

Norfolk Astronomical Society



<http://norfolkastronomical.org>

March 2014

Monthly Sky Calendar
Prepared Specifically For
The Hampton Roads Area

Upcoming Regular Meetings

DATE	Monday, March 10, 2014
TIME	6 - 8 PM EST
WHERE	Chesapeake Public Library, Major Hillard branch Conf. Room
TOPIC	The Planet Jupiter

DATE	Monday, April 14, 2014
TIME	6 - 8 PM EST
WHERE	Chesapeake Public Library, Major Hillard branch Conf. Room
TOPIC	Eclipses

Jupiter and Io

Photo By Donald Wright



The planet Jupiter and one of its moons Io was captured at 3:33 UTC January 21, 2014 by Don Wright from his home in Virginia Beach. North is up. The Great Red Spot is just coming into view on the lower left side of Jupiter, and the shadow of Io is on the right side. Io itself can be seen (faintly) just to right of Jupiter. Don used an Imaging Source DBK 21AU618 camera equipped with a Baader UV-IR Cut Filter, imaging through his Meade 10" f/8 ACF with 2.4x Dakin Barlow (effective f/19.2), tracking on a Losmandy G11 German Equatorial mount. 1296 frames (3-minute capture @ 60fps with FireCapture software) were stacked with AutoStakkert; enhanced in Photoshop. Look for this and more of Don's Astrophotography at <http://ww4rf.net/index.html>

COSMOS: A Space Odyssey

Airs Sunday, March 9 on FOX and National Geographic Channel



More than three decades after the debut of “Cosmos: A Personal Voyage,” Carl Sagan’s stunning and iconic exploration of the universe as revealed by science, COSMOS: A SPACETIME ODYSSEY sets off on a new voyage for the stars. Seth MacFarlane (FAMILY GUY, AMERICAN DAD) and Sagan’s original creative collaborators – writer/executive producer Ann Druyan and astronomer Steven Soter – have teamed to conceive a 13-part docu-series that will serve as a successor to the Emmy and Peabody Award-winning original series.

Hosted by renowned astrophysicist Neil deGrasse Tyson, the series will explore how we discovered the laws of nature and found our coordinates in space and time. It will bring to life never-before-told stories of the heroic quest for knowledge and transport viewers to new worlds and across the universe for a vision of the cosmos on the grandest scale. COSMOS: A SPACETIME ODYSSEY will invent new modes of scientific storytelling to reveal the grandeur of the universe and re-invent celebrated elements of the legendary original series, including the Cosmic Calendar and the Ship of the Imagination. The most profound scientific concepts will be presented with stunning clarity, uniting skepticism and wonder, and weaving rigorous science with the emotional and spiritual into a transcendent experience.

Episode	Air Date	Title
1	03/09/2014	Standing Up In The Milky Way
2	03/16/2014	The Rivers Of Life
3	03/23/2014	When Knowledge Conquered Fear
4	03/30/2014	Hiding In The Light
5	04/06/2014	A Sky Full Of Ghosts
6	04/13/2014	Deeper, Deeper, Deeper Still
7	04/20/2014	The Clean Room
8	04/27/2014	Sisters Of The Sun
9	05/04/2014	The Electric Boy
10	05/11/2014	The Lost Worlds Of Planet Earth
11	05/18/2014	The Immortals
12	05/25/2014	The World Set Free
13	06/01/2014	Unafraid Of The Dark

DAYLIGHT SAVING TIME

Year	DST Begins 2 a.m. (Second Sunday in March)	DST Ends 2 a.m. (First Sunday in November)
2007	Sun 11 March 2007	Sun 04 November 2007
2008	Sun 09 March 2008	Sun 02 November 2008
2009	Sun 08 March 2009	Sun 01 November 2009
2010	Sun 14 March 2010	Sun 07 November 2010
2011	Sun 13 March 2011	Sun 06 November 2011
2012	Sun 11 March 2012	Sun 04 November 2012
2013	Sun 10 March 2013	Sun 03 November 2013
2014	Sun 09 March 2014	Sun 02 November 2014
2015	Sun 08 March 2015	Sun 01 November 2015
2016	Sun 13 March 2016	Sun 06 November 2016
2017	Sun 12 March 2017	Sun 05 November 2017
2018	Sun 11 March 2018	Sun 04 November 2018
2019	Sun 10 March 2019	Sun 03 November 2019
2020	Sun 08 March 2020	Sun 01 November 2020
2021	Sun 14 March 2021	Sun 07 November 2021
2022	Sun 13 March 2022	Sun 06 November 2022
2023	Sun 12 March 2023	Sun 05 November 2023
2024	Sun 10 March 2024	Sun 03 November 2024
2025	Sun 09 March 2025	Sun 02 November 2025

*By the rules enacted in Energy Policy Act of 2005, beginning in 2007, DST begins on the second Sunday in March and ends on the first Sunday in November. Time changes at 2 AM local time.
<http://www.greenwichmeantime.com/time-zone/rules/usa/>*

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
23	24	25	26	27	28		30	31						27	28	29	30			

Calendar

	Start	End	Category	Description
1 Mar 2014	3:00 AM	3:00 AM	Diary	NEW MOON
	3:34 AM	3:34 AM	Jupiter	Jupiter sets
	5:12 AM	5:12 AM	Twilight	Astronomical Twilight begins
	6:32 AM	6:32 AM	Moon	Moonrise
	6:38 AM	6:38 AM	Sun	Sunrise
	7:03 AM	7:03 AM	Jup GRS	GRS Transit (CML=207)
	7:59 AM	7:59 AM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
	12:58 PM	12:58 PM	Jupiter	Jupiter rises
	4:58 PM	4:58 PM	Jup GRS	GRS Transit (CML=207)
	5:00 PM	5:00 PM	Diary	Mars stationary
	6:02 PM	6:02 PM	Sun	Sunset
	6:39 PM	6:39 PM	Jup Sats	I.Ec.R
	6:44 PM	6:44 PM	Moon	Moonset
	7:27 PM	7:27 PM	Twilight	Astronomical Twilight ends
2 Mar 2014	2:54 AM	2:54 AM	Jup GRS	GRS Transit (CML=207)
	3:30 AM	3:30 AM	Jupiter	Jupiter sets
	5:11 AM	5:11 AM	Twilight	Astronomical Twilight begins
	6:36 AM	6:36 AM	Sun	Sunrise
	7:10 AM	7:10 AM	Moon	Moonrise
	12:50 PM	12:50 PM	Jup GRS	GRS Transit (CML=207)
	12:54 PM	12:54 PM	Jupiter	Jupiter rises
	6:03 PM	6:03 PM	Sun	Sunset
	6:36 PM	6:36 PM	Jup Sats	IV.Oc.D
	7:27 PM	7:27 PM	Twilight	Astronomical Twilight ends
	7:53 PM	7:53 PM	Moon	Moonset
	10:14 PM	10:14 PM	Jup Sats	IV.Oc.R
	10:46 PM	10:46 PM	Jup GRS	GRS Transit (CML=207)
3 Mar 2014	12:00 AM	12:00 AM	Diary	Saturn stationary
	12:14 AM	12:14 AM	Jup Sats	II.Tr.I
	2:28 AM	2:28 AM	Jup Sats	II.Sh.I
	2:55 AM	2:55 AM	Jup Sats	II.Tr.E
	3:26 AM	3:26 AM	Jupiter	Jupiter sets
	5:00 AM	5:00 AM	Diary	Uranus 2.3S of Moon
	5:09 AM	5:09 AM	Twilight	Astronomical Twilight begins
	6:35 AM	6:35 AM	Sun	Sunrise
	7:48 AM	7:48 AM	Moon	Moonrise
	8:41 AM	8:41 AM	Jup GRS	GRS Transit (CML=207)
	12:50 PM	12:50 PM	Jupiter	Jupiter rises
	6:04 PM	6:04 PM	Sun	Sunset
	6:37 PM	6:37 PM	Jup GRS	GRS Transit (CML=207)

