

		Minsener Oog, Buhne C 53°45'0.0"N, 8°1'59.9"E						Wangerooge Minsiner Oog Mellum						Helgoland 54°10'44"N 7°53'24"E						Schillig 53°41'55"N 8°03'05"E						Mellum Schillig Hooksie					
Referentievlak :LAT		HW		lw		HW		lw		HW		lw		HW		lw		HW		lw		HW		lw							
datum	dag	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm						
1-1	maa	02:55	360	09:42	117	15:26	332	21:48	136					02:38	317	09:30	101	15:12	295	21:33	119										
2-1	din	03:25	363	10:16	113	15:59	329	22:22	134					03:09	319	10:02	100	15:47	292	22:07	117										
3-1	woe	04:01	362	10:53	107	16:40	324	23:02	131					03:47	316	10:40	95	16:28	286	22:48	113										
4-1	don	04:45	351	11:35	107	17:29	315	23:48	131					04:33	305	11:25	93	17:16	276	23:37	110										
5-1	vry	05:39	334	12:24	113	18:26	307	00:43	136					05:27	290	12:16	95	18:13	268	00:35	110										
6-1	zat			00:43	136	06:40	318	13:22	122	19:27	305					00:35	110	06:30	276	13:14	99	19:19	265								
7-1	zon	01:08 VM		01:49	139	07:46	311	14:28	126	20:29	313					01:41	110	07:40	270	14:18	101	20:25	271								
8-1	maa			03:02	134	08:50	315	15:34	119	21:31	329					02:54	107	08:46	273	15:22	97	21:24	285								
9-1	din			04:10	119	09:55	326	16:36	106	22:30	349					04:01	97	09:46	282	16:22	89	22:17	301								
10-1	woe			05:12	100	10:57	339	17:34	92	23:25	366					05:01	84	10:41	291	17:18	80	23:08	314								
11-1	don			06:09	80	11:56	348	18:29	80							05:57	68	11:35	297	18:12	70	23:56	321								
12-1	vry			00:17	376	07:02	63	12:51	351	19:20	72					06:51	54	12:27	296	19:04	63										
13-1	zat			01:05	381	07:52	49	13:42	348	20:09	65			00:43	323	07:43	42	13:17	292	19:52	56										
14-1	zon			01:51	384	08:39	39	14:29	344	20:53	59			01:30	323	08:31	35	14:04	287	20:38	51										
15-1	maa	03:10 LK		02:35	390	09:24	34	15:13	340	21:36	53			02:16	325	09:17	31	14:50	283	21:21	46										
16-1	din			03:20	396	10:07	33	15:56	338	22:18	51			03:02	328	10:01	31	15:35	281	22:04	44										
17-1	woe			04:05	398	10:50	39	16:40	333	23:00	55			03:48	329	10:44	35	16:20	278	22:49	46										
18-1	don			04:54	391	11:35	52	17:28	324	23:46	67			04:36	324	11:31	44	17:08	272	23:38	52										
19-1	vry			05:48	371	12:25	69	18:23	310	00:41	83			05:28	311	12:22	55	18:01	263	00:36	61										
20-1	zat			00:41	83	06:51	344	13:23	86	19:28	297					00:36	61	06:28	292	13:21	67	19:02	254								
21-1	zon	21:53 NM		01:49	95	08:02	321	14:31	97	20:39	293			01:46	67	07:38	273	14:29	74	20:11	250										
22-1	maa			03:05	94	09:17	311	15:42	97	21:48	301			03:03	66	08:55	262	15:44	74	21:24	255										
23-1	din			04:19	81	10:28	317	16:51	88	22:51	318			04:24	56	10:11	264	16:55	68	22:33	268										
24-1	woe			05:26	66	11:30	330	17:54	80	23:45	336			05:29	47	11:13	274	17:49	63	23:29	284										
25-1	don			06:24	62	12:21	342	18:46	79					06:19	47	12:03	286	18:34	65												
26-1	vry			00:31	349	07:11	70	13:04	345	19:29	88			00:16	296	07:01	55	12:45	293	19:13	73										
27-1	zat			01:10	355	07:52	85	13:40	343	20:05	100			00:54	304	07:38	68	13:20	296	19:46	83										
28-1	zon	16:19 EK		01:42	358	08:26	95	14:10	341	20:35	106			01:24	308	08:10	78	13:49	297	20:16	90										
29-1	maa			02:10	360	08:56	93	14:37	341	21:03	103			01:50	311	08:39	79	14:17	298	20:45	89										
30-1	din			02:37	364	09:25	83	15:05	343	21:33	94			02:17	314	09:07	74	14:46	297	21:13	83										
31-1	woe			03:06	365	09:55	72	15:36	341	22:03	87			02:48	313	09:36	66	15:18	293	21:43	75										
1-2	don			03:39	360	10:25	70	16:07	335	22:34	85			03:23	306	10:07	63	15:52	285	22:17	72										
2-2	vry			04:14	349	10:56	78	16:40	325	23:09	91			03:58	296	10:40	68	16:26	277	22:54	77										
3-2	zat			04:52	334	11:33	94	17:17	315	23:50	105			04:38	284	11:19	79	17:07	270	23:38	88										
4-2	zon			05:39	319	12:18	114	18:08	308	00:43	123			05:26	274	12:07	94	18:00	267	00:36	101										
5-2	maa	19:28 VM		00:43	123	06:41	308	13:19	132	19:17	308					00:36	101	06:28	267	13:09	106	19:11	270								
6-2	din			01:55	136	07:55	306	14:39	137	20:37	317			01:52	108	07:46	266	14:26	108	20:31	280										
7-2	woe			03:25	129	09:16	314	16:02	121	21:57	337			03:19	100	09:07	272	15:47	98	21:44	294										
8-2	don			04:48	101	10:37	330	17:16	96	23:06	358			04:37	79	10:22	282	16:59	80	22:48	306										
9-2	vry			05:55	69	11:45	344	18:18	72					05:43	55	11:25	288	18:01	62	23:43	312										



