

# Getijdengegevens 2017

bron: eigen berekeningen

bron: gezeiten-kalender.de /bsh.de

**Nieuwe Statenzijl**  
LAT=NAP-260

**53.23292° N, 7.20817° O**

**Emden, Neue Seeschleuse**  
LAT=NAP-230

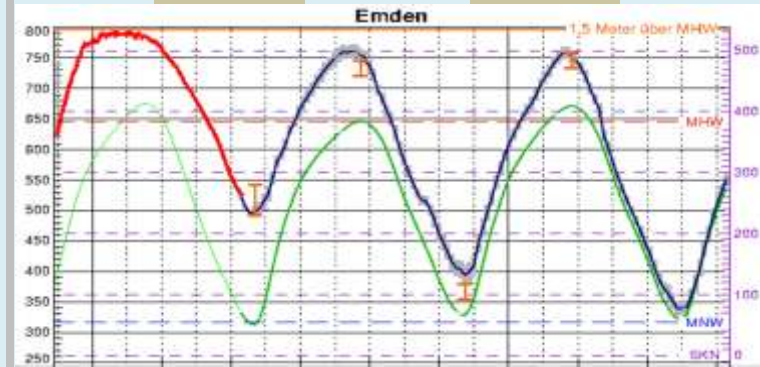
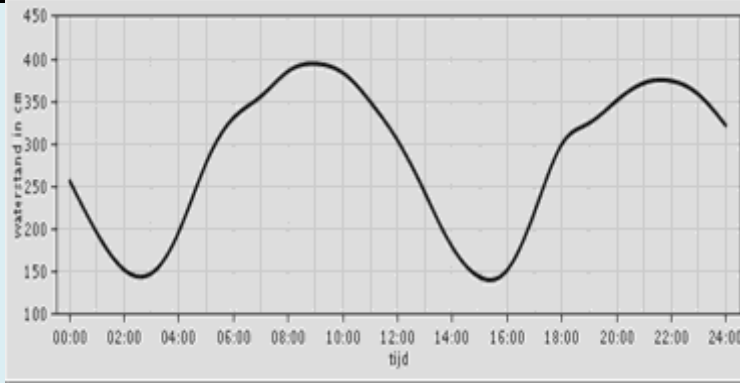
**53.3369° N, 7.1864° O**

Referentievlak : LAT

datum dag maan stand

HW cm lw cm HW cm lw cm HW cm

HW lw HW lw HW



datum dag maan stand

datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm				
1-1	zon			2:31	419	9:13	153	14:46	395	21:22	154	02:01	425	08:25	52	14:25	394	20:33	65				
2-1	maa			3:01	419	9:49	153	15:15	391	21:52	154	02:36	419	09:00	58	15:00	384	21:06	70				
3-1	din			3:25	419	10:26	153	15:56	387	22:26	152	03:09	414	09:34	60	15:34	376	21:40	68				
4-1	woe			4:17	417	11:02	153	16:36	381	23:01	147	03:47	412	10:11	56	16:13	371	22:20	62				
5-1	don		20:47 EK	5:01	414	11:36	149	17:19	375	23:46	143	04:30	411	10:52	52	16:58	368	23:04	60				
6-1	vry			5:51	408	12:23	144	18:10	369			05:17	405	11:39	53	17:51	363	23:55	66				
7-1	zat					0:39	140	6:46	401	13:16	143	19:10	366	06:12	395	12:34	63	19:04	357				
8-1	zon					1:36	141	7:40	397	14:16	143	20:14	369			00:55	79	07:28	383	13:45	74	20:22	354
9-1	maa					2:46	143	8:49	397	15:26	142	21:30	379			02:15	85	08:48	376	15:05	70	21:40	359
10-1	din					3:55	140	10:20	402	16:40	140	23:01	393			03:34	74	10:03	377	16:12	59	22:43	370
11-1	woe					5:15	138	11:36	408	18:06	138					04:44	57	11:05	382	17:20	47	23:35	383
12-1	don		12:34 VM	0:06	406	6:46	126	12:31	412	19:14	129					05:59	36	12:01	388	18:26	35		
13-1	vry			0:50	416	7:42	114	13:20	410	20:03	123	00:24	394	06:59	16	12:55	391	19:20	27				
14-1	zat			1:36	421	8:30	107	14:06	405	20:46	122	01:11	402	07:50	7	13:49	390	20:08	30				
15-1	zon			2:20	423	9:14	106	14:49	399	21:27	122	01:58	402	08:35	13	14:40	383	20:51	43				
16-1	maa			3:06	423	9:52	110	15:29	393	22:04	123	02:41	398	09:16	30	15:21	373	21:29	59				
17-1	din			3:46	421	10:26	115	16:10	387	22:36	125	03:20	392	09:54	48	15:54	366	22:04	73				
18-1	woe			4:26	415	10:56	122	16:45	380	23:01	129	03:58	388	10:30	61	16:30	363	22:38	79				
19-1	don		23:13 LK	5:06	406	11:26	129	17:25	373	23:32	134	04:37	387	11:06	66	17:12	363	23:16	81				
20-1	vry			5:34	394	11:58	138	17:55	366			05:24	383	11:47	70	18:02	362						
21-1	zat					0:06	144	6:14	382	12:35	148	19:05	361			00:01	85	06:18	376	12:35	78	18:56	359
22-1	zon					0:50	156	7:25	372	13:26	160	20:00	362			00:57	92	07:17	366	13:32	89	19:53	357
23-1	maa					1:46	171	8:35	368	14:23	169	21:05	368			02:03	98	08:16	359	14:39	96	20:52	359
24-1	din					3:35	175	9:25	371	16:06	161	22:06	379			03:14	96	09:16	357	15:48	93	21:54	369
25-1	woe					4:41	162	10:25	378	17:06	151	23:15	393			04:23	85	10:15	362	16:48	81	22:51	385
26-1	don					5:35	154	11:34	388	18:06	146					05:19	71	11:11	372	17:38	67	23:41	402
27-1	vry			0:11	407	6:41	149	12:30	396	19:02	144					06:07	58	12:03	383	18:23	55		
28-1	zat		1:07 NM	0:56	416	7:33	144	13:16	399	19:46	141	00:28	413	06:50	48	12:52	389	19:04	47				