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1	2	3	4	5	6	7	8	6	7	8	9	10	11	12
2	3	4	5	6	7	8	9	10	11	12	13	14	15	13	14	15	16	17	18	19
9	10	11	12	13	14	15	16	17	18	19	20	21	22	20	21	22	23	24	25	26
16	17	18	19	20	21	22	23	24	25	26	27	28	29	27	28	29	30			
23	24	25	26	27	28		30	31												

Calendar

	Start	End	Category	Description
3 Mar 2014	7:28 PM	7:28 PM	Twilight	Astronomical Twilight ends
	8:59 PM	8:59 PM	Moon	Moonset
4 Mar 2014	3:22 AM	3:22 AM	Jupiter	Jupiter sets
	4:33 AM	4:33 AM	Jup GRS	GRS Transit (CML=207)
	4:48 AM	4:48 AM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
	5:08 AM	5:08 AM	Twilight	Astronomical Twilight begins
	6:34 AM	6:34 AM	Sun	Sunrise
	8:26 AM	8:26 AM	Moon	Moonrise
	12:46 PM	12:46 PM	Jupiter	Jupiter rises
	2:28 PM	2:28 PM	Jup GRS	GRS Transit (CML=207)
	6:05 PM	6:05 PM	Sun	Sunset
	7:29 PM	7:29 PM	Twilight	Astronomical Twilight ends
	10:02 PM	10:02 PM	Moon	Moonset
11:23 PM	11:23 PM	Jup Sats	II.Ec.R	
5 Mar 2014	12:24 AM	12:24 AM	Jup GRS	GRS Transit (CML=207)
	3:18 AM	3:18 AM	Jupiter	Jupiter sets
	5:07 AM	5:07 AM	Twilight	Astronomical Twilight begins
	6:32 AM	6:32 AM	Sun	Sunrise
	9:06 AM	9:06 AM	Moon	Moonrise
	10:20 AM	10:20 AM	Jup GRS	GRS Transit (CML=207)
	12:42 PM	12:42 PM	Jupiter	Jupiter rises
	6:06 PM	6:06 PM	Sun	Sunset
	7:07 PM	7:07 PM	Lunar Occult	Moon occults 7.5 mag. star SAO93166(d)
	7:30 PM	7:30 PM	Twilight	Astronomical Twilight ends
	7:56 PM	7:56 PM	Iridium Flare	CHES:Iridium 97 Flares at mag. 1.1 (AzM 010 Alt 28)
8:16 PM	8:16 PM	Jup GRS	GRS Transit (CML=207)	
9:39 PM	9:39 PM	Jup Sats	III.Oc.R	
11:03 PM	11:03 PM	Moon	Moonset	
11:07 PM	11:07 PM	Jup Sats	III.Ec.D	
6 Mar 2014	1:19 AM	1:19 AM	Jup Sats	I.Tr.I
	2:27 AM	2:27 AM	Jup Sats	III.Ec.R
	2:28 AM	2:28 AM	Jup Sats	I.Sh.I
	3:14 AM	3:14 AM	Jupiter	Jupiter sets
	5:05 AM	5:05 AM	Twilight	Astronomical Twilight begins
	6:11 AM	6:11 AM	Jup GRS	GRS Transit (CML=207)
	6:31 AM	6:31 AM	Sun	Sunrise
	7:00 AM	7:00 AM	Diary	Jupiter stationary
	9:48 AM	9:48 AM	Moon	Moonrise
12:38 PM	12:38 PM	Jupiter	Jupiter rises	

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1						1				1	2	3	4	5
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30			
							30	31												

