

Getijdengegevens 2019

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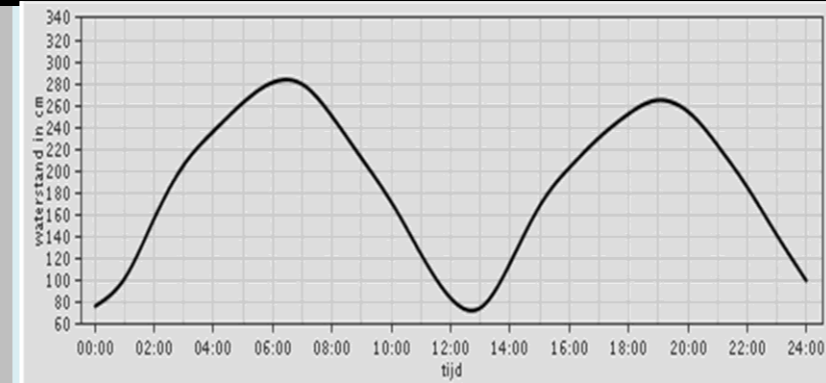
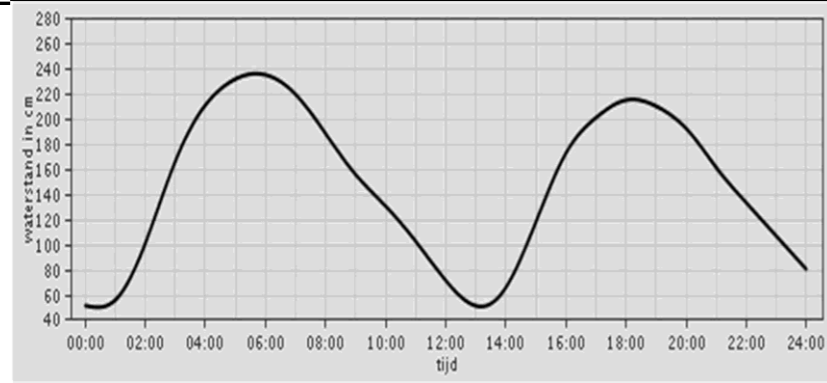
bron: getij.rws.nl

Referentievlak :LAT

datum dag maan stand

Harlingen		53.1667° N, 5.4167° O					
LAT=NAP -134							
HW	cm	lw	cm	HW	cm	lw	cm

Nes, Ameland		53.4333° N, 5.7833° O					
LAT=NAP-172							
HW	cm	lw	cm	HW	cm	lw	cm



datum dag maan stand

1-1	din			5:10	240	12:34	48	17:44	208	0:56	51	5:40	287	12:05	71	18:35	259	0:35	81				
2-1	woe					0:56	51	6:09	238	13:40	48	18:49	216	0:35	81	6:56	284	13:05	71	19:41	267		
3-1	don					2:06	49	7:10	238	14:45	47	19:49	227	1:40	75	8:00	284	14:15	68	20:40	277		
4-1	vry					3:15	46	8:20	237	15:41	46	20:45	238	2:46	67	8:55	284	15:06	65	21:26	285		
5-1	zat					4:11	45	9:15	236	16:22	48	21:28	247	3:36	61	9:45	282	15:52	64	22:00	292		
6-1	zon	2:28	NM			4:55	49	9:50	233	17:01	50	22:05	254	4:20	60	10:25	278	16:35	65	22:35	296		
7-1	maa					5:32	52	10:25	230	17:36	50	22:40	258	5:01	61	11:00	274	17:05	65	23:11	300		
8-1	din					6:08	54	10:54	227	18:05	46	23:15	259	5:36	63	11:30	270	17:38	63	23:34	301		
9-1	woe					6:40	54	11:30	224	18:36	43	23:51	258	6:06	65	11:54	267	18:06	62	0:15	300		
10-1	don					7:10	54	11:59	220	19:05	41	0:25	253	6:36	67	12:30	264	18:41	61	0:45	297		
11-1	vry			0:25	253	7:36	55	12:29	215	19:35	40	0:55	247	0:45	297	7:06	70	13:05	260	19:13	63		
12-1	zat			0:55	247	8:11	55	12:44	211	20:11	39			1:20	293	7:41	72	13:46	256	19:45	64		
13-1	zon			1:14	243	8:41	54	13:10	210	20:44	40			1:55	288	8:16	74	14:15	253	20:25	67		
14-1	maa	7:45	EK	1:45	241	9:20	54	13:55	211	21:36	43			2:46	283	8:56	76	15:03	250	21:13	72		
15-1	din			2:45	240	10:10	56	14:50	212	22:30	48			3:25	279	9:46	79	15:54	248	22:06	79		
16-1	woe			3:46	239	11:16	59	15:54	213	23:36	54			4:29	274	10:56	82	17:24	249	23:16	84		
17-1	don			4:45	238	12:36	58	17:14	216	1:03	54			5:55	275	12:10	78	18:41	259	0:36	79		
18-1	vry					1:03	54	5:54	237	13:46	51	18:48	223			0:36	79	7:05	281	13:16	69	19:45	273
19-1	zat					2:23	47	7:28	237	14:56	44	20:11	235			1:46	67	8:12	288	14:20	59	20:44	287
20-1	zon					3:26	39	8:55	239	15:55	40	21:15	245			2:55	55	9:10	293	15:25	53	21:36	297
21-1	maa	6:16	VM			4:31	34	9:56	239	16:51	38	22:05	252			3:52	44	10:06	293	16:16	48	22:26	304
22-1	din					5:27	31	10:45	235	17:41	37	22:56	257			4:49	35	10:55	290	17:06	43	23:15	309
23-1	woe					6:19	27	11:35	230	18:29	33	23:40	261			5:38	29	11:50	286	17:56	40	0:05	312
24-1	don					7:05	24	12:24	225	19:13	28	0:26	263			6:26	24	12:41	282	18:38	36	0:48	314
25-1	vry			0:26	263	7:49	22	13:08	219	19:56	24			0:05	312	7:10	24	13:26	277	19:22	35		
26-1	zat			1:16	261	8:32	23	13:50	213	20:36	21			0:48	314	7:56	28	14:10	272	20:05	39		
27-1	zon	22:10	LK	1:58	255	9:12	28	14:25	208	21:21	25			1:35	312	8:40	39	14:56	265	20:51	47		
28-1	maa			2:45	246	9:56	37	14:50	204	22:06	33			2:25	306	9:27	53	15:45	258	21:36	60		
29-1	din			3:25	236	10:45	46	15:34	203	23:06	44			3:04	296	10:16	68	16:38	252	22:36	74		
30-1	woe			4:19	226	11:46	55	16:44	205	0:10	52			4:00	284	11:18	80	17:38	250	23:50	82		
31-1	don					0:10	52	5:25	220	12:56	58	17:54	212			6:18	263	12:35	83	19:05	256	1:15	80
