

# Getijdengegevens 2016

bron: getij.rws.nl

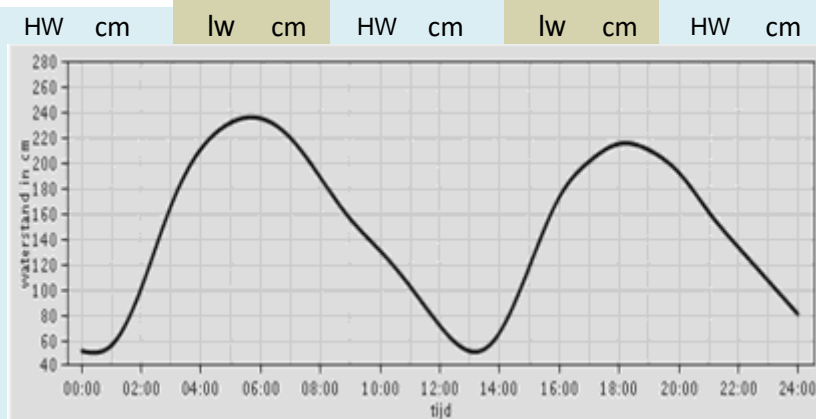
bron: getij.rws.nl

Referentievlak : LAT

maan

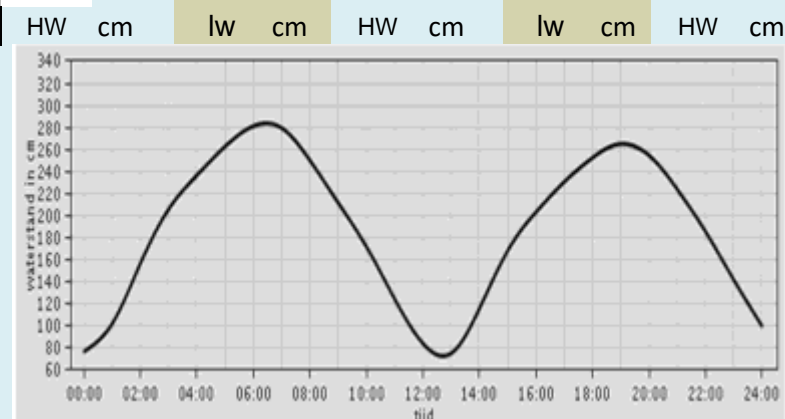
## Harlingen 53.1667° N, 5.4167° O

LAT=NAP -134



## Nes, Ameland 53.4333° N, 5.7833° O

LAT=NAP-172



datum dag maan stand

1-1	vry		1:20	245	8:51	54	13:25	210	20:51	49	
2-1	zat	6:30 LK	1:44	237	9:26	59	13:54	207	21:25	54	
3-1	zon		2:24	231	10:00	62	14:44	205	22:11	60	
4-1	maa		3:25	227	10:56	66	15:44	205	22:54	68	
5-1	din		4:15	224	12:00	66	17:05	209			
6-1	woe				0:15	72	5:35	225	13:27	60	18:25 218
7-1	don				1:56	65	6:35	228	14:14	50	19:34 230
8-1	vry				2:49	55	7:45	232	15:20	42	20:34 240
9-1	zat				3:51	48	9:06	235	16:16	39	21:36 247
10-1	zon	2:30 NM			4:46	45	9:35	235	16:55	38	22:10 253
11-1	maa				5:31	43	10:36	234	17:41	38	22:35 257
12-1	din				6:16	41	11:04	231	18:26	37	23:24 261
13-1	woe				7:01	40	11:54	227	19:06	35	
14-1	don		0:20	262	7:40	39	12:45	221	19:46	33	
15-1	vry		1:06	258	8:26	40	13:35	213	20:32	32	
16-1	zat		1:56	251	9:06	43	14:04	205	21:16	34	
17-1	zon	0:26 EK	2:35	244	9:56	47	14:27	201	22:06	39	
18-1	maa		3:20	237	10:51	52	15:20	200	23:06	46	
19-1	din		4:15	231	11:55	56	16:47	204			
20-1	woe				0:26	49	5:24	229	13:06	55	18:04 214
21-1	don				1:41	46	6:44	231	14:21	49	19:14 227
22-1	vry				2:55	39	7:55	234	15:26	43	20:15 240
23-1	zat				3:55	33	9:10	237	16:18	39	21:15 250
24-1	zon	2:46 VM			4:52	31	10:06	235	17:05	39	22:10 256
25-1	maa				5:38	34	10:40	231	17:46	40	22:50 258
26-1	din				6:16	38	11:04	226	18:21	37	23:26 258
27-1	woe				6:51	39	11:45	224	18:56	33	

1:54	289	8:20	72	14:25	255	20:26	76			
2:46	281	9:06	82	15:16	250	21:09	86			
3:36	272	9:34	91	16:05	247	21:50	97			
4:14	265	10:46	97	17:16	247	23:06	106			
5:30	263	11:45	96	18:26	254					
		0:35	104	6:34	266	13:05	86	19:15	266	
		1:35	91	7:45	274	14:06	74	20:14	280	
		2:30	78	8:47	281	14:50	63	21:10	292	
		3:26	67	9:25	286	15:35	56	21:55	300	
		4:11	58	10:16	287	16:22	51	22:36	304	
		4:56	52	11:00	286	17:09	48	23:16	307	
		5:42	47	11:46	282	17:51	46	23:56	309	
		6:22	44	12:26	278	18:36	46			
0:36	310	7:06	45	13:16	273	19:16	47			
1:20	308	7:49	47	13:45	267	19:56	50			
2:05	303	8:32	53	14:40	262	20:42	55			
3:00	296	9:22	61	15:45	256	21:39	63			
4:06	287	10:21	70	16:46	253	22:46	72			
5:05	280	11:26	76	17:35	255	23:56	75			
6:25	277	12:35	75	18:55	263					
		1:05	70	7:30	279	13:45	69	20:06	275	
		2:20	59	8:40	283	14:50	61	21:06	287	
		3:26	48	9:40	285	15:45	54	21:56	295	
		4:15	40	10:36	283	16:32	51	22:46	299	
		5:01	40	11:04	279	17:12	50	23:16	301	
		5:41	42	11:45	275	17:49	49	23:45	302	
		6:12	44	12:26	271	18:15	48			

