











# Tjornes Watec All-Sky Images 20221204–20221205

21:00:05 UT N	TJO	21:01:05 UT N	TJO	21:02:05 UT N	TJO	21:03:05 UT N	TJO	21:04:05 UT N	TJO	21:05:05 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
21:06:05 UT N	TJO	21:07:05 UT N	TJO	21:08:05 UT N	TJO	21:09:05 UT N	TJO	21:10:06 UT N	TJO	21:11:06 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
21:12:06 UT N	TJO	21:13:06 UT N	TJO	21:14:06 UT N	TJO	21:15:06 UT N	TJO	21:16:06 UT N	TJO	21:17:06 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
21:18:06 UT N	TJO	21:19:06 UT N	TJO	21:20:06 UT N	TJO	21:21:06 UT N	TJO	21:22:06 UT N	TJO	21:23:06 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
21:24:06 UT N	TJO	21:25:06 UT N	TJO	21:26:06 UT N	TJO	21:27:06 UT N	TJO	21:28:06 UT N	TJO	21:29:06 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
21:30:06 UT N	TJO	21:31:06 UT N	TJO	21:32:06 UT N	TJO	21:33:06 UT N	TJO	21:34:06 UT N	TJO	21:35:06 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 20221204–20221205

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
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
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
23:42:10 UT N	TJO	23:43:10 UT N	TJO	23:44:10 UT N	TJO	23:45:10 UT N	TJO	23:46:10 UT N	TJO	23:47:10 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
23:48:10 UT N	TJO	23:49:10 UT N	TJO	23:50:10 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
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 20221204–20221205

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	00:17:11 UT S N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
00:18:11 UT S N	TJO	00:19:11 UT S N	TJO	00:20:11 UT S N	TJO	00:21:11 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 20221204–20221205

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
S		S		S		S		S		S		S
02:30:15 UT N	TJO	02:31:15 UT N	TJO	02:32:15 UT N	TJO	02:33:15 UT N	TJO	02:34:15 UT N	TJO	02:35:15 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
02:36:15 UT N	TJO	02:37:15 UT N	TJO	02:38:15 UT N	TJO	02:39:15 UT N	TJO	02:40:15 UT N	TJO	02:41:15 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
02:42:15 UT N	TJO	02:43:15 UT N	TJO	02:44:15 UT N	TJO	02:45:15 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
S		S		S		S		S		S		S
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
S		S		S		S		S		S		S
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 20221204–20221205

03:36:17 UT N	TJO	03:37:17 UT N	TJO	03:38:17 UT N	TJO	03:39:17 UT N	TJO	03:40:17 UT N	TJO	03:41:17 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
03:42:17 UT N	TJO	03:43:17 UT N	TJO	03:44:17 UT N	TJO	03:45:17 UT N	TJO	03:46:17 UT N	TJO	03:47:17 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
03:48:17 UT N	TJO	03:49:17 UT N	TJO	03:50:18 UT N	TJO	03:51:18 UT N	TJO	03:52:18 UT N	TJO	03:53:18 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
03:54:18 UT N	TJO	03:55:18 UT N	TJO	03:56:18 UT N	TJO	03:57:18 UT N	TJO	03:58:18 UT N	TJO	03:59:18 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
04:00:18 UT N	TJO	04:01:18 UT N	TJO	04:02:18 UT N	TJO	04:03:18 UT N	TJO	04:04:18 UT N	TJO	04:05:18 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
04:06:18 UT N	TJO	04:07:18 UT N	TJO	04:08:18 UT N	TJO	04:09:18 UT N	TJO	04:10:18 UT N	TJO	04:11:18 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 20221204–20221205

05:24:20 UT N	TJO	05:25:20 UT N	TJO	05:26:20 UT N	TJO	05:27:20 UT N	TJO	05:28:20 UT N	TJO	05:29:20 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
05:30:20 UT N	TJO	05:31:20 UT N	TJO	05:32:20 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
S		S		S		S		S		S		S
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
S		S		S		S		S		S		S
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
S		S		S		S		S		S		S
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
S		S		S		S		S		S		S
05:54:21 UT N	TJO	05:55:21 UT N	TJO	05:56:21 UT N	TJO	05:57:21 UT N	TJO	05:58:21 UT N	TJO	05:59:21 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 20221204–20221205

06:00:21 UT N	TJO	06:01:21 UT N	TJO	06:02:21 UT N	TJO	06:03:21 UT N	TJO	06:04:21 UT N	TJO	06:05:21 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
06:06:21 UT N	TJO	06:07:21 UT N	TJO	06:08:21 UT N	TJO	06:09:21 UT N	TJO	06:10:21 UT N	TJO	06:11:21 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
06:12:21 UT N	TJO	06:13:21 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	06:31:22 UT N	TJO	06:32:22 UT N	TJO	06:33:22 UT N	TJO	06:34:22 UT N	TJO	06:35:22 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 20221204–20221205

06:36:22 UT N	TJO	06:37:22 UT N	TJO	06:38:22 UT N	TJO	06:39:22 UT N	TJO	06:40:22 UT N	TJO	06:41:22 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
06:42:22 UT N	TJO	06:43:22 UT N	TJO	06:44:22 UT N	TJO	06:45:22 UT N	TJO	06:46:22 UT N	TJO	06:47:22 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
06:48:22 UT N	TJO	06:49:22 UT N	TJO	06:50:22 UT N	TJO	06:51:22 UT N	TJO	06:52:22 UT N	TJO	06:53:22 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
06:54:23 UT N	TJO	06:55:23 UT N	TJO	06:56:23 UT N	TJO	06:57:23 UT N	TJO	06:58:23 UT N	TJO	06:59:23 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
07:00:23 UT N	TJO	07:01:23 UT N	TJO	07:02:23 UT N	TJO	07:03:23 UT N	TJO	07:04:23 UT N	TJO	07:05:23 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
	S		S		S		S		S		S	
07:06:23 UT N	TJO	07:07:23 UT N	TJO	07:08:23 UT N	TJO	07:09:23 UT N	TJO	07:10:23 UT N	TJO	07:11:23 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 20221204–20221205

07:12:23 UT N	TJO	07:13:23 UT N	TJO	07:14:23 UT N	TJO	07:15:23 UT N	TJO	07:16:23 UT N	TJO	07:17:23 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
07:18:23 UT N	TJO	07:19:23 UT N	TJO	07:20:23 UT N	TJO	07:21:23 UT N	TJO	07:22:23 UT N	TJO	07:23:23 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
07:24:23 UT N	TJO	07:25:23 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	07:33:24 UT N	TJO	07:34:24 UT N	TJO	07:35:24 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
07:36:24 UT N	TJO	07:37:24 UT N	TJO	07:38:24 UT N	TJO	07:39:24 UT N	TJO	07:40:24 UT N	TJO	07:41:24 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
07:42:24 UT N	TJO	07:43:24 UT N	TJO	07:44:24 UT N	TJO	07:45:24 UT N	TJO	07:46:24 UT N	TJO	07:47:24 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 20221204–20221205