Calendar

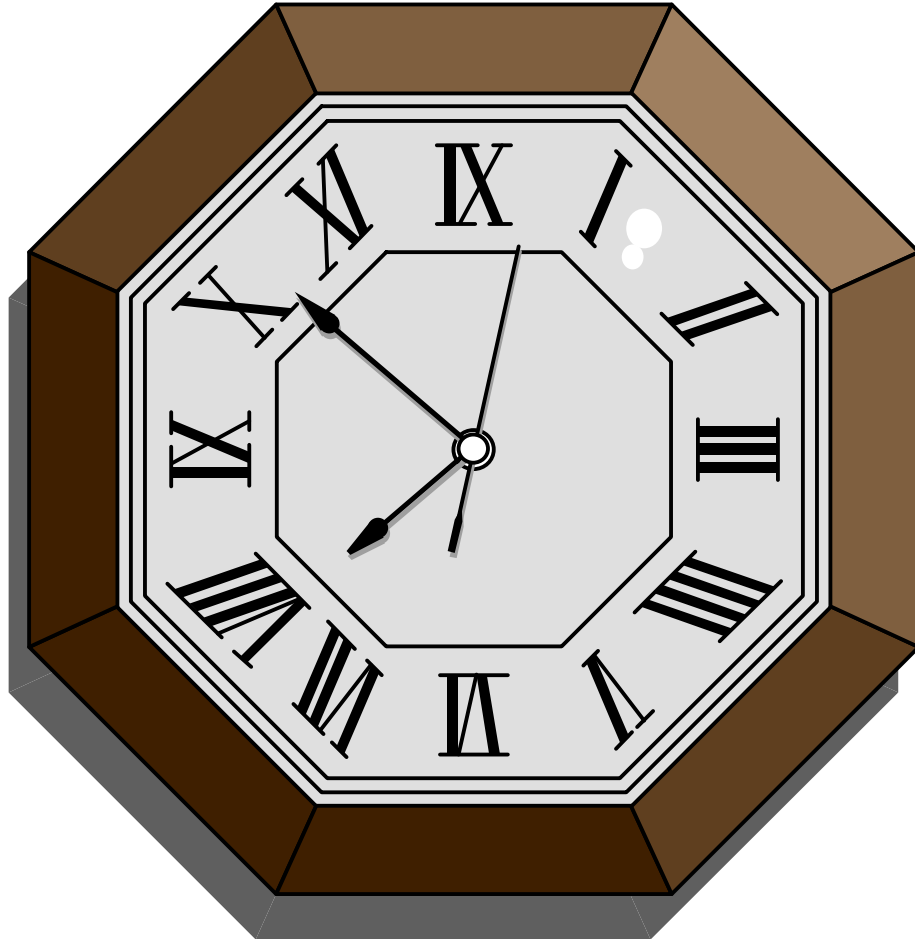
	Start	End	Category	Description
6 Mar 2014	4:07 PM	4:07 PM	Jup GRS	GRS Transit (CML=207)
	6:06 PM	6:06 PM	Sun	Sunset
	6:29 PM	6:29 PM	Jup Sats	I.Sh.E
	7:31 PM	7:31 PM	Twilight	Astronomical Twilight ends
	7:49 PM	7:49 PM	Iridium Flare	CHES:Iridium 51 Flares at mag.-3.1 (Azm 012 Alt 30)
	7:49 PM	7:49 PM	Iridium Flare	CHES:Iridium 7 Flares at mag.-1.6 (Azm 011 Alt 30)
	8:16 PM	11:59 PM	Jup GRS	GRS Transit (CML=207)
	8:16 PM	11:59 PM	Jup GRS	GRS Transit (CML=207)
	8:16 PM	11:59 PM	Jup GRS	GRS Transit (CML=207)
	10:38 PM	10:38 PM	Jup Sats	I.Oc.D
11:05 PM	11:05 PM	Lunar Occult	Moon occults 6.0 mag. star 577(d)	
7 Mar 2014	12:01 AM	12:01 AM	Moon	Moonset
	1:37 AM	1:37 AM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
	2:03 AM	2:03 AM	Jup GRS	GRS Transit (CML=207)
	2:05 AM	2:05 AM	Jup Sats	I.Ec.R
	3:10 AM	3:10 AM	Jupiter	Jupiter sets
	5:04 AM	5:04 AM	Twilight	Astronomical Twilight begins
	5:30 AM	5:30 AM	Iridium Flare	CHES:Iridium 95 Flares at mag. 0.4 (Azm 184 Alt 44)
	6:29 AM	6:29 AM	Sun	Sunrise
	10:32 AM	10:32 AM	Moon	Moonrise
	11:59 AM	11:59 AM	Jup GRS	GRS Transit (CML=207)
	12:34 PM	12:34 PM	Jupiter	Jupiter rises
	5:00 PM	5:00 PM	Diary	Aldebaran 2.1S of Moon
	6:07 PM	6:07 PM	Sun	Sunset
	7:32 PM	7:32 PM	Twilight	Astronomical Twilight ends
	7:43 PM	7:43 PM	Iridium Flare	CHES:Iridium 37 Flares at mag.-6.9 (Azm 012 Alt 32)
	7:46 PM	7:46 PM	Jup Sats	I.Tr.I
8:57 PM	8:57 PM	Jup Sats	I.Sh.I	
9:54 PM	9:54 PM	Jup GRS	GRS Transit (CML=207)	
10:02 PM	10:02 PM	Jup Sats	I.Tr.E	
11:12 PM	11:12 PM	Jup Sats	I.Sh.E	
8 Mar 2014	12:54 AM	12:54 AM	Moon	Moonset
	3:06 AM	3:06 AM	Jupiter	Jupiter sets
	5:03 AM	5:03 AM	Twilight	Astronomical Twilight begins
	5:24 AM	5:24 AM	Iridium Flare	CHES:Iridium 30 Flares at mag.-1.6 (Azm 185 Alt 44)
	6:28 AM	6:28 AM	Sun	Sunrise
	7:01 AM	7:01 AM	Iridium Flare	CHES:Iridium 97 Flares at mag.-6.2 (Azm 133 Alt 35)
	7:50 AM	7:50 AM	Jup GRS	GRS Transit (CML=207)
	9:00 AM	9:00 AM	Diary	FIRST QUARTER
	11:18 AM	11:18 AM	Moon	Moonrise

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February 2014							March 2014							April 2014						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1						8			1	2	3	4	5	
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30			
							30	31												

Calendar

	Start	End	Category	Description
8 Mar 2014	12:30 PM	12:30 PM	Jupiter	Jupiter rises
	5:46 PM	5:46 PM	Jup GRS	GRS Transit (CML=207)
	6:08 PM	6:08 PM	Sun	Sunset
	7:33 PM	7:33 PM	Twilight	Astronomical Twilight ends
	7:37 PM	7:37 PM	Iridium Flare	CHES:Iridium 34 Flares at mag.-0.6 (AzM 013 Alt 33)
	8:00 PM	8:00 PM	Lunar Occult	Moon occults 4.3 mag. star 832(D)
	8:34 PM	8:34 PM	Jup Sats	LEc.R
	8:59 PM	8:59 PM	Lunar Occult	Moon occults 5.7 mag. star 836(D)
9 Mar 2014	1:44 AM	1:44 AM	Moon	Moonset
	2:00 AM	2:00 AM	DST	Spring forward to EDT
	3:02 AM	3:02 AM	Jupiter	Jupiter sets
	3:42 AM	3:42 AM	Jup GRS	GRS Transit (CML=207)
	5:01 AM	5:01 AM	Twilight	Astronomical Twilight begins
	5:18 AM	5:18 AM	Iridium Flare	CHES:Iridium 57 Flares at mag.-1.8 (AzM 183 Alt 45)
	6:27 AM	6:27 AM	Sun	Sunrise
	12:08 PM	12:08 PM	Moon	Moonrise
	12:26 PM	12:26 PM	Jupiter	Jupiter rises
	1:37 PM	1:37 PM	Jup GRS	GRS Transit (CML=207)
	6:09 PM	6:09 PM	Sun	Sunset
	7:34 PM	7:34 PM	Twilight	Astronomical Twilight ends
	10:26 PM	10:26 PM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
	11:33 PM	11:33 PM	Jup GRS	GRS Transit (CML=207)



2 AM Sunday, March 9, 2014

Spring Forward To EDT

(Set clocks ahead 1 hour)

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
						1							1				1	2	3	4	5
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12	
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19	
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26	
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30				
							30	31													