1-2	vry					1:36	53	6:34	218	14:06	53	19:04	223			1:15	80	7:38	263	13:46	78	20:12	268
2-2	zat					2:51	46	7:59	219	15:06	45	20:06	235			2:21	69	8:41	268	14:45	69	21:00	281
3-2	zon					3:48	40	8:50	222	15:56	41	21:10	245			3:19	59	9:32	270	15:32	62	21:40	289
4-2	maa	22:04	NM			4:36	41	9:43	222	16:46	41	21:55	250			4:00	55	10:15	269	16:16	60	22:14	293
5-2	din					5:16	45	10:20	220	17:16	41	22:31	253			4:45	55	10:45	267	16:48	57	22:56	296
6-2	woe					5:46	47	10:40	220	17:51	38	23:01	255			5:16	55	11:15	267	17:21	53	23:24	299
7-2	don					6:21	45	11:15	222	18:20	34	23:30	256			5:48	53	11:40	268	17:51	49	23:56	300
8-2	vry					6:55	43	11:48	222	18:55	31	0:05	254			6:20	52	12:15	268	18:21	46	0:35	298
9-2	zat			0:05	254	7:25	42	12:20	219	19:21	29	0:35	248			6:51	53	12:45	266	18:55	46		
10-2	zon			0:35	248	7:55	43	12:48	214	19:55	29			1:00	295	7:20	55	13:15	263	19:22	46		

Referentievlak :LAT				Harlingen LAT=NAP -134 53.1667° N, 5.4167° O						Nes, Ameland LAT=NAP-172 53.4333° N, 5.7833° O													
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm						
11-2	maa	23:26	EK	1:16	241	8:21	43	13:09	211	20:35	30	1:34	290	7:54	57	13:45	260	19:56	48				
12-2	din			1:35	237	8:50	44	13:24	214	21:10	32	2:11	284	8:26	59	14:25	257	20:41	52				
13-2	woe			2:10	235	9:41	47	14:05	217	22:01	38	2:56	277	9:15	65	15:10	253	21:35	61				
14-2	don			2:54	232	10:31	53	15:10	216	22:55	46	3:45	269	10:10	74	16:01	249	22:35	71				
15-2	vry			4:10	225	11:35	59	16:40	214	0:20	49	5:09	262	11:26	81	17:58	252	0:00	74				
16-2	zat					0:20	49	5:27	220	13:10	55			0:00	74	6:35	265	12:46	76	19:15	266		
17-2	zon					1:50	42	7:15	222	14:35	46			1:25	64	7:45	273	14:00	64	20:15	282		
18-2	maa					3:11	32	8:46	228	15:38	37			2:36	49	8:47	280	15:06	53	21:16	295		
19-2	din	16:53	VM			4:21	24	9:46	231	16:36	32			3:41	35	9:56	284	16:01	43	22:06	304		
20-2	woe					5:15	19	10:40	230	17:26	26			4:33	23	10:50	285	16:51	34	22:56	310		
21-2	don					6:03	15	11:30	227	18:12	20			5:23	15	11:40	284	17:36	25	23:45	313		
22-2	vry					6:48	13	12:05	223	18:59	13			6:09	12	12:26	282	18:21	20	0:26	313		
23-2	zat			0:15	262	7:30	13	12:45	220	19:38	8	0:54	258	6:50	13	13:06	279	19:02	18				
24-2	zon			0:54	258	8:08	16	13:25	216	20:16	8			1:10	309	7:32	20	13:46	274	19:42	22		
25-2	maa			1:36	248	8:49	24	13:44	212	20:56	16			1:56	299	8:12	33	14:20	268	20:22	33		
26-2	din	12:28	LK	2:16	235	9:21	35	13:54	210	21:38	27			2:34	285	8:51	50	15:06	260	21:03	49		
27-2	woe			2:40	222	10:00	46	14:38	208	22:22	41			3:25	269	9:35	69	15:50	253	21:55	68		
28-2	don			3:24	210	10:45	57	15:44	206	23:26	53			4:25	253	10:30	86	16:47	247	23:05	84		
1-3	vry			4:39	200	11:55	63	17:20	208	0:55	57			5:28	242	11:50	94	18:09	248	0:35	85		
2-3	zat					0:55	57	5:45	198	13:25	58			0:35	85	7:16	243	13:16	87	19:38	260		
3-3	zon					2:15	47	7:18	203	14:41	44			1:56	72	8:20	253	14:16	72	20:36	275		
4-3	maa					3:25	35	8:50	210	15:35	34			2:55	57	9:10	261	15:10	60	21:20	285		
5-3	din					4:16	31	9:30	214	16:21	31			3:41	49	9:54	264	15:51	53	22:00	290		
6-3	woe	17:04	NM			4:51	32	10:00	215	17:01	31			4:18	46	10:25	265	16:26	49	22:30	292		
