:11	40	16:15	295	22:19	47		
29-1 zon	3:24	281	9:45	58	15:57	245	21:54	60			04:17	305	10:41	55	16:48	265	22:55	53		4:28	323	10:52	57	16:59	287	23:02	61		
30-1 maa	4:14	266	10:30	73	16:50	240	22:47	73			05:10	288	11:29	62	17:39	258	23:54	58		5:19	307	11:39	75	17:50	282	23:56	76		
31-1 din	5:15	253	11:29	85	17:52	239	23:59	82			06:10	271	12:27	68	18:38	254				6:19	293	12:39	89	18:49	280				
1-2 woe	6:29	245	12:45	89	19:00	245							01:00	61	07:23	260	13:33	72	19:54	256		1:11	88	7:33	284	13:53	95	20:01	284
2-2 don			1:22	81	7:55	245	13:55	84	20:13	255			02:15	61	08:50	261	14:50	73	21:12	269		2:31	87	8:58	284	15:03	90	21:20	295
3-2 vry			2:33	73	9:03	250	14:55	76	21:11	266			03:37	58	09:55	272	15:56	70	22:06	286		3:45	77	10:03	290	16:06	81	22:16	308
4-2 zat			3:32	64	9:49	253	15:45	68	21:51	274			04:31	57	10:44	283	16:43	70	22:46	300		4:45	66	10:51	295	16:57	73	22:57	317
5-2 zon 19:28 VM			4:19	156	10:24	255	16:27	63	22:25	280			05:14	61	11:21	292	17:22	72	23:20	311		5:30	179	11:28	297	17:37	66	23:30	323
6-2 maa			4:58	52	10:54	256	17:03	57	22:57	284			05:50	65	11:51	297	17:57	72	23:52	318		6:06	53	11:58	299	18:13	59		
7-2 din			5:34	48	11:25	258	17:36	51	23:29	287			06:23	64	12:21	300	18:31	69		0:02	328	6:40	47	12:28	302	18:47	52		
8-2 woe			6:07	43	11:57	260	18:07	46			00:25	321	06:55	58	12:54	300	19:02	65		0:34	332	7:14	41	13:00	304	19:21	46		
9-2 don	0:00	289	6:39	41	12:28	260	18:37	44			00:57	318	07:26	52	13:28	295	19:31	61		1:06	335	7:47	38	13:32	305	19:53	42		
10-2 vry	0:31	289	7:08	42	12:58	259	19:06	44			01:28	314	07:54	48	13:59	288	19:58	57		1:38	334	8:19	38	14:02	304	20:23	42		

Referentievlak :LAT			Huibertgat LAT=NAP+167				53.5667° N, 6.4000° O 53°34'012 / 6°24'0						Borkum Fischerbalje LAT=NAP+167				53.5575° N, 6.7478° O						Eemshaven LAT=NAP+192		53.4500° N, 6.8333° O												
datum	dag	maanstand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm			
11-2	zat		1:04	286	7:33	45	13:29	256	19:36	45					01:58	308	08:22	48	14:26	282	20:27	55					2:10	332	8:48	41	14:31	301	20:54	43			
12-2	zon		1:39	282	8:00	48	14:00	254	20:09	48					02:30	304	08:51	51	14:56	280	21:00	56					2:43	328	9:18	45	15:02	299	21:28	44			
13-2	maa	17:01 LK	2:15	277	8:35	53	14:34	251	20:51	54					03:08	299	09:26	58	15:33	279	21:42	63					3:20	322	9:53	49	15:37	297	22:10	49			
14-2	din		2:55	269	9:21	61	15:15	249	21:47	62					03:53	293	10:10	69	16:20	278	22:34	74					4:03	314	10:37	58	16:22	294	23:01	59			
15-2	woe		3:49	259	10:22	73	16:18	246	23:02	71					04:48	285	11:05	81	17:19	275	23:39	84					4:58	302	11:34	72	17:28	289					
16-2	don		5:09	249	11:44	81	17:56	248							05:56	275	12:19	90	18:40	273								0:08	71	6:16	290	12:49	83	18:59	290		
17-2	vry				0:33	70	6:52	248	13:11	77	19:27	261					01:06	84	07:30	271	13:53	83	20:16	281				1:35	74	7:55	289	14:15	82	20:28	302		
18-2	zat				1:56	58	8:19	257	14:24	66	20:39	278					02:38	66	09:04	278	15:09	66	21:32	297				3:01	63	9:21	298	15:34	72	21:44	320		
19-2	zon				3:14	44	9:26	266	15:35	56	21:39	292					03:58	43	10:16	288	16:21	49	22:31	311				4:25	45	10:29	309	16:49	58	22:45	335		
20-2	maa	08:06 NM			4:27	154	10:21	272	16:41	44	22:31	301					05:11	22	11:14	295	17:26	35	23:22	321				5:30	176	11:27	315	17:47	42	23:37	346		
21-2	din				5:22	18	11:09	273	17:33	34	23:19	307					06:06	8	12:05	297	18:18	25						6:21	12	12:17	317	18:35	29				
22-2	woe				6:08	12	11:54	273	18:17	25					00:09	327	06:53	5	12:50	294	19:04	21					0:25	351	7:06	5	13:03	317	19:19	20			
23-2	don		0:03	309	6:49	12	12:35	271	18:57	20					00:53	330	07:35	11	13:30	290	19:44	21					1:09	353	7:48	4	13:45	314	19:59	14			
