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[CELESTIAL](celestal.html) [EVENTS](feasts.html) FOR 1999-2000

By Rabbi Dr. Hillel ben David (Greg Killian)

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[HaShem](hashem.html)’s [calendar](calendar.html) is oriented around the phases of the [moon](chodesh.html). For example, The following [feasts](feasts.html) ALWAYS occur during a full [moon](chodesh.html):

[**Passover**](passover.html)

[**Feast of Tabernacles**](succoth.html)

**Tu B’**[**Shevat**](tubshevt.html)

**Shushan** [**Purim**](Purim.html)

Several other [feasts](feasts.html) always occur during certain phases of the [moon](chodesh.html):

The beginning of each Biblical **month** always occurs on the [new](new.html) [moon](chodesh.html).

The [**Feast of Weeks**](shavuot.html) always occurs at the [first](one.html) quarter [moon](chodesh.html).

**Feast of Trumpets** – Always occurs at the [new](new.html) [moon](chodesh.html).

[**Chanukah**](chanukah.html) always includes a [new](new.html) [moon](chodesh.html).

**1999 begins in 5759 and ends in 5760.**

**It is not a leap year.**

H O L I D A Y S

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| --- | --- | --- |
| Tu B'[Shevat](tubshevt.html) | Shev 15, | Mon, Feb 1 |
| [Purim](Purim.html) | [Adar](feasts.html) 14, | Tue, Mar 2 |
| [Passover](passover.html) | Nis 15, | Thu, Apr 1 |
| Yom Hashoah | Nis 27, | Tue, Apr 13 |
| Yom Haatzmaut | [Iyar](feasts.html) 5, | Wed, Apr 21 |
| [Lag B'Omer](omer.html) | [Iyar](feasts.html) 18, | Tue, May 4 |
| [Shavuot](shavuot.html) | Siv 6, | Fri, May 21 |
| Tisha B'[Av](tishabav.html) | [Av](feasts.html) 9, | Thu, Jul 22 |
| [Rosh Hashana](teruah.html)h | Tish 1, | Sat, Sep 11 |
| [Yom Kippur](kippur.html) | Tish 10, | Mon, Sep 20 |
| [Succoth](succoth.html) | Tish 15, | Sat, Sep 25 |
| [Shemini Atzeret](shemini.html) | Tish 22, | Sat, Oct 2 |
| [Simchat Torah](simchat.html) | Tish 23, | [Sun](hachama.html), Oct 3 |
| [Chanukah](chanukah.html) | Kis 25, | Sat, Dec 4 |

**2000 begins in 5760 and ends in 5761.**

**It is a leap year.**

H O L I D A Y S

|  |  |  |
| --- | --- | --- |
| Tu B'[Shevat](tubshevt.html) | Shev 15, | Sat, Jan 22 |
| [**Purim**](Purim.html) | [Adar](feasts.html) II 14, | Tue, Mar 21 |
| [**Passover**](passover.html) | Nis 15, | Thu, Apr 20 |
| Yom Hashoah | Nis 27, | Tue, May 2 |
| Yom Haatzmaut | [Iyar](feasts.html) 5, | Wed, May 10 |
| [Lag B'Omer](omer.html) | [Iyar](feasts.html) 18, | Tue, May 23 |
| [**Shavuot**](shavuot.html) | Siv 6, | Fri, Jun 9 |
| Tisha B'[Av](tishabav.html) | [Av](feasts.html) 9, | Thu, Aug 10 |
| [**Rosh Hashana**](teruah.html)**h** | Tish 1, | Sat, Sep 30 |
| [**Yom Kippur**](kippur.html) | Tish 10, | Mon, Oct 9 |
| [**Succoth**](succoth.html) | Tish 15, | Sat, Oct 14 |
| Sh'mini Atz | Tish 22, | Sat, Oct 21 |
| [Simchat Torah](simchat.html) | Tish 23, | [Sun](hachama.html), Oct 22 |
| [**Chanukah**](chanukah.html) | Kis 25, | Fri, Dec 22 |

**1999 Apr 16-25** (April 21 – [Iyar](feasts.html) 5, **Yom Haatzmaut**) - Lyrids. Active with this year's predicted maximum on Apr 22 around 16h UT. ZHR variable, but may be as high as 90 (generally much less). Radiant at 18h04m, +34 degrees. This shower is best observed after 22:30 local [time](time.html). The [moon](chodesh.html) sets around 1:30am local [time](time.html) so predawn hours are probably the best [time](time.html) to observe this year's shower. The peak usually only lasts a few hours, but this is a good year to observe the Lyrids so it may be worth checking out. Lyrids are quick and sometimes very bright.