7-3	don					5:25	34	10:30	216	17:36	30			4:52	44	10:55	267	16:56	43	23:04	295		
8-3	vry					5:56	33	10:55	220	18:05	26			5:25	41	11:25	270	17:30	38	23:30	297		
9-3	zat					6:36	30	11:30	223	18:41	22			5:56	37	11:55	272	18:03	34	0:15	295		
10-3	zon					7:06	29	12:05	222	19:10	21	0:20	245	6:28	38	12:28	270	18:33	33	0:40	292		
11-3	maa			0:20	245	7:36	32	12:35	217	19:41	22	0:56	236	6:56	41	12:50	268	19:05	34				
12-3	din			0:56	236	7:56	35	13:01	212	20:10	24			1:05	286	7:25	45	13:20	265	19:36	36		
13-3	woe			1:15	227	8:31	37	13:03	213	20:51	27			1:46	278	8:00	49	14:00	262	20:16	41		
14-3	don	11:27	EK	1:50	222	9:06	41	13:45	217	21:36	33			2:25	269	8:45	58	14:38	257	21:06	51		
15-3	vry			2:32	215	9:55	48	14:45	215	22:36	40			3:25	258	9:36	71	15:40	252	22:15	64		
16-3	zat			3:49	205	11:05	56	16:08	211	0:06	44			4:40	249	10:52	83	17:20	252	23:40	69		
17-3	zon					0:06	44	5:30	201	12:46	56	18:00	217	6:15	251	12:26	81	18:45	264	1:06	58	7:35	260
18-3	maa					1:36	35	7:20	208	14:06	44	19:29	232	1:06	58	7:35	260	13:40	66	19:56	280		
19-3	din					2:56	22	8:25	219	15:21	32	20:46	246	2:20	40	8:40	270	14:46	51	20:56	293		
20-3	woe					4:03	12	9:25	224	16:21	24	21:36	254	3:25	25	9:34	276	15:43	37	21:50	302		
21-3	don	2:43	VM			4:56	9	10:21	225	17:11	18	22:26	257	4:16	14	10:36	279	16:35	27	22:36	306		
22-3	vry					5:45	9	11:06	224	17:55	11	23:10	258	5:05	10	11:20	281	17:18	18	23:26	307		
23-3	zat					6:26	9	11:45	223	18:41	6	23:55	255	5:46	8	12:06	281	18:00	12	0:06	305		
24-3	zon					7:06	12	12:20	223	19:18	2	0:35	248	0:06	305	6:26	12	12:40	280	18:38	11	0:55	298
25-3	maa			0:35	248	7:40	16	12:45	221	19:56	4			0:55	298	7:05	21	13:16	276	19:16	16		
26-3	din			1:11	236	8:16	24	13:05	218	20:31	14			1:25	286	7:40	34	13:45	271	19:56	29		
27-3	woe			1:45	220	8:43	33	13:34	216	21:06	27			2:05	270	8:12	50	14:26	264	20:30	45		
28-3	don	5:10	LK	2:10	206	9:11	42	14:11	213	21:46	40			2:51	254	8:51	67	15:05	256	21:16	65		
29-3	vry			2:44	194	9:45	51	15:04	208	22:30	51			3:40	238	9:35	85	16:00	249	22:20	84		
30-3	zat			3:54	184	10:37	60	16:39	205	23:47	58			4:40	227	10:44	99	17:14	246	23:54	89		
31-3	zon			6:18	182	13:32	62	19:09	212	2:35	49			7:24	227	13:35	94	19:49	254	2:20	75		
1-4	maa					2:35	49	7:44	190	15:01	48	20:18	224	2:20	75	8:50	240	14:46	77	21:00	269		
2-4	din					3:46	34	9:12	201	16:05	34	21:28	234	3:20	58	9:46	252	15:36	62	21:50	280		
3-4	woe					4:36	25	9:54	209	16:51	27	22:05	239	4:05	47	10:25	260	16:20	51	22:24	285		
4-4	don					5:21	22	10:40	213	17:26	26	22:45	240	4:46	41	10:54	265	16:58	44	23:00	289		
5-4	vry	10:50	NM			5:56	23	11:15	215	18:09	24	23:20	241	5:21	36	11:30	270	17:35	38	23:35	291		
6-4	zat					6:32	21	11:45	219	18:46	21	23:51	243	5:57	31	12:06	274	18:09	31	0:16	292		

Referentievlak :LAT				Harlingen LAT=NAP -134 53.1667° N, 5.4167° O						Nes, Ameland LAT=NAP-172 53.4333° N, 5.7833° O									
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm		
1-6	zat					3:46	21	9:15	210	16:11	31	21:30	232						
2-6	zon					4:40	16	10:08	217	17:01	26	22:15	233						
3-6	maa	12:02	NM			5:26	16	10:49	223	17:46	23	23:05	232						
4-6	din					6:11	17	11:31	227	18:36	21	23:45	229						