Referentievlak : LAT

maan

28-1 don  
29-1 vry  
30-1 zat  
31-1 zon  
1-2 maa 4:28 LK  
2-2 din  
3-2 woe  
4-2 don  
5-2 vry  
6-2 zat  
7-2 zon  
8-2 maa 15:39 NM  
9-2 din  
10-2 woe  
11-2 don  
12-2 vry  
13-2 zat  
14-2 zon  
15-2 maa 8:46 EK  
16-2 din  
17-2 woe  
18-2 don  
19-2 vry  
20-2 zat  
21-2 zon  
22-2 maa 19:20 VM  
23-2 din  
24-2 woe  
25-2 don  
26-2 vry  
27-2 zat  
28-2 zon  
3-3 maa  
4-3 din  
5-3 woe  
6-3 don  
7-3 vry  
8-3 zat  
9-3 zon 2:55 NM  
10-3 maa  
11-3 din

Harlingen53.1667° N, 5.4167° O										Nes, Ameland53.4333° N, 5.7833° O									
LAT=NAP -134					LAT=NAP-172														
HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
0:06	256	7:20	39	12:10	222	19:22	31			0:14	300	6:47	48	12:45	269	18:50	48		
0:24	250	7:50	41	12:46	218	19:56	34			0:56	296	7:16	53	13:26	265	19:26	52		
1:06	242	8:21	45	12:54	214	20:20	38			1:23	288	7:46	60	13:50	261	19:52	58		
1:20	235	8:46	49	13:14	214	20:50	42			1:59	280	8:21	67	14:26	256	20:28	66		
1:50	231	9:16	50	13:45	215	21:30	46			2:45	271	8:56	74	14:54	252	21:08	75		
2:30	228	9:56	52	14:56	214	22:21	52			3:26	263	9:36	81	15:44	248	21:56	87		
3:24	223	10:50	56	15:55	213	23:26	60			4:25	256	10:36	89	17:07	247	23:05	96		
4:35	219	12:16	59	17:20	215					5:45	254	12:06	90	18:25	256				
		0:44	61	5:44	218	13:35	51	18:45	223			0:40	91	7:00	261	13:26	78	19:51	272
		2:16	50	7:17	221	14:45	40	20:04	235			1:56	76	8:10	271	14:26	64	20:45	286
		3:26	40	8:34	226	15:49	33	21:16	244			2:56	60	9:05	278	15:17	53	21:30	297
		4:26	34	9:34	227	16:35	31	21:55	250			3:48	47	10:01	282	16:05	44	22:16	303
		5:16	31	10:25	227	17:25	29	22:46	255			4:35	38	10:46	282	16:52	37	23:00	308
		6:02	28	11:10	226	18:12	25	23:14	259			5:26	31	11:37	281	17:36	32	23:40	311
		6:45	26	11:45	224	18:56	21					6:09	26	12:21	280	18:18	27		
	0:16	261	7:31	25	12:40	222	19:39	17		0:26	311	6:51	26	13:00	277	19:02	26		
	0:56	258	8:10	27	13:20	217	20:21	17		1:11	309	7:32	30	13:47	272	19:42	29		
	1:40	251	8:51	32	13:45	210	21:06	21		1:56	302	8:16	40	14:20	267	20:26	37		
	2:26	239	9:30	39	14:10	206	21:46	28		2:34	291	9:01	52	15:16	260	21:17	49		
	2:54	228	10:26	48	14:50	205	22:34	37		3:35	279	9:50	66	16:05	255	22:16	62		
	4:00	218	11:21	54	16:25	206	23:56	43		4:40	268	10:56	78	17:04	253	23:31	70		
	5:15	214	12:36	55	17:34	213				5:45	261	12:10	80	18:36	258				
		1:15	41	6:25	215	13:56	47	18:54	225			0:50	67	7:21	264	13:25	72	19:46	271
		2:41	30	7:44	221	15:06	35	20:04	238			2:06	54	8:30	271	14:36	59	20:45	284
		3:46	21	9:00	227	16:00	28	21:10	248			3:08	40	9:26	276	15:28	48	21:40	292
		4:36	20	9:56	227	16:49	28	21:44	251			3:58	33	10:15	276	16:12	44	22:20	295
		5:21	26	10:35	224	17:26	31	22:30	252			4:40	34	10:56	274	16:52	43	22:56	295
		5:55	32	10:44	222	18:01	30	22:55	251			5:19	37	11:25	272	17:25	42	23:14	295
		6:26	34	11:26	224	18:30	26	23:46	250			5:51	39	11:55	272	17:56	39	23:56	295
		6:56	32	11:56	225	19:00	23					6:18	40	12:20	273	18:26	38		
	0:16	245	7:26	32	12:26	223	19:31	25		0:25	291	6:48	43	12:45	271	18:56	40		
	0:46	236	7:46	35	12:40	219	19:55	30		1:00	284	7:16	48	13:15	267	19:25	45		
	2:46	217	10:11	43	15:16	217	22:45	47		3:30	252	9:46	74	15:55	249	22:20	79		
	3:45	209	11:05	51	16:24	214	23:55	52		4:50	244	11:00	84	17:56	251	23:56	84		
	5:20	206	12:44	50	17:55	219				6:30	249	12:46	80	19:16	265				
		1:46	42	6:55	210	14:16	38	19:34	231			1:26	69	7:35	260	13:51	63	20:10	282
		3:01	29	8:25	218	15:20	28	20:45	242			2:29	50	8:46	271	14:51	48	21:06	294
		4:00	21	9:25	222	16:22	23	21:41	249			3:26	36	9:35	277	15:46	37	21:50	302
		4:56	18	10:16	223	17:08	19	22:26	253			4:15	24	10:31	280	16:32	27	22:46	306
		5:43	16	11:00	223	17:56	15	23:10	256			5:06	18	11:16	281	17:19	19	23:25	309
		6:28	15	11:46	223	18:40	9	23:56	256			5:46	13	12:06	281	18:02	13		