Referentievlak : LAT				Nieuwe Statenzijl LAT=NAP-260								53.23292° N, 7.20817° O				Emden, Neue Seeschleuse LAT=NAP-230				53.3369° N, 7.1864° O			
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm				
29-1	zon			1:36	421	8:18	137	13:56	400	20:34	137			01:11	416	07:30	41	13:37	388	19:42	44		
30-1	maa			2:16	424	9:00	129	14:36	399	21:11	131			01:48	412	08:09	37	14:14	382	20:18	43		
31-1	din			2:49	427	9:40	124	15:06	398	21:50	127			02:20	408	08:45	34	14:45	376	20:53	40		
1-2	woe			3:21	429	10:17	123	15:46	395	22:26	125			02:52	408	09:20	31	15:17	374	21:28	35		
2-2	don			3:59	428	10:54	127	16:21	391	23:04	126			03:30	411	09:56	30	15:55	374	22:06	32		
3-2	vry			4:40	422	11:31	131	17:00	384	23:40	126			04:13	409	10:35	33	16:38	370	22:47	35		
4-2	zat	5:19	EK	5:25	412	12:08	134	17:45	376					04:59	399	11:18	44	17:25	360	23:32	48		
5-2	zon					0:22	127	6:15	400	12:52	138	18:39	371	05:52	382	12:06	61	18:23	347				
6-2	maa					1:11	132	7:16	390	13:46	145	19:50	371			00:27	67	07:03	364	13:13	80	19:44	338
7-2	din					2:16	140	8:24	386	14:56	149	20:54	378			01:50	81	08:27	354	14:45	80	21:14	342
8-2	woe					3:36	139	9:54	390	16:25	144	22:40	392			03:18	70	09:48	359	15:58	64	22:23	359
9-2	don					5:16	131	11:15	401	17:51	132	23:40	409			04:40	49	10:53	371	17:14	44	23:18	379
10-2	vry					6:31	111	12:12	408	18:56	116					05:54	22	11:51	383	18:18	25		
11-2	zat	1:33	VM	0:30	420	7:26	96	12:59	408	19:44	107			00:10	394	06:49	4	12:47	389	19:09	18		
12-2	zon			1:15	425	8:13	92	13:45	405	20:28	106			00:58	401	07:36	3	13:43	388	19:53	24		
13-2	maa			1:56	427	8:54	94	14:25	401	21:07	108			01:43	400	08:18	17	14:27	381	20:32	38		
14-2	din			2:36	427	9:31	100	15:06	398	21:41	109			02:20	394	08:54	33	14:51	374	21:05	49		
15-2	woe			3:16	424	10:04	107	15:35	395	22:10	111			02:53	390	09:26	44	15:17	373	21:36	53		
16-2	don			3:56	417	10:29	114	16:05	390	22:31	114			03:27	389	09:57	47	15:51	374	22:07	53		
17-2	vry			4:25	406	10:51	121	16:25	383	22:59	119			04:02	388	10:29	49	16:28	374	22:40	55		
18-2	zat	20:33	LK	4:50	394	11:16	127	16:54	377	23:28	125			04:40	383	11:03	57	17:10	371	23:17	64		
19-2	zon			5:14	383	11:50	132	17:35	372					05:23	373	11:42	74	17:56	365				
20-2	maa					0:09	133	5:53	374	12:30	139	18:15	366			00:01	81	06:14	362	12:28	97	18:48	360
21-2	din					0:52	145	6:44	365	13:20	151	20:20	367			00:55	100	07:14	356	13:26	116	19:47	362
22-2	woe					1:52	160	8:50	365	14:35	162	21:25	379			02:04	112	08:17	357	14:43	120	20:55	372
23-2	don					3:34	162	10:06	376	16:20	152	22:46	395			03:32	105	09:25	365	16:07	101	22:11	389
24-2	vry					5:06	145	11:10	390	17:36	139	23:35	411			04:44	82	10:40	377	17:06	74	23:17	406
25-2	zat					6:12	133	12:06	400	18:36	131					05:38	58	11:47	387	17:56	52		
26-2	zon	15:58	NM	0:31	422	7:10	123	12:52	406	19:28	123			00:10	414	06:25	40	12:40	390	18:40	39		
27-2	maa			1:12	428	7:56	111	13:36	407	20:14	114			00:54	411	07:08	29	13:24	385	19:21	31		
28-2	din			1:51	431	8:40	101	14:16	406	20:56	103			01:31	405	07:47	20	14:00	379	19:59	23		
1-3	woe			2:25	433	9:21	93	14:51	406	21:35	95			02:02	404	08:26	14	14:28	377	20:36	15		
2-3	don			3:06	434	10:00	92	15:26	404	22:14	94			02:34	409	09:03	10	14:57	382	21:14	8		
3-3	vry			3:35	432	10:37	100	15:56	401	22:50	97			03:12	414	09:40	11	15:35	385	21:51	8		
4-3	zat			4:20	425	11:12	110	16:40	396	23:23	103			03:57	410	10:17	21	16:19	381	22:31	17		
5-3	zon	12:32	EK	5:11	413	11:48	120	17:25	388					04:46	396	10:57	39	17:07	368	23:14	36		
6-3	maa					0:03	109	6:06	398	12:26	129	18:26	381	05:42	373	11:41	62	18:03	352				
7-3	din					0:49	118	7:05	386	13:17	140	19:24	379			00:07	59	06:51	352	12:45	85	19:17	340
8-3	woe					1:50	129	8:26	381	14:24	148	20:35	384			01:43	75	08:13	343	14:30	86	20:51	343
9-3	don					3:14	129	9:56	387	16:11	136	22:26	398			03:08	63	09:35	353	15:47	66	22:04	364
10-3	vry					5:02	112	11:06	399	17:31	117	23:26	414			04:32	39	10:41	372	17:03	41	23:02	387
11-3	zat					6:11	90	12:01	407	18:36	99					05:40	12	11:42	386	18:02	21	23:55	400

