

Tjornes Watec All-Sky Images 20221128–20221129

18:36:01 UT N	TJO	18:37:01 UT N	TJO	18:38:01 UT N	TJO	18:39:01 UT N	TJO	18:40:01 UT N	TJO	18:41:01 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
18:42:01 UT N	TJO	18:43:01 UT N	TJO	18:44:01 UT N	TJO	18:45:01 UT N	TJO	18:46:01 UT N	TJO	18:47:02 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
18:48:02 UT N	TJO	18:49:02 UT N	TJO	18:50:02 UT N	TJO	18:51:02 UT N	TJO	18:52:02 UT N	TJO	18:53:02 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
18:54:02 UT N	TJO	18:55:02 UT N	TJO	18:56:02 UT N	TJO	18:57:02 UT N	TJO	18:58:02 UT N	TJO	18:59:02 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
19:00:02 UT N	TJO	19:01:02 UT N	TJO	19:02:02 UT N	TJO	19:03:02 UT N	TJO	19:04:02 UT N	TJO	19:05:02 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
19:06:02 UT N	TJO	19:07:02 UT N	TJO	19:08:02 UT N	TJO	19:09:02 UT N	TJO	19:10:02 UT N	TJO	19:11:02 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S

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19:12:02 UT N	TJO	19:13:02 UT N	TJO	19:14:02 UT N	TJO	19:15:02 UT N	TJO	19:16:02 UT N	TJO	19:17:02 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
19:18:02 UT N	TJO	19:19:02 UT N	TJO	19:20:02 UT N	TJO	19:21:02 UT N	TJO	19:22:03 UT N	TJO	19:23:03 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
19:24:03 UT N	TJO	19:25:03 UT N	TJO	19:26:03 UT N	TJO	19:27:03 UT N	TJO	19:28:03 UT N	TJO	19:29:03 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
19:30:03 UT N	TJO	19:31:03 UT N	TJO	19:32:03 UT N	TJO	19:33:03 UT N	TJO	19:34:03 UT N	TJO	19:35:03 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
19:36:03 UT N	TJO	19:37:03 UT N	TJO	19:38:03 UT N	TJO	19:39:03 UT N	TJO	19:40:03 UT N	TJO	19:41:03 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
19:42:03 UT N	TJO	19:43:03 UT N	TJO	19:44:03 UT N	TJO	19:45:03 UT N	TJO	19:46:03 UT N	TJO	19:47:03 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S

Tjornes Watec All-Sky Images 20221128–20221129

19:48:03 UT N	TJO	19:49:03 UT N	TJO	19:50:03 UT N	TJO	19:51:03 UT N	TJO	19:52:03 UT N	TJO	19:53:04 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
19:54:04 UT N	TJO	19:55:04 UT N	TJO	19:56:04 UT N	TJO	19:57:04 UT N	TJO	19:58:04 UT N	TJO	19:59:04 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
20:00:04 UT N	TJO	20:01:04 UT N	TJO	20:02:04 UT N	TJO	20:03:04 UT N	TJO	20:04:04 UT N	TJO	20:05:04 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
20:06:04 UT N	TJO	20:07:04 UT N	TJO	20:08:04 UT N	TJO	20:09:04 UT N	TJO	20:10:04 UT N	TJO	20:11:04 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
20:12:04 UT N	TJO	20:13:04 UT N	TJO	20:14:04 UT N	TJO	20:15:04 UT N	TJO	20:16:04 UT N	TJO	20:17:04 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
20:18:04 UT N	TJO	20:19:04 UT N	TJO	20:20:04 UT N	TJO	20:21:04 UT N	TJO	20:22:04 UT N	TJO	20:23:04 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S