24-2	vry		0:46	306	7:26	17	13:15	268	19:33	20					01:35	328	08:13	21	14:05	286	20:20	22					1:52	350	8:26	10	14:23	311	20:36	14			
25-2	zat		1:28	298	7:59	27	13:53	262	20:06	25					02:14	320	08:47	31	14:39	281	20:54	25					2:32	341	9:02	22	14:59	305	21:11	21			
26-2	zon		2:08	285	8:29	41	14:29	255	20:40	36					02:54	307	09:17	39	15:14	275	21:26	30					3:11	328	9:35	38	15:33	298	21:45	34			
27-2	maa	09:06 EK	2:46	268	9:01	56	15:05	247	21:17	52					03:36	289	09:48	48	15:54	268	22:04	39					3:49	310	10:07	56	16:09	290	22:21	51			
28-2	din		3:26	250	9:38	73	15:51	239	22:03	69					04:24	271	10:30	62	16:43	260	22:57	54					4:30	292	10:43	75	16:56	282	23:06	71			
1-3	woe		4:21	234	10:28	90	16:55	235	23:09	85					05:22	256	11:28	81	17:43	255							5:26	275	11:32	94	17:58	277					
2-3	don		5:36	225	11:49	100	18:11	237									00:09	71	06:33	249	12:45	97	18:57	258				0:13	90	6:39	263	12:56	108	19:11	277		
3-3	vry				0:49	86	7:15	226	13:28	92	19:35	247					01:33	81	08:20	256	14:13	99	20:37	275				1:52	93	8:16	264	14:29	101	20:38	287		
4-3	zat				2:09	73	8:40	237	14:34	76	20:46	261					03:06	78	09:34	275	15:28	89	21:41	297				3:14	79	9:37	277	15:38	84	21:47	303		
5-3	zon				3:10	57	9:29	248	15:26	63	21:32	271					04:06	70	10:23	289	16:18	79	22:23	311				4:17	61	10:28	289	16:32	68	22:32	315		
6-3	maa				3:57	46	10:06	254	16:10	53	22:08	278					04:49	65	10:58	295	16:59	70	22:56	316				5:03	48	11:06	297	17:15	56	23:08	322		
7-3	din	13:40 VM			4:38	155	10:37	258	16:48	46	22:41	282					05:25	58	11:26	296	17:35	61	23:28	315				5:41	177	11:39	302	17:53	46	23:42	328		
8-3	woe				5:14	34	11:07	261	17:23	40	23:11	284					05:59	49	11:55	296	18:09	51						6:16	31	12:10	306	18:28	38				
9-3	don				5:48	30	11:36	263	17:55	36	23:38	285			00:00	312	06:31	38	12:28																		

Referentievlak :LAT			Huibertgat LAT=NAP+167				53.5667° N, 6.4000° O 53°34'012 / 6°24'0				Borkum Fischerbalje LAT=NAP+167				53.5575° N, 6.7478° O				Eemshaven LAT=NAP+192				53.4500° N, 6.8333° O									
datum	dag	maanstand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm				
5-4	woe				5:06	31	11:10	260	17:21	42	23:17	279			05:52	40	11:53	292	18:05	51	23:59	307			6:07	29	12:12	305	18:24	40		
6-4	don	06:34 VM			5:45	153	11:43	263	17:58	36	23:48	280			06:27	30	12:27	292	18:41	40			0:17	326	6:46	22	12:47	310	19:02	32		
7-4	vry				6:21	25	12:12	264	18:33	32			00:34	303	07:02	20	13:02	294	19:15	32			0:52	327	7:23	18	13:20	311	19:39	26		
8-4	zat		0:15	279	6:53	26	12:35	265	19:05	29	01:09	301	07:35	20	13:36	295	19:48	31			1:24	327	7:59	18	13:47	311	20:14	24				
9-4	zon		0:44	278	7:21	30	13:02	267	19:35	29	01:44	301	08:06	30	14:07	297	20:18	34			1:52	324	8:32	22	14:08	311	20:47	24				
10-4	maa		1:20	275	7:45	35	13:37	267	20:03	31	02:18	300	08:34	40	14:35	298	20:48	40			2:23	320	9:02	29	14:35	312	21:18	26				
11-4	din		2:00	269	8:12	40	14:16	267	20:35	34	02:54	295	09:02	50	15:07	298	21:21	47			2:59	313	9:30	36	15:11	312	21:52	29				
12-4	woe		2:44	259	8:47	49	15:00	263	21:19	42	03:35	285	09:36	60	15:48	296	22:05	54			3:43	304	10:04	45	15:56	310	22:34	37				
13-4	don	11:11 LK	3:38	246	9:34	62	15:54	257	22:20	53	04:25	271	10:22	70	16:41	289	23:02	63			4:37	290	10:49	59	16:55	303	23:30	50				
14-4	vry		4:47	234	10:41	77	17:07	253	23:46	62	05:34	258	11:25	80	17:53	282					5:48	276	11:51	77	18:12	297						
15-4	zat		6:13	229	12:14	85	18:36	256					00:24	60	07:01	254	12:59	90	19:23	284			0:49	62	7:13	270	13:17	88	19:38	299		
16-4	zon				1:24	55	7:39	236	13:49	75	19:58	268		02:09	50	08:27	264	14:34	76	20:49	298			2:23	56	8:39	276	14:52	79	21:01	311	