**1999 May 4** - ([Iyar](feasts.html) 18 – [**Lag B’Omer**](omer.html)) Eta Aquarid meteor shower peaks tonight. [Moon](chodesh.html) interferes. Oslo Accord ends. Palestinian state may be declared.

**1999 May 5-6** - Eta Aquarids Meteor Shower.

**1999 May 17** – Israel Elections: Venus is close to an old [moon](chodesh.html).

**1999 May 27** – Nearly full [moon](chodesh.html) very close to Mars.

**1999 May 30** – Smallest full [moon](chodesh.html) of the year.

**1999 June 10** – Old [moon](chodesh.html) very close to Jupiter.

**1999 June 11** – Old [moon](chodesh.html) very close to Saturn.

**1999 June 15** – [New](new.html) [moon](chodesh.html) close to Mercury.

**1999 June 17** – [New](new.html) [moon](chodesh.html) close to Venus.

**1999 June 23** – [Moon](chodesh.html) close to Mars

**1999 July 8** – [Moon](chodesh.html) close to Saturn and Jupiter.

**1999 July 14** – [New](new.html) [moon](chodesh.html) close to Mercury.

**1999 July 16** – [New](new.html) [moon](chodesh.html) close to Venus.

**1999 July 21** – [Moon](chodesh.html) close to Mars.

**1999 July 28** - Partial lunar eclipse. Southern Delta Aquarids Meteor Shower

**1999 August 4** – [Moon](chodesh.html) close to Saturn and Jupiter.

**1999 August 10** – [Moon](chodesh.html) occults Mercury.

**1999 August 11** - ([**Elul**](elul.html) **1**, 5759) Total Solar Eclipse which passes very close to [Jerusalem](city.html). Venus should be visible close to the eclipsed [sun](hachama.html). This occurs exactly a month before the [sign](signs.html) of Revelation 12:1.

**1999 August 11-12 -** Perseid Meteor Shower. The Perseids should reaches a peak of nearly a meteor a minute under ideal moonless skies. The [new](new.html) [moon](chodesh.html) will be a welcome bonus this year.

**1999 August 19 –** [Moon](chodesh.html) close to Mars.

**22 August 1999**, 132 days before the Year 2000. Unless repaired, many GPS receivers will claim that it is 6 January 1980, 23 August will become 7 January, and so on. Accuracy of navigation may also be severely affected. Although it appears that GPS broadcasts do contain sufficient data to ensure that navigation need not be affected by rollover in 1999, it is not proven that the firmware in all receivers will handle the rollovers in stride; some receivers may claim wrong locations in addition to incorrect dates. Some manufacturers have already solved the problem, but some have not. The firmware in all affected (mostly older) receivers will have to be replaced. This will involve replacement of PROMs; some are socketed, some are soldered. As a technical matter, the solution is quite simple. It's the logistics that will take some effort. Without a GPS Simulator, there is no way for users to test a GPS receiver for this problem. Users are encouraged to contact their receiver manufacturer to determine if their receiver will be affected, in particular if a failure of navigation could put lives or property at risk."

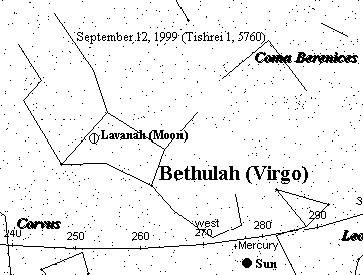
The Boeing Company, currently upgrading GPS to deal with the date rollover problem, says that it will complete its task, at the earliest, in December of 1999, a full [four](four.html) months after rollover is scheduled to occur 8/22/99.

http://www.navcen.uscg.mil/gps/geninfo/[y2k](torahy2k.html)/gpsweek.htm

**1999 August 31** – [Moon](chodesh.html) close to Saturn and Jupiter.

**1999 September 7** – [Moon](chodesh.html) close to Venus.

**1999 September 12** (Tishre 2, 5760) - When I [first](one.html) saw the picture below, I immediately thought of the Revelation 12 [sign](signs.html). This [celestial](celestal.html) picture is for [Yom Teruah](teruah.html), The Feast of Trumpets in 1999, which is 5760 on the Biblical anno mundo scale. This [sign](signs.html) occurs on [Shabbat](sabbath.html), the [Sabbath](sabbath.html) (Friday sundown to Saturday sundown). The above picture does not show Draco, the Dragon, because it would make the picture curved and hard to relate to. If you had a larger picture you would see that Draco is poised above the woman, waiting to snatch the man-child. The [moon](chodesh.html) is poised in the "[birth](birth.html) canal" of the [virgin](virgin.html) who is [lying down](mashal.html) with her [feet](heel.html) in the air. The word "Bethulah" is in the location where her [head](body.html) should be. The constellation of Coma Bernice is the crown of [twelve](twelve.html) [stars](mazaroth.html) above the [virgin](virgin.html)'s [head](body.html).

