

Naked Eye Astronomy Retreat

July 15, 16, 17, 2007 – Palomar Mountain, San Diego

Join astrologer, historian, and star lore expert Ed Kohout in the shadow of Palomar Observatory for three nights of viewing pristine night skies without significant light pollution -- as the ancients would have.

This is a rare opportunity to see Venus and Jupiter at their brightest at the same time under favorable conditions, in the evening, and near to bright fixed stars of historical importance.

Mars even makes an appearance each morning for about an hour.

We will also witness the new crescent moon each night as it moves quickly by Venus and Saturn through the constellations of Cancer and Leo and increases in light as it moves away from the Sun.

Each night, Ed will identify key features of the heavens during what promise to be this summer's most spectacular displays. Learn about ancient star lore, constellations, and heavenly motion
Learn why the planets vary in brightness and position in the sky.

No telescopes will be used; each participant is urged to use only their own eyes and imagination to re-discover the whole of the night sky – just as the pioneering astrologers of ancient civilizations might have. Of course, anyone is free to supply their own telescope, and binoculars are also a great idea, but the point of all this is to embrace the immense beauty and wonderment of the heavens without filters.

\$25.00 cost includes star maps, lore guides, astronomical instruction, and personal attention.

We will embark every evening from the Philosophical Library at 7 PM and caravan to a pre-determined observation area atop Palomar Mountain. It is suggested to bring a light jacket in case we have a cool evening. Nighttime is only ~9 hours long during July,

Questions can be directed to Ed: (760) 644-5461, or ed@edkohout.com

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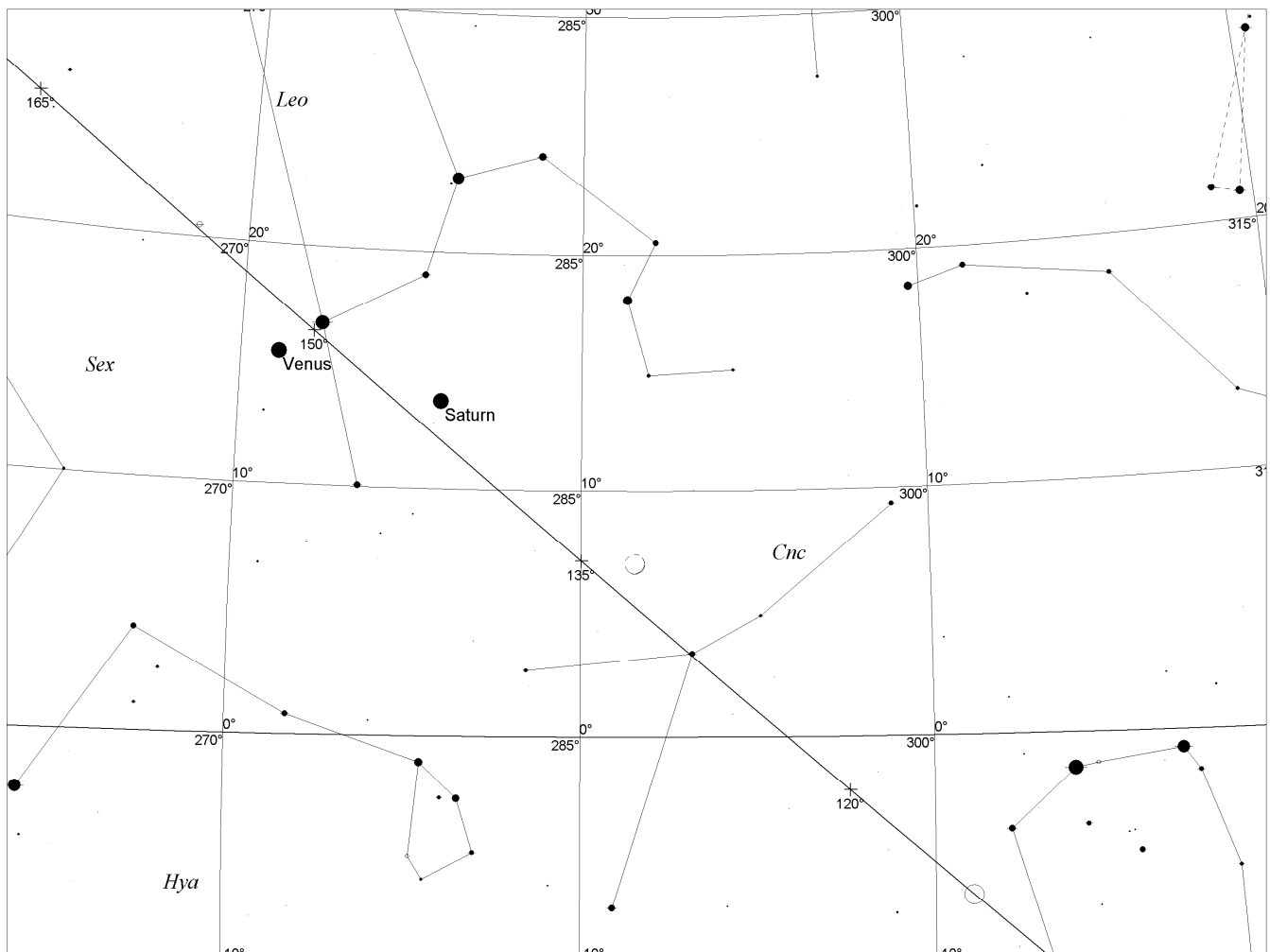
Itinerary:

Sunday, July 15, 2007

Check-in at the Philosophical Library at 6:30 PM, PDT. Leave for Mountain at 7 PM.

Sunset is about 7:50 PM. Twilight begins at about 8:20 PM.

First visible lunar crescent appears above Cancer;
Venus at -4.5 Magnitude, in Leo conjunct Regulus
Saturn at 0.5 Magnitude, between Venus and Moon



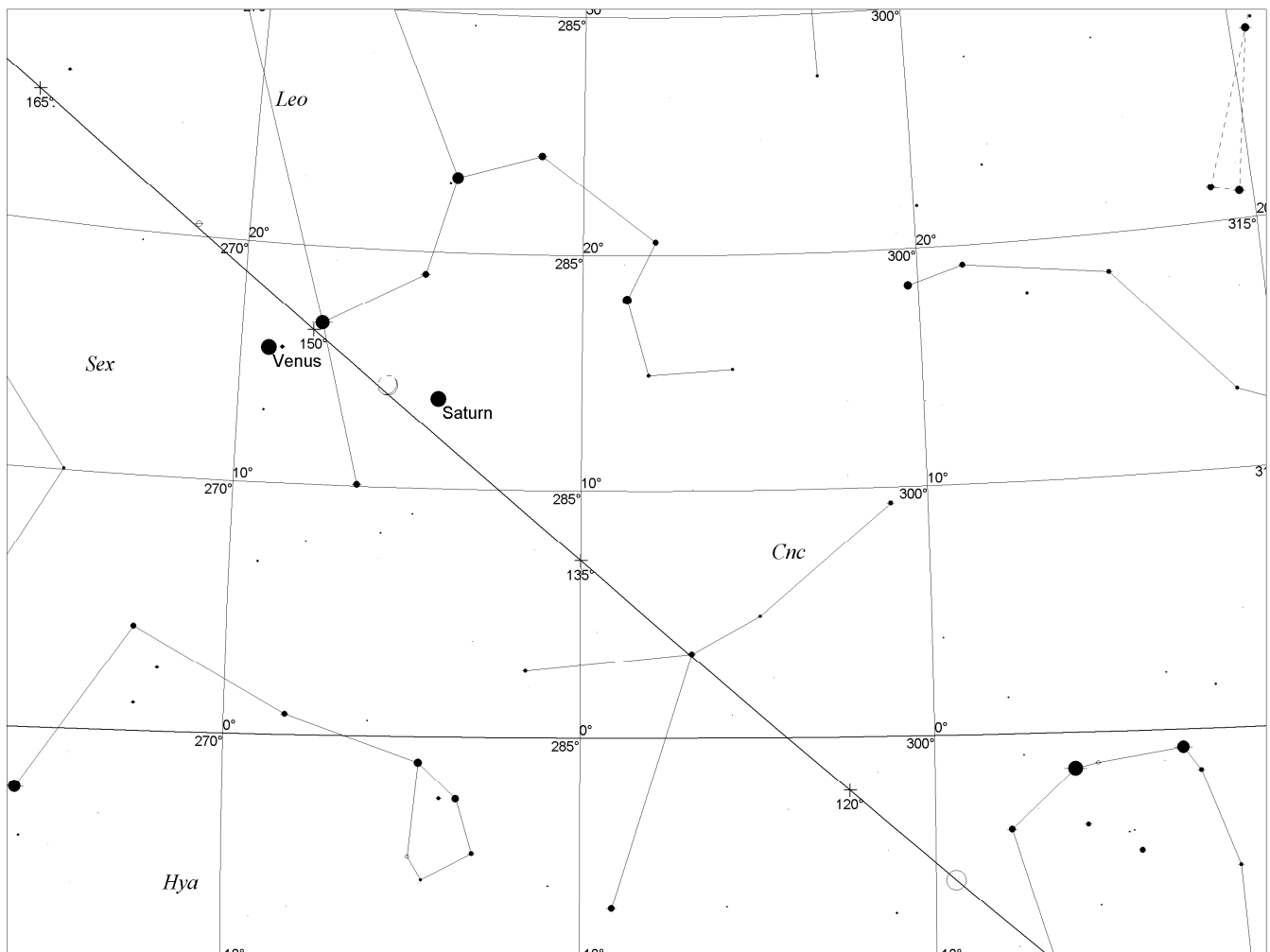
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Monday, July 16, 2007

Check-in at the Philosophical Library at 6:30 PM, PDT. Leave for Mountain at 7 PM.

Sunset is about 7:50 PM. Twilight begins at about 8:20 PM.