17-4	maa				2:43	38	8:51	247	15:04	58	21:05	281		03:23	30	09:45	280	15:44	58	21:58	315			3:43	38	9:54	289	16:09	60	22:09	325	
18-4	din				3:51	24	9:50	257	16:09	43	22:00	289		04:36	20	10:46	293	16:54	44	22:53	325			4:51	21	10:56	300	17:13	42	23:05	334	
19-4	woe				4:49	17	10:38	263	17:05	31	22:47	293		05:37	10	11:36	297	17:52	33	23:40	327			5:48	11	11:48	306	18:07	29	23:53	337	
20-4	don	06:14 NM			5:37	152	11:18	266	17:52	24	23:29	292		06:25	10	12:19	295	18:39	24					6:36	174	12:31	309	18:53	20			
21-4	vry				6:18	19	11:54	269	18:32	19			00:23	321	07:06	10	12:56	292	19:19	17			0:36	336	7:18	13	13:08	312	19:34	15		
22-4	zat		0:09	289	6:52	25	12:29	272	19:07	18	01:04	313	07:41	10	13:27	292	19:55	12			1:17	332	7:55	19	13:41	315	20:11	14				
23-4	zon		0:50	282	7:20	30	13:06	273	19:38	20	01:43	305	08:10	20	13:58	294	20:24	11			1:56	325	8:27	26	14:14	316	20:44	16				
24-4	maa		1:29	271	7:46	37	13:42	270	20:08	26	02:23	295	08:34	20	14:31	294	20:52	19			2:34	313	8:55	35	14:47	314	21:15	24				
25-4	din		2:07	256	8:16	46	14:19	265	20:41	38	03:02	285	09:02	40	15:06	294	21:23	35			3:10	299	9:23	44	15:22	309	21:47	36				
26-4	woe		2:46	241	8:46	57	14:57	257	21:17	52	03:41	277	09:35	60	15:43	292	21:59	57			3:46	284	9:53	56	16:00	302	22:21	51				
27-4	don	23:20 EK	3:29	228	9:19	69	15:43	249	21:58	66	04:22	270	10:13	80	16:26	292	22:44	81			4:27	269	10:27	69	16:45	293	23:02	67				
28-4	vry		4:22	218	10:01	81	16:39	243	22:52	78	05:12	266	10:59	110	17:20	293	23:44	100			5:18	258	11:09	84	17:42	285	23:54	81				
29-4	zat		5:24	213	11:00	93	17:44	242			06:14	266	12:02	120	18:30	296					6:23	252	12:05	98	18:50	282						
30-4	zon				0:08	83	6:36	217	12:21	97	18:58	246		00:58	100	07:27	269	13:21	127	19:50	301			1:12	88	7:38	255	13:31	104	20:05	287	
1-5	maa				1:45	72	7:53	227	14:08	85	20:15	255		02:25	90	08:42	277	14:51	108	21:02	308			2:45	75	8:55	267	15:13	90	21:17	298	
2-5	din				2:48	54	9:00	241	15:08	68	21:15	264		03:34	70	09:44	286	15:55	82	21:58	310			3:47	56	10:01	283	16:12	70	22:16	310	
3-5	woe				3:38	41	9:51	253	15:57	55	22:03	271		04:25	50	10:33	291	16:44	61	22:43	306			4:39	40	10:53	297	17:03	55	23:04	318	
4-5	don				4:23	33	10:34	260	16:42	45	22:45	274		05:09	30	11:15	294	17:28	47	23:25	301			5:27	29	11:37	306	17:49	43	23:47	322	
5-5	vry	19:34 VM			5:06	154	11:12	264	17:24	38	23:21	275		05:49	30	11:55	296	18:08	38					6:11	176	12:18	311	18:32	35			
6-5	zat				5:45	28	11:44	267	18:04	33	23:53	274	00:05	299	06:27	20	12:34	299	18:47	34			0:27	322	6:52	21	12:56	313	19:13	29		
7-5	zon				6:21	29	12:11	269	18:43	29			00:44	300	07:05	20																

Referentievlak :LAT			Huibertgat LAT=NAP+167				53.5667° N, 6.4000° O 53°34'012 / 6°24'0						Borkum Fischerbalje LAT=NAP+167				53.5575° N, 6.7478° O						Eemshaven LAT=NAP+192		53.4500° N, 6.8333° O									
datum	dag	maanstand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm				
28-5	zon		4:54	221	10:26	79	17:04	252	23:21	72					05:41	278	11:25	110	17:47	311					5:53	260	11:36	84	18:10	293				
29-5	maa		5:53	223	11:30	84	18:03	252									00:13	90	06:43	276	12:25	109	18:55	306			0:28	75	6:57	262	12:37	90	19:14	293
30-5	din				0:31	69	7:00	229	12:42	82	19:13	254					01:17	80	07:48	277	13:34	98	20:05	302			1:39	71	8:04	269	13:53	88	20:23	298
31-5	woe				1:42	60	8:06	239	13:55	74	20:22	260					02:24	60	08:49	282	14:48	82	21:06	299			2:49	60	9:08	281	15:10	78	21:26	305
1-6	don				2:41	49	9:04	249	14:58	62	21:19	266					03:26	50	09:44	288	15:50	67					3:47	47	10:06	293	16:11	64	22:22	312