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**1999 September 17** – [Moon](chodesh.html) is close to Mars.

**1999 September 27** – [Moon](chodesh.html) close to Saturn and Jupiter.

**1999 October 6** – [Moon](chodesh.html) close to Venus. Saturn is at opposition and will be at its brightest for 20 years.

**1999 October 16** – [Moon](chodesh.html) is close to Mars.

**1999 October 21-22** - Orionids Meteor Shower.

**1999 October 25** – [Moon](chodesh.html) close to Saturn and Jupiter.

**1999 November 4** – [Moon](chodesh.html) close to Venus.

**1999 November 13** – [Moon](chodesh.html) is cery close to Mars.

**1999 November 17-18** - Leonid Meteor Shower. There could be an exceptional show this year

**1999 November 21** – [Moon](chodesh.html) close to Saturn and Jupiter.

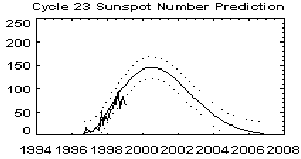
**1999 December 3** – [Moon](chodesh.html) very close to Venus. [Chanukah](chanukah.html) begins.

**1999 December 12** – [Moon](chodesh.html) occults Mars.

**1999 December 18** – [Moon](chodesh.html) close to Saturn and Jupiter.

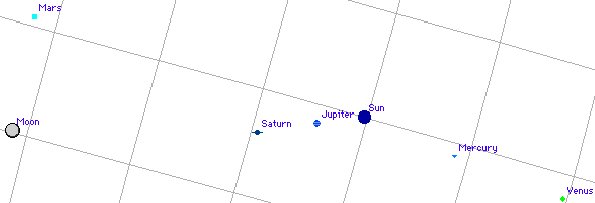
**1999 – 2000** – Sunspont activity reaches maximum. Every 11 years the [sun](hachama.html) undergoes a period of activity called the "solar maximum", followed by a period of quiet called the "solar minimum". During the solar maximum there are many sunspots, solar flares, and coronal mass ejections, all of which can affect communications and weather here on Earth. The next solar maximum, due sometime around the year 2000, could create nightmares. For [one](one.html) thing, modern societies, with their cellular phones and satellite navigation and communications systems, have become more vulnerable than ever to electronic disruptions. Equally worrisome is the fact that electrical utilities have created enormous, interconnected power grids in an attempt to [save](salvation.html) money. The power outages that plagued the American West this summer provide a dramatic illustration of how vulnerable these systems have become. "The scale," says transmission expert John Kappenman of Minnesota Power and Light, "is scary." Financial losses alone would amount to billions of dollars, and if the blackouts occurred during a cold snap, or a heat wave, there could be a human toll as well. Solar Flares can channel huge quantities of solar plasma into the earth's atmosphere, scrambling broadcast signals, corroding buried pipelines, interrupting transatlantic phone conversations, and overheating electrical transformers.

The sprawling North American power grid resembles a giant antenna, attracting electrical currents induced by giant solar storms. In 1989, at the peak of the 11-year solar [cycle](cycles.html), currents generated by a geomagnetic storm shut down the power grid that supplies Canada's Quebec province. More than 6 million customers were plunged into a blackout. *Solar activity runs on an 11-year* [*cycle*](cycles.html)*. The last solar maximum was 1989. Guess when the next* [*one*](one.html) *is due!*



**2000 January 1-3** – Old [moon](chodesh.html) very close to Venus.

**2000 January 10** – [New](new.html) [moon](chodesh.html) very close to Mars.

**2000 January 14** – [Moon](chodesh.html) close to Saturn and Jupiter.

**2000 January 21** – Total lunar eclipse partially visible in Israel. Tu B’[Shevat](tubshevt.html).

**2000 February 2** – Old [moon](chodesh.html) occults Venus.

**2000 February 5 –** Partial solar eclipse not visible over Israel.

**2000 February 6 –** [New](new.html) [moon](chodesh.html) very close to Mercury.

**2000 February 7** – [New](new.html) [moon](chodesh.html) close to Mars.

**2000 February 11** – [Moon](chodesh.html) close to Saturn and Jupiter.

**2000 March 3 –** Old [moon](chodesh.html) occults Venus.

**2000 March 9** – [New](new.html) [moon](chodesh.html) close to Mars, Saturn, and Jupiter.

**2000 April 2 –** Old [moon](chodesh.html) very close to Mercury and Venus.

**2000 April 6** – [New](new.html) [moon](chodesh.html) very close to Mars, Saturn, and Jupiter.

**2000 April 20-22 -** Leonid Meteor Shower. [Passover](passover.html) begins the eveing of the 19th and continues till sundown on the 25th.