Calendar

	Start	End	Category	Description
9 Mar 2014	2:44 AM	2:44 AM	Moon	Moonset
	3:00 AM	3:00 AM	DST	Spring forward to EDT
	4:02 AM	4:02 AM	Jupiter	Jupiter sets
	4:42 AM	4:42 AM	Jup GRS	GRS Transit (CML=207)
	6:01 AM	6:01 AM	Twilight	Astronomical Twilight begins
	6:18 AM	6:18 AM	Iridium Flare	CHES:Iridium 57 Flares at mag.-1.8 (Azm 183 Alt 45)
	6:48 AM	6:48 AM	Sat Pass (ISS)	CHES:ISS Passes S to NE (Azm 129.1 Alt 16)
	7:27 AM	7:27 AM	Sun	Sunrise
	1:08 PM	1:08 PM	Moon	Moonrise
	1:26 PM	1:26 PM	Jupiter	Jupiter rises
	2:37 PM	2:37 PM	Jup GRS	GRS Transit (CML=207)
	7:09 PM	7:09 PM	Sun	Sunset
	8:10 PM	8:10 PM	Sat Pass (HST)	CHES:HST Passes W to SE (Azm 197.0 Alt 15)
	8:34 PM	8:34 PM	Twilight	Astronomical Twilight ends
	11:26 PM	11:26 PM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
10 Mar 2014	12:33 AM	12:33 AM	Jup GRS	GRS Transit (CML=207)
	3:29 AM	3:29 AM	Moon	Moonset
	3:42 AM	3:42 AM	Jup Sats	II.Tr.I
	3:58 AM	3:58 AM	Jupiter	Jupiter sets
	6:00 AM	6:00 AM	Twilight	Astronomical Twilight begins
	6:12 AM	6:12 AM	Iridium Flare	CHES:Iridium 60 Flares at mag. 0.2 (Azm 185 Alt 45)
	7:00 AM	7:00 AM	Diary	Jupiter 5.1N of Moon
	7:25 AM	7:25 AM	Sun	Sunrise
	10:29 AM	10:29 AM	Jup GRS	GRS Transit (CML=207)
	1:22 PM	1:22 PM	Jupiter	Jupiter rises
	1:59 PM	1:59 PM	Moon	Moonrise
	6:00 PM	6:00 PM	Meetings	NAS Regular Meeting at Chesapeake Public Library Major Hillard branch
	7:10 PM	7:10 PM	Sun	Sunset
	7:33 PM	7:33 PM	Lunar Occult	Moon occults 6.5 mag. double star ZC1091(d)
	8:24 PM	8:24 PM	Jup GRS	GRS Transit (CML=207)
	8:35 PM	8:35 PM	Twilight	Astronomical Twilight ends
11 Mar 2014	12:21 AM	12:21 AM	Lunar Occult	Moon occults 3.6 mag. double star ZC1106(D)
	1:33 AM	1:33 AM	Lunar Occult	Moon occults 3.6 mag. double star ZC1106(r)
	3:55 AM	3:55 AM	Jupiter	Jupiter sets
	4:10 AM	4:10 AM	Moon	Moonset
	5:58 AM	5:58 AM	Twilight	Astronomical Twilight begins
	6:20 AM	6:20 AM	Jup GRS	GRS Transit (CML=207)
	6:45 AM	6:45 AM	Sat Pass (ISS)	CHES:ISS Passes SW to NE (Azm 135.2 Alt 47)
	7:24 AM	7:24 AM	Sun	Sunrise
	1:18 PM	1:18 PM	Jupiter	Jupiter rises

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1							1			1	2	3	4	5
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30			
							30	31												

Calendar

	Start	End	Category	Description
11 Mar 2014	2:52 PM	2:52 PM	Moon	Moonrise
	4:00 PM	4:00 PM	Diary	Moon at apogee
	4:16 PM	4:16 PM	Jup GRS	GRS Transit (CML=207)
	7:11 PM	7:11 PM	Sun	Sunset
	8:36 PM	8:36 PM	Twilight	Astronomical Twilight ends
	9:04 PM	9:04 PM	Jup Sats	IV.Sh.E
	9:48 PM	9:48 PM	Jup Sats	II.Oc.D
12 Mar 2014	2:12 AM	2:12 AM	Jup GRS	GRS Transit (CML=207)
	3:01 AM	3:01 AM	Jup Sats	II.Ec.R
	3:51 AM	3:51 AM	Jupiter	Jupiter sets
	4:48 AM	4:48 AM	Moon	Moonset
	5:56 AM	5:56 AM	Sat Pass (ISS)	CHES:ISS Passes S to NE (Azm 131.3 Alt 24)
	5:57 AM	5:57 AM	Twilight	Astronomical Twilight begins
	6:09 AM	6:09 AM	Iridium Flare	CHES:Iridium 91 Flares at mag. 1.2 (Azm 196 Alt 44)
	7:22 AM	7:22 AM	Sun	Sunrise
	12:07 PM	12:07 PM	Jup GRS	GRS Transit (CML=207)
	1:15 PM	1:15 PM	Jupiter	Jupiter rises
	3:45 PM	3:45 PM	Moon	Moonrise
	7:12 PM	7:12 PM	Sun	Sunset
	8:15 PM	8:15 PM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
	8:16 PM	8:16 PM	Iridium Flare	CHES:Iridium 36 Flares at mag. 0.0 (Azm 011 Alt 40)
	8:21 PM	8:21 PM	Iridium Flare	CHES:Iridium 97 Flares at mag. 0.8 (Azm 006 Alt 40)
	8:37 PM	8:37 PM	Twilight	Astronomical Twilight ends
10:03 PM	10:03 PM	Jup GRS	GRS Transit (CML=207)	
11:10 PM	11:10 PM	Jup Sats	III.Oc.D	
13 Mar 2014	1:06 AM	1:06 AM	Lunar Occult	Moon occults 5.4 mag. double star ZC1332(D)
	2:24 AM	2:24 AM	Jup Sats	III.Oc.R
	3:47 AM	3:47 AM	Jupiter	Jupiter sets
	5:23 AM	5:23 AM	Moon	Moonset
	5:55 AM	5:55 AM	Twilight	Astronomical Twilight begins
	6:03 AM	6:03 AM	Iridium Flare	CHES:Iridium 59 Flares at mag. 0.0 (Azm 198 Alt 45)
	6:42 AM	6:42 AM	Sat Pass (ISS)	CHES:ISS Passes SW to NE (Azm 321.8 Alt 54)
	7:21 AM	7:21 AM	Sun	Sunrise
	7:59 AM	7:59 AM	Jup GRS	GRS Transit (CML=207)
	1:11 PM	1:11 PM	Jupiter	Jupiter rises
	4:40 PM	4:40 PM	Moon	Moonrise
	5:55 PM	5:55 PM	Jup GRS	GRS Transit (CML=207)
	7:13 PM	7:13 PM	Sun	Sunset
	7:37 PM	7:37 PM	Jup Sats	II.Tr.E
8:15 PM	8:15 PM	Iridium Flare	CHES:Iridium 51 Flares at mag. -4.1 (Azm 008 Alt 42)	

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
						1							1				1	2	3	4	5
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12	
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19	
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26	
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30				
							30	31													