2-6	vry				3:32	41	9:53	259	15:53	52	22:08	270					04:17	40	10:34	294	16:42	56	22:46	297			4:41	38	10:58	304	17:06	52	23:13	317
3-6	zat				4:20	37	10:36	266	16:44	43	22:52	272					05:04	40	11:20	300	17:30	48	23:32	298			5:31	33	11:45	311	17:58	43		
4-6	zon	05:42 VM			5:05	154	11:14	272	17:34	36	23:33	272					05:50	30	12:02	305	18:17	42			0:01	318	6:20	31	12:29	316	18:47	35		
5-6	maa				5:49	35	11:50	277	18:22	31					00:18	300	06:35	30	12:42	309	19:04	37			0:47	316	7:06	33	13:09	320	19:35	30		
6-6	din		0:16	269	6:30	37	12:28	282	19:08	27					01:06	298	07:20	40	13:21	313	19:51	32			1:31	312	7:49	35	13:46	323	20:20	26		
7-6	woe		1:02	265	7:12	39	13:12	285	19:55	26					01:54	293	08:04	40	14:03	315	20:38	30			2:17	306	8:32	39	14:26	326	21:06	24		
8-6	don		1:53	260	7:56	43	14:02	287	20:44	28					02:43	285	08:48	40	14:49	316	21:29	30			3:04	301	9:15	43	15:13	329	21:53	25		
9-6	vry		2:47	254	8:44	48	14:57	287	21:35	31					03:35	276	09:34	40	15:41	316	22:24	33			3:56	295	10:01	47	16:06	330	22:43	28		
10-6	zat	21:31 LK	3:44	248	9:38	54	15:55	285	22:31	36					04:32	270	10:28	50	16:39	316	23:25	36			4:50	290	10:52	53	17:02	329	23:37	32		
11-6	zon		4:43	244	10:38	59	16:56	282	23:32	40					05:32	268	11:30	50	17:42	316					5:48	286	11:47	58	18:02	327				
12-6	maa		5:44	241	11:41	61	17:59	279									00:27	30	06:34	269	12:38	59	18:49	315			0:37	36	6:49	284	12:50	61	19:06	324
13-6	din				0:36	41	6:46	242	12:48	60	19:05	277					01:27	30	07:38	272	13:43	58	19:55	313			1:41	38	7:53	284	13:58	61	20:12	321
14-6	woe				1:38	41	7:48	246	13:55	56	20:09	276					02:26	40	08:44	274	14:45	54	21:00	307			2:44	38	8:58	288	15:05	57	21:18	320
15-6	don				2:37	42	8:46	252	15:00	51	21:08	274					03:28	40	09:45	275	15:51	49	22:00	298			3:46	39	10:01	294	16:12	52	22:20	318
16-6	vry				3:34	44	9:38	259	16:02	47	22:01	271					04:35	30	10:38	275	17:01	39	22:54	288			4:46	42	10:57	301	17:14	47	23:15	315
17-6	zat				4:27	47	10:21	266	16:57	44	22:47	267					05:29	30	11:23	276	17:54	31	23:44	281			5:40	45	11:44	308	18:09	43		
18-6	zon	06:37 NM			5:11	156	10:58	272	17:43	42	23:28	262					06:12	30	12:02	281	18:37	29			0:04	310	6:26	49	12:23	314	18:55	42		
19-6	maa				5:46	52	11:35	277	18:20	42					00:29	281	06:48	40	12:38	290	19:14	34			0:47	305	7:05	53	12:57	319	19:34	42		
20-6	din		0:07	257	6:18	51	12:14	280	18:53	43					01:11	286	07:20	50	13:15	301	19:46	45			1:25	299	7:39	54	13:31	322	20:09	44		
21-6	woe		0:47	251	6:51	51	12:55	281	19:27	43					01:49	292	07:51	60	13:52	312	20:16	59			2:01	293	8:10	55	14:08	324	20:42	46		
22-6	don		1:28	246	7:26	51	13:37	279	20:03	46					02:26	297	08:24	70	14:29	319	20:49	72			2:37	287	8:43	55	14:46	322	21:16	50		
23-6	vry		2:09	242	8:01	53	14:18	276	20:39	50					03:03	297	08:58	80	15:04	322	21:25	80												

Referentievlak :LAT			Huibertgat LAT=NAP+167				53.5667° N, 6.4000° O 53°34'012 / 6°24'0						Borkum Fischerbalje LAT=NAP+167				53.5575° N, 6.7478° O						Eemshaven LAT=NAP+192		53.4500° N, 6.8333° O											
datum	dag	maanstand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm		
20-7	don		0:35	254	6:40	55	12:40	287	19:15	47					01:34	301	07:40	70	13:37	324	20:06	74					1:48	295	7:58	58	13:52	330	20:28	49		
21-7	vry		1:11	253	7:14	51	13:18	287	19:49	46					02:07	304	08:11	80	14:10	328	20:37	76					2:20	294	8:31	55	14:28	330	21:01	48		
22-7	zat		1:48	253	7:48	50	13:55	285	20:23	47					02:41	302	08:42	80	14:43	327	21:08	74					2:55	293	9:04	53	15:03	328	21:33	50		
23-7	zon		2:25	251	8:20	52	14:30	282	20:53	51					03:17	296	09:13	80	15:16	322	21:40	72					3:30	291	9:36	55	15:37	324	22:05	53		