Referentievlak : LAT

maan

Harlingen										Nes, Ameland									
53.1667° N, 5.4167° O										53.4333° N, 5.7833° O									
LAT=NAP -134										LAT=NAP-172									
HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
12-3 woe		7:13	15	12:26	223	19:26	5			0:16	308	6:30	14	12:46	280	18:46	10		
13-3 don		0:46	252	7:50	18	13:06	221	20:06	6	0:55	304	7:13	20	13:26	277	19:27	14		
14-3 vry		1:25	243	8:26	25	13:24	217	20:46	11	1:35	295	7:56	32	14:00	273	20:08	23		
15-3 zat	18:03 EK	2:06	230	9:06	33	13:54	214	21:31	19	2:31	283	8:39	46	14:45	266	20:56	37		
16-3 zon		2:34	216	9:45	41	14:40	212	22:26	29	3:26	268	9:26	63	15:35	260	21:50	53		
17-3 maa		3:34	205	10:47	49	16:06	210	23:26	36	4:20	256	10:26	77	16:40	256	22:54	65		
18-3 din		4:54	200	12:06	52	17:14	214			5:24	248	11:46	82	18:00	258				
19-3 woe				0:50	34	6:20	202	13:26	43			0:30	62	7:06	251	13:06	72	19:26	268
20-3 don				2:21	22	7:34	211	14:35	29			1:46	49	8:10	262	14:12	56	20:31	281
21-3 vry				3:22	11	8:51	219	15:36	20			2:46	35	9:10	270	15:06	45	21:15	287
22-3 zat				4:16	11	9:35	221	16:26	21			3:38	29	10:01	272	15:52	40	21:55	288
23-3 zon	13:01 VM			4:55	19	10:05	220	17:05	25			4:19	31	10:30	271	16:28	39	22:24	287
24-3 maa				5:31	27	10:24	221	17:39	26			4:50	35	10:54	271	17:02	38	22:54	287
25-3 din				5:56	29	11:06	225	18:09	23			5:20	36	11:35	274	17:36	35	23:37	287
26-3 woe				6:26	25	11:30	229	18:41	20			5:51	35	11:44	277	18:06	33		
27-3 don				7:56	24	13:00	228	20:06	22										
28-3 vry		1:05	229	8:15	26	13:26	223	20:36	26	0:05	284	7:21	36	13:14	276	19:36	35		
29-3 zat		1:25	219	8:46	28	13:46	219	21:06	29	1:35	277	7:46	40	13:56	272	19:55	39		
30-3 zon		1:55	213	9:10	28	14:06	220	21:36	30	1:54	268	8:12	43	14:21	268	20:28	42		
31-3 maa	17:17 LK	2:04	210	9:56	29	14:24	221	22:26	33	2:36	261	8:42	46	14:56	264	21:07	47		
1-4 din		2:54	205	10:40	33	15:46	218	23:20	38	3:04	253	9:26	52	15:36	260	21:50	54		
2-4 woe		4:26	196	11:34	42	17:06	215			4:05	245	10:16	63	16:24	254	22:56	66		
3-4 don				0:35	42	6:00	193	13:16	45	5:14	238	11:14	76	17:54	253			19:36	264
4-4 vry				2:10	33	7:45	200	14:33	36			0:16	71	7:01	241	12:49	76	19:36	264
5-4 zat				3:31	20	9:00	211	15:56	25			1:46	59	8:16	253	14:16	62	20:40	280
6-4 zon				4:36	13	10:06	217	16:52	18			2:55	41	9:20	265	15:21	45	21:36	292
7-4 maa	13:24 NM			5:33	10	10:45	220	17:45	14			3:56	27	10:04	272	16:16	33	22:25	299
8-4 din				6:21	11	11:46	222	18:38	9			4:52	18	11:06	277	17:08	22	23:16	302
9-4 woe				7:05	12	12:27	224	19:26	4			5:38	12	11:44	280	17:58	13		
10-4 don		0:41	248	7:49	13	13:06	226	20:08	0	0:06	303	6:26	11	12:41	283	18:42	7		
11-4 vry		1:20	242	8:25	16	13:41	227	20:48	1	0:50	301	7:09	12	13:26	283	19:26	4		
12-4 zat		2:00	232	9:06	21	14:16	225	21:31	7	1:46	294	7:51	18	13:55	282	20:08	8		
13-4 zon		2:35	218	9:40	27	14:35	222	22:10	15	2:20	285	8:30	29	14:40	279	20:52	17		
14-4 maa	5:59 EK	3:24	205	10:26	34	15:36	219	22:55	24	3:05	272	9:16	43	15:20	274	21:36	31		
15-4 din		4:15	194	11:16	41	16:34	216			4:00	259	9:56	58	16:05	267	22:30	46		
16-4 woe				0:07	31	5:34	190	12:26	46	4:55	247	10:56	72	17:16	262	23:40	58		
17-4 don				1:26	31	6:56	193	13:51	41	6:05	240	12:10	79	18:36	260				
18-4 vry				2:40	22	8:10	201	15:06	30			1:06	59	7:35	243	13:36	73	19:56	266
19-4 zat				3:45	13	9:05	210	16:06	22			2:16	49	8:56	253	14:39	59	21:06	275
20-4 zon				4:41	11	9:54	215	16:56	21			3:16	38	9:40	263	15:35	48	21:56	280
21-4 maa				5:20	17	10:24	218	17:32	25			4:06	33	10:36	267	16:26	43	22:30	281
22-4 din	7:24 VM			5:56	24	11:05	222	18:11	27			4:46	34	10:55	269	17:00	41	23:06	280
								23:15	233			5:15	36	11:30	273	17:36	39	23:36	280

Referentievlak : LAT

maan

23-4 woe  
24-4 don  
25-4 vry  
26-4 zat  
27-4 zon  
28-4 maa  
29-4 din  
30-4 woe  
1-5 don  
2-5 vry  
5-5 zat  
6-5 zon  
7-5 maa  
8-5 din  
9-5 woe  
10-5 don  
11-5 vry  
12-5 zat  
13-5 zon  
14-5 maa  
15-5 din  
16-5 woe  
17-5 don  
18-5 vry  
19-5 zat  
20-5 zon  
21-5 maa  
22-5 din  
23-5 woe  
24-5 don  
25-5 vry  
26-5 zat  
27-5 zon  
28-5 maa  
29-5 din  
30-5 woe  
31-5 don  
1-6 vry  
2-6 zat  
3-6 zon  
4-6 maa