Referentievlak : LAT				Nieuwe Statenzijl LAT=NAP-260								Emden, Neue Seeschleuse LAT=NAP-230											
				53.23292° N, 7.20817° O								53.3369° N, 7.1864° O											
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW					
12-3	zon		15:54 VM	0:09	423	7:04	77	12:45	407	19:22	92					06:32	1	12:44	391	18:51	17		
13-3	maa			0:55	426	7:49	79	13:22	406	20:06	93			00:42	401	07:17	8	13:35	387	19:33	26		
14-3	din			1:36	427	8:29	87	14:00	406	20:44	97			01:19	395	07:55	24	13:56	379	20:08	38		
15-3	woe			2:11	428	9:04	94	14:30	408	21:16	98			01:49	390	08:27	36	14:09	379	20:38	41		
16-3	don			2:46	425	9:34	101	15:06	408	21:42	100			02:19	391	08:56	37	14:40	386	21:06	36		
17-3	vry			3:20	418	9:56	106	15:36	404	22:01	102			02:54	393	09:23	34	15:16	392	21:36	34		
18-3	zat			3:56	405	10:16	110	16:00	397	22:26	107			03:31	391	09:54	38	15:54	392	22:09	41		
19-3	zon			4:15	393	10:43	113	16:30	390	23:00	110			04:07	385	10:25	55	16:30	386	22:43	58		
20-3	maa		16:58 LK	4:56	383	11:13	113	17:06	384	23:31	112			04:43	374	10:59	78	17:06	380	23:21	78		
21-3	din			5:36	375	11:51	115	17:45	379					05:24	366	11:38	100	17:48	377				
22-3	woe					0:16	119	6:26	367	12:38	124	18:35	373			00:07	97	06:18	361	12:28	117	18:47	378
23-3	don					1:15	132	8:00	361	13:46	139	21:01	382			01:06	110	07:28	363	13:32	124	20:04	384
24-3	vry					2:30	141	9:35	376	15:10	142	22:06	400			02:20	109	08:44	371	14:57	113	21:26	397
25-3	zat					4:17	128	10:35	393	16:34	127	23:06	417			03:56	86	10:04	382	16:24	82	22:40	409
26-3	zon					6:26	113	12:36	406	18:50	115					06:01	50	12:18	391	18:22	54		
27-3	maa			0:55	428	7:38	101	13:26	412	19:56	106			00:39	414	06:53	30	13:15	392	19:11	38		
28-3	din		4:57 NM	1:46	433	8:31	90	14:16	413	20:46	94			01:27	409	07:39	20	14:01	386	19:55	27		
29-3	woe			2:26	434	9:14	80	14:52	413	21:33	83			02:07	402	08:22	10	14:38	381	20:37	16		
30-3	don			3:07	434	9:58	74	15:31	412	22:15	73			02:41	402	09:03	0	15:08	383	21:17	3		
31-3	vry			3:46	433	10:38	74	16:07	411	22:54	70			03:16	408	09:42	0	15:38	391	21:58	0		
1-4	zat			4:26	429	11:16	82	16:46	410	23:32	75			03:57	412	10:22	0	16:17	397	22:38	0		
2-4	zon			5:05	421	11:54	95	17:14	407					04:43	405	11:00	10	17:02	393	23:19	10		
3-4	maa		20:39 EK			0:10	84	5:55	409	12:26	106	18:15	402	05:35	387	11:39	30	17:52	380				
4-4	din					0:46	93	6:50	396	13:06	117	19:16	396			00:04	30	06:32	364	12:22	66	18:49	364
5-4	woe					1:30	103	8:06	385	13:56	129	20:14	394			01:05	50	07:39	346	13:39	90	19:58	354
6-4	don					2:36	114	9:17	382	15:04	137	21:36	397			02:37	60	09:00	342	15:13	87	21:29	359
7-4	vry					4:05	110	10:35	387	16:45	122	23:00	407			03:53	50	10:21	358	16:27	68	22:44	380
8-4	zat					5:30	92	11:45	399	18:02	102					05:12	30	11:28	379	17:41	44	23:44	400
9-4	zon			0:06	418	6:43	76	12:40	406	19:06	88					06:17	10	12:32	393	18:40	25		
10-4	maa			0:50	422	7:38	70	13:25	406	19:57	85			00:38	406	07:08	0	13:32	393	19:28	22		
11-4	din		8:08 VM	1:36	421	8:24	76	13:59	406	20:40	89			01:23	399	07:52	10	14:14	384	20:08	31		
12-4	woe			2:11	421	9:02	86	14:36	409	21:16	93			01:51	388	08:28	20	14:13	378	20:42	38		
13-4	don			2:46	422	9:36	94	15:05	416	21:48	95			02:16	386	08:57	30	14:35	387	21:10	34		
14-4	vry			3:21	421	10:03	98	15:36	419	22:16	96			02:49	391	09:24	30	15:11	401	21:39	26		
15-4	zat			3:56	414	10:26	100	16:16	415	22:32	98			03:28	397	09:53	20	15:51	410	22:11	26		
16-4	zon			4:26	402	10:42	103	16:40	407	23:01	103			04:09	396	10:24	30	16:31	409	22:44	42		
17-4	maa			4:55	390	11:08	105	17:16	398	23:26	105			04:47	387	10:56	60	17:06	401	23:18	64		
18-4	din			5:25	380	11:36	103	17:40	393					05:22	376	11:27	80	17:39	395	23:53	83		
19-4	woe		11:57 LK			0:06	103	6:11	373	12:16	101	18:35	388	05:59	368	12:04	100	18:18	394				
20-4	don					0:46	104	7:00	367	13:06	107	19:26	385			00:37	90	06:47	366	12:52	107	19:10	396
21-4	vry					1:46	111	7:55	362	14:16	118	21:15	386			01:31	90	07:54	369	13:51	108	20:22	399
22-4	zat					2:56	117	10:06	374	15:25	123	22:36	403			02:37	90	09:14	377	15:03	101	21:47	406

