

## 2015 Astronomical Events

Data compiled by Alex Mowery

### Ordered by Date

Date	Event Type	Description
Jan 07	Comets	C/2014 Q2 Lovejoy closest to Earth
Jan 17	Planetary	Double shadow transit of Io and Europa
Jan 24	Planetary	Triple shadow transit of Io, Ganymede, Callisto
Jan 26	Asteroid	Asteroid 2004 BL86 makes closest pass to Earth
Feb 01	Conjunction	Venus and Neptune within 0.8°
Feb 06	Planetary	Jupiter at opposition
Feb 20	Conjunction	Triple Conjunction (Moon, Mars, Venus) within 2°
Feb 21	Conjunction	Double Conjunction (Venus, Mars and Moon, Uranus) each within 0.5°
Feb 24	Planetary	Mercury at Greatest Western Elongation
Mar 04	Conjunction	Venus and Uranus within 0.1°
Mar 06	Mission	Dawn at Ceres
Mar 11	Conjunction	Mars and Uranus within 0.3°
Mar 20	Eclipse	Total Solar - Not visible in US
Apr 04	Eclipse	Total Lunar - Eclipse in progress at moonset (7:12am)
Apr 08	Conjunction	Mercury and Uranus within 0.5°
Apr 22	Meteor Shower	Lyrids (~18 ZHR)
May 05	Meteor Shower	Eta Aquarids (~55 ZHR)
May 07	Planetary	Mercury at Greatest Eastern Elongation
May 19	Occultation	Moon occults Aldebaran for North America (~2:53 UT)
May 20	Comets	C/2014 Q1 Pan-STARRS may reach binocular visibility
May 20	Planetary	Double shadow transit of Io and Ganymede
May 23	Planetary	Saturn at opposition
May 28	Planetary	Double shadow transit of Io and Ganymede
May 30	Comets	19P/Borrelly may reach binocular visibility
Jun 04	Planetary	Double shadow transit of Io and Ganymede
Jun 05	Planetary	Venus at Greatest Eastern Elongation
Jun 16	Comets	C/2014 Q1 Pan-STARRS may reach binocular visibility
Jun 24	Planetary	Mercury at Greatest Western Elongation
Jul 01	Conjunction	Venus and Jupiter within 0.3°
Jul 02	Comets	C/2013 US10 Catalina may reach binocular
Jul 06	Planetary	Pluto at opposition
Jul 14	Mission	New Horizons at Pluto
Jul 28	Meteor Shower	Delta Aquarids (~16 ZHR)
Jul 31	Planetary	"Blue Moon" (second full moon in July)
Aug 07	Conjunction	Mercury, Jupiter, Regulus within 1°
Aug 13	Meteor Shower	Perseids (~100 ZHR)
Aug 29	Planetary	Supermoon
Sep 01	Planetary	Neptune at opposition
Sep 03	Occultation	Occultation of +3 mag star by asteroid 112 Iphigenia for Miami area (~5:20a)
Sep 04	Planetary	Mercury at Greatest Eastern Elongation
Sep 13	Eclipse	Partial Solar - Not visible in US
Sep 25	Conjunction	Mars and Regulus within 0.8°
Sep 28	Eclipse	Total Lunar - Full eclipse visible from SC (9:07p-12:27a)
Sep 28	Planetary	Supermoon

Oct 01	Comets	C/2013 US10 Catalina may reach naked eye visibility
Oct 02	Planetary	Double shadow transit of Io and Callisto
Oct 08	Meteor Shower	Draconids
Oct 11	Planetary	Uranus at opposition
Oct 16	Planetary	Mercury at Greatest Western Elongation
Oct 17	Conjunction	Mars and Jupiter within 0.4°
Oct 18	Planetary	Double shadow transit of Io and Ganymede
Oct 21	Meteor Shower	Orionids (~15 ZHR)
Oct 25	Planetary	Double shadow transit of Io and Ganymede
Oct 26	Conjunction	Venus and Jupiter within 1°
Oct 26	Planetary	Venus at Greatest Eastern Elongation
Oct 27	Planetary	Supermoon
Oct 28	Conjunction	Triple Conjunction of Venus, Mars, Jupiter at 1° separation
Nov 02	Conjunction	Venus and Mars within 0.7°
Nov 05	Meteor Shower	Taurids
Nov 18	Meteor Shower	Leonids (~15 ZHR)
Nov 22	Meteor Shower	Alpha Monocerotids - possible outburst of 400+ ZHR
Nov 26	Occultation	Moon occults Aldebaran for North America (~4:56a)
Nov 29	Comets	C/2013 X1 PanSTARRS may reach binocular visibility
Dec 07	Conjunction	Moon and Venus within 2°
Dec 07	Occultation	The Moon occults Venus in the daytime for North America (~11:55a)
Dec 14	Meteor Shower	Geminids (~120 ZHR)
Dec 23	Meteor Shower	Ursids (~10-50 ZHR)
Dec 29	Planetary	Mercury at Greatest Eastern Elongation

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	May 30	19P/Borrelly may reach binocular visibility
	Jun 16	C/2014 Q1 Pan-STARRS may reach binocular visibility
	Jul 02	C/2013 US10 Catalina may reach binocular
	Oct 01	C/2013 US10 Catalina may reach naked eye visibility
	Nov 29	C/2013 X1 PanSTARRS may reach binocular visibility
<b>Conjunction</b>	Feb 01	Venus and Neptune within 0.8°
	Feb 20	Triple Conjunction (Moon, Mars, Venus) within 2°
	Feb 21	Double Conjunction (Venus, Mars and Moon, Uranus) each within 0.5°
	Mar 04	Venus and Uranus within 0.1°
	Mar 11	Mars and Uranus within 0.3°
	Apr 08	Mercury and Uranus within 0.5°
	Jul 01	Venus and Jupiter within 0.3°
	Aug 07	Mercury, Jupiter, Regulus within 1°
	Sep 25	Mars and Regulus within 0.8°
	Oct 17	Mars and Jupiter within 0.4°
	Oct 26	Venus and Jupiter within 1°
	Oct 28	Triple Conjunction of Venus, Mars, Jupiter at 1° separation
	Nov 02	Venus and Mars within 0.7°
	Dec 07	Moon and Venus within 2°
<b>Eclipse</b>	Mar 20	Total Solar - Not visible in US
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	Dec 29	Mercury at Greatest Eastern Elongation