**2000 May 2-6 –** The [five](five.html) visible planets, the [sun](hachama.html), and the [moon](chodesh.html) begin massing together. Yom Hashoah.

**2000 May 5-6 -** Eta Aquarids Meteor Shower.

**2000 May 5-6** ([Iyar](feasts.html) 2, 5760) – The [five](five.html) visible planets, the [sun](hachama.html), and the [moon](chodesh.html) line up in a straight line. Josephus says that these [seven](seven.html) [celestial](celestal.html) [bodies](body.html) represent the menorah, the candlestick, in the [Temple](temple.html). [Iyar](feasts.html) 2 is when both the [first](one.html) and the second Temples were begun. The [five](five.html) classical planets plus the [sun](hachama.html) and [moon](chodesh.html) span 26°, their closest separation since 1962 and their closest until 2675. Only Venus in the morning and Mars and the crescent [moon](chodesh.html) in the evening might be visible. Ecliptic grids are 5° apart.

Around 6 May 2000 is an alignment width of 15.4 degrees, i.e., the planets are spread over about 15 degrees in the sky. Between 713 BC and AD 3501, there are 71 alignments that are at least as close as the [one](one.html) of May 2000, so an alignment as close or closer than the [one](one.html) in May 2000 occurs on average about 8.6 times per 1000 years (but without any apparent periodicity). The last alignment before 2000 that was at least as close occurred on **5 February 1962** (alignment width 15.0 degrees). The next reasonable alignment after 2000 occurs on **14 May 2002** with an alignment width of 23 degrees. There are 212 alignments at least as close as that [one](one.html) during the investigated period, so **such alignments occur at a rate of 25.8 per 1000 years** (without apparent periodicity). The closest alignment during the investigated period occured around 25 February 1953 BC, with a smallest alignment width of 3.0 degrees. This is the approximate [time](time.html) of [Abraham](avraham.html) the patriarch. The next alignment that is in the top 30 of the investigated period occurs around 8 September 2040 (width 7.7 degrees), and the most recent [one](one.html) was around 31 August 1624 (10.4 degrees).

**2000 June 1** – Old [moon](chodesh.html) very close to Saturn and Jupiter.

**2000 June 28** – Old [moon](chodesh.html) close to Saturn and Jupiter.

**2000 July 1 –** Partial solar eclipse not visible over Israel.

**2000 July 16** – Total lunar eclipse visible in Israel.

**2000 July 26** – Old [moon](chodesh.html) close to Saturn and Jupiter.

**2000 July 28-29** - Southern Delta Aquarids Meteor Shower.

**2000 July 29** – Old [moon](chodesh.html) occults Mercury.

**2000 July 31 –** Partial solar eclipse not visible over Israel. [New](new.html) [moon](chodesh.html) occults Venus.

**2000 August 11-13** - Eta Aquarids Meteor Shower.

**2000 August 22** – [Fourth](four.html) quarter [moon](chodesh.html) close to Saturn and Jupiter.

**2000 August 27** – Old [moon](chodesh.html) occults Mars.

**2000 September 19** – [Third](three.html) quarter [moon](chodesh.html) close to Saturn and Jupiter.

**2000 September 25** – Old [moon](chodesh.html) close to Mars.

**2000 September 29** – [New](new.html) [moon](chodesh.html) close to Mercury and Venus. [Yom Teruah](teruah.html) begins.

**2000 October 16** – [Third](three.html) quarter [moon](chodesh.html) close to Saturn and Jupiter.

**2000 October 21-22** - Orionids Meteor Shower. [Shemini Atzeret](shemini.html) is the 21st and Simcha Torah is the 22nd.