Tjornes Watec All-Sky Images 20221128–20221129

21:36:07 UT N	TJO	21:37:07 UT N	TJO	21:38:07 UT N	TJO	21:39:07 UT N	TJO	21:40:07 UT N	TJO	21:41:07 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
21:42:07 UT N	TJO	21:43:07 UT N	TJO	21:44:07 UT N	TJO	21:45:07 UT N	TJO	21:46:07 UT N	TJO	21:47:07 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
21:48:07 UT N	TJO	21:49:07 UT N	TJO	21:50:07 UT N	TJO	21:51:07 UT N	TJO	21:52:07 UT N	TJO	21:53:07 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
21:54:07 UT N	TJO	21:55:07 UT N	TJO	21:56:07 UT N	TJO	21:57:07 UT N	TJO	21:58:07 UT N	TJO	21:59:07 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
22:00:07 UT N	TJO	22:01:07 UT N	TJO	22:02:07 UT N	TJO	22:03:07 UT N	TJO	22:04:07 UT N	TJO	22:05:08 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
22:06:08 UT N	TJO	22:07:08 UT N	TJO	22:08:08 UT N	TJO	22:09:08 UT N	TJO	22:10:08 UT N	TJO	22:11:08 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S

Tjornes Watec All-Sky Images 20221128–20221129

22:12:08 UT N	TJO	22:13:08 UT N	TJO	22:14:08 UT N	TJO	22:15:08 UT N	TJO	22:16:08 UT N	TJO	22:17:08 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
22:18:08 UT S N	TJO	22:19:08 UT S N	TJO	22:20:08 UT S N	TJO	22:21:08 UT S N	TJO	22:22:08 UT S N	TJO	22:23:08 UT S N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
22:24:08 UT S N	TJO	22:25:08 UT S N	TJO	22:26:08 UT S N	TJO	22:27:08 UT S N	TJO	22:28:08 UT S N	TJO	22:29:08 UT S N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
22:30:08 UT S N	TJO	22:31:08 UT S N	TJO	22:32:08 UT S N	TJO	22:33:08 UT S N	TJO	22:34:08 UT S N	TJO	22:35:08 UT S N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
22:36:08 UT S N	TJO	22:37:08 UT S N	TJO	22:38:08 UT S N	TJO	22:39:08 UT S N	TJO	22:40:09 UT S N	TJO	22:41:09 UT S N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
22:42:09 UT S N	TJO	22:43:09 UT S N	TJO	22:44:09 UT S N	TJO	22:45:09 UT S N	TJO	22:46:09 UT S N	TJO	22:47:09 UT S N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S

Tjornes Watec All-Sky Images 20221128–20221129

23:24:10 UT N	TJO	23:25:10 UT N	TJO	23:26:10 UT N	TJO	23:27:10 UT N	TJO	23:28:10 UT N	TJO	23:29:10 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
23:30:10 UT N	TJO	23:31:10 UT N	TJO	23:32:10 UT N	TJO	23:33:10 UT N	TJO	23:34:10 UT N	TJO	23:35:10 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
23:36:10 UT N	TJO	23:37:10 UT N	TJO	23:38:10 UT N	TJO	23:39:10 UT N	TJO	23:40:10 UT N	TJO	23:41:10 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
23:42:10 UT N	TJO	23:43:10 UT N	TJO	23:44:11 UT N	TJO	23:45:11 UT N	TJO	23:46:11 UT N	TJO	23:47:11 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
23:48:11 UT N	TJO	23:49:11 UT N	TJO	23:50:11 UT N	TJO	23:51:11 UT N	TJO	23:52:11 UT N	TJO	23:53:11 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
23:54:11 UT N	TJO	23:55:11 UT N	TJO	23:56:11 UT N	TJO	23:57:11 UT N	TJO	23:58:11 UT N	TJO	23:59:11 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S