24-7	maa		2:59	248	8:52	55	15:03	277	21:24	55					03:52	287	09:43	80	15:49	314	22:13	71					4:04	287	10:08	58	16:11	318	22:37	57		
25-7	din		3:32	244	9:28	59	15:37	272	21:58	58					04:28	279	10:18	80	16:28	305	22:50	74					4:37	284	10:43	61	16:45	314	23:13	60		
26-7	woe	00:07 EK	4:05	242	10:11	63	16:15	268	22:43	63					05:05	275	10:59	80	17:13	298	23:32	80					5:11	282	11:23	65	17:24	309	23:56	64		
27-7	don		4:43	242	11:03	69	17:01	263	23:38	68					05:50	275	11:49	90	18:04	292							5:52	281	12:13	71	18:13	303				
28-7	vry		5:37	243	12:06	74	18:04	258									00:24	80	06:45	279	12:49	99	19:06	289					0:49	70	6:52	282	13:13	78	19:21	298
29-7	zat				0:46	72	7:03	248	13:23	73	19:36	257					01:27	90	07:56	285	14:03	101	20:20	290					1:56	76	8:16	287	14:29	80	20:51	298
30-7	zon				2:02	70	8:25	260	14:40	64	21:01	263					02:43	80	09:14	296	15:25	90	21:40	294					3:11	75	9:34	300	15:48	72	22:10	305
31-7	maa				3:10	63	9:30	275	15:48	53	22:10	270					03:55	70	10:25	309	16:38	72	22:56	299					4:21	69	10:42	316	17:03	60	23:18	312
1-8	din	20:32 VM			4:10	156	10:29	289	16:59	43	23:10	274					05:00	60	11:26	319	17:49	52							5:30	179	11:42	330	18:15	45		
2-8	woe				5:14	52	11:22	299	18:06	33			00:03	301	06:06	50	12:19	325	18:52	34					0:18	317	6:35	54	12:36	341	19:13	31				
3-8	don		0:03	276	6:17	47	12:13	306	19:01	24			00:59	300	07:06	40	13:08	330	19:46	21					1:13	318	7:28	45	13:25	348	20:03	19				
4-8	vry		0:52	275	7:10	40	13:01	310	19:48	18			01:50	298	07:57	30	13:54	335	20:34	17					2:04	317	8:16	36	14:12	352	20:49	13				
5-8	zat		1:38	273	7:56	34	13:47	312	20:31	18			02:36	294	08:43	30	14:39	339	21:19	21					2:52	314	9:00	30	14:58	354	21:32	13				
6-8	zon		2:23	270	8:38	32	14:33	309	21:11	24			03:20	292	09:26	30	15:24	340	22:02	30					3:36	311	9:42	28	15:43	351	22:14	20				
7-8	maa		3:07	266	9:18	34	15:18	301	21:50	35			04:02	289	10:08	30	16:10	335	22:43	41					4:19	306	10:23	31	16:28	343	22:54	33				
8-8	din	12:28 LK	3:50	260	9:57	41	16:04	289	22:28	50			04:46	285	10:49	40	16:58	322	23:24	53					5:01	300	11:03	40	17:14	331	23:35	50				
9-8	woe		4:36	253	10:38	52	16:53	275	23:10	65			05:31	278	11:35	50	17:50	304							5:45	294	11:46	53	18:03	316						
10-8	don		5:27	248	11:26	66	17:52	260									00:09	60	06:20	272	12:31	62	18:48	286					0:20	68	6:34	288	12:36	70	19:02	302
11-8	vry				0:03	79	6:28	247	12:32	77	19:04	251					01:04	70	07:17	267	13:36	67	19:58	274					1:16	84	7:32	286	13:45	83	20:14	291
12-8	zat				1:16	87	7:36	251	13:56	79	20:30	250					02:10	70	08:31	270	14:50	67	21:22	276					2:29	93	8:45	290	15:07	85	21:39	291
13-8	zon				2:31	85	8:52	261	15:13	72	21:46	255					03:26	70	09:51	285	16:17	62	22:31	288					3:43	90	10:06	302	16:28	76	22:49	297
14-8	maa				3:37	77	9:57	273	16:21	62	22:39	260					04:41	70	10:50	305	17:18	57	23:27	301					4:52	81	11:06	316	17:34	63	23:43	303
15-8	din				4:33	69	10:44	282																												

Referentievlak :LAT			Huibertgat		53.5667° N, 6.4000° O				Borkum Fischerbalje		53.5575° N, 6.7478° O				Eemshaven		53.4500° N, 6.8333° O			
LAT=NAP+167			53°34'012 / 6°24'0		LAT=NAP+167				LAT=NAP+167		LAT=NAP+192				LAT=NAP+192		LAT=NAP+192			
datum	dag	maanstand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
11-9	maa				2:09	104	8:23	262	14:55	82	21:27	251					3:15	112	9:33	300
12-9	din				3:19	88	9:35	276	16:00	66	22:19	262					4:27	94	10:40	317
13-9	woe				4:14	74	10:22	286	16:48	56	22:58	267					5:22	78	11:27	329
14-9	don				4:59	66	10:59	291	17:27	52	23:29	269				0:02	309	6:05	68	12:03
15-9	vry	03:40 NM			5:37	157	11:30	293	18:02	50	23:56	270	00:17	313	06:23	80	12:15	338	18:47	75