Calendar

	Start	End	Category	Description
13 Mar 2014	8:15 PM	8:15 PM	Iridium Flare	CHES:Iridium 7 Flares at mag.-1.9 (Azm 007 Alt 42)
	8:38 PM	8:38 PM	Twilight	Astronomical Twilight ends
	10:05 PM	10:05 PM	Jup Sats	I.Sh.E
14 Mar 2014	1:30 AM	1:30 AM	Jup Sats	I.Oc.D
	3:43 AM	3:43 AM	Jupiter	Jupiter sets
	3:50 AM	3:50 AM	Jup GRS	GRS Transit (CML=207)
	5:53 AM	5:53 AM	Sat Pass (ISS)	CHES:ISS Passes SW to NE (Azm 138.2 Alt 78)
	5:54 AM	5:54 AM	Twilight	Astronomical Twilight begins
	5:56 AM	5:56 AM	Moon	Moonset
	5:57 AM	5:57 AM	Iridium Flare	CHES:Iridium 95 Flares at mag.-8.0 (Azm 197 Alt 46)
	7:00 AM	7:00 AM	Diary	Mercury greatest elong W(28)
	7:20 AM	7:20 AM	Sun	Sunrise
	11:00 AM	11:00 AM	Diary	Regulus 4.8N of Moon
	1:07 PM	1:07 PM	Jupiter	Jupiter rises
	1:46 PM	1:46 PM	Jup GRS	GRS Transit (CML=207)
	5:36 PM	5:36 PM	Moon	Moonrise
	7:14 PM	7:14 PM	Sun	Sunset
	8:09 PM	8:09 PM	Iridium Flare	CHES:Iridium 37 Flares at mag.-7.6 (Azm 008 Alt 44)
8:39 PM	8:39 PM	Twilight	Astronomical Twilight ends	
10:39 PM	10:39 PM	Jup Sats	I.Tr.I	
11:42 PM	11:42 PM	Jup GRS	GRS Transit (CML=207)	
11:52 PM	11:52 PM	Jup Sats	I.Sh.I	
15 Mar 2014	12:54 AM	12:54 AM	Jup Sats	I.Tr.E
	2:08 AM	2:08 AM	Jup Sats	I.Sh.E
	3:39 AM	3:39 AM	Jupiter	Jupiter sets
	5:04 AM	5:04 AM	Sat Pass (ISS)	CHES:ISS Passes SW to NE (Azm 85.6 Alt 26)
	5:51 AM	5:51 AM	Iridium Flare	CHES:Iridium 30 Flares at mag.-2.2 (Azm 198 Alt 46)
	5:52 AM	5:52 AM	Twilight	Astronomical Twilight begins
	6:28 AM	6:28 AM	Moon	Moonset
	6:40 AM	6:40 AM	Sat Pass (ISS)	CHES:ISS Passes W to NE (Azm 329.5 Alt 22)
	7:18 AM	7:18 AM	Sun	Sunrise
	9:38 AM	9:38 AM	Jup GRS	GRS Transit (CML=207)
	1:03 PM	1:03 PM	Jupiter	Jupiter rises
	5:00 PM	5:00 PM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
	6:32 PM	6:32 PM	Moon	Moonrise
	7:15 PM	7:15 PM	Sun	Sunset
	7:33 PM	7:33 PM	Jup GRS	GRS Transit (CML=207)
7:58 PM	7:58 PM	Jup Sats	I.Oc.D	
8:03 PM	8:03 PM	Iridium Flare	CHES:Iridium 34 Flares at mag.-1.2 (Azm 008 Alt 45)	
8:40 PM	8:40 PM	Twilight	Astronomical Twilight ends	

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
						1							1				1	2	3	4	5
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12	
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19	
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26	
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30				
							30	31													

Calendar

	Start	End	Category	Description
15 Mar 2014	11:29 PM	11:29 PM	Jup Sats	I.Ec.R
16 Mar 2014	3:35 AM	3:35 AM	Jupiter	Jupiter sets
	4:16 AM	4:16 AM	Sat Pass (ISS)	CHES:ISS Passes S to NE (Azm 72.9 Alt 6)
	5:29 AM	5:29 AM	Jup GRS	GRS Transit (CML=207)
	5:44 AM	5:44 AM	Iridium Flare	CHES:Iridium 28 Flares at mag. 0.6 (Azm 199 Alt 47)
	5:45 AM	5:45 AM	Iridium Flare	CHES:Iridium 57 Flares at mag. 1.6 (Azm 197 Alt 47)
	5:50 AM	5:50 AM	Sat Pass (ISS)	CHES:ISS Passes SW to NE (Azm 325.0 Alt 36)
	5:51 AM	5:51 AM	Twilight	Astronomical Twilight begins
	7:00 AM	7:00 AM	Moon	Moonset
	7:17 AM	7:17 AM	Sun	Sunrise
	12:59 PM	12:59 PM	Jupiter	Jupiter rises
	2:00 PM	2:00 PM	Diary	FULL MOON
	3:25 PM	3:25 PM	Jup GRS	GRS Transit (CML=207)
	7:15 PM	7:15 PM	Sun	Sunset
	7:29 PM	7:29 PM	Moon	Moonrise
	8:37 PM	8:37 PM	Jup Sats	I.Sh.E
	8:40 PM	8:40 PM	Twilight	Astronomical Twilight ends
	9:22 PM	9:22 PM	Jup Sats	III.Sh.E
17 Mar 2014	1:21 AM	1:21 AM	Jup GRS	GRS Transit (CML=207)
	3:32 AM	3:32 AM	Jupiter	Jupiter sets
	5:01 AM	5:01 AM	Sat Pass (ISS)	CHES:ISS Passes SW to NE (Azm 39.3 Alt 23)
	5:49 AM	5:49 AM	Twilight	Astronomical Twilight begins
	7:15 AM	7:15 AM	Sun	Sunrise
	7:32 AM	7:32 AM	Moon	Moonset
	11:16 AM	11:16 AM	Jup GRS	GRS Transit (CML=207)
	12:56 PM	12:56 PM	Jupiter	Jupiter rises
	7:16 PM	7:16 PM	Sun	Sunset
	8:28 PM	8:28 PM	Moon	Moonrise
	8:41 PM	8:41 PM	Twilight	Astronomical Twilight ends
	9:12 PM	9:12 PM	Jup GRS	GRS Transit (CML=207)
18 Mar 2014	3:28 AM	3:28 AM	Jupiter	Jupiter sets
	4:14 AM	4:14 AM	Sat Pass (ISS)	CHES:ISS Passes SW to NE (Azm 54.6 Alt 6)
	5:47 AM	5:47 AM	Sat Pass (ISS)	CHES:ISS Passes W to NE (Azm 332.8 Alt 17)
	5:48 AM	5:48 AM	Twilight	Astronomical Twilight begins
	7:08 AM	7:08 AM	Jup GRS	GRS Transit (CML=207)
	7:14 AM	7:14 AM	Sun	Sunrise
	7:18 AM	7:18 AM	Iridium Flare	CHES:Iridium 36 Flares at mag.-4.1 (Azm 151 Alt 46)
	8:06 AM	8:06 AM	Moon	Moonset
	12:52 PM	12:52 PM	Jupiter	Jupiter rises