Tjornes Watec All-Sky Images 20221128–20221129

00:00:11 UT N	TJO	00:01:11 UT N	TJO	00:02:11 UT N	TJO	00:03:11 UT N	TJO	00:04:11 UT N	TJO	00:05:11 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
00:06:11 UT S N	TJO	00:07:11 UT S N	TJO	00:08:11 UT S N	TJO	00:09:11 UT S N	TJO	00:10:11 UT S N	TJO	00:11:11 UT S N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
00:12:11 UT S N	TJO	00:13:11 UT S N	TJO	00:14:11 UT S N	TJO	00:15:11 UT S N	TJO	00:16:11 UT S N	TJO	00:17:12 UT S N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
00:18:12 UT S N	TJO	00:19:12 UT S N	TJO	00:20:12 UT S N	TJO	00:21:12 UT S N	TJO	00:22:12 UT S N	TJO	00:23:12 UT S N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
00:24:12 UT S N	TJO	00:25:12 UT S N	TJO	00:26:12 UT S N	TJO	00:27:12 UT S N	TJO	00:28:12 UT S N	TJO	00:29:12 UT S N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
00:30:12 UT S N	TJO	00:31:12 UT S N	TJO	00:32:12 UT S N	TJO	00:33:12 UT S N	TJO	00:34:12 UT S N	TJO	00:35:12 UT S N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S

Tjornes Watec All-Sky Images 20221128–20221129

01:12:13 UT N	TJO	01:13:13 UT N	TJO	01:14:13 UT N	TJO	01:15:13 UT N	TJO	01:16:13 UT N	TJO	01:17:13 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
01:18:14 UT N	TJO	01:19:14 UT N	TJO	01:20:14 UT N	TJO	01:21:14 UT N	TJO	01:22:14 UT N	TJO	01:23:14 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
01:24:14 UT N	TJO	01:25:14 UT N	TJO	01:26:14 UT N	TJO	01:27:14 UT N	TJO	01:28:14 UT N	TJO	01:29:14 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
01:30:14 UT N	TJO	01:31:14 UT N	TJO	01:32:14 UT N	TJO	01:33:14 UT N	TJO	01:34:14 UT N	TJO	01:35:14 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
01:36:14 UT N	TJO	01:37:14 UT N	TJO	01:38:14 UT N	TJO	01:39:14 UT N	TJO	01:40:14 UT N	TJO	01:41:14 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
01:42:14 UT N	TJO	01:43:14 UT N	TJO	01:44:14 UT N	TJO	01:45:14 UT N	TJO	01:46:14 UT N	TJO	01:47:14 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	

Tjornes Watec All-Sky Images 20221128–20221129

02:24:15 UT N	TJO	02:25:15 UT N	TJO	02:26:15 UT N	TJO	02:27:15 UT N	TJO	02:28:15 UT N	TJO	02:29:15 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
02:30:16 UT N	TJO	02:31:16 UT N	TJO	02:32:16 UT N	TJO	02:33:16 UT N	TJO	02:34:16 UT N	TJO	02:35:16 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
02:36:16 UT N	TJO	02:37:16 UT N	TJO	02:38:16 UT N	TJO	02:39:16 UT N	TJO	02:40:16 UT N	TJO	02:41:16 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
02:42:16 UT N	TJO	02:43:16 UT N	TJO	02:44:16 UT N	TJO	02:45:16 UT N	TJO	02:46:16 UT N	TJO	02:47:16 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
02:48:16 UT N	TJO	02:49:16 UT N	TJO	02:50:16 UT N	TJO	02:51:16 UT N	TJO	02:52:16 UT N	TJO	02:53:16 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
02:54:16 UT N	TJO	02:55:16 UT N	TJO	02:56:16 UT N	TJO	02:57:16 UT N	TJO	02:58:16 UT N	TJO	02:59:16 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S

Tjornes Watec All-Sky Images 20221128–20221129

03:00:16 UT N	TJO	03:01:16 UT N	TJO	03:02:16 UT N	TJO	03:03:16 UT N	TJO	03:04:16 UT N	TJO	03:05:17 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
03:06:17 UT N	TJO	03:07:17 UT N	TJO	03:08:17 UT N	TJO	03:09:17 UT N	TJO	03:10:17 UT N	TJO	03:11:17 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
03:12:17 UT N	TJO	03:13:17 UT N	TJO	03:14:17 UT N	TJO	03:15:17 UT N	TJO	03:16:17 UT N	TJO	03:17:17 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
03:18:17 UT N	TJO	03:19:17 UT N	TJO	03:20:17 UT N	TJO	03:21:17 UT N	TJO	03:22:17 UT N	TJO	03:23:17 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
03:24:17 UT N	TJO	03:25:17 UT N	TJO	03:26:17 UT N	TJO	03:27:17 UT N	TJO	03:28:17 UT N	TJO	03:29:17 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
03:30:17 UT N	TJO	03:31:17 UT N	TJO	03:32:17 UT N	TJO	03:33:17 UT N	TJO	03:34:17 UT N	TJO	03:35:17 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	

