

Siderial Hour Angle at 2025-10-15T00:00:00 UTC:

Jupiter : 244° 10.9' (R.A.: 7h 43m 16.4s)
Sun : 159° 45.7' (R.A.: 13h 20m 57.2s)

Events (UTC, LHA,Dec, Zn(Az),H) for Lat 50° 01.3' N Lon 8° 10.2' E:

Sat 2, Europa	: Transit	start	: 2025 Oct 15 0:01:18	L -5h 36m	D +21.4	Z 80° 17.8'	H +20° 05.2'	
Sat 1, Io	: Occultation	end	: 2025 Oct 15 22:26:57	L -7h 07m	D +21.4	Z 63° 49.6'	H +6° 18.6'	
Sat 3, Ganymede	: Occultation	end	: 2025 Oct 17 0:40:29	L -4h 49m	D +21.3	Z 88° 55.2'	H +27° 28.6'	
Sat 4, Callisto	: Transit	start	: 2025 Oct 19 1:08:29	L -4h 14m	D +21.3	Z 95° 50.6'	H +33° 06.9'	
Sat 1, Io	: Shadow	start	: 2025 Oct 20 5:03:00	L -0h 15m	D +21.3	Z 172° 41.3'	H +61° 08.4'	
Sat 2, Europa	: Eclipse	start	: 2025 Oct 20 5:17:16	L -0h 01m	D +21.3	Z 179° 36.0'	H +61° 17.6'	
Sat 1, Io	: Eclipse	start	: 2025 Oct 21 2:17:07	L -2h 58m	D +21.3	Z 112° 57.3'	H +44° 54.1'	
Sat 1, Io	: Occultation	end	: 2025 Oct 21 5:52:01	L +0h 38m	D +21.3	Z 197° 55.9'	H +60° 20.2'	(Hsun -1.6°)
Sat 1, Io	: Shadow	start	: 2025 Oct 21 23:31:17	L -5h 40m	D +21.3	Z 79° 29.4'	H +19° 16.7'	
Sat 2, Europa	: Shadow	start	: 2025 Oct 21 23:58:12	L -5h 13m	D +21.3	Z 84° 25.4'	H +23° 33.6'	
Sat 1, Io	: Transit	start	: 2025 Oct 22 0:48:23	L -4h 23m	D +21.3	Z 94° 01.3'	H +31° 37.2'	
Sat 2, Europa	: Transit	start	: 2025 Oct 22 2:36:34	L -2h 35m	D +21.3	Z 119° 14.8'	H +48° 14.0'	
Sat 1, Io	: Occultation	end	: 2025 Oct 23 0:20:19	L -4h 48m	D +21.3	Z 89° 16.5'	H +27° 41.4'	
Sat 3, Ganymede	: Eclipse	end	: 2025 Oct 23 23:16:19	L -5h 48m	D +21.3	Z 78° 07.0'	H +18° 03.7'	
Sat 2, Europa	: Occultation	end	: 2025 Oct 23 23:55:35	L -5h 09m	D +21.3	Z 85° 18.8'	H +24° 18.1'	
Sat 3, Ganymede	: Occultation	start	: 2025 Oct 24 1:20:31	L -3h 44m	D +21.3	Z 102° 14.8'	H +37° 53.3'	
Sat 3, Ganymede	: Occultation	end	: 2025 Oct 24 4:37:41	L -0h 26m	D +21.3	Z 167° 35.2'	H +60° 48.4'	
Sat 4, Callisto	: Eclipse	end	: 2025 Oct 26 23:32:53	L -5h 20m	D +21.2	Z 83° 10.9'	H +22° 25.7'	
Sat 1, Io	: Eclipse	start	: 2025 Oct 28 4:10:56	L -0h 38m	D +21.2	Z 162° 01.7'	H +60° 16.5'	
Sat 1, Io	: Shadow	start	: 2025 Oct 29 1:24:26	L -3h 21m	D +21.2	Z 107° 21.7'	H +41° 21.5'	
Sat 2, Europa	: Shadow	start	: 2025 Oct 29 2:34:30	L -2h 11m	D +21.2	Z 126° 12.3'	H +51° 25.2'	