5-6	woe					6:53	20	12:00	231	19:21	20	0:35	223	0:10	282	6:18	30		
6-6	don				0:35	223	7:31	24	12:45	234	20:05	21	0:50	276	7:01	34	13:12	285	
7-6	vry				1:15	215	8:11	27	13:25	235	20:45	22	1:35	268	7:41	39	13:45	286	
8-6	zat				2:08	205	8:51	28	14:05	234	21:31	22	2:26	260	8:25	45	14:36	286	
9-6	zon				2:54	196	9:35	28	15:05	233	22:21	22	3:15	253	9:11	51	15:26	285	
10-6	maa	7:59	EK		4:00	189	10:26	29	16:01	232	23:16	22	4:10	248	10:05	57	16:26	283	
11-6	din				5:08	186	11:26	31	17:10	232	0:20	20	5:20	245	11:05	62	17:25	281	
12-6	woe						0:20	20	6:04	189	12:36	32	6:25	245	12:15	64	18:35	281	
13-6	don						1:30	18	7:15	195	13:50	30			1:05	42	7:24	249	
14-6	vry						2:45	17	8:10	203	15:06	28			2:05	39	8:41	256	
15-6	zat						3:45	17	8:59	213	16:10	25			3:11	37	9:35	265	
16-6	zon						4:41	20	9:44	222	17:06	25			4:06	36	10:25	273	
17-6	maa	10:31	VM				5:31	25	10:35	231	17:56	27			4:56	37	11:10	280	
18-6	din						6:11	29	11:22	238	18:41	29			5:36	39	11:54	285	
19-6	woe						6:46	31	11:58	243	19:16	31	0:15	270	6:18	42	12:25	289	
20-6	don				0:15	217	7:16	29	12:30	246	19:51	32	0:50	264	6:55	45	12:55	290	
21-6	vry				0:55	209	7:46	27	13:10	244	20:26	36	1:20	256	7:26	47	13:36	289	
22-6	zat				1:25	201	8:21	27	13:35	238	20:56	40	1:55	249	7:55	50	14:14	285	
23-6	zon				1:50	193	8:51	29	14:06	231	21:24	44	2:35	242	8:26	55	14:45	279	
24-6	maa				2:17	186	9:26	31	14:38	225	22:05	45	3:10	237	9:05	61	15:30	273	
25-6	din	11:46	LK		2:48	183	10:05	33	15:20	221	22:40	45	3:50	233	9:45	68	16:10	267	
26-6	woe				3:30	183	10:50	36	16:11	220	23:36	46	4:50	230	10:26	75	17:15	262	
27-6	don				4:34	185	11:40	42	17:09	222	0:34	45	5:48	231	11:25	82	18:18	261	
28-6	vry						0:34	45	5:48	190	12:50	46			0:25	75	7:05	238	
29-6	zat						1:56	39	7:08	199	14:16	45			1:36	66	8:05	250	
30-6	zon						3:00	30	8:18	210	15:26	38			2:35	54	9:05	263	
1-7	maa						4:01	24	9:25	221	16:29	31			3:30	45	9:56	275	
2-7	din	21:16	NM				4:55	22	10:26	229	17:26	28			4:22	39	10:46	284	
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5-7	vry				0:20	222	7:21	27	12:30	245	19:56	22		0:44	277	6:46	36	13:00	297
6-7	zat				1:10	216	8:03	26	13:15	248	20:41	20	1:30	272	7:31	37	13:45	299	
7-7	zon				2:06	209	8:46	24	14:05	249	21:26	19	2:20	267	8:16	37	14:24	300	
8-7	maa				2:55	203	9:31	21	14:55	248	22:12	18	3:16	262	9:02	40	15:14	299	
9-7	din	12:55	EK		3:37	197	10:16	21	15:45	244	23:06	21	4:04	258	9:50	45	16:10	296	
10-7	woe				4:40	193	11:14	24	16:37	239	23:56	25	4:56	254	10:45	53	17:04	289	
11-7	don				5:24	193	12:11	29	17:40	235	0:56	30	5:56	251	11:46	61	18:10	282	
12-7	vry						0:56	30	6:20	197	13:16	35			0:25	53	7:02	251	
13-7	zat						2:05	32	7:22	205	14:30	36			1:36	56	8:05	257	
14-7	zon						3:15	32	8:18	216	15:46	34			2:45	55	9:11	267	
15-7	maa						4:15	31	9:20	228	16:48	31			3:46	51	10:06	278	
16-7	din	23:38	VM				5:06	32	10:05	239	17:36	33			4:36	49	10:54	286	
17-7	woe						5:51	34	10:55	246	18:20	37			5:20	49	11:34	291	
18-7	don						6:26	36	11:38	250	19:00	41	0:00	268	6:00	50	12:05	294	
19-7	vry				0:00	215	7:01	34	12:04	252	19:35	43	0:35	263	6:36	51	12:41	296	
20-7	zat				0:27	212	7:31	31	12:45	252	20:06	43	1:05	259	7:05	50	13:16	296	