Referentievlak : LAT				Nieuwe Statenzijl LAT=NAP-260								53.2329° N, 7.20817° O				Emden, Neue Seeschleuse LAT=NAP-230				53.3369° N, 7.1864° O			
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm				
23-4	zon					4:22	107	11:05	392	16:49	112	23:36	419			04:00	70	10:32	387	16:32	81	23:01	413
24-4	maa					5:41	92	12:05	406	17:55	101					05:18	40	11:45	395	17:42	55		
25-4	din			0:29	430	6:55	86	12:56	413	19:17	95			00:04	415	06:16	20	12:44	396	18:37	39		
26-4	woe	14:16	NM	1:16	434	7:56	79	13:45	416	20:21	86			00:56	410	07:07	10	13:32	391	19:27	27		
27-4	don			2:06	433	8:47	74	14:30	416	21:07	75			01:40	405	07:54	10	14:12	388	20:13	13		
28-4	vry			2:46	430	9:35	69	15:10	416	21:54	66			02:20	404	08:38	0	14:46	392	20:58	0		
29-4	zat			3:26	426	10:16	71	15:46	416	22:37	63			03:01	407	09:22	0	15:21	400	21:43	-10		
30-4	zon			4:11	420	10:56	77	16:25	416	23:17	66			03:45	406	10:05	0	16:02	406	22:28	0		
1-5	maa			4:55	412	11:36	87	17:15	416	23:56	72			04:33	396	10:47	10	16:48	403	23:14	7		
2-5	din			5:48	403	12:12	97	18:06	414					05:25	379	11:30	40	17:38	393				
3-5	woe	4:47	EK			0:36	81	6:46	394	12:46	106	19:05	411			00:06	30	06:21	360	12:19	68	18:34	381
4-5	don					1:20	89	7:46	387	13:36	115	20:06	409			01:10	50	07:25	349	13:34	85	19:41	375
5-5	vry					2:26	97	8:50	385	14:50	121	21:10	409			02:19	50	08:42	352	14:46	82	21:04	381
6-5	zat					3:46	94	10:05	386	16:19	111	22:37	410			03:25	40	09:57	369	15:54	68	22:17	398
7-5	zon					4:57	83	11:26	394	17:26	97	23:41	415			04:36	30	11:02	386	17:07	50	23:17	409
8-5	maa					6:02	75	12:26	401	18:29	89					05:44	10	12:03	394	18:10	34		
9-5	din			0:36	415	7:06	74	13:05	403	19:26	88			00:11	406	06:37	10	12:59	390	18:59	29		
10-5	woe	23:43	VM	1:16	412	7:51	81	13:40	405	20:10	93			00:54	392	07:21	20	13:31	381	19:40	34		
11-5	don			1:48	411	8:31	91	14:17	410	20:48	98			01:20	380	07:56	30	13:39	381	20:13	36		
12-5	vry			2:20	412	9:06	97	14:45	419	21:21	100			01:46	382	08:27	30	14:07	397	20:44	31		
13-5	zat			2:56	411	9:31	100	15:15	424	21:49	101			02:23	392	08:56	20	14:47	415	21:15	24		
14-5	zon			3:30	407	9:57	102	15:57	421	22:16	104			03:07	402	09:28	20	15:30	425	21:49	28		
15-5	maa			4:06	397	10:21	105	16:29	414	22:40	109			03:51	403	10:01	40	16:11	424	22:24	47		
16-5	din			4:46	386	10:39	107	16:45	405	23:09	110			04:31	393	10:33	60	16:47	415	22:57	68		
17-5	woe			5:16	377	11:16	105	17:30	400	23:40	107			05:07	380	11:04	80	17:20	408	23:33	79		
18-5	don			6:01	371	11:56	101	18:16	396					05:43	371	11:41	90	17:57	408				
19-5	vry	2:33	LK			0:26	104	6:46	366	12:49	102	19:11	395			00:14	70	06:27	370	12:27	87	18:46	410
20-5	zat					1:26	103	7:34	363	13:52	107	20:04	394			01:05	70	07:28	372	13:22	83	19:50	410
21-5	zon					2:29	102	9:31	369	14:55	109	21:56	401			02:05	60	08:45	379	14:27	80	21:11	411
22-5	maa					3:46	95	10:36	384	16:16	103	23:01	415			03:17	50	09:58	388	15:45	72	22:23	414
23-5	din					4:55	83	11:36	398	17:22	93	23:56	424			04:35	30	11:09	394	17:01	56	23:28	414
24-5	woe					6:06	79	12:25	408	18:36	91					05:38	20	12:10	396	18:02	41		
25-5	don	21:44	NM	0:46	428	7:22	81	13:20	414	19:46	87			00:23	411	06:34	10	13:00	394	18:57	28		
26-5	vry			1:39	428	8:24	79	14:05	417	20:46	78			01:13	407	07:26	10	13:44	394	19:50	14		
27-5	zat			2:26	423	9:12	77	14:55	419	21:36	70			02:00	404	08:16	0	14:24	399	20:41	0		
28-5	zon			3:16	417	9:59	77	15:36	420	22:21	65			02:46	403	09:04	0	15:05	406	21:32	-10		
29-5	maa			4:06	410	10:40	80	16:20	422	23:04	65			03:35	397	09:52	0	15:49	409	22:21	0		
30-5	din			4:45	403	11:22	85	17:06	423	23:46	67			04:24	387	10:39	20	16:35	406	23:10	8		
31-5	woe			5:35	397	11:58	90	17:55	424					05:15	373	11:26	40	17:25	400				
1-6	don	14:42	EK			0:27	73	6:36	392	12:36	96	18:46	422			00:01	20	06:08	362	12:15	65		
2-6	vry					1:08	79	7:25	388	13:20	102	19:46	418			00:54	40	07:07	358	13:12	77	19:20	392
3-6	zat					2:00	86	8:25	384	14:16	110	20:39	413			01:50	50	08:12	362	14:12	77	20:31	395