5:29 LK

21:29 NM

19:02 EK

23:14 VM

14:12 LK

Harlingen										Nes, Ameland									
53.1667° N, 5.4167° O										53.4333° N, 5.7833° O									
LAT=NAP -134										LAT=NAP-172									
HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
		6:26	24	11:25	227	18:40	25	23:55	232			5:50	35	12:00	278	18:05	36		
		6:57	21	11:55	231	19:16	22			0:10	280	6:26	33	12:30	282	18:41	34		
	0:26	229	7:27	19	12:35	232	19:46	22		0:40	277	6:50	33	13:05	281	19:11	35		
	0:45	223	7:56	20	13:05	228	20:17	26		1:16	270	7:21	36	13:36	277	19:38	38		
	1:26	213	8:20	22	13:35	223	20:46	28		1:46	262	7:45	40	14:06	273	20:11	41		
	1:34	203	8:56	23	13:55	220	21:25	29		2:21	255	8:26	43	14:36	270	20:51	44		
	2:04	197	9:36	24	14:25	220	22:06	30		3:06	247	9:06	48	15:27	266	21:36	50		
	2:40	191	10:26	28	15:05	218	23:00	33		3:55	240	9:56	57	16:25	262	22:35	57		
	3:50	185	11:20	34	16:34	217				5:00	235	11:00	67	17:24	261	23:55	60		
			0:26	35	5:40	184	12:40	38	18:10	222	6:36	237	12:26	70	19:05	268			
			4:06	12	9:30	214	16:27	19	21:46	245		3:26	26	9:56	268	15:51	33	22:00	295
			5:06	11	10:26	220	17:22	14	22:40	246		4:22	19	10:46	275	16:43	23	22:56	296
			5:56	13	11:10	225	18:16	11	23:36	243		5:13	16	11:36	280	17:38	15	23:46	295
			6:40	15	11:56	229	19:06	7				6:03	16	12:16	284	18:26	10		
	0:21	239	7:26	16	12:35	232	19:52	4		0:36	291	6:46	18	12:55	287	19:11	7		
	1:05	231	8:06	17	13:15	234	20:32	4		1:26	284	7:28	22	13:46	287	19:52	10		
	1:46	221	8:42	19	13:56	234	21:16	9		2:10	275	8:11	30	14:13	285	20:36	18		
	2:25	209	9:21	23	14:36	231	21:52	15		2:50	264	8:50	40	14:55	281	21:20	29		
	2:55	197	10:01	27	15:15	227	22:46	23		3:40	253	9:36	52	15:50	276	22:10	42		
	4:00	189	10:47	33	16:04	222	23:36	29		4:36	243	10:25	64	16:56	269	23:16	54		
	5:05	185	11:46	39	17:20	220				5:24	237	11:30	74	17:50	265				
			0:36	31	6:16	187	12:56	42	18:36	221		0:20	59	6:34	237	12:45	76	19:05	264
			1:46	29	7:15	194	14:05	39	19:24	224		1:30	56	8:05	245	14:06	69	20:05	267
			2:56	24	8:05	202	15:20	33	20:35	227		2:30	49	9:00	255	15:01	59	21:17	271
			3:50	20	9:04	211	16:16	31	21:25	228		3:26	44	9:50	263	15:46	53	21:56	273
			4:35	21	9:44	218	17:01	31	22:15	227		4:08	41	10:25	269	16:28	48	22:35	274
			5:15	22	10:24	224	17:36	32	22:35	226		4:46	39	11:07	275	17:05	45	23:10	275
			5:56	22	11:15	230	18:16	30	23:26	225		5:26	37	11:29	282	17:42	41	23:51	275
			6:26	20	11:45	234	18:50	27	23:50	224		5:57	35	12:16	285	18:16	39		
			7:01	18	12:15	236	19:26	27		0:26	272	6:31	34	12:40	286	18:56	39		
	0:35	219	7:36	20	12:56	235	20:00	28		1:00	267	7:06	37	13:05	283	19:25	41		
	1:05	211	8:06	21	13:15	231	20:36	30		1:30	260	7:36	40	13:46	281	20:00	43		
	1:34	200	8:36	22	14:00	227	21:10	30		2:10	253	8:11	43	14:26	279	20:41	45		
	2:20	190	9:21	22	14:34	223	21:59	30		2:56	246	8:50	47	15:16	276	21:29	48		
	2:50	183	10:06	25	15:24	222	22:50	31		3:40	241	9:40	53	16:05	273	22:26	52		
	3:50	180	11:05	29	16:14	222				4:45	237	10:40	60	17:10	272	23:36	53		
			0:06	32	5:20	181	12:16	33	17:34	226	5:54	238	11:56	63	18:25	274			
			1:16	28	6:35	189	13:35	32	19:06	232		0:46	48	7:16	246	13:05	58	19:36	280
			2:26	22	7:55	201	14:45	27	20:10	238		1:50	39	8:15	256	14:21	48	20:35	286
			3:36	18	8:45	212	15:56	23	21:16	241		2:56	33	9:26	266	15:26	39	21:36	289
			4:36	18	9:56	222	17:01	19	22:16	241		3:56	29	10:16	275	16:26	30	22:36	289