21-7	zon				1:05	209	8:05	29	13:25	248	20:36	43	1:35	256	7:36	50	13:44	293	
22-7	maa				1:30	205	8:35	29	13:58	241	21:06	45	2:10	253	8:11	52	14:26	288	
23-7	din				1:54	200	9:01	30	14:25	235	21:36	46	2:45	249	8:40	56	14:55	282	
24-7	woe				2:18	197	9:36	32	14:55	231	22:06	46	3:26	245	9:13	60	15:35	276	
25-7	don	3:18	LK		2:35	199	10:16	34	15:25	231	22:51	46	3:59	242	9:53	65	16:18	270	

Referentievlak :LAT				Harlingen 53.1667° N, 5.4167° O								Nes, Ameland 53.4333° N, 5.7833° O							
LAT=NAP -134				LAT=NAP-172															
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm		
26-7	vry			3:25	202	11:06	39	16:21	231	23:46	49	4:49	240	10:40	72	17:10	266		
27-7	zat			4:30	205	12:05	45	17:15	231	0:56	50	5:59	241	11:44	80	18:25	264		
28-7	zon					0:56	50	5:48	208	13:15	49			0:35	78	7:18	249		
29-7	maa					2:16	46	7:03	215	14:46	45			1:55	71	8:25	263		
30-7	din					3:26	38	8:43	227	15:56	38			2:56	61	9:26	278		
31-7	woe					4:26	33	9:55	238	17:06	32			4:01	52	10:14	290		
1-8	don	5:12	NM			5:26	31	10:45	246	18:05	29			4:56	47	11:10	299		
2-8	vry					6:17	31	11:36	252	18:56	26	0:15	225	5:46	42	12:00	305		
3-8	zat			0:15	225	7:06	29	12:26	256	19:45	22	0:36	282	6:33	37	12:45	309		
4-8	zon			1:00	221	7:53	24	13:05	260	20:31	19	1:26	280	7:19	33	13:30	312		
5-8	maa			1:56	216	8:36	18	13:55	260	21:15	19	2:08	277	8:05	31	14:16	312		
6-8	din			2:35	212	9:19	16	14:41	257	21:55	22	3:00	274	8:47	32	15:06	308		
7-8	woe	19:31	EK	3:11	207	10:00	18	15:25	249	22:35	29	3:40	269	9:31	39	15:47	300		
8-8	don			3:48	202	10:46	25	16:05	239	23:20	38	4:25	263	10:15	50	16:46	289		
9-8	vry			4:12	201	11:36	35	16:59	229	0:16	47	5:22	257	11:15	64	17:40	277		
10-8	zat					0:16	47	5:25	204	12:35	45	6:15	255	12:20	75	18:50	268		
11-8	zon					1:15	52	6:31	211	13:55	49			1:00	78	7:35	259		
12-8	maa					2:36	49	7:37	222	15:20	44			2:16	75	8:40	271		
13-8	din					3:46	42	8:50	236	16:26	37			3:25	66	9:46	284		
14-8	woe					4:45	36	9:55	247	17:25	36			4:19	58	10:30	294		
15-8	don	14:29	VM			5:31	36	10:42	253	18:06	41			5:05	56	11:16	298		
16-8	vry					6:06	39	11:20	256	18:45	47			5:40	56	11:50	300		
17-8	zat					6:40	39	11:50	257	19:16	49	0:00	220	6:15	55	12:20	301		
18-8	zon			0:00	220	7:13	36	12:29	257	19:45	47	0:26	221	6:46	53	12:50	301		
19-8	maa			0:26	221	7:45	33	12:55	256	20:15	46	1:09	267	7:16	51	13:26	299		
20-8	din			1:05	220	8:12	32	13:30	251	20:45	47	1:45	266	7:46	52	13:55	294		
21-8	woe			1:40	215	8:45	34	13:55	243	21:06	49	2:18	262	8:16	55	14:26	288		
22-8	don			1:46	212	9:16	36	14:19	237	21:36	50	2:40	259	8:45	58	15:00	282		
23-8	vry	16:56	LK	2:11	214	9:51	37	14:55	236	22:15	50	3:15	256	9:26	62	15:38	275		
24-8	zat			2:45	219	10:35	41	15:30	235	23:01	53	3:55	254	10:06	69	16:20	269		
25-8	zon			3:45	220	11:26	48	16:35	230	0:06	59	4:48	251	11:05	79	17:39	262		
26-8	maa					0:06	59	4:54	219	12:41	54	6:21	253	12:26	87	19:10	263		
27-8	din					1:25	60	6:39	222	14:12	52			1:14	89	7:52	266		
28-8	woe					2:55	52	8:12	234	15:36	43			2:30	77	9:05	283		
29-8	don					4:05	43	9:29	248	16:48	34			3:36	65	9:56	298		
30-8	vry	12:37	NM			5:06	38	10:25	258	17:48	29			4:36	54	10:46	308		
31-8	zat					6:01	34	11:15	263	18:41	26			5:29	45	11:34	314		