Lunar crescent moves directly in between Saturn and Venus



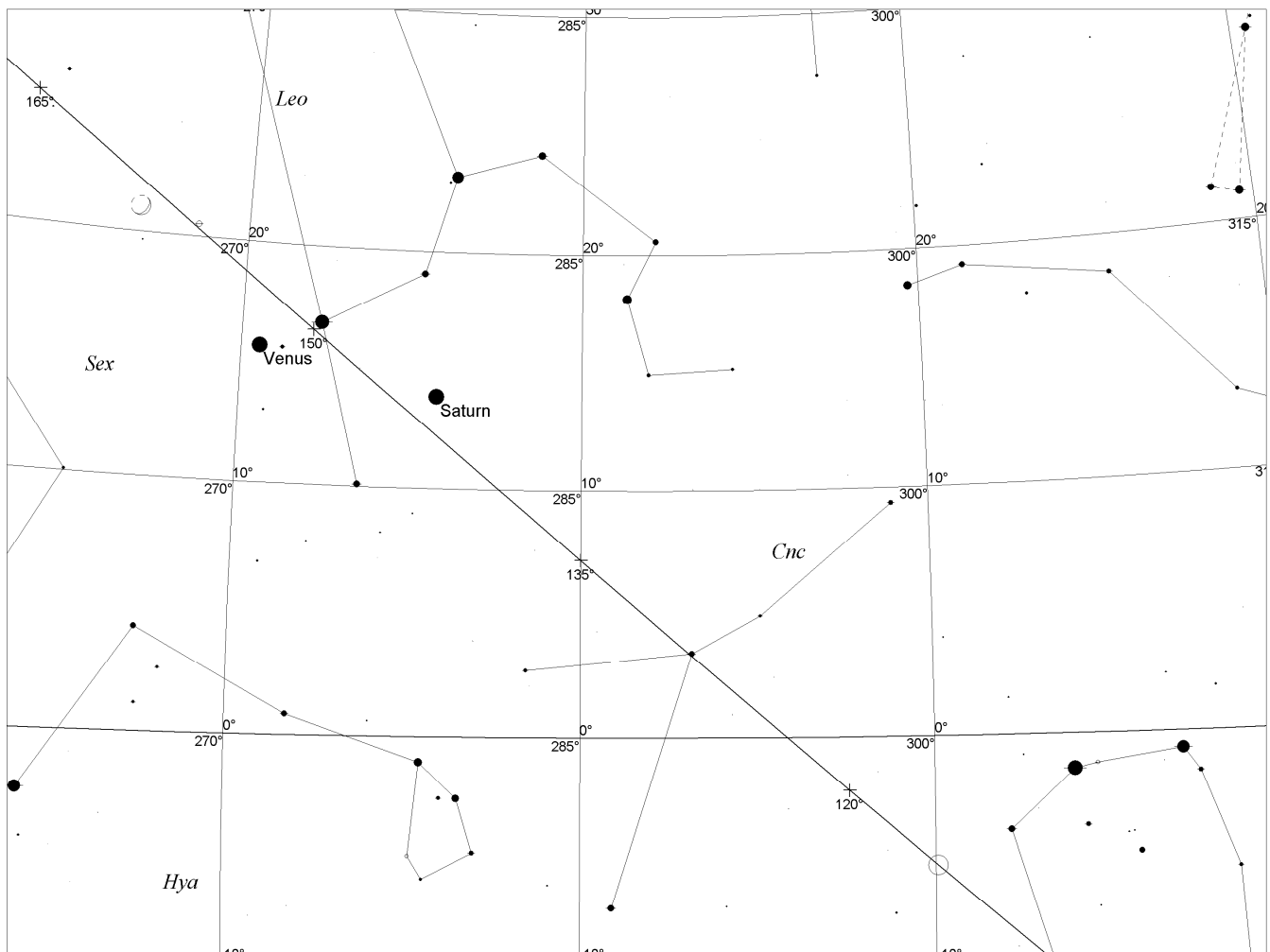
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Tuesday, July 17, 2007

Check-in at the Philosophical Library at 6:30 PM, PDT. Leave for Mountain at 7 PM.