16-9	zat				6:11	58	12:00	294	18:35	49			00:40	310	06:54	80	12:43	333	19:18	67
17-9	zon		0:24	271	6:43	56	12:28	293	19:06	50			01:09	310	07:25	70	13:14	330	19:47	59
18-9	maa		0:50	271	7:12	55	12:54	291	19:32	54			01:42	311	07:55	60	13:47	328	20:15	58
19-9	din		1:13	271	7:37	56	13:22	288	19:53	58			02:16	310	08:23	60	14:19	323	20:41	67
20-9	woe		1:40	270	8:00	58	13:55	283	20:13	62			02:45	307	08:49	70	14:50	317	21:04	81
21-9	don		2:11	269	8:26	61	14:32	276	20:43	67			03:10	304	09:15	80	15:23	310	21:32	94
22-9	vry	21:32 EK			2:48	268	9:02	65	15:15	267			03:40	305	09:49	90	16:03	302	22:09	105
23-9	zat				3:33	265	9:53	74	16:12	255			04:25	305	10:38	100	16:59	293	23:04	116
24-9	zon				4:35	261	11:05	86	17:30	246			05:27	302	11:46	110	18:14	284		
25-9	maa		6:01	261	12:43	89	19:09	247							00:19	120	06:47	301	13:18	114
26-9	din				1:18	103	7:38	272	14:18	74	20:36	259			01:57	110	08:26	310	14:59	92
27-9	woe				2:43	88	8:55	289	15:35	55	21:43	271			03:22	90	09:48	327	16:15	68
28-9	don				3:55	72	9:56	304	16:42	41	22:37	279			04:32	80	10:48	342	17:25	51
29-9	vry	11:57 VM			4:58	157	10:47	312	17:36	34	23:22	282			05:38	60	11:39	349	18:20	42
30-9	zat				5:51	48	11:32	315	18:23	32			00:20	315	06:32	60	12:24	351	19:07	40
1-10	zon		0:03	283	6:36	41	12:15	314	19:03	36			01:02	311	07:18	50	13:06	350	19:48	42
2-10	maa		0:42	283	7:16	37	12:58	309	19:39	42			01:39	309	07:58	40	13:47	344	20:25	47
3-10	din		1:20	283	7:52	38	13:39	299	20:10	52			02:13	308	08:35	40	14:28	332	20:57	54
4-10	woe		1:57	279	8:25	44	14:19	285	20:38	64			02:48	305	09:09	40	15:09	315	21:24	66
5-10	don		2:34	274	8:57	55	14:59	268	21:08	78			03:23	300	09:40	50	15:51	296	21:51	82
6-10	vry	15:48 LK			3:11	267	9:32	70	15:42	251			04:01	294	10:14	70	16:36	279	22:27	102
7-10	zat				3:56	259	10:16	87	16:36	237			04:46	289	10:59	90	17:31	270	23:17	126
8-10	zon				4:58	254	11:15	103	17:47	229			05:46	289	12:07	120	18:43	270		
9-10	maa		6:13	254	12:52	107	19:14	232							00:33	140	07:03	297	13:39	129
10-10	din				1:32	120	7:38	262	14:25	91	20:47	245			02:11	140	08:39	315	15:10	119
11-10	woe				2:49	100	8:55	275	15:24	73	21:44	260			03:33	120	09:49	335	16:15	100
12-10	don				3:42	83	9:47	286	16:10	61	22:24	269			04:29	100	10:35	343	17:01	86
13-10	vry				4:27	72	10:27	291	16:51	55	22:57	274			05:12	90	11:11	339	17:38	76
14-10	zat	19:55 NM			5:06	157	11:02	293	17:28	54	23:27	276			05:50	80	11:41	330	18:12	68
15-10	zon				5:42	64	11:33	292	18:03	54	23:56	277	00:06	311	06:24	70	12:13	324	18:44	62
16-10	maa				6:15	62	11:59	290	18:34	56			00:39	313	06:57	60	12:46	322	19:16	59
17-10	din		0:18	277	6:46	61	12:24	288	18:59	60			01:14	316	07:30	60	13:22	322	19:46	65
18-10	woe		0:40	278	7:13	61	12:55	285	19:20	63			01:47	318	08:01	70	13:56	319	20:13	77
19-10	don		1:11	280	7:38	61	13:33	279	19:45	67			02:15	317	08:29	80	14:30	312	20:38	91
20-10	vry		1:49	280	8:07	63	14:16	271	20:19	73			02:43	316	08:57	90	15:07	303	21:08	102
21-10	zat		2:31	278	8:47	68	15:07	260	21:02	83			03:19	316	09:35	90	15:53	292	21:50	110
22-10	zon	05:29 EK			3:23	274	9:43	78	16:13	248			04:10	313	10:30	100	16:58	281	22:51	119
23-10	maa		4:31	269	11:02	89	17:34	242	23:25	110			05:17	309	11:44	100	18:21	276		
24-10	din		5:55	270	12:42	87	19:01	246							00:11	120	06:42	309	13:26	97
25-10	woe				1:05	106	7:22	280	14:06	70	20:16	258			01:50	110	08:11	320	14:48	76
26-10	don				2:26	89	8:33	294	15:15	55	21:18	269			03:06	90	09:27	335	15:57	60
27-10	vry				3:33	73	9:31	304	16:16	46	22:09	276			04:12	80	10:25	346	17:03	50
28-10	zat	22:24 VM			4:33	157	10:20	309	17:09	44	22:52	281			05:18	70	11:15	349	17:57	46