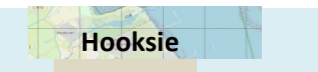




Referentievlak :LAT lw



54°10'44"N 7°53'24"E



datum	dag	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm
21-6	vry	00:04	353	06:41	70	12:31	375	19:11	68										
22-6	zat	00:53	364	07:27	60	13:17	387	19:57	62	00:36	300	07:09	50	12:58	324	19:43	53	01:07	384
23-6	zon	01:42	368	08:13	60	14:03	392	20:43	59	01:21	304	07:54	50	13:42	330	20:30	49	01:56	388
24-6	maa	02:30	363	08:58	60	14:45	392	21:28	57	02:08	302	08:39	50	14:25	329	21:17	47	02:44	383
25-6	din	03:16	353	09:41	70	15:26	390	22:11	54	02:55	294	09:23	60	15:08	326	22:01	44	03:30	373
26-6	woe	03:58	343	10:22	70	16:07	393	22:54	49	03:40	286	10:05	60	15:50	325	22:45	40	04:12	363
27-6	don	04:41	339	11:04	60	16:51	399	23:38	46	04:26	281	10:49	50	16:36	326	23:30	36	04:55	359
28-6	vry	05:28	338	11:48	60	17:41	402	00:26	40	05:13	279	11:37	50	17:26	328	00:21	30	05:42	358
29-6	zat			00:26	40	06:20	336	12:38	65	18:37	398	00:21	30	06:05	278	12:30	51	18:21	326
30-6	zon			01:21	50	07:20	332	13:36	73	19:40	386	01:18	30	07:02	275	13:30	56	19:22	319
1-7	maa			02:22	60	08:25	326	14:41	83	20:48	371	02:20	40	08:03	272	14:37	61	20:28	308
2-7	din	13:39 VM		03:28	60	09:32	322	15:52	84	21:56	357	03:25	50	09:06	269	15:48	62	21:33	297
3-7	woe			04:31	60	10:35	325	17:00	74	23:02	349	04:29	50	10:08	271	16:57	56	22:39	289
4-7	don			05:33	60	11:33	333	18:05	59			05:32	50	11:07	277	18:04	45	23:42	288
5-7	vry			00:04	349	06:33	50	12:27	344	19:05	47	06:30	50	12:04	287	19:01	35	00:18	369
6-7	zat			01:02	353	07:30	50	13:18	356	19:59	46	00:40	292	07:21	40	12:57	298	19:51	34
7-7	zon			01:54	358	08:21	60	14:06	364	20:47	57	01:31	297	08:06	50	13:45	307	20:36	43
8-7	maa			02:41	357	09:05	80	14:49	367	21:29	76	02:18	300	08:47	60	14:28	312	21:16	59
9-7	din	03:48 LK		03:21	352	09:43	90	15:26	368	22:05	94	02:58	299	09:24	70	15:04	315	21:52	76
10-7	woe			03:56	345	10:15	110	15:57	370	22:38	101	03:33	297	09:56	90	15:34	318	22:23	85
11-7	don			04:26	342	10:46	110	16:27	375	23:11	97	04:03	297	10:26	90	16:04	322	22:54	85