Referentievlak : LAT				Nieuwe Statenzijl LAT=NAP-260								Emden, Neue Seeschleuse LAT=NAP-230													
				53.23292° N, 7.20817° O								53.3369° N, 7.1864° O													
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm						
4-6	zon					3:02	90	9:19	382	15:36	112	21:50	407			02:48	40	09:20	372	15:14	70	21:41	401		
5-6	maa					4:12	88	10:45	383	16:46	105	23:05	403			03:50	40	10:24	382	16:20	60	22:43	402		
6-6	din					5:15	86	11:56	390	17:45	101					04:57	30	11:23	385	17:29	49	23:38	394		
7-6	woe				0:06	402	6:17	88	12:45	397	18:45	101				05:58	30	12:15	382	18:25	42				
8-6	don				0:50	401	7:12	92	13:25	402	19:35	103	00:24	380		06:45	30	12:49	378	19:09	41				
9-6	vry	15:10	VM		1:31	400	7:56	99	13:50	410	20:23	108	00:53	372		07:24	30	13:12	385	19:46	41				
10-6	zat				2:06	401	8:36	104	14:26	419	20:56	110	01:22	378		07:59	40	13:45	402	20:21	37				
11-6	zon				2:41	402	9:12	107	15:00	425	21:36	112	02:02	391		08:33	30	14:26	421	20:56	34				
12-6	maa				3:16	400	9:46	110	15:41	425	22:09	114	02:47	403		09:07	30	15:10	430	21:31	39				
13-6	din				3:56	394	10:16	114	16:16	420	22:42	118	03:32	404		09:41	50	15:50	429	22:06	52				
14-6	woe				4:31	387	10:35	116	16:46	414	23:06	121	04:13	394		10:13	60	16:26	421	22:39	66				
15-6	don				5:00	380	11:06	115	17:26	410	23:41	118	04:48	381		10:45	70	17:00	414	23:14	71				
16-6	vry				5:42	374	11:46	111	18:06	407			05:24	372		11:22	70	17:37	413	23:54	65				
17-6	zat	13:33	LK				0:21	112	6:30	369	12:32	107	18:45	404	06:06	369		12:05	60	18:22	413				
18-6	zon						1:12	105	7:14	365	13:31	105	19:40	402				00:41	50	07:00	371	12:56	65	19:17	411
19-6	maa						2:11	100	8:13	365	14:30	105	20:45	401				01:35	50	08:11	374	13:54	67	20:31	407
20-6	din						3:12	95	9:56	373	15:38	103	22:10	406				02:40	50	09:22	378	15:04	71	21:45	405
21-6	woe						4:26	90	10:56	387	16:50	98	23:21	414				03:56	40	10:32	382	16:23	64	22:53	403
22-6	don						5:25	87	12:06	400	17:56	96						05:04	30	11:37	386	17:30	50	23:55	402
23-6	vry				0:26	419	6:40	91	12:56	411	19:22	96						06:04	20	12:32	391	18:33	36		
24-6	zat	4:31	NM		1:15	420	8:00	91	13:45	419	20:32	86	00:51	401		07:03	20	13:21	396	19:35	20				
25-6	zon				2:12	418	8:56	86	14:36	424	21:23	75	01:44	399		08:01	10	14:08	402	20:33	5				
26-6	maa				3:06	412	9:42	84	15:22	427	22:08	68	02:37	396		08:54	10	14:54	407	21:25	0				
27-6	din				3:50	406	10:26	82	16:08	429	22:53	65	03:30	391		09:44	20	15:41	408	22:14	2				
28-6	woe				4:35	400	11:07	83	16:55	430	23:33	66	04:21	381		10:30	30	16:26	406	22:59	18				
29-6	don				5:25	395	11:46	84	17:35	430			05:08	372		11:14	50	17:12	402	23:44	37				
30-6	vry						0:14	71	6:10	391	12:22	89	18:26	426	05:54	365		11:57	60	18:00	399				
1-7	zat	2:51	EK				0:48	78	6:55	386	12:55	96	19:16	418				00:28	50	06:43	363	12:42	74	18:53	397
2-7	zon						1:31	88	7:50	381	13:40	107	20:10	408				01:15	50	07:36	366	13:33	77	19:53	395
3-7	maa						2:16	100	8:45	376	14:36	121	21:06	397				02:07	50	08:35	369	14:30	76	20:58	391
4-7	din						3:15	109	9:36	374	15:56	127	22:00	389				03:04	50	09:38	372	15:33	73	22:02	385
5-7	woe						4:31	109	10:24	376	17:02	122	23:20	385				04:07	50	10:40	374	16:41	69	23:04	379
6-7	don						5:30	106	12:16	387	18:00	118						05:13	50	11:36	377	17:47	61	23:57	373
7-7	vry				0:26	389	6:26	106	12:56	399	19:01	118						06:09	50	12:21	383	18:39	56		
8-7	zat				1:06	392	7:21	108	13:31	410	19:56	119	00:37	372		06:55	50	12:55	394	19:22	54				
9-7	zon	6:07	VM		1:46	395	8:12	112	14:06	419	20:39	119	01:09	380		07:35	50	13:32	409	20:01	51				
10-7	maa				2:20	398	8:53	114	14:46	425	21:23	118	01:49	391		08:13	50	14:13	423	20:38	49				
11-7	din				3:05	398	9:36	116	15:20	428	22:01	116	02:34	398		08:50	50	14:54	428	21:15	50				
12-7	woe				3:46	396	10:06	116	15:56	427	22:38	115	03:17	397		09:25	50	15:32	426	21:50	55				
13-7	don				4:16	392	10:42	118	16:30	425	23:13	117	03:56	389		09:57	60	16:06	420	22:23	60				
14-7	vry				4:56	387	11:16	119	17:06	422	23:46	119	04:30	379		10:29	60	16:39	415	22:58	60				
15-7	zat				5:31	382	11:46	117	17:45	418			05:05	372		11:05	60	17:17	414	23:35	56				



Referentievlak : LAT				Nieuwe Statenzijl LAT=NAP-260								Emden, Neue Seeschleuse LAT=NAP-230							
				53.23292° N, 7.20817° O								53.3369° N, 7.1864° O							
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm
16-7	zon		21:26 LK			0:22	117	6:10	376	12:27	113	18:25	412	05:45	370	11:45	50	18:00	412
17-7	maa					1:02	112	6:55	370	13:16	109	19:16	406			00:18	50	06:33	369
18-7	din					1:50	108	7:46	367	14:05	108	20:15	400			01:07	50	07:34	367
19-7	woe					2:42	108	8:44	369	15:05	112	21:15	398			02:05	60	08:46	366
20-7	don					3:45	109	10:04	380	16:20	112	22:56	403			03:22	70	10:00	368
21-7	vry					4:54	107	11:36	396	17:36	109					04:37	50	11:11	377
22-7	zat			0:00	411	6:15	107	12:36	412	19:12	105					05:43	40	12:11	390
23-7	zon		11:45 NM	1:06	416	7:43	101	13:25	424	20:17	89			00:37	397	06:51	30	13:04	401
24-7	maa			1:55	416	8:39	91	14:21	431	21:09	76			01:34	399	07:53	20	13:55	410
25-7	din			2:45	412	9:26	86	15:06	434	21:55	68			02:31	398	08:46	20	14:45	414
26-7	woe			3:36	406	10:10	83	15:46	435	22:36	67			03:29	393	09:33	30	15:33	413
27-7	don			4:14	401	10:49	82	16:30	435	23:14	70			04:18	385	10:15	40	16:16	409
28-7	vry			5:05	397	11:26	84	17:09	432	23:50	78			04:56	376	10:54	50	16:54	404
29-7	zat			5:45	392	11:58	90	17:55	424					05:30	371	11:31	60	17:35	400
30-7	zon		17:23 EK			0:21	89	6:19	386	12:26	99	18:40	412	06:08	370	12:09	70	18:19	396
31-7	maa					0:52	100	7:16	378	13:00	111	19:25	397			00:36	60	06:53	371
1-8	din					1:28	113	8:06	372	13:46	127	20:26	384			01:21	70	07:45	371
2-8	woe					2:09	128	8:50	371	14:35	145	21:21	377			02:15	80	08:41	370
3-8	don					3:15	141	9:46	374	16:16	153	22:15	375			03:18	90	09:44	373
4-8	vry					4:51	136	10:45	383	17:25	141	23:35	380			04:28	90	10:53	382
5-8	zat					5:56	126	12:16	397	18:25	132					05:34	80	11:53	397
6-8	zon			0:41	390	6:50	120	13:06	412	19:26	127			00:20	383	06:26	70	12:40	413
7-8	maa		20:11 VM	1:20	397	7:46	119	13:40	423	20:16	122			01:02	391	07:12	60	13:21	425
8-8	din			2:00	401	8:33	118	14:20	429	21:03	118			01:43	397	07:53	50	14:02	431
9-8	woe			2:42	403	9:17	116	15:00	433	21:44	111			02:24	399	08:31	50	14:40	430
10-8	don			3:20	403	9:57	112	15:36	434	22:24	106			03:04	395	09:06	50	15:14	426
11-8	vry			4:01	401	10:34	109	16:10	434	23:01	105			03:39	389	09:40	50	15:45	422
12-8	zat			4:36	397	11:10	110	16:46	431	23:37	110			04:11	384	10:13	50	16:19	422
13-8	zon			5:09	392	11:44	112	17:26	426					04:45	382	10:48	50	16:57	421
14-8	maa					0:11	116	5:46	385	12:20	114	18:06	417	05:24	380	11:26	50	17:40	416
15-8	din		3:15 LK			0:46	119	6:31	379	12:58	114	18:55	407	06:09	376	12:09	60	18:28	404
16-8	woe					1:26	122	7:15	374	13:43	117	19:50	397			00:40	60	07:03	369
17-8	don					2:16	126	8:26	374	14:41	124	20:55	391			01:34	80	08:14	363
18-8	vry					3:16	132	9:34	382	15:55	128	22:30	396			02:55	90	09:34	364
19-8	zat					4:46	130	11:15	398	17:20	121	23:51	407			04:21	80	10:52	379
20-8	zon					6:11	120	12:15	417	18:59	106					05:33	60	11:54	399
21-8	maa		20:30 NM	0:45	415	7:26	104	13:10	431	20:02	86			00:26	400	06:45	40	12:48	415
22-8	din			1:40	417	8:22	92	13:55	437	20:51	75			01:24	406	07:43	30	13:40	424
23-8	woe			2:25	413	9:08	87	14:40	439	21:36	74			02:24	405	08:32	30	14:30	424
24-8	don			3:16	409	9:51	87	15:22	439	22:16	78			03:20	399	09:15	40	15:14	419
25-8	vry			3:49	406	10:27	89	16:06	436	22:52	86			03:59	390	09:53	50	15:49	412
26-8	zat			4:24	402	11:04	93	16:45	430	23:22	95			04:20	383	10:27	60	16:22	407