1-9	zon					6:51	30	12:06	266	19:26	24	0:46	228	6:16	37	12:26	318		
2-9	maa			0:46	228	7:35	23	12:50	268	20:08	24	1:11	289	7:01	32	13:10	319		
3-9	din			1:25	225	8:21	19	13:36	265	20:50	26	1:51	287	7:42	29	13:56	316		
4-9	woe			1:55	222	9:01	18	14:25	257	21:27	32	2:35	283	8:26	32	14:40	309		
5-9	don			2:32	218	9:41	23	14:55	246	22:05	43	3:10	278	9:06	41	15:26	296		
6-9	vry	5:10	EK	2:50	216	10:20	33	15:24	233	22:45	53	3:51	271	9:46	54	16:16	281		
7-9	zat			3:20	216	11:06	46	16:13	221	23:26	62	4:35	265	10:40	72	17:05	267		
8-9	zon			4:18	215	12:01	58	17:19	211	0:25	69	5:31	261	11:46	89	18:20	256		
9-9	maa					0:25	69	5:35	217	13:26	64			0:25	101	6:53	262		
10-9	din					1:58	67	7:11	227	14:56	57			1:56	96	8:15	274		
11-9	woe					3:16	54	8:25	241	16:01	44			3:00	81	9:15	289		
12-9	don					4:15	42	9:35	252	16:56	39			3:55	68	10:05	300		
13-9	vry					5:05	39	10:20	258	17:41	42			4:40	62	10:50	304		
14-9	zat	6:33	VM			5:45	42	10:59	258	18:15	49			5:16	61	11:24	304		
15-9	zon					6:21	43	11:30	259	18:46	51			5:48	59	11:56	304		
16-9	maa					6:55	42	11:55	260	19:16	49	0:11	232	6:25	57	12:26	304		
17-9	din			0:11	232	7:26	39	12:25	260	19:48	47	0:45	233	6:52	54	12:55	302		
18-9	woe			0:45	233	7:55	38	13:00	256	20:18	49	1:26	278	7:21	55	13:25	297		

Referentievlak :LAT	Harlingen 53.1667° N, 5.4167° O								Nes, Ameland 53.4333° N, 5.7833° O								
	LAT=NAP -134								LAT=NAP-172								
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
19-9	don			1:04	230	8:26	40	13:35	247	20:41	52					1:45	275
20-9	vry			1:38	225	8:50	42	13:55	239	21:06	54					2:15	271
21-9	zat			1:54	226	9:26	44	14:23	234	21:44	55					2:46	269
22-9	zon	4:41	LK	2:20	230	10:11	47	14:47	230	22:35	59					3:25	266
23-9	maa			3:14	230	11:06	54	16:00	221	23:35	66					4:14	263
24-9	din			4:24	226	12:15	60	17:34	214	0:45	70					5:38	262
25-9	woe					0:45	70	6:07	228	13:56	57	19:29	218				
26-9	don					2:20	62	7:43	241	15:22	45	20:55	229			0:46	103
27-9	vry					3:45	51	9:05	257	16:26	35	21:55	236			7:15	273
28-9	zat	20:26	NM			4:46	43	10:15	266	17:27	30	22:45	238			13:28	83
29-9	zon					5:40	38	11:01	271	18:19	31	23:36	237			14:46	65
30-9	maa					6:31	34	11:46	271	19:05	33	0:20	236			15:56	49
1-10	din			0:20	236	7:16	28	12:26	269	19:45	35	0:55	235			16:51	38
2-10	woe			0:55	235	7:58	25	13:05	263	20:23	38					16:51	38
3-10	don			1:31	234	8:39	26	13:45	252	20:56	45					17:38	32
4-10	vry			1:50	233	9:16	34	14:25	238	21:31	53					17:38	32
5-10	zat	18:47	EK			9:55	45	14:49	224	22:00	61					18:23	31
6-10	zon					10:35	57	15:29	212	22:36	68					18:23	31
7-10	maa					11:15	68	16:30	202	23:30	76					0:46	294
8-10	din					12:29	75	17:54	199	0:59	79					19:07	34
9-10	woe					0:59	79	6:35	229	14:05	69	19:17	205			19:07	34
10-10	don					2:36	67	7:55	241	15:26	55	20:37	216			1:26	293
11-10	vry					3:41	53	8:54	252	16:21	46	21:38	224			7:22	34
12-10	zat					4:31	46	9:50	257	17:05	45	22:15	229			8:01	38
13-10	zon	23:08	VM			5:12	46	10:25	258	17:40	48	22:50	231			14:16	301
14-10	maa					5:55	48	11:01	258	18:16	50	23:18	235			14:16	301
15-10	din					6:27	47	11:30	259	18:49	48	23:40	240			20:25	54