12-7	vry			04:59	342	11:19	110	17:02	376	23:47	90	04:36	296	10:58	90	16:39	322	23:29	80
13-7	zat			05:38	341	11:56	100	17:44	369	00:26	80	05:15	293	11:37	90	17:23	314	00:11	70
14-7	zon			00:26	80	06:23	334	12:39	108	18:33	353	00:11	70	06:02	284	12:23	91	18:15	299
15-7	maa			01:11	90	07:14	324	13:29	117	19:28	334	01:00	80	06:57	275	13:17	95	19:16	282
16-7	din	20:32 NM		02:04	110	08:09	318	14:28	128	20:28	322	01:55	90	08:00	269	14:19	102	20:24	273
17-7	woe			03:06	120	09:08	320	15:38	132	21:31	322	02:55	90	09:04	273	15:29	105	21:28	274
18-7	don			04:13	120	10:10	334	16:50	124	22:34	333	03:58	90	10:04	287	16:37	100	22:27	283
19-7	vry			05:16	110	11:11	356	17:55	107	23:37	348	04:57	90	10:59	305	17:38	89	23:23	294
20-7	zat			06:15	90	12:08	377	18:53	88			05:54	80	11:51	322	18:36	75		
21-7	zon			00:37	360	07:11	80	13:01	391	19:46	70	00:17	303	06:50	70	12:40	332	19:30	60
22-7	maa			01:32	365	08:03	70	13:50	397	20:36	55	01:09	305	07:42	60	13:28	334	20:22	48
23-7	din			02:23	362	08:51	60	14:35	399	21:22	44	01:58	301	08:31	50	14:13	332	21:10	39
24-7	woe			03:10	357	09:35	50	15:18	403	22:05	36	02:44	294	09:16	50	14:57	332	21:54	34
25-7	don	00:07 EK		03:53	353	10:17	50	16:00	411	22:47	30	03:28	290	09:59	40	15:40	336	22:36	31
26-7	vry			04:35	353	10:57	40	16:43	418	23:29	30	04:11	289	10:40	40	16:24	340	23:18	30
27-7	zat			05:18	353	11:39	40	17:29	416	00:11	30	04:55	289	11:23	30	17:10	339	00:02	30
28-7	zon			00:11	30	06:04	348	12:22	52	18:20	401	00:02	30	05:41	286	12:09	44	17:59	329
29-7	maa			00:58	50	06:55	336	13:12	69	19:18	375	00:50	40	06:32	279	13:02	54	18:55	311
30-7	din			01:52	70	07:55	323	14:13	86	20:26	349	01:45	60	07:30	270	14:07	65	20:01	291
31-7	woe	20:32 VM		02:56	90	09:03	316	15:27	93	21:39	335	02:51	70	08:36	265	15:24	69	21:15	277
1-8	don			04:08	90	10:13	321	16:43	85	22:52	337	04:04	70	09:49	268	16:45	63	22:33	277
2-8	vry			05:19	80	11:19	339	17:56	69	23:58	351	05:19	70	11:01	282	17:58	52	23:41	287
3-8	zat			06:26	70	12:19	361	19:00	58			06:22	60	12:02	300	18:56	47	00:12	371