Referentievlak : LAT				Nieuwe Statenzijl LAT=NAP-260								53.23292° N, 7.20817° O				Emden, Neue Seeschleuse LAT=NAP-230				53.3369° N, 7.1864° O			
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm				
27-8	zon			5:05	397	11:29	100	17:26	418	23:46	107			04:47	382	10:59	70	16:57	403	23:20	66		
28-8	maa			5:40	390	11:55	109	17:56	403					05:23	383	11:32	70	17:36	397	23:54	74		
29-8	din		10:13 EK			0:12	116	6:05	381	12:22	119	18:30	389	06:05	383	12:08	80	18:19	388				
30-8	woe					0:46	126	6:44	374	12:59	131	18:54	376			00:31	80	06:51	380	12:51	99	19:09	378
31-8	don					1:21	136	7:45	369	13:42	146	20:07	367			01:17	110	07:42	378	13:44	119	20:07	371
1-9	vry					2:06	150	9:11	373	14:35	164	21:46	368			02:14	130	08:41	380	14:52	134	21:11	371
2-9	zat					3:16	163	10:09	384	16:46	165	22:34	377			03:32	130	09:51	391	16:20	131	22:25	378
3-9	zon					5:26	151	11:20	400	17:51	145	23:55	391			04:54	120	11:08	410	17:34	109	23:42	392
4-9	maa					6:21	134	12:26	417	18:56	132					05:54	90	12:09	429	18:27	86		
5-9	din			0:55	402	7:16	126	13:16	428	19:52	123			00:38	403	06:42	70	12:57	438	19:12	69		
6-9	woe		9:03 VM	1:36	408	8:08	121	13:55	434	20:37	115			01:24	406	07:26	60	13:39	438	19:53	58		
7-9	don			2:21	410	8:54	116	14:35	437	21:21	107			02:06	403	08:06	60	14:17	432	20:32	51		
8-9	vry			3:00	410	9:34	109	15:16	438	22:02	101			02:44	397	08:43	50	14:50	426	21:08	45		
9-9	zat			3:41	408	10:16	103	15:56	437	22:39	100			03:16	393	09:19	50	15:21	426	21:44	42		
10-9	zon			4:10	405	10:52	102	16:27	434	23:17	107			03:46	393	09:55	40	15:56	429	22:19	44		
11-9	maa			4:34	401	11:28	107	17:06	428	23:54	118			04:20	396	10:31	40	16:36	428	22:55	50		
12-9	din			5:26	396	12:06	113	17:46	417					05:01	396	11:09	50	17:21	417	23:33	63		
13-9	woe		8:25 LK			0:26	127	6:06	390	12:41	119	18:35	404	05:47	389	11:50	60	18:13	399				
14-9	don					1:03	134	7:06	385	13:26	126	19:46	392			00:15	80	06:42	378	12:38	84	19:20	379
15-9	vry					1:46	142	8:06	384	14:21	135	20:45	387			01:06	100	07:51	369	13:44	104	20:36	367
16-9	zat					2:56	151	9:13	390	15:40	139	22:14	393			02:42	110	09:12	370	15:31	101	22:01	372
17-9	zon					4:36	146	10:44	405	17:15	125	23:35	406			04:09	90	10:34	388	16:51	78	23:14	390
18-9	maa					5:56	126	12:01	424	18:41	103					05:23	70	11:37	411	18:09	50		
19-9	din			0:35	415	7:06	106	12:50	435	19:41	86			00:17	406	06:33	50	12:32	427	19:08	30		
20-9	woe		7:30 NM	1:26	416	8:00	96	13:36	437	20:30	81			01:17	412	07:27	40	13:23	431	19:56	27		
21-9	don			2:05	413	8:46	94	14:15	437	21:13	87			02:16	409	08:13	40	14:08	426	20:38	40		
22-9	vry			2:45	411	9:26	99	14:58	436	21:52	97			02:59	400	08:53	50	14:42	417	21:15	56		
23-9	zat			3:25	411	10:04	104	15:36	432	22:26	107			03:11	392	09:27	60	15:12	411	21:46	65		
24-9	zon			3:55	410	10:34	109	16:16	424	22:53	117			03:32	394	09:57	70	15:45	408	22:14	67		
25-9	maa			4:35	406	10:56	116	16:46	411	23:08	124			04:06	398	10:27	70	16:22	405	22:43	71		
26-9	din			5:07	398	11:22	123	17:09	397	23:36	131			04:44	400	10:59	70	16:59	399	23:15	85		
27-9	woe			5:25	390	11:46	131	17:35	384					05:23	398	11:33	90	17:36	389	23:48	107		
28-9	don		4:53 EK			0:00	135	5:54	383	12:21	138	18:20	375	06:03	393	12:11	110	18:17	379				
29-9	vry					0:36	139	6:34	377	13:01	146	19:16	366			00:26	130	06:47	391	12:55	135	19:10	373
30-9	zat					1:26	147	8:00	373	13:52	158	20:47	362			01:14	150	07:44	393	13:52	150	20:20	374
1-10	zon					2:21	160	9:41	384	15:05	169	22:16	375			02:16	160	08:56	402	15:06	153	21:33	383
2-10	maa					3:40	167	10:46	401	17:05	155	23:20	392			03:43	150	10:13	417	16:44	129	22:50	397
3-10	din					5:36	149	11:56	419	18:16	136					05:10	120	11:23	433	17:47	96		
4-10	woe			0:21	406	6:30	134	12:40	432	19:16	125			00:00	409	06:05	90	12:20	440	18:37	72		
5-10	don		20:40 VM	1:05	413	7:36	127	13:26	437	20:06	116			00:54	413	06:53	70	13:07	437	19:21	58		
6-10	vry			1:56	415	8:24	120	14:11	438	20:54	110			01:39	408	07:36	60	13:48	429	20:02	51		
7-10	zat			2:35	414	9:10	112	14:51	437	21:36	105			02:18	402	08:17	50	14:24	424	20:42	45		