29-10	zon				4:25	54	10:04	309	16:54	47	22:30	284			05:11	59	10:59	345	17:42	45
30-10	maa				5:11	49	10:46	305	17:33	52	23:07	287			05:56	49	11:41	337	18:21	46
31-10	din				5:50	47	11:28	298	18:05	58	23:44	288	00:07	313	06:36	41	12:24	328	18:55	50
1-11	woe				6:24	48	12:10	287	18:32	65			00:41	313	07:11	39	13:07	317	19:23	58
2-11	don		0:22	286	6:55	54	12:50	273	19:00	72			01:17	313	07:43	47	13:49	304	19:49	73

Referentievlak :LAT			Huibertgat				53.5667° N, 6.4000° O				Borkum Fischerbalje				53.5575° N, 6.7478° O				Eemshaven				53.4500° N, 6.8333° O			
LAT=NAP+167			53°34'012 / 6°24'0				LAT=NAP+167				LAT=NAP+167				LAT=NAP+192				LAT=NAP+192				LAT=NAP+192			
datum	dag	maanstand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm
3-11	vry		1:01	282	7:28	63	13:31	257	19:32	82					01:53	310	08:13	65	14:29	292	20:19	94				
4-11	zat		1:41	275	8:05	76	14:16	243	20:07	94					02:30	308	08:47	87	15:11	284	20:56	116				
5-11	zon	09:17 LK	2:27	267	8:47	90	15:09	233	20:49	106					03:11	308	09:30	109	16:00	281	21:42	137				
6-11	maa		3:24	261	9:40	103	16:11	228	21:45	117					04:06	311	10:30	126	17:04	283	22:45	151				
7-11	din		4:29	259	10:53	108	17:21	230	23:03	122					05:17	316	11:47	131	18:17	289						
8-11	woe		5:44	261	12:28	100	18:37	240									00:06	151	06:36	323	13:10	120	19:30	298		
9-11	don				0:49	112	6:58	269	13:31	84	19:44	253					01:33	134	07:46	329	14:18	99	20:30	306		
10-11	vry				1:51	96	7:59	278	14:21	71	20:35	265					02:38	111	08:41	328	15:10	82	21:15	309		
11-11	zat				2:40	84	8:47	284	15:05	64	21:17	272					03:27	91	09:25	322	15:52	70	21:53	310		
12-11	zon				3:23	76	9:27	287	15:46	60	21:54	277					04:09	78	10:03	316	16:29	64	22:30	313		
13-11	maa	10:27 NM			4:04	70	10:03	287	16:23	59	22:25	279					04:48	70	10:40	314	17:05	61	23:07	318		
14-11	din				4:42	65	10:33	285	16:56	60	22:49	282					05:26	65	11:18	315	17:41	62	23:43	323		
15-11	woe				5:18	62	11:02	283	17:26	61	23:15	285					06:04	66	11:57	316	18:16	69			0:04	322
16-11	don				5:52	60	11:37	280	17:55	63	23:51	288	00:17	325	06:40	70	12:36	313	18:49	78					0:22	324
17-11	vry				6:25	59	12:21	274	18:28	67			00:48	326	07:14	75	13:17	305	19:20	86					0:48	327
18-11	zat		0:34	290	7:03	61	13:11	266	19:07	73			01:23	325	07:50	79	14:01	294	19:57	92					1:29	329
19-11	zon	11:50 EK	1:23	288	7:49	66	14:09	256	19:55	83			02:07	324	08:35	81	14:55	283	20:45	97					2:21	328
20-11	maa		2:22	284	8:50	74	15:15	248	20:58	94			03:03	321	09:34	82	16:01	275	21:48	102					3:24	324
21-11	din		3:29	281	10:07	80	16:26	244	22:19	101			04:11	318	10:51	81	17:16	275	23:05	104					4:33	320
22-11	woe		4:42	280	11:27	77	17:38	247	23:41	97			05:27	318	12:14	74	18:30	282							5:45	320
23-11	don		5:56	284	12:39	68	18:46	254							00:30	97	06:45	323	13:23	64	19:44	292			0:47	99
24-11	vry				0:54	86	7:04	291	13:41	60	19:47	262			01:40	87	07:56	328	14:27	58	20:48	299			2:01	88
25-11	zat				1:59	75	8:03	295	14:40	57	20:38	270			02:44	78	08:57	329	15:33	55	21:40	302			3:07	75
26-11	zon				3:01	66	8:54	296	15:34	58	21:21	277			03:51	68	09:48	324	16:29	51	22:24	301			4:09	65
27-11	maa	10:16 VM			3:57	157	9:39	294	16:21	61	21:58	283			04:49	55	10:34	317	17:15	49	23:01	302			5:04	179
28-11	din				4:45	56	10:22	290	16:59	65	22:35	288			05:36	43	11:20	310	17:54	50	23:37	306			5:51	54
29-11	woe				5:25	55	11:04	283	17:28	68	23:14	291			06:16	38	12:06	306	18:28	55					6:33	54
30-11	don				5:58	56	11:46	273	17:57	69	23:54	291	00:14	311	06:52	41	12:50	302	18:55	65			0:24	329	7:10	56
1-12	vry				6:30	59	12:28	263	18:30	72			00:52	315	07:23	55	13:30	299	19:23	81			1:01	330	7:43	61