Tjornes Watec All-Sky Images 20221128–20221129

05:24:21 UT N	TJO	05:25:21 UT N	TJO	05:26:21 UT N	TJO	05:27:21 UT N	TJO	05:28:21 UT N	TJO	05:29:21 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
05:30:21 UT N	TJO	05:31:21 UT N	TJO	05:32:21 UT N	TJO	05:33:21 UT N	TJO	05:34:21 UT N	TJO	05:35:21 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
05:36:21 UT N	TJO	05:37:21 UT N	TJO	05:38:21 UT N	TJO	05:39:21 UT N	TJO	05:40:21 UT N	TJO	05:41:21 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
05:42:21 UT N	TJO	05:43:21 UT N	TJO	05:44:21 UT N	TJO	05:45:21 UT N	TJO	05:46:21 UT N	TJO	05:47:21 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
05:48:21 UT N	TJO	05:49:21 UT N	TJO	05:50:21 UT N	TJO	05:51:21 UT N	TJO	05:52:21 UT N	TJO	05:53:21 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
05:54:21 UT N	TJO	05:55:21 UT N	TJO	05:56:22 UT N	TJO	05:57:22 UT N	TJO	05:58:22 UT N	TJO	05:59:22 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S

Tjornes Watec All-Sky Images 20221128–20221129

06:00:22 UT N	TJO	06:01:22 UT N	TJO	06:02:22 UT N	TJO	06:03:22 UT N	TJO	06:04:22 UT N	TJO	06:05:22 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
06:06:22 UT N	TJO	06:07:22 UT N	TJO	06:08:22 UT N	TJO	06:09:22 UT N	TJO	06:10:22 UT N	TJO	06:11:22 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
06:12:22 UT N	TJO	06:13:22 UT N	TJO	06:14:22 UT N	TJO	06:15:22 UT N	TJO	06:16:22 UT N	TJO	06:17:22 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
06:18:22 UT N	TJO	06:19:22 UT N	TJO	06:20:22 UT N	TJO	06:21:22 UT N	TJO	06:22:22 UT N	TJO	06:23:22 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
06:24:22 UT N	TJO	06:25:22 UT N	TJO	06:26:22 UT N	TJO	06:27:22 UT N	TJO	06:28:22 UT N	TJO	06:29:22 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
06:30:22 UT N	TJO	06:31:23 UT N	TJO	06:32:23 UT N	TJO	06:33:23 UT N	TJO	06:34:23 UT N	TJO	06:35:23 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S

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07:12:24 UT N	TJO	07:13:24 UT N	TJO	07:14:24 UT N	TJO	07:15:24 UT N	TJO	07:16:24 UT N	TJO	07:17:24 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
07:18:24 UT N	TJO	07:19:24 UT N	TJO	07:20:24 UT N	TJO	07:21:24 UT N	TJO	07:22:24 UT N	TJO	07:23:24 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
07:24:24 UT N	TJO	07:25:24 UT N	TJO	07:26:24 UT N	TJO	07:27:24 UT N	TJO	07:28:24 UT N	TJO	07:29:24 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
07:30:24 UT N	TJO	07:31:24 UT N	TJO	07:32:24 UT N	TJO	07:33:25 UT N	TJO	07:34:25 UT N	TJO	07:35:25 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
07:36:25 UT N	TJO	07:37:25 UT N	TJO	07:38:25 UT N	TJO	07:39:25 UT N	TJO	07:40:25 UT N	TJO	07:41:25 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
07:42:25 UT N	TJO	07:43:25 UT N	TJO	07:44:25 UT N	TJO	07:45:25 UT N	TJO	07:46:25 UT N	TJO	07:47:25 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S