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
						1							1				1	2	3	4	5
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12	
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19	
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26	
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30				
							30	31													

Calendar

	Start	End	Category	Description
18 Mar 2014	1:53 PM	1:53 PM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
	5:04 PM	5:04 PM	Jup GRS	GRS Transit (CML=207)
	7:00 PM	7:00 PM	Diary	Spica 1.6S of Moon
	7:17 PM	7:17 PM	Sun	Sunset
	8:42 PM	8:42 PM	Twilight	Astronomical Twilight ends
	9:28 PM	9:28 PM	Moon	Moonrise
	10:00 PM	10:00 PM	Diary	Mars 3.1N of Moon
19 Mar 2014	12:20 AM	12:20 AM	Jup Sats	II.Oc.D
	2:59 AM	2:59 AM	Jup GRS	GRS Transit (CML=207)
	3:24 AM	3:24 AM	Jupiter	Jupiter sets
	4:58 AM	4:58 AM	Sat Pass (ISS)	CHES:ISS Passes W to NE (Azm 16.7 Alt 16)
	5:36 AM	5:36 AM	Iridium Flare	CHES:Iridium 91 Flares at mag.-3.7 (Azm 209 Alt 45)
	5:46 AM	5:46 AM	Twilight	Astronomical Twilight begins
	7:12 AM	7:12 AM	Sun	Sunrise
	8:42 AM	8:42 AM	Moon	Moonset
	12:48 PM	12:48 PM	Jupiter	Jupiter rises
	12:55 PM	12:55 PM	Jup GRS	GRS Transit (CML=207)
	5:45 PM	5:45 PM	Iridium Flare	CHES:Iridium 33 Flares at mag.-6.1 (Azm 294 Alt 76)
	7:18 PM	7:18 PM	Sun	Sunset
	8:43 PM	8:43 PM	Twilight	Astronomical Twilight ends
10:28 PM	10:28 PM	Moon	Moonrise	
10:51 PM	10:51 PM	Jup GRS	GRS Transit (CML=207)	
20 Mar 2014	12:16 AM	12:16 AM	Jup Sats	IV.Ec.D
	3:00 AM	3:00 AM	Jup Sats	III.Oc.D
	3:20 AM	3:20 AM	Jupiter	Jupiter sets
	4:10 AM	4:10 AM	Sat Pass (ISS)	CHES:ISS Passes SW to NE (Azm 41.0 Alt 6)
	5:29 AM	5:29 AM	Iridium Flare	CHES:Iridium 59 Flares at mag.-8.0 (Azm 211 Alt 45)
	5:45 AM	5:45 AM	Twilight	Astronomical Twilight begins
	7:11 AM	7:11 AM	Sun	Sunrise
	8:47 AM	8:47 AM	Jup GRS	GRS Transit (CML=207)
	9:22 AM	9:22 AM	Moon	Moonset
	12:44 PM	12:44 PM	Jupiter	Jupiter rises
	1:00 PM	1:00 PM	Diary	Equinox
	6:42 PM	6:42 PM	Jup GRS	GRS Transit (CML=207)
	7:19 PM	7:19 PM	Sun	Sunset
	8:44 PM	8:44 PM	Twilight	Astronomical Twilight ends
	9:58 PM	9:58 PM	Jup Sats	II.Sh.I
10:09 PM	10:09 PM	Jup Sats	II.Tr.E	
11:29 PM	11:29 PM	Moon	Moonrise	

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
						1							1				1	2	3	4	5
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12	
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19	
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26	
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30				
							30	31													

Calendar

	Start	End	Category	Description
21 Mar 2014	12:00 AM	12:00 AM	Diary	Saturn 0.3N of Moon Occn
	12:41 AM	12:41 AM	Jup Sats	II.Sh.E
	3:17 AM	3:17 AM	Jupiter	Jupiter sets
	4:38 AM	4:38 AM	Jup GRS	GRS Transit (CML=207)
	5:23 AM	5:23 AM	Iridium Flare	CHES:Iridium 95 Flares at mag. 0.2 (Azm 211 Alt 47)
	5:27 AM	5:27 AM	Iridium Flare	CHES:Iridium 33 Flares at mag. 0.7 (Azm 217 Alt 42)
	5:43 AM	5:43 AM	Twilight	Astronomical Twilight begins
	7:09 AM	7:09 AM	Sun	Sunrise
	8:36 AM	8:36 AM	Iridium Flare	CHES:Iridium 50 Flares at mag.-5.2 (Azm 113 Alt 28)
	8:37 AM	8:37 AM	Iridium Flare	CHES:Iridium 16 Flares at mag.-4.7 (Azm 112 Alt 27)
	10:07 AM	10:07 AM	Moon	Moonset
	10:42 AM	10:42 AM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
	12:41 PM	12:41 PM	Jupiter	Jupiter rises
	2:34 PM	2:34 PM	Jup GRS	GRS Transit (CML=207)
	7:20 PM	7:20 PM	Sun	Sunset
	8:45 PM	8:45 PM	Twilight	Astronomical Twilight ends
22 Mar 2014	12:30 AM	12:30 AM	Moon	Moonrise
	12:30 AM	12:30 AM	Jup GRS	GRS Transit (CML=207)
	12:32 AM	12:32 AM	Jup Sats	I.Tr.I
	1:47 AM	1:47 AM	Jup Sats	I.Sh.I
	2:47 AM	2:47 AM	Jup Sats	I.Tr.E
	3:13 AM	3:13 AM	Jupiter	Jupiter sets
	5:17 AM	5:17 AM	Iridium Flare	CHES:Iridium 30 Flares at mag. 1.2 (Azm 212 Alt 47)
	5:42 AM	5:42 AM	Twilight	Astronomical Twilight begins
	7:08 AM	7:08 AM	Sun	Sunrise
	10:26 AM	10:26 AM	Jup GRS	GRS Transit (CML=207)
	10:57 AM	10:57 AM	Moon	Moonset
	12:37 PM	12:37 PM	Jupiter	Jupiter rises
	4:00 PM	4:00 PM	Diary	Mercury 1.2S of Neptune
	7:00 PM	7:00 PM	Diary	Venus greatest elong W(47)
	7:21 PM	7:21 PM	Sun	Sunset
	7:29 PM	7:29 PM	Iridium Flare	CHES:Iridium 34 Flares at mag.-5.4 (Azm 356 Alt 55)
	8:21 PM	8:21 PM	Jup GRS	GRS Transit (CML=207)
	8:46 PM	8:46 PM	Twilight	Astronomical Twilight ends
	9:51 PM	9:51 PM	Jup Sats	I.Oc.D
23 Mar 2014	1:24 AM	1:24 AM	Jup Sats	IEc.R
	1:29 AM	1:29 AM	Moon	Moonrise
	3:09 AM	3:09 AM	Jupiter	Jupiter sets
	5:40 AM	5:40 AM	Twilight	Astronomical Twilight begins
	6:17 AM	6:17 AM	Jup GRS	GRS Transit (CML=207)