2-12	zat		0:36	287	7:05	65	13:11	252	19:06	77			01:29	317	07:52	74	14:08	295	19:57	100			1:40	327	8:16	68
3-12	zon		1:18	282	7:43	74	13:55	243	19:41	84			02:05	320	08:26	93	14:45	293	20:32	117			2:21	321	8:52	77
4-12	maa		2:04	275	8:23	83	14:43	236	20:21	92			02:42	323	09:07	106	15:27	290	21:14	128			3:05	314	9:30	87
5-12	din	06:49 LK	2:52	269	9:09	91	15:34	232	21:08	99			03:27	324	09:56	113	16:21	287	22:05	133			3:53	307	10:14	96
6-12	woe		3:44	264	10:02	97	16:31	232	22:06	105			04:24	321	10:54	112	17:24	285	23:05	131			4:47	301	11:07	102
7-12	don		4:40	261	11:05	97	17:35	236	23:12	107			05:31	314	11:57	106	18:27	284					5:47	298	12:10	102
8-12	vry		5:47	261	12:14	91	18:42	244							00:12	123	06:41	306	13:04	96	19:26	287			0:20	114
9-12	zat				0:25	102	6:59	265	13:17	82	19:41	254			01:25	110	07:42	300	14:06	85	20:19	292			1:40	107
10-12	zon				1:33	92	7:58	271	14:10	72	20:32	265			02:29	95	08:34	297	14:56	77	21:07	300			2:46	95
11-12	maa				2:29	81	8:48	276	14:57	66	21:17	273			03:20	83	09:20	299	15:41	71	21:52	309			3:42	82
12-12	din				3:20	71	9:32	279	15:40	62	21:54	280			04:08	75	10:05	302	16:24	67	22:35	316			4:33	72
13-12	woe	00:32 NM			4:07	157	10:11	280	16:21	60	22:26	286			04:54	69	10:51	305	17:08	66	23:16	321			5:22	180
14-12	don				4:53	57	10:50	279	17:00	59	22:59	291			05:41	64	11:39	305	17:53	68	23:54	323			6:09	57
15-12	vry				5:39	53	11:32	276	17:40	59	23:40	296			06:28	61	12:27	299	18:36	71			0:13	331	6:55	52
16-12	zat				6:25	51	12:21	271	18:22	61			00:32	323	07:15	59	13:14	291	19:19	73			0:48	335	7:40	50
17-12	zon		0:29	298	7:13	51	13:14	265	19:08	65			01:15	323	08:01	57	14:03	282	20:03	74			1:34	338	8:26	49
18-12	maa		1:22	298	8:05	54	14:09	259	20:02	71			02:04	322	08:51	56	14:56	275	20:52	74			2:27	338	9:14	51
19-12	din	09:39 EK	2:19	295	8:59	59	15:05	252	21:01	76			02:59	322	09:46	57	15:54	272	21:48	76			3:23	336	10:05	56
20-12	woe		3:16	291	9:56	64	16:04	247	22:02	81			04:00	320	10:46	59	16:57	271	22:52	79			4:20	332	11:00	61
21-12	don		4:17	286	10:57	67	17:06	245	23:07	82			05:06	316	11:50	62	18:01	271					5:21	327	12:01	66
22-12	vry		5:23	281	12:00	69	18:10	248							00:02	81	06:14	310	12:52	64	19:06	271			0:14	83
23-12	zat				0:15	80	6:32	279	13:02	69	19:11	254			01:09	80	07:22	302	13:53	65	20:13	272			1:24	82
24-12	zon				1:23	75	7:36	279	14:02	69	20:08	262			02:13	74	08:29	294	14:59	62	21:10	274			2:32	77
25-12	maa				2:28	69	8:36	278	14:59	69	20:58	271			03:27	63	09:29	288	16:03	57	21:59	279			3:41	70

Referentievlak :LAT			Huibertgat LAT=NAP+167			53.5667° N, 6.4000° O 53°34'012 / 6°24'0						Borkum Fischerbalje LAT=NAP+167			53.5575° N, 6.7478° O						Eemshaven LAT=NAP+192			53.4500° N, 6.8333° O								
datum	dag	maanstand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm				
26-12	din				3:32	63	9:29	276	15:51	69	21:40	279			04:32	48	10:22	285	16:54	53	22:42	287			4:43	63	10:41	317	17:05	70	23:00	319
27-12	woe				4:26	157	10:15	273	16:33	70	22:17	285			05:21	39	11:11	287	17:36	54	23:22	296			5:36	179	11:29	314	17:49	71	23:37	325
28-12	don	01:33 VM			5:10	58	10:55	268	17:06	69	22:56	290			06:03	40	11:56	291	18:13	62					6:20	56	12:09	309	18:27	72		
29-12	vry				5:44	58	11:34	263	17:37	67	23:37	291	00:00	305	06:40	51	12:37	295	18:44	74			0:11	330	6:58	57	12:45	303	18:59	71		
30-12	zat				6:16	58	12:13	258	18:12	64			00:37	313	07:12	66	13:13	297	19:12	87			0:46	332	7:31	59	13:20	298	19:30	69		
31-12	zon		0:19	291	6:50	59	12:53	253	18:49	270			01:12	319	07:41	80	13:46	297	19:42	98			1:25	332	8:03	61	13:55	293	20:03	315		