Referentievlak : LAT				Nieuwe Statenzijl LAT=NAP-260								Emden, Neue Seeschleuse LAT=NAP-230											
				53.23292° N, 7.20817° O								53.3369° N, 7.1864° O											
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW					
8-10	zon			3:16	412	9:53	105	15:26	434	22:18	105	02:51	399	08:56	40	14:58	426	21:20	41				
9-10	maa			3:51	410	10:33	103	16:00	430	22:56	112	03:20	403	09:35	40	15:35	428	21:58	42				
10-10	din			4:16	408	11:14	108	16:46	422	23:34	124	03:55	409	10:15	40	16:19	424	22:36	52				
11-10	woe			4:55	406	11:50	116	17:30	412			04:39	409	10:55	40	17:07	410	23:14	69				
12-10	don	14:25	LK			0:08	135	5:46	402	12:28	124	18:26	400	05:28	401	11:38	60	18:03	389	23:55	91		
13-10	vry					0:46	144	6:46	398	13:12	132	19:36	390	06:25	389	12:29	80	19:09	370				
14-10	zat					1:25	152	7:56	397	14:06	140	20:46	387			00:48	110	07:32	380	13:55	104	20:25	362
15-10	zon					2:32	159	9:10	402	15:36	141	22:06	392			02:36	120	08:53	381	15:20	95	21:51	373
16-10	maa					4:15	151	10:24	412	17:01	123	23:26	403			03:52	100	10:15	400	16:34	74	23:01	395
17-10	din					5:30	129	11:46	425	18:12	105					05:05	80	11:18	421	17:48	50		
18-10	woe			0:20	412	6:39	113	12:32	432	19:14	95			00:04	412	06:12	50	12:14	432	18:45	35		
19-10	don	21:12	NM	1:10	413	7:36	106	13:19	431	20:04	97			01:05	416	07:06	40	13:03	428	19:32	36		
20-10	vry			1:50	411	8:21	109	13:51	428	20:46	107			01:55	409	07:51	50	13:42	416	20:13	50		
21-10	zat			2:26	410	9:02	116	14:30	426	21:24	120			02:19	398	08:28	60	14:09	407	20:46	63		
22-10	zon			3:06	413	9:37	123	15:11	423	21:56	129			02:25	398	09:00	60	14:39	405	21:15	67		
23-10	maa			3:25	416	10:06	128	15:40	416	22:16	136			02:56	408	09:29	60	15:16	408	21:42	66		
24-10	din			3:55	414	10:27	134	16:16	404	22:32	139			03:35	416	09:59	60	15:56	408	22:12	73		
25-10	woe			4:35	406	10:48	139	16:40	391	22:56	143			04:15	418	10:32	70	16:35	401	22:44	94		
26-10	don			4:56	398	11:15	145	17:16	380	23:26	144			04:54	413	11:07	90	17:11	391	23:16	119		
27-10	vry			5:25	391	11:46	147	17:55	372	23:58	141			05:29	407	11:42	110	17:47	381	23:51	138		
28-10	zat	0:22	EK	6:15	386	12:26	148	18:45	366					06:06	405	12:23	130	18:31	377				
29-10	zon					0:46	144	5:55	383	12:21	153	18:35	362			00:35	140	05:55	407	12:13	138	18:36	377
30-10	maa					0:46	153	7:30	382	13:28	159	20:41	369			00:30	151	07:05	411	13:14	135	19:55	386
31-10	din					1:56	160	9:16	398	14:44	155	21:45	386			01:37	144	08:25	420	14:32	121	21:08	399
1-11	woe					3:15	154	10:16	415	16:16	137	22:46	401			03:03	124	09:36	430	15:55	92	22:18	412
2-11	don					4:36	139	11:06	428	17:21	126	23:41	411			04:19	94	10:38	434	16:54	67	23:17	417
3-11	vry					5:46	132	11:55	434	18:27	123					05:15	74	11:31	431	17:44	53		
4-11	zat	6:23	VM	0:29	415	6:49	127	12:46	434	19:24	119			00:07	414	06:04	61	12:18	425	18:30	46		
5-11	zon			1:16	415	7:44	121	13:27	431	20:12	117			00:48	408	06:49	51	12:59	421	19:14	41		
6-11	maa			1:56	413	8:33	114	14:05	426	20:56	117			01:23	407	07:34	39	13:38	420	19:57	37		
7-11	din			2:25	412	9:14	110	14:46	419	21:36	122			01:56	412	08:18	29	14:19	419	20:39	39		
8-11	woe			2:56	412	9:57	113	15:30	412	22:16	130			02:34	417	09:02	27	15:05	413	21:21	49		
9-11	don			3:46	412	10:38	118	16:20	404	22:56	138			03:20	417	09:48	37	15:56	398	22:03	68		
10-11	vry	21:36	LK	4:36	411	11:20	125	17:16	395	23:36	146			04:10	410	10:37	56	16:52	380	22:48	91		
11-11	zat			5:36	410	12:03	131	18:16	389					05:07	399	11:37	77	17:55	366	23:54	111		
12-11	zon					0:19	151	6:35	409	12:55	137	19:26	386	06:11	391	12:48	86	19:08	363				
13-11	maa					1:18	156	7:46	409	14:05	137	20:35	387			01:16	114	07:29	392	13:55	81	20:29	375
14-11	din					2:47	152	8:54	412	15:26	126	22:00	394			02:24	100	08:48	404	15:02	69	21:36	394
15-11	woe					3:59	136	10:21	418	16:36	117	23:06	402			03:32	83	09:51	417	16:14	54	22:37	406
16-11	don					5:06	126	11:16	420	17:42	113	23:56	405			04:42	64	10:47	419	17:14	42	23:33	407
17-11	vry					6:06	122	11:55	417	18:33	117					05:38	53	11:37	410	18:02	43		
18-11	zat	12:42	NM	0:36	405	6:54	126	12:36	413	19:17	127			00:17	399	06:24	53	12:13	396	18:43	53		