Referentievlak : LAT

maan

5-6 *din* 5:00 NM

6-6 *woe*

7-6 *don*

8-6 *vry*

9-6 *zat*

10-6 *zon*

11-6 *maa*

12-6 *din* 10:10 EK

13-6 *woe*

14-6 *don*

15-6 *vry*

16-6 *zat*

17-6 *zon*

18-6 *maa*

19-6 *din*

20-6 *woe* 13:02 VM

21-6 *don*

22-6 *vry*

23-6 *zat*

24-6 *zon*

25-6 *maa*

26-6 *din*

27-6 *woe* 20:19 LK

28-6 *don*

29-6 *vry*

30-6 *zat*

1-7 *zon*

2-7 *maa*

3-7 *din*

4-7 *woe* 13:01 NM

5-7 *don*

6-7 *vry*

7-7 *zat*

8-7 *zon*

9-7 *maa*

10-7 *din*

11-7 *woe*

12-7 *don* 2:52 EK

13-7 *vry*

14-7 *zat*

15-7 *zon*

Harlingen

53.1667° N, 5.4167° O

LAT=NAP -134

HW cm

lw cm

HW cm

lw cm

HW cm

Nes, Ameland

53.4333° N, 5.7833° O

LAT=NAP-172

HW cm

lw cm

HW cm

lw cm

HW cm

23:16 237

18:46 14

19:32 12

20:16 12

20:56 15

21:36 19

22:15 25

22:55 31

23:51 36

17:25 217

6:15 190

7:04 198

8:15 209

9:15 219

9:54 227

10:55 233

11:14 237

11:45 241

12:24 243

13:16 243

14:00 240

14:45 235

15:36 231

16:04 229

17:04 229

6:05 191

7:10 202

8:26 215

9:26 228

10:26 238

11:16 245

11:56 249

12:41 251

13:15 250

13:50 247

14:25 240

15:00 232

15:24 224

16:20 219

17:15 215

0:35 51

5:55 198

12:44 60

18:15 214

4:56 27

5:42 26

6:28 27

7:10 29

7:52 32

8:30 38

9:10 46

9:56 57

10:46 69

11:45 79

0:36 68

1:46 66

2:36 59

3:29 52

4:16 47

4:52 42

5:36 40

6:10 38

6:51 39

7:26 41

8:06 43

8:46 45

9:30 49

10:27 55

11:25 60

0:16 54

1:22 51

2:30 47

3:35 43

4:36 39

5:29 36

6:12 35

6:56 34

7:36 36

8:11 38

8:45 44

9:26 53

10:00 65

10:46 79

11:35 91

0:25 84

6:54 245

13:16 94

19:14 254

11:16 282

11:56 288

12:40 292

13:26 293

13:54 292

14:46 289

15:30 284

16:15 276

17:16 268

18:16 262

7:00 240

7:54 247

8:54 258

9:56 269

10:23 278

11:16 285

11:51 290

12:26 291

13:00 292

13:36 291

14:16 290

15:05 288

15:45 284

16:43 280

17:55 278

6:35 247

7:50 256

8:56 267

9:56 278

10:56 287

11:40 294

12:14 297

13:06 299

13:34 298

14:25 295

15:00 289

15:40 280

16:26 270

17:04 260

18:15 255

23:36 80

13:16 94

19:14 254

23:36 287

19:15 260

20:25 262

21:15 266

22:00 270

22:46 272

23:26 273

18:41 42

19:16 42

19:59 42

20:36 44

21:20 46

22:12 49

23:16 53

12:46 61

13:56 56

15:05 48

16:06 39

17:08 30

17:55 25

18:42 23

19:26 25

20:06 29

20:41 36

21:16 46

21:57 58

22:36 70

23:36 80

13:16 94

19:14 254

23:36 287

19:15 260

20:25 262

21:15 266

22:00 270

22:46 272

23:26 273

18:41 42

19:16 42

19:59 42

20:36 44

21:20 46

22:12 49

23:16 53

12:46 61

13:56 56

15:05 48

16:06 39

17:08 30

17:55 25

18:42 23

19:26 25

20:06 29

20:41 36

21:16 46

21:57 58

22:36 70

23:36 80

13:16 94

19:14 254

23:36 287

19:15 260

20:25 262

21:15 266

22:00 270

22:46 272

23:26 273

18:41 42

19:16 42

19:59 42

20:36 44

21:20 46

22:12 49

23:16 53

12:46 61

13:56 56

15:05 48

16:06 39

17:08 30

17:55 25

18:42 23

19:26 25

20:06 29

20:41 36

21:16 46

21:57 58

22:36 70

23:36 80

13:16 94

19:14 254

23:36 287

19:15 260

20:25 262

21:15 266

22:00 270

22:46 272

23:26 273

18:41 42

19:16 42

19:59 42

20:36 44

21:20 46

22:12 49

23:16 53

12:46 61

13:56 56



Referentievlak : LAT

maan

16-7 maa  
17-7 din  
18-7 woe  
19-7 don  
20-7 vry 0:57 VM  
21-7 zat  
22-7 zon  
23-7 maa  
24-7 din  
25-7 woe  
26-7 don  
27-7 vry 1:00 LK  
28-7 zat  
29-7 zon  
30-7 maa  
31-7 din  
1-8 woe  
2-8 don 22:45 NM  
3-8 vry  
4-8 zat  
5-8 zon  
6-8 maa  
7-8 din  
8-8 woe  
9-8 don  
10-8 vry 20:21 EK  
11-8 zat  
12-8 zon  
13-8 maa  
14-8 din  
15-8 woe  
16-8 don  
17-8 vry  
18-8 zat 11:27 VM  
19-8 zon  
20-8 maa  
21-8 din  
22-8 woe  
23-8 don  
24-8 vry  
25-8 zat 5:41 LK  
26-8 zon  
27-8 maa  
28-8 din