16-10	woe					7:01	44	11:55	259	19:21	48	0:10	243			20:25	54
17-10	don			0:10	243	7:31	43	12:39	255	19:46	51	0:45	241			2:35	286
18-10	vry			0:45	241	8:05	46	13:04	247	20:16	55					2:35	286
19-10	zat					8:32	48	13:40	237	20:45	56					3:16	280
20-10	zon					9:11	50	14:09	227	21:21	57					3:16	280
21-10	maa	14:39	LK			9:51	53	14:38	219	22:06	61					4:00	274
22-10	din					10:51	58	15:39	209	23:06	68					4:00	274
23-10	woe					12:04	62	17:42	204	0:25	72					6:10	266
24-10	don					0:25	72	6:09	234	13:36	56	19:25	213			6:10	266
25-10	vry					2:01	66	7:38	247	14:56	44	20:36	225			7:40	274
26-10	zat					3:16	54	8:40	261	16:05	36	21:30	234			7:40	274
27-10	zon					3:23	46	8:43	268	16:05	35	21:20	238			8:45	289
28-10	maa	4:38	NM			4:21	42	9:32	270	16:55	39	22:05	240			9:35	300
29-10	din					5:11	40	10:25	268	17:38	43	22:45	243			9:35	300
30-10	woe					5:55	37	11:00	264	18:19	46	23:20	246			15:50	66
31-10	don					6:36	34	11:40	256	18:53	48	23:55	247			15:50	66
1-11	vry					7:16	37	12:20	244	19:27	52	0:25	247			15:50	66
2-11	zat			0:25	247	7:55	44	12:55	230	19:56	57	0:45	244			19:10	246
3-11	zon			0:45	244	8:26	54	13:05	217	20:25	61					19:10	246
4-11	maa	11:23	EK			8:55	64	13:49	206	20:55	66					21:01	69
5-11	din					9:40	72	14:37	197	21:40	71					21:01	69
6-11	woe					10:40	78	16:10	193	22:35	78					21:36	86
7-11	don					12:05	77	17:30	198	0:29	78					21:36	86
8-11	vry					0:29	78	6:13	235	13:28	67	18:40	209			2:00	291
9-11	zat					1:52	67	7:14	244	14:31	55	19:37	220			2:00	291
10-11	zon					2:46	58	8:16	250	15:16	49	20:37	228			3:16	280
11-11	maa					3:35	53	8:44	253	15:56	47	21:11	235			3:16	280
12-11	din	14:34	VM			4:15	51	9:25	254	16:41	46	21:50	240			4:00	274

Referentievlak :LAT				Harlingen LAT=NAP -134 53.1667° N, 5.4167° O				Nes, Ameland LAT=NAP-172 53.4333° N, 5.7833° O															
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm						
13-11	woe					4:55	49	10:00	255	17:15	46	22:20	244	4:22	63	10:30	304	16:41	58	22:56	296		
14-11	don					5:36	47	10:25	254	17:53	47	22:55	248	5:04	60	11:06	301	17:16	58	23:30	296		
15-11	vry					6:13	46	11:16	251	18:26	51	23:18	249	5:35	59	11:42	295	17:53	62	0:02	294		
16-11	zat					6:49	48	11:56	243	18:56	54	0:06	248	0:02	294	6:13	60	12:09	287	18:26	68	0:32	293
17-11	zon			0:06	248	7:25	51	12:30	233	19:31	55	0:46	245	0:32	293	6:51	63	12:56	279	19:01	73		
18-11	maa			0:46	245	8:05	53	13:10	221	20:06	56			1:05	292	7:30	67	13:41	270	19:41	80		
19-11	din	22:11	LK	1:15	243	8:46	55	13:44	210	20:56	59			1:55	289	8:21	73	14:35	261	20:35	89		
20-11	woe			2:00	240	9:40	57	15:01	201	21:56	63			2:55	286	9:16	80	15:45	255	21:40	97		
21-11	don			3:22	237	10:56	58	16:38	200	23:05	66			4:05	285	10:30	82	17:05	255	22:55	99		
22-11	vry			4:50	241	12:16	53	17:55	208	0:34	62			5:14	289	11:46	75	18:15	262	0:10	91		
23-11	zat					0:34	62	6:05	249	13:35	45	19:05	218	0:10	91	6:36	297	12:58	64	19:25	271		
24-11	zon					1:55	55	7:10	257	14:36	41	20:06	227	1:21	79	7:35	304	14:05	57	20:25	280		
25-11	maa					2:56	49	8:16	261	15:39	41	20:51	235	2:25	69	8:36	307	14:58	52	21:14	287		
26-11	din	16:06	NM			3:57	46	8:59	261	16:26	46	21:35	242	3:25	60	9:25	307	15:51	52	22:05	293		