Referentievlak :LAT lw



54°10'44"N 7°53'24"E



datum	dag	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm
31-10	don			05:49	100	11:32	383	18:08	86	23:52	368			05:37	85	11:19	324	17:57	76	23:36	311
1-11	vry			06:24	91	12:00	372	18:39	84					06:10	79	11:45	313	18:25	74	00:06	388
2-11	zat	00:18	372	06:55	81	12:29	374	19:08	77	00:01	311	06:39	73	12:12	311	18:52	71			00:32	392
3-11	zon	00:48	384	07:26	72	13:04	382	19:40	73	00:29	319	07:10	68	12:44	316	19:23	71			01:02	404
4-11	maa	09:17 LK		08:00	72	13:42	384	20:14	82	01:02	327	07:44	71	13:21	318	19:56	81			01:39	413
5-11	din			08:35	86	14:20	376	20:47	103	01:39	330	08:20	84	13:58	313	20:28	100			02:16	413
6-11	woe			09:09	108	14:54	358	21:17	127	02:12	327	08:53	101	14:30	303	20:57	119			02:50	405
7-11	don			09:41	124	15:27	342	21:47	141	02:38	324	09:26	114	15:01	293	21:28	130			03:20	396
8-11	vry			10:17	129	16:07	332	22:25	145	03:07	324	10:07	118	15:45	286	22:12	134			03:54	393
9-11	zat			11:05	127	17:03	326	23:20	148	03:56	323	11:04	114	16:51	282	23:19	133			04:39	393
10-11	zon			12:10	124	18:18	326	00:35	149	05:10	320	12:17	104	18:11	282	00:38	124			05:41	392
11-11	maa			00:35	149	06:44	373	13:33	113	19:42	335			00:38	124	06:33	321	13:38	88	19:34	289
12-11	din	10:27 NM		02:02	137	08:06	383	14:56	91	21:01	352			02:01	109	07:56	327	14:55	71	20:49	298
13-11	woe			03:21	113	09:18	397	16:03	69	22:05	365			03:17	93	09:07	334	16:02	59	21:49	304
14-11	don			04:26	92	10:17	405	17:00	57	22:57	370			04:21	80	10:04	338	16:59	55	22:38	307
15-11	vry			05:22	76	11:09	406	17:51	51	23:41	374			05:17	70	10:52	338	17:49	55	23:19	311
16-11	zat			06:12	60	11:57	404	18:38	46					06:07	59	11:37	336	18:33	53		
17-11	zon			06:58	43	12:46	400	19:22	44	00:00	316	06:53	46	12:24	333	19:15	50			00:36	400
18-11	maa	11:50 EK		07:44	32	13:37	392	20:05	49	00:44	322	07:38	36	13:14	326	19:57	52			01:19	407
19-11	din			08:29	34	14:26	378	20:47	67	01:31	324	08:24	36	14:05	315	20:37	63			02:04	408
20-11	woe			09:11	53	15:13	358	21:25	95	02:18	320	09:08	49	14:55	301	21:16	83			02:47	401
21-11	don			09:51	84	15:56	337	22:01	125	03:02	313	09:50	73	15:40	287	21:53	107			03:28	389
22-11	vry			10:32	115	16:37	322	22:40	149	03:42	309	10:32	98	16:23	279	22:32	127			04:08	379
23-11	zat			11:18	137	17:27	316	23:29	165	04:26	309	11:23	115	17:14	277	23:26	140			04:53	375
24-11	zon			12:18	148	18:29	318	00:36	172	05:23	312	12:27	121	18:21	280	00:41	142			05:51	376
25-11	maa			00:36	172	06:48	359	13:32	143	19:39	327			00:41	142	06:39	315	13:38	113	19:35	288
26-11	din	10:16 VM		01:56	164	08:01	363	14:44	125	20:46	338			02:01	130	07:56	316	14:45	99	20:43	295
27-11	woe			03:11	142	09:06	362	15:46	106	21:45	347			03:11	111	09:02	314	15:44	85	21:39	299
28-11	don			04:13	118	10:02	356	16:37	95	22:31	352			04:09	94	09:55	306	16:34	79	22:22	299
29-11	vry			05:03	101	10:46	349	17:20	91	23:07	358			04:56	83	10:37	298	17:13	77	22:57	301
30-11	zat			05:44	89	11:22	350	17:58	87	23:42	370			05:34	77	11:11	296	17:46	77	23:28	309
1-12	zon			06:22	80	12:00	360	18:35	82					06:08	74	11:45	301	18:19	76		
2-12	maa			07:00	76	12:40	370	19:13	82	00:02	322	06:45	72	12:21	309	18:56	78			00:34	405
3-12	din			07:39	78	13:23	371	19:52	90	00:40	332	07:26	75	13:03	312	19:34	86			01:14	414
4-12	woe	06:49 LK		08:18	88	14:03	361	20:29	105	01:19	336	08:07	82	13:44	306	20:12	98			01:53	413
5-12	don			08:56	99	14:40	346	21:04	118	01:56	332	08:46	90	14:25	296	20:47	107			02:29	407
6-12	vry			09:33	103	15:17	333	21:39	122	02:29	327	09:25	92	15:04	286	21:25	109			03:03	401
7-12	zat			10:13	99	15:58	328	22:20	118	03:06	325	10:07	87	15:49	281	22:12	105			03:40	401
8-12	zon			11:00	91	16:50	326	23:12	114	03:55	324	10:59	79	16:44	279	23:10	99			04:27	403
9-12	maa			11:58	88	17:54	324	00:15	115	04:56	323	12:00	72	17:47	279	00:15	94			05:23	401
10-12	din			00:15	115	06:16	377	13:06	87	19:08	324			00:15	94	06:03	321	13:09	68	18:56	279
11-12	woe			01:28	116	07:30	373	14:19	83	20:23	328			01:27	92	07:16	319	14:20	66	20:05	281
12-12	don	00:32 NM		02:42	110	08:41	370	15:25	77	21:29	333			02:41	87	08:26	316	15:26	66	21:08	283
13-12	vry			03:50	98	09:45	366	16:25	71	22:25	340			03:50	80	09:28	312	16:27	65	22:02	287