Harlingen										Nes, Ameland									
53.1667° N, 5.4167° O										53.4333° N, 5.7833° O									
LAT=NAP -134										LAT=NAP-172									
HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
		1:56	48	7:20	208	14:30	57	19:34	217			1:51	78	8:04	255	14:20	85	20:36	260
		3:06	40	8:14	219	15:41	49	20:45	221			2:46	68	9:16	269	15:21	73	21:25	267
		4:06	32	9:24	230	16:36	43	21:35	223			3:41	58	10:06	281	16:11	62	22:26	272
		4:56	28	10:15	238	17:26	39	22:25	223			4:25	51	10:45	290	16:55	54	23:06	274
		5:46	28	11:00	243	18:16	37	23:05	222			5:10	46	11:26	295	17:42	47	23:50	275
		6:26	28	11:24	247	18:58	35	23:44	220			5:55	43	12:11	299	18:26	42		
		7:07	28	12:15	252	19:40	33			0:36	273	6:36	41	12:46	301	19:06	39		
	0:34	218		12:55	254	20:26	32			1:15	270	7:16	39	13:26	302	19:46	38		
	1:30	214		13:45	253	21:05	32			1:55	267	7:56	39	14:06	301	20:28	39		
	2:15	207		14:30	248	21:46	34			2:40	263	8:35	41	14:56	298	21:10	44		
	2:45	199		15:26	240	22:29	37			3:26	258	9:21	45	15:40	293	21:59	51		
	3:30	195		16:00	234	23:16	42			4:10	254	10:11	52	16:36	285	22:46	60		
	3:47	195		16:55	229					5:04	251	11:06	61	17:36	278	23:45	67		
				17:54	226					6:05	252	12:16	67	18:45	274				
				19:04	227							1:01	69	7:25	259	13:36	66	19:55	275
				20:30	231							2:16	65	8:36	271	14:46	57	21:10	279
				21:40	234							3:20	57	9:35	284	15:56	45	22:04	282
				22:46	233							4:26	49	10:36	294	16:52	35	23:16	283
				23:30	229							5:16	44	11:26	300	17:42	31		
	0:16	223		11:35	256	19:06	31			0:00	281	5:55	41	12:11	303	18:26	31		
	0:46	219		12:16	257	19:38	33			0:46	277	6:36	42	12:46	303	19:06	35		
	1:11	218		12:55	256	20:12	34			1:15	273	7:12	41	13:20	302	19:41	39		
	1:25	215		13:25	252	20:46	36			1:50	270	7:46	42	13:56	298	20:10	45		
	1:25	215		13:54	244	21:16	40			2:26	266	8:16	46	14:23	290	20:46	54		
	2:05	212		14:14	234	21:40	45			2:50	262	8:51	54	15:00	281	21:16	64		
	2:15	209		14:50	228	22:05	49			3:15	256	9:20	65	15:46	270	21:46	74		
	2:44	210		15:20	224	22:45	51			3:54	251	9:56	77	16:15	261	22:25	83		
	3:35	210		16:10	220	23:30	54			4:44	247	10:45	90	17:04	253	23:15	93		
	4:34	209		17:15	216					5:54	247	11:35	102	18:24	250				
				18:24	215							0:35	97	7:14	254	13:36	101	19:56	255
				19:54	220							2:06	87	8:36	269	14:40	85	21:00	266
				21:26	225							3:06	73	9:23	284	15:40	69	21:45	274
				22:05	227							3:55	61	10:26	295	16:36	57	22:46	279
				23:00	227							4:48	52	10:54	302	17:18	47	23:24	281
				23:51	226							5:36	46	11:46	307	18:06	41		
				19:26	34					0:26	281	6:16	41	12:25	310	18:48	36		
	0:24	225		20:06	33					1:00	281	7:00	36	13:16	311	19:30	34		
	1:05	223		20:48	34					1:35	278	7:40	35	13:50	310	20:13	38		
	2:05	219		21:29	38					2:26	275	8:26	37	14:36	304	20:55	46		
	2:30	214		22:09	44					2:55	270	9:05	43	15:25	296	21:35	57		
	2:57	209		22:45	51					3:50	266	9:56	53	16:16	285	22:26	70		
	3:15	209		23:45	57					4:46	262	10:46	65	17:15	275	23:26	82		
	4:30	209		17:35	219					5:45	261	11:44	75	18:35	269				
				13:36	48			19:00	221			0:38	86	7:06	266	13:16	75	19:35	270

Referentievlak : LAT

maan

Harlingen		53.1667° N, 5.4167° O								Nes, Ameland		53.4333° N, 5.7833° O							
LAT=NAP -134										LAT=NAP-172									
HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
		2:16	54	7:24	229	15:06	40	20:25	227			1:56	80	8:16	278	14:36	63	21:07	277
		3:30	42	8:34	243	16:16	29	21:36	233			3:05	67	9:25	292	15:42	48	22:06	284
		4:32	33	9:46	255	17:12	25	22:15	234			4:05	55	10:20	302	16:35	39	23:00	287
		5:26	32	10:30	260	18:02	30	23:10	232			4:55	48	11:05	305	17:23	37	23:46	285
		6:11	35	11:16	260	18:40	39	23:34	228			5:39	48	11:46	305	18:06	42		
		6:46	38	11:57	259	19:16	45					0:15	281	6:15	48	12:20	304	18:41	46
	0:05	229	7:21	36	12:26	258	19:46	45				0:45	279	6:52	49	12:50	302	19:13	50
	0:35	231	7:50	33	13:06	254	20:16	44				1:20	279	7:22	49	13:14	297	19:40	55
	4:54	221	12:25	66	17:44	213						6:36	257	12:14	106	19:16	252		
			1:05	63	6:24	226	14:16	62	19:15		217			1:16	102	7:56	271	14:00	92
		2:40	54	8:04	238	15:31	48	20:44	226			2:30	85	8:56	288	15:06	73	21:25	277
		3:50	43	9:15	250	16:36	40	21:44	231			3:31	69	9:45	301	16:00	57	22:20	285
		4:56	38	10:16	257	17:32	36	22:34	232			4:20	57	10:35	310	16:56	47	23:16	288
		5:42	35	11:01	262	18:18	36	23:36	232			5:10	48	11:26	314	17:41	40	23:56	290
		6:30	33	11:40	265	19:06	36					5:58	41	12:06	316	18:26	35		
0:10	233	7:16	29	12:25	266	19:46	37			0:46	290	6:41	36	12:45	316	19:09	36		
0:56	233	8:01	26	13:16	263	20:29	39			1:27	289	7:26	34	13:36	312	19:50	41		
1:36	232	8:40	26	14:06	255	21:06	45			2:05	287	8:06	35	14:20	305	20:32	51		
2:10	229	9:26	30	14:40	244	21:46	51			2:35	283	8:48	43	15:06	294	21:16	64		
2:40	225	10:06	37	15:14	230	22:20	57			3:26	279	9:36	55	15:55	282	22:01	78		
3:16	224	10:56	45	16:05	219	23:15	63			4:26	274	10:25	68	16:55	271	22:56	92		
4:05	222	11:56	52	17:24	213					5:20	272	11:29	79	18:05	265				
		0:26	67	5:50	226	13:16	52	18:34	215			0:04	98	6:24	274	12:55	79	19:36	267
		1:45	61	7:04	236	14:40	43	19:55	223			1:25	91	7:44	284	14:16	68	20:46	277
		3:06	48	8:14	249	15:52	31	21:15	232			2:46	76	8:55	297	15:20	53	21:45	286
		4:16	37	9:26	258	16:51	28	21:55	235			3:45	62	10:06	305	16:16	45	22:40	290
		5:02	35	10:10	261	17:36	34	22:46	235			4:36	56	10:46	307	16:58	46	23:26	288
		5:47	41	10:57	259	18:12	46	23:16	235			5:16	56	11:27	304	17:39	52	23:56	286
		6:26	46	11:26	258	18:42	52	23:35	239			5:50	58	11:45	301	18:13	57		
		6:56	46	11:56	257	19:11	51			0:26	286	6:20	58	12:15	299	18:41	60		
0:15	243	7:26	43	12:35	253	19:41	48			0:40	289	6:56	58	12:45	295	19:06	62		
0:46	244	7:56	44	13:05	246	20:07	49			1:10	289	7:20	60	13:26	288	19:36	66		
1:05	241	8:20	48	13:20	237	20:31	51			1:40	285	7:51	66	13:45	278	20:06	72		
1:25	237	8:46	53	13:25	229	20:56	52			2:16	279	8:16	73	14:26	270	20:31	76		
1:34	237	9:15	55	13:44	227	21:30	51			2:40	275	8:50	78	15:06	262	21:02	80		
2:04	238	10:01	56	14:24	224	22:16	53			3:26	271	9:30	84	15:39	256	21:51	88		
3:05	236	10:51	60	15:24	215	23:16	59			4:04	267	10:26	94	16:50	250	22:44	100		
4:14	231	11:55	65	17:10	210					5:35	266	11:47	101	18:36	251				
		0:14	65	5:44	233	13:35	62	18:50	214			0:04	105	6:54	275	13:15	92	19:56	263
		1:55	60	7:20	242	14:55	49	20:14	224			1:46	92	8:16	292	14:31	72	20:56	277
		3:15	49	8:34	254	16:06	40	21:14	232			2:56	75	9:04	305	15:26	57	21:50	287
		4:26	42	9:34	262	17:01	37	22:20	237			3:51	61	10:05	314	16:26	47	22:40	293