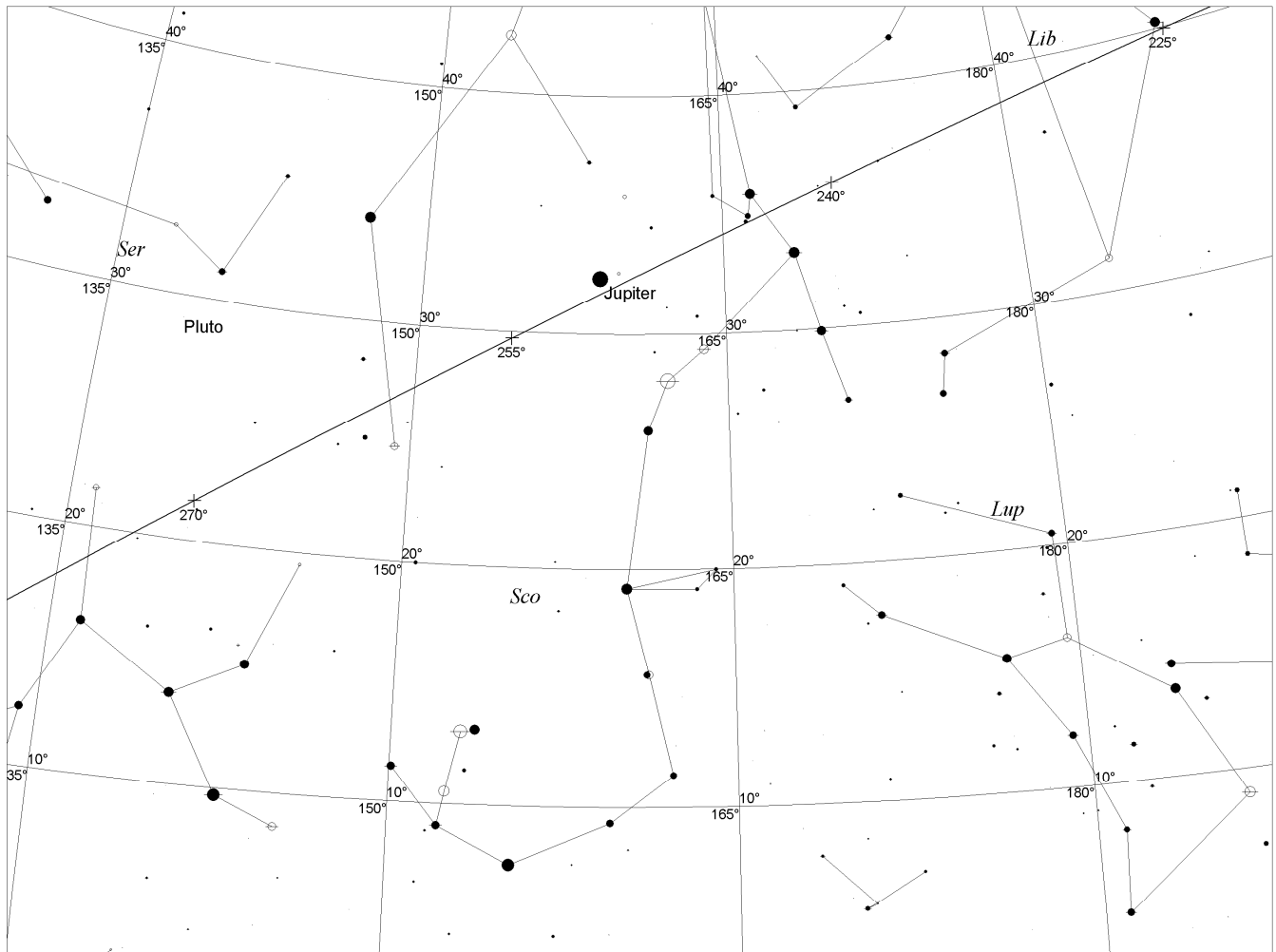
Sunset is about 7:50 PM. Twilight begins at about 8:20 PM.

Lunar crescent moves beyond Venus and Regulus



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Every night, to the east-southeast, we can see Jupiter at -2.6 Magnitude in Scorpio near Antares



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Events for Sunday 15/16 Jul 2007

19:56	Sun sets
20:24	End of civil twilight
20:58	End of nautical twilight
21:10	Moon sets
21:35	End of astronomical twilight
21:40	Saturn sets
21:48	Jupiter transits the meridian
21:48	Venus sets
01:19	Mars rises
02:50	Jupiter sets
04:08	Start of astronomical twilight

Events for Monday 16/17 Jul 2007

19:55	Sun sets
20:23	End of civil twilight
20:58	End of nautical twilight
21:34	End of astronomical twilight
21:37	Saturn sets
21:41	Moon sets
21:43	Jupiter transits the meridian
21:44	Venus sets
01:18	Mars rises
02:46	Jupiter sets
04:09	Start of astronomical twilight

Events for Tuesday 17/18 Jul 2007

19:55	Sun sets
20:23	End of civil twilight
20:57	End of nautical twilight
21:33	Saturn sets
21:34	End of astronomical twilight
21:39	Jupiter transits the meridian
21:41	Venus sets
22:09	Moon sets
01:16	Mars rises
02:42	Jupiter sets