Referentievlak :LAT lw



54°10'44"N 7°53'24"E



datum	dag	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	lw	cm	HW	cm	HW	cm	lw	cm	HW	cm										
14-12	zat			04:52	81	10:45	363	17:21	65	23:14	349			04:51	69	10:25	309	17:21	63	22:51	294			04:57	81	10:59	383	17:26	65	23:28	369
15-12	zon			05:49	62	11:42	362	18:15	61					05:48	55	11:19	307	18:11	58	23:40	303			05:54	62	11:56	382	18:20	61		
16-12	maa	00:02	359	06:42	46	12:37	363	19:06	61					06:39	41	12:14	307	18:58	55			00:16	379	06:47	46	12:51	383	19:11	61		
17-12	din	00:51	366	07:33	42	13:31	362	19:55	69	00:30	310	07:28	36	13:07	305	19:44	58			01:05	386	07:38	42	13:45	382	20:00	69				
18-12	woe	09:39 EK		08:21	52	14:20	355	20:39	87	01:20	314	08:15	43	13:57	301	20:27	71			01:53	389	08:26	52	14:34	375	20:44	87				
19-12	don			09:04	75	15:03	342	21:17	110	02:07	314	08:59	61	14:42	294	21:05	90			02:38	385	09:09	75	15:17	362	21:22	110				
20-12	vry			09:42	100	15:39	330	21:50	129	02:46	312	09:38	83	15:20	287	21:39	108			03:17	380	09:47	100	15:53	350	21:55	129				
21-12	zat			10:18	117	16:12	323	22:24	138	03:19	313	10:13	99	15:54	284	22:11	119			03:50	378	10:23	117	16:26	343	22:29	138				
22-12	zon			10:57	121	16:51	321	23:04	140	03:53	316	10:50	105	16:33	284	22:52	121			04:26	380	11:02	121	17:05	341	23:09	140				
23-12	maa			11:42	118	17:42	320	23:55	141	04:38	314	11:37	103	17:25	281	23:47	118			05:11	379	11:47	118	17:56	340	00:00	141				
24-12	din			12:37	117	18:41	316	00:57	141	05:38	305	12:36	98	18:30	277	00:54	113					00:00	141	06:08	370	12:42	117	18:55	336		
25-12	woe			00:57	141	06:59	334	13:40	119	19:44	313	00:54	113	06:52	291	13:40	95	19:39	272			01:02	141	07:13	354	13:45	119	19:58	333		
26-12	don			02:08	138	08:05	319	14:46	119	20:46	314	02:07	107	08:04	279	14:45	93	20:41	272			02:13	138	08:19	339	14:51	119	21:00	334		
27-12	vry	01:33 VM		03:19	128	09:07	312	15:46	117	21:41	323	03:15	99	09:05	272	15:42	93	21:34	277			03:24	128	09:21	332	15:51	117	21:55	343		
28-12	zat			04:20	116	10:02	315	16:38	112	22:30	338	04:11	93	09:57	273	16:30	92	22:19	289			04:25	116	10:16	335	16:43	112	22:44	358		
29-12	zon			05:11	104	10:52	327	17:26	104	23:16	358	04:59	88	10:41	281	17:12	89	23:01	305			05:16	104	11:06	347	17:31	104	23:30	378		
30-12	maa			05:58	93	11:39	342	18:12	96			05:43	82	11:24	292	17:55	85	23:43	320			06:03	93	11:53	362	18:17	96				
31-12	din			06:43	85	12:26	352	18:58	91			06:29	75	12:08	300	18:39	82			00:15	395	06:48	85	12:40	372	19:03	91				