Referentievlak : LAT

maan

Harlingen		53.1667° N, 5.4167° O								Nes, Ameland		53.4333° N, 5.7833° O							
LAT=NAP -134										LAT=NAP-172									
HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
0:31	243	5:19	38	10:30	266	17:50	38	23:06	239	0:16	297	4:39	51	10:50	318	17:16	42	23:31	296
	6:06	36	11:14	266	18:38	40	23:51	241	5:33		43	11:40	318	18:01	40				
	6:58	32	12:11	265	19:22	42			6:18		38	12:26	315	18:46	42				
	7:40	30	12:50	260	20:06	45			7:03		35	13:16	309	19:26	46				
	1:11	244	8:25	29	13:41	251	20:46	49	1:35		297	7:46	38	14:00	301	20:11	56		
	1:45	243	9:09	34	14:26	238	21:21	53	2:26		294	8:30	45	14:56	289	20:52	67		
	2:14	241	9:45	41	14:54	225	21:55	58	3:05		291	9:16	56	15:46	277	21:38	80		
	2:45	238	10:36	48	15:47	214	22:46	63	3:45		286	10:11	68	16:35	267	22:36	93		
	3:45	234	11:24	54	16:55	208	23:51	66	4:50		283	11:16	79	17:46	261	23:40	100		
	5:14	234	12:46	55	18:14	210			6:06		282	12:30	81	18:54	262				
0:05	247	1:10	64	6:46	240	14:06	49	19:25	217	0:35	289	0:54	97	7:26	287	13:46	74	20:20	272
	2:35	55	7:56	248	15:20	40	20:34	226	2:09		84	8:35	296	14:56	63	21:20	282		
	3:41	45	8:56	254	16:16	37	21:24	232	3:16		72	9:30	302	15:46	57	22:03	287		
	4:35	43	9:46	255	17:06	42	21:54	236	4:06		66	10:16	302	16:28	57	22:50	289		
	4:16	48	9:26	254	16:35	51	21:24	240	3:46		65	9:45	299	16:06	62	22:20	290		
	4:56	53	9:56	253	17:05	55	22:16	246	4:26		66	10:26	297	16:38	64	22:45	293		
	5:29	53	10:25	252	17:38	52	22:46	251	4:56		66	10:56	295	17:06	65	23:16	297		
	5:56	51	10:55	250	18:06	49	23:10	254	5:26		65	11:26	292	17:36	65	23:35	297		
	6:31	50	11:25	245	18:35	48	23:34	251	5:56		67	11:56	286	18:05	67				
	7:01	53	11:50	237	19:06	50			0:16		294	6:26	71	12:35	277	18:36	71		
0:36	244	7:26	57	12:26	228	19:36	50			1:16	286	6:55	75	13:06	269	19:06	74		
	7:56	58	12:30	223	20:06	49			7:25		78	13:35	263	19:46	77				
	8:36	58	12:54	219	20:50	50			8:10		81	14:14	256	20:26	83				
	9:36	60	14:00	212	21:51	55			9:05		87	15:14	251	21:26	92				
	2:44	239	10:36	63	15:15	206	22:56	61	3:44		277	10:15	91	16:44	251	22:41	97		
	4:05	239	12:01	60	17:16	209			5:25		282	11:36	85	18:16	260				
	0:15	60	5:35	246	13:16	51	18:34	219	0:05		91	6:25	293	12:56	71	19:26	273		
	1:35	52	6:44	254	14:26	43	19:50	230	1:16		77	7:36	305	13:52	57	20:16	284		
	2:46	45	8:15	261	15:26	40	20:45	238	2:19		63	8:24	312	14:51	49	21:16	292		
	3:51	41	9:06	264	16:22	41	21:45	243	3:16		54	9:26	315	15:46	46	21:55	298		
0:26	254	4:46	39	9:55	263	17:16	44	22:20	248	0:56	303	4:09	46	10:15	314	16:36	46	22:46	301
	5:36	36	10:51	259	18:02	46	23:05	251	4:58		41	11:16	309	17:23	47	23:30	304		
	6:26	34	11:36	252	18:40	47	23:56	253	5:48		38	12:06	302	18:06	50				
	7:12	34	12:25	242	19:26	49			0:16		304	6:33	39	12:46	293	18:51	57		
	7:56	37	13:00	232	20:01	50			0:56		303	7:16	45	13:37	283	19:36	65		
	8:36	42	13:25	220	20:41	52			1:47		300	7:59	53	14:26	273	20:15	74		
	9:21	47	14:17	211	21:14	56			2:35		296	8:51	64	15:05	264	21:05	84		
	10:16	53	15:15	205	22:16	60			3:26		291	9:46	75	16:16	258	22:06	94		
	11:11	56	16:30	205	23:26	64			4:25		286	10:56	82	17:26	256	23:16	98		
	4:55	238	12:15	57	17:24	209			5:35		284	11:55	82	18:25	261				
		0:46	63	6:05	240	13:26	53	18:40	217		0:25	94	6:50	286	13:06	77	19:46	270	