Referentievlak : LAT				Nieuwe Statenzijl LAT=NAP-260								53.23292° N, 7.20817° O				Emden, Neue Seeschleuse LAT=NAP-230				53.3369° N, 7.1864° O			
datum	dag	maan	stand	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm				
19-11	zon			1:06	407	7:36	133	13:16	411	19:54	138			00:32	394	07:02	58	12:39	390	19:16	63		
20-11	maa			1:30	413	8:13	141	13:46	409	20:26	145			00:52	402	07:34	60	13:11	396	19:45	64		
21-11	din			2:05	418	8:46	147	14:26	405	20:46	150			01:28	417	08:04	57	13:51	405	20:15	63		
22-11	woe			2:36	418	9:07	151	14:45	397	21:06	152			02:09	428	08:36	58	14:34	410	20:47	72		
23-11	don			3:06	412	9:28	155	15:15	387	21:25	153			02:51	431	09:11	70	15:14	405	21:20	93		
24-11	vry			3:35	404	9:56	159	15:55	378	21:56	151			03:29	425	09:45	90	15:51	393	21:51	114		
25-11	zat			4:05	398	10:26	158	16:31	372	22:31	146			04:02	417	10:19	106	16:24	382	22:25	125		
26-11	zon	18:03	EK	4:35	394	11:06	154	17:16	367	23:16	144			04:36	414	10:57	111	17:02	377	23:06	125		
27-11	maa			5:25	392	11:56	151	17:55	364					05:20	413	11:43	107	17:55	377	23:57	120		
28-11	din					0:16	146	6:26	392	12:59	150	18:54	363	06:16	413	12:37	100	19:13	382				
29-11	woe					1:20	149	7:25	392	14:08	146	21:06	373			00:57	114	07:35	413	13:42	92	20:27	392
30-11	don					2:32	147	9:31	404	15:19	136	22:06	388			02:07	106	08:50	417	14:58	79	21:35	402
1-12	vry					3:46	139	10:35	416	16:30	127	23:00	401			03:27	90	09:56	419	16:08	61	22:38	408
2-12	zat					4:52	132	11:26	424	17:36	128	23:55	409			04:34	70	10:55	418	17:06	48	23:32	409
3-12	zon	16:47	VM			6:12	133	12:16	426	18:52	130					05:30	55	11:47	415	17:58	41		
4-12	maa			0:46	413	7:20	129	13:06	423	19:47	128			00:18	407	06:23	42	12:36	411	18:48	36		
5-12	din			1:35	414	8:14	122	13:50	417	20:36	127			00:59	407	07:14	28	13:22	408	19:37	33		
6-12	woe			2:16	414	9:01	116	14:36	409	21:21	128			01:37	411	08:05	17	14:09	404	20:25	35		
7-12	don			2:56	415	9:46	113	15:26	402	22:02	130			02:19	414	08:55	15	14:57	395	21:13	44		
8-12	vry			3:36	417	10:27	114	16:10	397	22:44	133			03:05	413	09:45	24	15:46	384	22:00	60		
9-12	zat			4:25	419	11:09	117	17:00	392	23:23	136			03:55	408	10:36	40	16:39	371	22:49	79		
10-12	zon	8:51	LK	5:15	418	11:53	122	17:56	387					04:48	400	11:28	58	17:36	363	23:45	93		
11-12	maa					0:06	140	6:16	415	12:39	128	18:55	383	05:48	394	12:24	69	18:40	361				
12-12	din					0:56	146	7:16	410	13:36	134	19:56	379			00:46	98	06:57	391	13:21	71	19:51	367
13-12	woe					2:01	151	8:15	404	14:46	136	21:10	377			01:47	93	08:11	393	14:21	67	20:58	376
14-12	don					3:15	148	9:41	400	15:56	134	22:46	384			02:50	83	09:17	395	15:26	61	21:59	384
15-12	vry					4:26	142	10:56	400	16:56	133	23:37	392			04:01	71	10:16	391	16:35	54	22:54	386
16-12	zat					5:22	139	11:46	400	17:56	135					05:05	58	11:09	382	17:28	52	23:39	384
17-12	zon			0:15	398	6:26	141	12:20	399	18:46	140					05:55	53	11:51	373	18:12	56		
18-12	maa	7:30	NM	0:46	403	7:09	145	12:56	397	19:26	146			00:05	386	06:36	54	12:18	373	18:48	61		
19-12	din			1:10	410	7:49	151	13:31	398	20:02	153			00:30	398	07:11	55	12:50	384	19:21	62		
20-12	woe			1:47	416	8:26	156	14:01	397	20:36	156			01:06	415	07:44	54	13:30	397	19:54	62		
21-12	don			2:21	419	9:00	158	14:37	393	20:56	158			01:47	427	08:18	55	14:13	404	20:28	68		
22-12	vry			2:57	416	9:27	162	15:06	387	21:16	158			02:28	430	08:52	63	14:53	400	21:00	82		
23-12	zat			3:26	411	9:56	165	15:24	381	21:25	156			03:04	424	09:26	76	15:29	389	21:31	95		
24-12	zon			3:55	407	10:04	164	16:17	376	22:17	150			03:37	416	09:59	84	16:01	378	22:04	98		
25-12	maa			4:35	404	10:45	157	16:55	372	23:06	144			04:11	411	10:34	83	16:36	372	22:42	92		
26-12	din	10:20	EK	5:16	401	11:42	149	17:41	369	23:56	140			04:51	409	11:16	76	17:18	371	23:28	85		
27-12	woe			6:00	400	12:33	143	18:20	367					05:38	407	12:05	71	18:13	372				
28-12	don					0:52	138	6:55	398	13:36	140	19:20	367			00:22	83	06:36	402	13:02	71	19:37	374
29-12	vry					1:56	139	7:55	397	14:41	137	20:55	374			01:25	86	08:00	397	14:11	72	20:51	379
30-12	zat					3:06	138	9:25	402	15:50	132	22:26	389			02:41	84	09:14	397	15:27	63	22:00	385
31-12	zon					4:21	133	10:56	411	16:55	132	23:26	402			03:56	69	10:21	397	16:32	50	23:02	391