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
						1							1				1	2	3	4	5
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12	
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19	
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26	
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30				
							30	31													

Calendar

	Start	End	Category	Description
23 Mar 2014	6:56 AM	6:56 AM	Iridium Flare	CHES:Iridium 8 Flares at mag.-4.1 (Azm 163 Alt 51)
	7:06 AM	7:06 AM	Sun	Sunrise
	11:53 AM	11:53 AM	Moon	Moonset
	12:33 PM	12:33 PM	Jupiter	Jupiter rises
	4:13 PM	4:13 PM	Jup GRS	GRS Transit (CML=207)
	7:22 PM	7:22 PM	Sun	Sunset
	8:10 PM	8:10 PM	Jup Sats	III.Tr.E
	8:16 PM	8:16 PM	Jup Sats	I.Sh.I
	8:47 PM	8:47 PM	Twilight	Astronomical Twilight ends
	9:15 PM	9:15 PM	Jup Sats	I.Tr.E
	10:00 PM	10:00 PM	Diary	LAST QUARTER
	10:04 PM	10:04 PM	Jup Sats	III.Sh.I
	10:32 PM	10:32 PM	Jup Sats	I.Sh.E
24 Mar 2014	1:24 AM	1:24 AM	Jup Sats	III.Sh.E
	2:09 AM	2:09 AM	Jup GRS	GRS Transit (CML=207)
	2:24 AM	2:24 AM	Moon	Moonrise
	3:05 AM	3:05 AM	Jupiter	Jupiter sets
	4:58 AM	4:58 AM	Lunar Occult	Moon occults 6.6 mag. double star ZC2687(r)
	5:38 AM	5:38 AM	Twilight	Astronomical Twilight begins
	7:05 AM	7:05 AM	Sun	Sunrise
	7:31 AM	7:31 AM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
	12:04 PM	12:04 PM	Jup GRS	GRS Transit (CML=207)
	12:29 PM	12:29 PM	Jupiter	Jupiter rises
	12:54 PM	12:54 PM	Moon	Moonset
	4:00 PM	4:00 PM	Diary	Pluto 2.3S of Moon
	5:21 PM	5:21 PM	Iridium Flare	CHES:Iridium 91 Flares at mag.-7.5 (Azm 271 Alt 71)
	7:22 PM	7:22 PM	Sun	Sunset
	7:53 PM	7:53 PM	Jup Sats	I.Ec.R
	8:48 PM	8:48 PM	Twilight	Astronomical Twilight ends
	9:24 PM	9:24 PM	Iridium Flare	CHES:Iridium 86 Flares at mag. 0.7 (Azm 002 Alt 12)
	10:00 PM	10:00 PM	Jup GRS	GRS Transit (CML=207)
25 Mar 2014	1:00 AM	1:00 AM	Diary	Mars 4.8N of Spica
	3:02 AM	3:02 AM	Jupiter	Jupiter sets
	3:15 AM	3:15 AM	Moon	Moonrise
	5:37 AM	5:37 AM	Twilight	Astronomical Twilight begins
	7:03 AM	7:03 AM	Sun	Sunrise
	7:56 AM	7:56 AM	Jup GRS	GRS Transit (CML=207)
	12:26 PM	12:26 PM	Jupiter	Jupiter rises
	1:59 PM	1:59 PM	Moon	Moonset
	5:15 PM	5:15 PM	Iridium Flare	CHES:Iridium 59 Flares at mag.-7.7 (Azm 267 Alt 70)

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
						1							1				1	2	3	4	5
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12	
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19	
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26	
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30				
							30	31													

Calendar

	Start	End	Category	Description
25 Mar 2014	5:52 PM	5:52 PM	Jup GRS	GRS Transit (CML=207)
	7:23 PM	7:23 PM	Sun	Sunset
	8:49 PM	8:49 PM	Twilight	Astronomical Twilight ends
	9:17 PM	9:17 PM	Iridium Flare	CHES:Iridium 52 Flares at mag.-6.3 (AzM 003 Alt 16)
26 Mar 2014	2:58 AM	2:58 AM	Jupiter	Jupiter sets
	3:48 AM	3:48 AM	Jup GRS	GRS Transit (CML=207)
	4:02 AM	4:02 AM	Moon	Moonrise
	5:35 AM	5:35 AM	Twilight	Astronomical Twilight begins
	7:02 AM	7:02 AM	Sun	Sunrise
	12:22 PM	12:22 PM	Jupiter	Jupiter rises
	1:43 PM	1:43 PM	Jup GRS	GRS Transit (CML=207)
	3:06 PM	3:06 PM	Moon	Moonset
	7:24 PM	7:24 PM	Sun	Sunset
	8:50 PM	8:50 PM	Twilight	Astronomical Twilight ends
	9:11 PM	9:11 PM	Iridium Flare	CHES:Iridium 10 Flares at mag.-6.3 (AzM 003 Alt 20)
	11:39 PM	11:39 PM	Jup GRS	GRS Transit (CML=207)
27 Mar 2014	2:54 AM	2:54 AM	Jupiter	Jupiter sets
	4:00 AM	4:00 AM	Diary	Venus 3.4S of Moon
	4:20 AM	4:20 AM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
	4:45 AM	4:45 AM	Moon	Moonrise
	5:34 AM	5:34 AM	Twilight	Astronomical Twilight begins
	7:01 AM	7:01 AM	Sun	Sunrise
	9:35 AM	9:35 AM	Jup GRS	GRS Transit (CML=207)
	12:19 PM	12:19 PM	Jupiter	Jupiter rises
	2:00 PM	2:00 PM	Diary	Moon at perigee
	4:15 PM	4:15 PM	Moon	Moonset
	7:25 PM	7:25 PM	Sun	Sunset
	7:30 PM	7:30 PM	Jup GRS	GRS Transit (CML=207)
	8:51 PM	8:51 PM	Twilight	Astronomical Twilight ends
	9:05 PM	9:05 PM	Iridium Flare	CHES:Iridium 13 Flares at mag.-3.6 (AzM 003 Alt 22)
	10:02 PM	10:02 PM	Jup Sats	II.Tr.I
	11:07 PM	11:07 PM	Jup Sats	IV.Tr.I
28 Mar 2014	12:33 AM	12:33 AM	Jup Sats	II.Sh.I
	12:42 AM	12:42 AM	Jup Sats	II.Tr.E
	2:51 AM	2:51 AM	Jupiter	Jupiter sets
	5:25 AM	5:25 AM	Moon	Moonrise
	5:26 AM	5:26 AM	Jup GRS	GRS Transit (CML=207)
	5:32 AM	5:32 AM	Twilight	Astronomical Twilight begins
	6:24 AM	6:24 AM	Sat Pass (HST)	CHES:HST Passes SW to E (AzM 164.2 Alt 16)