Sat 1, Io	: Transit	start	: 2025 Oct 29 2:40:08	L -2h 05m	D +21.2	Z 127° 58.9'	H +52° 08.6'	
Sat 2, Europa	: Transit	start	: 2025 Oct 29 5:09:53	L +0h 25m	D +21.2	Z 192° 01.6'	H +60° 48.0'	
Sat 1, Io	: Eclipse	start	: 2025 Oct 29 22:39:26	L -6h 03m	D +21.2	Z 75° 30.4'	H +15° 45.2'	
Sat 1, Io	: Occultation	end	: 2025 Oct 30 2:12:36	L -2h 29m	D +21.2	Z 120° 47.3'	H +48° 58.7'	
Sat 2, Europa	: Eclipse	start	: 2025 Oct 30 21:07:11	L -7h 31m	D +21.2	Z 59° 18.4'	H +2° 49.4'	
Sat 1, Io	: Transit	start	: 2025 Oct 30 21:07:54	L -7h 31m	D +21.2	Z 59° 26.5'	H +2° 55.1'	
Sat 3, Ganymede	: Eclipse	start	: 2025 Oct 31 0:07:34	L -4h 31m	D +21.2	Z 92° 36.4'	H +30° 23.0'	
Sat 2, Europa	: Occultation	end	: 2025 Oct 31 2:25:43	L -2h 12m	D +21.2	Z 125° 49.2'	H +51° 14.8'	
Sat 3, Ganymede	: Eclipse	end	: 2025 Oct 31 3:15:56	L -1h 22m	D +21.2	Z 143° 20.4'	H +57° 00.9'	
Sat 3, Ganymede	: Occultation	start	: 2025 Oct 31 5:12:01	L +0h 35m	D +21.2	Z 196° 33.1'	H +60° 24.3'	
Sat 1, Io	: Occultation	end	: 2025 Oct 31 20:40:25	L -7h 54m	D +21.2	Z 54° 55.7'	H +0° 01.8'	
Sat 1, Io	: Eclipse	start	: 2025 Nov 4 6:04:45	L +1h 43m	D +21.2	Z 224° 31.6'	H +54° 47.3'	(Hsun -3.1°)
Sat 1, Io	: Shadow	start	: 2025 Nov 5 3:17:36	L -1h 01m	D +21.2	Z 151° 48.7'	H +58° 47.3'	
Sat 1, Io	: Transit	start	: 2025 Nov 5 4:30:49	L +0h 13m	D +21.2	Z 186° 02.1'	H +61° 05.5'	
Sat 2, Europa	: Shadow	start	: 2025 Nov 5 5:10:48	L +0h 53m	D +21.2	Z 204° 36.0'	H +59° 22.9'	
Sat 1, Io	: Eclipse	start	: 2025 Nov 6 0:33:16	L -3h 42m	D +21.2	Z 102° 40.3'	H +38° 06.5'	
Sat 1, Io	: Occultation	end	: 2025 Nov 6 4:03:45	L -0h 11m	D +21.2	Z 174° 47.8'	H +61° 07.0'	
Sat 1, Io	: Shadow	start	: 2025 Nov 6 21:45:54	L -6h 26m	D +21.2	Z 71° 21.2'	H +12° 11.7'	
Sat 1, Io	: Transit	start	: 2025 Nov 6 22:58:19	L -5h 13m	D +21.2	Z 84° 31.7'	H +23° 32.3'	
Sat 2, Europa	: Eclipse	start	: 2025 Nov 6 23:40:31	L -4h 31m	D +21.2	Z 92° 33.4'	H +30° 19.0'	
Sat 3, Ganymede	: Eclipse	start	: 2025 Nov 7 4:06:48	L -0h 04m	D +21.2	Z 178° 08.4'	H +61° 11.1'	
Sat 2, Europa	: Occultation	end	: 2025 Nov 7 4:53:41	L +0h 43m	D +21.2	Z 200° 23.9'	H +59° 57.6'	
Sat 1, Io	: Occultation	end	: 2025 Nov 7 22:31:17	L -5h 36m	D +21.2	Z 80° 16.4'	H +19° 50.9'	