Referentievlak : LAT

maan

26-11 din  
27-11 woe  
28-11 don  
29-11 vry  
30-11 zat  
1-12 zon  
2-12 maa  
3-12 din  
4-12 woe  
5-12 don  
6-12 vry  
7-12 zat  
8-12 zon  
9-12 maa  
10-12 din  
11-12 woe  
12-12 don  
13-12 vry  
14-12 zat  
15-12 zon  
16-12 maa  
17-12 din  
18-12 woe  
19-12 don  
20-12 vry  
21-12 zat  
22-12 zon  
23-12 maa  
24-12 din  
25-12 woe  
26-12 don  
27-12 vry  
28-12 zat  
29-12 zon  
30-12 maa  
31-12 din

13:18 NM

10:03 EK

1:06 VM

2:56 LK

7:53 NM

Harlingen										Nes, Ameland									
53.1667° N, 5.4167° O										53.4333° N, 5.7833° O									
LAT=NAP -134										LAT=NAP-172									
HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
		1:56	58	7:00	243	14:30	49	19:25	226			1:32	85	7:56	289	14:02	71	20:30	279
		2:56	55	7:44	244	15:20	49	20:25	235			2:26	78	8:40	291	14:50	68	21:17	285
		3:46	55	8:45	245	16:01	51	20:55	242			3:16	74	9:20	291	15:36	68	21:35	290
		4:26	57	9:26	245	16:36	52	21:45	249			3:56	72	9:56	290	16:06	67	22:15	296
		4:55	57	10:06	244	17:05	50	22:15	254			4:25	70	10:31	290	16:41	65	22:50	301
		5:36	55	10:36	243	17:46	47	22:56	257			5:06	68	11:00	288	17:12	63	23:27	302
		6:05	54	10:55	241	18:16	46	23:26	257			5:36	68	11:35	283	17:46	64	23:56	301
		6:41	54	11:24	235	18:46	46	23:56	255			6:16	70	12:05	277	18:15	66		
		7:16	56	12:10	227	19:16	46			0:26	298	6:46	72	12:34	270	18:46	68		
	0:36	250	7:46	56	12:34	218	19:56	45		1:07	295	7:16	73	13:26	264	19:26	70		
	0:54	246	8:26	56	13:05	212	20:39	45		1:45	293	8:06	75	14:05	259	20:10	73		
	1:34	244	9:16	57	13:35	208	21:36	49		2:30	290	8:50	77	15:06	254	21:05	79		
	2:30	242	10:16	59	14:35	205	22:36	54		3:25	287	9:44	80	16:15	252	22:10	84		
	3:34	242	11:36	59	16:05	206	23:46	56		4:46	286	11:00	78	17:36	256	23:26	84		
	4:54	245	12:34	54	17:56	213				5:56	291	12:16	71	18:46	266				
			0:54	53	6:26	249	13:50	47	18:55	224		0:35	76	7:05	298	13:18	61	19:46	278
			2:16	47	7:30	254	15:01	44	20:16	236		1:45	65	7:54	303	14:20	55	20:47	288
			3:29	42	8:40	256	15:56	44	21:16	245		2:45	56	9:00	306	15:21	52	21:35	297
			4:26	39	9:47	254	16:51	45	22:06	252		3:51	48	9:55	304	16:16	50	22:14	302
			5:21	37	10:30	250	17:38	45	22:55	256		4:42	42	10:55	300	17:06	50	23:04	306
			6:11	35	11:26	242	18:26	45	23:36	259		5:33	38	11:45	294	17:51	50	23:56	308
			6:56	35	12:06	234	19:05	43				6:15	37	12:37	286	18:33	52		
	0:05	260	7:36	36	12:40	226	19:46	42		0:35	308	7:00	41	13:15	278	19:12	55		
	0:55	258	8:16	39	13:15	218	20:26	42		1:20	306	7:46	47	14:00	271	19:55	61		
	1:14	253	8:56	44	13:35	211	21:06	45		2:06	301	8:29	56	14:46	263	20:36	70		
	2:10	247	9:46	50	14:15	206	21:47	51		2:55	294	9:15	68	15:25	257	21:26	81		
	2:54	239	10:26	56	15:15	203	22:36	59		3:46	285	10:05	80	16:14	252	22:26	93		
	3:55	232	11:26	62	16:35	204	23:25	67		4:34	276	11:06	89	17:14	251	23:36	100		
	5:00	228	12:15	64	17:25	209				5:56	271	12:15	90	18:35	256				
			0:56	69	5:55	227	13:35	60	18:40	219		0:34	98	6:55	271	13:15	85	19:46	266
			2:06	65	7:05	230	14:30	54	19:35	229		1:46	90	8:00	275	14:05	78	20:36	277
			3:05	60	8:05	233	15:20	49	20:46	239		2:41	81	8:51	279	14:52	71	21:16	287
			3:51	56	8:50	235	16:06	47	21:14	246		3:26	75	9:35	281	15:35	66	21:50	295
			4:36	55	9:24	235	16:47	45	22:06	251		4:06	70	10:06	283	16:15	62	22:26	300
			5:16	53	10:04	235	17:20	43	22:24	255		4:42	65	10:45	283	16:56	59	23:05	303
			5:56	51	10:34	234	18:01	42	22:54	258		5:20	62	11:20	281	17:31	57	23:35	304