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1							1			1	2	3	4	5
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30			
							30	31												

Calendar

	Start	End	Category	Description
28 Mar 2014	6:59 AM	6:59 AM	Sun	Sunrise
	7:00 AM	7:00 AM	Diary	Neptune 4.7S of Moon
	12:15 PM	12:15 PM	Jupiter	Jupiter rises
	3:22 PM	3:22 PM	Jup GRS	GRS Transit (CML=207)
	5:23 PM	5:23 PM	Moon	Moonset
	7:00 PM	7:00 PM	Meetings	NAS Observing Session (Gates Co., NC)
	7:26 PM	7:26 PM	Sun	Sunset
	8:52 PM	8:52 PM	Twilight	Astronomical Twilight ends
	8:58 PM	8:58 PM	Iridium Flare	CHES:Iridium 50 Flares at mag. 0.5 (Azm 004 Alt 24)
	9:00 PM	9:00 PM	Diary	Mercury 5.9S of Moon
29 Mar 2014	1:18 AM	1:18 AM	Jup GRS	GRS Transit (CML=207)
	2:26 AM	2:26 AM	Jup Sats	I.Tr.I
	2:47 AM	2:47 AM	Jupiter	Jupiter sets
	5:30 AM	5:30 AM	Twilight	Astronomical Twilight begins
	6:03 AM	6:03 AM	Moon	Moonrise
	6:17 AM	6:17 AM	Sat Pass (ISS)	CHES:ISS Passes NW to E (Azm 32.0 Alt 27)
	6:18 AM	6:18 AM	Sat Pass (HST)	CHES:HST Passes SW to E (Azm 166.9 Alt 19)
	6:29 AM	6:29 AM	Iridium Flare	CHES:Iridium 5 Flares at mag.-5.2 (Azm 176 Alt 55)
	6:58 AM	6:58 AM	Sun	Sunrise
	11:14 AM	11:14 AM	Jup GRS	GRS Transit (CML=207)
	12:11 PM	12:11 PM	Jupiter	Jupiter rises
	6:31 PM	6:31 PM	Moon	Moonset
	7:27 PM	7:27 PM	Sun	Sunset
	8:53 PM	8:53 PM	Twilight	Astronomical Twilight ends
	9:09 PM	9:09 PM	Jup GRS	GRS Transit (CML=207)
	9:35 PM	9:35 PM	Jup Sats	II.Ec.R
	11:45 PM	11:45 PM	Jup Sats	I.Oc.D
30 Mar 2014	1:00 AM	1:00 AM	Algol Minima	Algol at mag. +3.4 minimum (+/-5 hours)
	2:43 AM	2:43 AM	Jupiter	Jupiter sets
	5:27 AM	5:27 AM	Sat Pass (ISS)	CHES:ISS Passes NW to E (Azm 27.5 Alt 17)
	5:29 AM	5:29 AM	Twilight	Astronomical Twilight begins
	6:11 AM	6:11 AM	Sat Pass (HST)	CHES:HST Passes SW to E (Azm 169.9 Alt 22)
	6:23 AM	6:23 AM	Iridium Flare	CHES:Iridium 8 Flares at mag.-1.8 (Azm 178 Alt 55)
	6:41 AM	6:41 AM	Moon	Moonrise
	6:56 AM	6:56 AM	Sun	Sunrise
	7:05 AM	7:05 AM	Jup GRS	GRS Transit (CML=207)
	12:08 PM	12:08 PM	Jupiter	Jupiter rises
	3:00 PM	3:00 PM	Diary	NEW MOON
	4:50 PM	4:50 PM	Iridium Flare	CHES:Iridium 33 Flares at mag.-4.6 (Azm 255 Alt 63)
	5:01 PM	5:01 PM	Jup GRS	GRS Transit (CML=207)

Norfolk Astronomical Society Astronomical Calendar

February 2014							March 2014							April 2014						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
						1							1			1	2	3	4	5
2	3	4	5	6	7	8	2	3	4	5	6	7	8	6	7	8	9	10	11	12
9	10	11	12	13	14	15	9	10	11	12	13	14	15	13	14	15	16	17	18	19
16	17	18	19	20	21	22	16	17	18	19	20	21	22	20	21	22	23	24	25	26
23	24	25	26	27	28		23	24	25	26	27	28	29	27	28	29	30			
							30	31												

Calendar

	Start	End	Category	Description
30 Mar 2014	6:49 PM	6:49 PM	Iridium Flare	CHES:Iridium 5 Flares at mag.-4.6 (Azm 338 Alt 63)
	7:00 PM	7:00 PM	Diary	Uranus 2.1S of Moon
	7:28 PM	7:28 PM	Sun	Sunset
	7:37 PM	7:37 PM	Moon	Moonset
	8:54 PM	8:54 PM	Twilight	Astronomical Twilight ends
	8:55 PM	8:55 PM	Jup Sats	III.Tr.I
	8:55 PM	8:55 PM	Jup Sats	I.Tr.I
	10:12 PM	10:12 PM	Jup Sats	I.Sh.I
	11:10 PM	11:10 PM	Jup Sats	I.Tr.E
31 Mar 2014	12:07 AM	12:07 AM	Jup Sats	III.Tr.E
	12:28 AM	12:28 AM	Jup Sats	I.Sh.E
	2:04 AM	2:04 AM	Jup Sats	III.Sh.I
	2:40 AM	2:40 AM	Jupiter	Jupiter sets
	2:57 AM	2:57 AM	Jup GRS	GRS Transit (CML=207)
	5:27 AM	5:27 AM	Twilight	Astronomical Twilight begins
	6:05 AM	6:05 AM	Sat Pass (HST)	CHES:HST Passes SW to E (Azm 172.9 Alt 24)
	6:13 AM	6:13 AM	Sat Pass (ISS)	CHES:ISS Passes NW to SE (Azm 38.6 Alt 68)
	6:55 AM	6:55 AM	Sun	Sunrise
	7:19 AM	7:19 AM	Moon	Moonrise
	12:04 PM	12:04 PM	Jupiter	Jupiter rises
	12:53 PM	12:53 PM	Jup GRS	GRS Transit (CML=207)
	6:43 PM	6:43 PM	Iridium Flare	CHES:Iridium 8 Flares at mag.-4.6 (Azm 335 Alt 64)
	7:28 PM	7:28 PM	Sun	Sunset
	8:43 PM	11:59 PM	Moon	Moonset
	8:55 PM	8:55 PM	Twilight	Astronomical Twilight ends
	9:48 PM	9:48 PM	Jup Sats	I.Ec.R
	10:48 PM	10:48 PM	Jup GRS	GRS Transit (CML=207)