

# Tjornes Watec All-Sky Images 20221129–20221130

18:00:00 UT N	TJO	18:01:00 UT N	TJO	18:02:00 UT N	TJO	18:03:00 UT N	TJO	18:04:00 UT N	TJO	18:05:00 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
18:06:00 UT N	TJO	18:07:00 UT N	TJO	18:08:00 UT N	TJO	18:09:00 UT N	TJO	18:10:00 UT N	TJO	18:11:00 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
18:12:01 UT N	TJO	18:13:01 UT N	TJO	18:14:01 UT N	TJO	18:15:01 UT N	TJO	18:16:01 UT N	TJO	18:17:01 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
18:18:01 UT N	TJO	18:19:01 UT N	TJO	18:20:01 UT N	TJO	18:21:01 UT N	TJO	18:22:01 UT N	TJO	18:23:01 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
18:24:01 UT N	TJO	18:25:01 UT N	TJO	18:26:01 UT N	TJO	18:27:01 UT N	TJO	18:28:01 UT N	TJO	18:29:01 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
18:30:01 UT N	TJO	18:31:01 UT N	TJO	18:32:01 UT N	TJO	18:33:01 UT N	TJO	18:34:01 UT N	TJO	18:35:01 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 20221129–20221130

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	22:04:08 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 20221129–20221130

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	22:40:08 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 20221129–20221130

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	23:50:11 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
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 20221129–20221130

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	00:22:11 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 20221129–20221130

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	02:38:16 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
S		S		S		S		S		S		S
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
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 20221129–20221130

04:12:18 UT N	TJO	04:13:18 UT N	TJO	04:14:18 UT N	TJO	04:15:18 UT N	TJO	04:16:19 UT N	TJO	04:17:19 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
04:18:19 UT N	TJO	04:19:19 UT N	TJO	04:20:19 UT N	TJO	04:21:19 UT N	TJO	04:22:19 UT N	TJO	04:23:19 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
04:24:19 UT N	TJO	04:25:19 UT N	TJO	04:26:19 UT N	TJO	04:27:19 UT N	TJO	04:28:19 UT N	TJO	04:29:19 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
04:30:19 UT N	TJO	04:31:19 UT N	TJO	04:32:19 UT N	TJO	04:33:19 UT N	TJO	04:34:19 UT N	TJO	04:35:19 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
04:36:19 UT N	TJO	04:37:19 UT N	TJO	04:38:19 UT N	TJO	04:39:19 UT N	TJO	04:40:19 UT N	TJO	04:41:19 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
04:42:19 UT N	TJO	04:43:19 UT N	TJO	04:44:19 UT N	TJO	04:45:19 UT N	TJO	04:46:19 UT N	TJO	04:47:19 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 20221129–20221130

06:36:23 UT N	TJO	06:37:23 UT N	TJO	06:38:23 UT N	TJO	06:39:23 UT N	TJO	06:40:23 UT N	TJO	06:41:23 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
06:42:23 UT N	TJO	06:43:23 UT N	TJO	06:44:23 UT N	TJO	06:45:23 UT N	TJO	06:46:23 UT N	TJO	06:47:23 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
06:48:23 UT N	TJO	06:49:23 UT N	TJO	06:50:23 UT N	TJO	06:51:23 UT N	TJO	06:52:23 UT N	TJO	06:53:23 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		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		S
07:00:23 UT N	TJO	07:01:23 UT N	TJO	07:02:24 UT N	TJO	07:03:24 UT N	TJO	07:04:24 UT N	TJO	07:05:24 UT N	TJO	
E	o	WE	o	WE	o	WE	o	WE	o	WE	o	W
S		S		S		S		S		S		S
07:06:24 UT N	TJO	07:07:24 UT N	TJO	07:08:24 UT N	TJO	07:09:24 UT N	TJO	07:10:24 UT N	TJO	07:11:24 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 20221129–20221130

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