27-11	woe					4:49	44	9:56	259	17:11	50	22:15	249	4:13	53	10:22	304	16:36	53	22:50	298		
28-11	don					5:36	44	10:35	253	17:51	52	22:55	254	4:59	50	11:05	299	17:18	57	23:25	301		
29-11	vry					6:16	44	11:15	245	18:25	52	23:36	257	5:40	50	11:45	291	17:56	62	0:06	302		
30-11	zat					6:55	46	11:55	235	18:58	51	0:05	257	0:06	302	6:19	54	12:32	280	18:31	67	0:35	301
1-12	zon			0:05	257	7:31	50	12:28	223	19:30	52	0:35	253	0:35	301	6:55	62	13:08	268	19:00	73		
2-12	maa			0:35	253	8:06	58	12:50	213	20:05	55			1:08	296	7:32	72	13:45	257	19:36	81		
3-12	din			1:04	247	8:36	65	13:14	205	20:36	58			1:55	290	8:10	84	14:25	248	20:16	90		
4-12	woe	7:58	EK	1:38	240	9:16	70	13:58	198	21:10	61			2:44	283	8:56	96	15:10	242	20:54	100		
5-12	don			2:28	233	9:55	74	14:54	194	22:00	66			3:32	276	9:44	105	16:09	238	21:55	109		
6-12	vry			3:40	228	11:05	76	16:11	194	22:55	72			4:39	272	11:00	107	17:20	241	23:10	114		
7-12	zat			4:58	228	12:15	72	17:34	202	0:30	73			5:44	274	12:16	101	18:28	250	0:25	107		
8-12	zon					0:30	73	6:00	233	13:25	63	18:49	212	0:25	107	6:45	280	13:04	89	19:35	263		
9-12	maa					1:50	66	7:09	239	14:26	53	19:49	223	1:36	94	7:50	288	14:01	76	20:20	276		
10-12	din					2:46	58	8:03	244	15:18	46	20:35	233	2:23	81	8:36	294	14:46	67	21:05	286		
11-12	woe					3:36	52	8:49	247	16:02	43	21:14	240	3:10	71	9:23	298	15:31	60	21:50	294		
12-12	don	6:12	VM			4:25	48	9:33	248	16:48	43	22:00	245	3:52	63	10:05	299	16:16	57	22:25	298		
13-12	vry					5:15	46	10:15	247	17:31	45	22:35	250	4:41	58	10:46	296	16:56	57	23:06	300		
14-12	zat					5:57	46	10:58	243	18:06	48	23:05	254	5:21	55	11:25	291	17:36	59	23:40	301		
15-12	zon					6:41	46	11:46	237	18:45	50	23:44	255	6:05	55	12:14	284	18:16	62	0:23	301		
16-12	maa					7:21	47	12:22	228	19:25	50	0:42	254	0:23	301	6:46	56	12:45	277	18:57	66		
17-12	din			0:42	254	8:05	48	13:15	218	20:05	49			1:06	301	7:31	58	13:42	269	19:36	70		
18-12	woe			1:15	251	8:51	48	14:09	208	20:55	49			1:45	300	8:18	61	14:36	262	20:31	75		
19-12	don	5:57	LK	2:20	247	9:45	49	15:08	201	21:46	51			2:46	297	9:16	66	15:35	257	21:26	81		
20-12	vry			3:25	244	10:45	50	16:19	199	22:55	54			3:45	293	10:12	69	16:35	255	22:30	85		
21-12	zat			4:25	243	11:55	50	17:14	203	0:06	55			4:55	291	11:20	70	17:45	257	23:45	85		
22-12	zon					0:06	55	5:30	244	13:00	48	18:05	210	6:06	291	12:26	68	18:55	263	0:50	79		
23-12	maa					1:25	53	6:40	245	14:06	47	19:14	221	0:50	79	7:11	292	13:35	65	19:55	272		
24-12	din					2:35	49	7:35	247	15:11	46	20:05	232	2:01	71	8:15	293	14:32	61	20:56	282		
25-12	woe					3:38	45	8:45	247	16:06	48	21:05	243	3:05	62	9:16	293	15:28	59	21:46	290		
26-12	don	6:13	NM			4:31	44	9:35	245	16:51	50	21:50	252	3:58	55	10:06	291	16:19	59	22:25	297		
27-12	vry					5:21	45	10:15	240	17:31	51	22:35	258	4:45	52	10:56	286	16:59	60	23:06	302		
28-12	zat					6:05	47	10:59	234	18:06	50	23:16	261	5:27	52	11:30	280	17:37	62	23:35	304		
29-12	zon					6:36	49	11:35	227	18:36	46	23:52	261	6:02	55	12:16	272	18:11	62	0:15	304		
30-12	maa					7:15	51	11:55	220	19:06	44	0:15	257	0:15	304	6:40	60	12:35	265	18:46	64	0:56	301
31-12	din			0:15	257	7:45	54	12:37	213	19:40	44			0:56	301	7:15	67	13:18	258	19:15	67		