**2000 October 24** – Old [moon](chodesh.html) close to Mars.

**2000 October 30** – [New](new.html) [moon](chodesh.html) close to Venus.

**2000 November 12** – Full [moon](chodesh.html) very close to Saturn and Jupiter.

**2000 November 17-18** - Leonid Meteor Shower. This could be an exceptional show this year. Every 33 years throughout history, the Leonid display has been amongst the most dynamic of [celestial](celestal.html) [events](feasts.html). The last significant Leonid [event](feasts.html) was recorded in November of 1966. We are hoping this year’s display will be comparable.

**2000 November 21** – Old [moon](chodesh.html) very close to Mars.

**2000 November 29** – [New](new.html) [moon](chodesh.html) very close to Venus.

**2000 December 9** – Full [moon](chodesh.html) very close to Saturn and Jupiter.

**2000 December 12-14** - Geminids Meteor Shower.

**2000 December 20** – Old [moon](chodesh.html) very close to Mars.

**2000 December 22** - This [first](one.html) day of winter’s moonrise will combine full [moon](chodesh.html) with lunar perigee (the point in the [Moon](chodesh.html)’s orbit that is closest to Earth). In addition, perihelion ( Earth’s closest orbital approach to the [Sun](hachama.html)), occurs just 12 days later - on January 3, 2000. This confluence of [celestial](celestal.html) [events](feasts.html) could give us the moonrise of the century. This full [moon](chodesh.html) rising, shortly after sunset, should appear more than 10% larger than normal , and as much as 7% brighter. This is also the [first](one.html) day of [Chanukah](chanukah.html).

**2000 December 25 –** Partial solar eclipse not visible over Israel.

**2000 December 29** – [New](new.html) [moon](chodesh.html) very close to Venus.

**2000 January 6** – Nearly full [moon](chodesh.html) very close to Saturn and Jupiter.

On Tuesday evening, **Tishrei 1, 5766 (October 3, 2005)**, there will be an **annular solar eclipse** that will be visible from India, Africa, much of Russia, Europe, and all of the Middle [East](east.html). This eclipse occurs on the eve of [Yom Teruah](teruah.html)! [Yom Teruah](teruah.html) is the day that the scriptures indicates that [Messiah](mashiach.html) will come in Great glory, to become King over all the Earth. The greatest eclipse will occur at 10:31 UT. **This solar eclipse is in the** [**seventh**](seven.html) **year following the** [**sign**](signs.html) **in Bethulah, in 5760**.

[Yom Teruah](teruah.html), 5758, is [two](two.html) weeks after the [seventh](seven.html) lunar eclipse, some of which were red moons. [five](five.html) of these lunar eclipses fell on Biblical [festivals](festivals.html). The [seventh](seven.html) lunar eclipse occurred at the midpoint of the Days of Repentance, [two](two.html) weeks before [Yom Teruah](teruah.html). Consider what the Scriptures say:

***Joel 2:30 - 3:2*** *I will show wonders in the* [*heavens*](heaven.html) *and on the earth,* [*blood*](body.html) *and* [*fire*](fire.html) *and billows of smoke. The* [*sun*](hachama.html) *will be turned to darkness and the* [*moon*](chodesh.html) *to* [*blood*](body.html) *before the* [*coming*](coming.html) *of the great and dreadful* [*day of HaShem*](hashem.html)*. And everyone who calls on the* [*name*](name.html) *of* [*HaShem*](hashem.html) *will be saved; for on Mount Zion and in* [*Jerusalem*](city.html) *there will be deliverance, as* [*HaShem*](hashem.html) *has said, among the survivors whom* [*HaShem*](hashem.html) *calls. 'In those days and at that* [*time*](time.html)*, when I restore the fortunes of Judah and* [*Jerusalem*](city.html)*, I will* [*gather*](gather.html) *all* [*nations*](nations.html) *and bring them down to the Valley of Jehoshaphat. There I will enter into judgment against them concerning my* [*inheritance*](inherit.html)*, my people Israel, for they scattered my people among the* [*nations*](nations.html) *and divided up my land.*

**\* \* \***

**2007 March 3**, [Adar](feasts.html) 14, [Purim](Purim.html) – lunar eclipse no effect in Israel

**2007 August 28**, [Elul](elul.html) 15 – Total lunar eclipse in Israel.

**2008 February 21**, [Adar](feasts.html) 15, Shushan [Purim](Purim.html) – Penumbral lunar eclipse in Israel.

**2014 April 15**, [Nisan](feasts.html) 15, [Passover](passover.html) – Total lunar eclipse in Israel.

**2014 October 8**, Tishre 14, Erev [Succoth](succoth.html) – Total lunar eclipse in Israel.

**2015 April 4**, [Nisan](feasts.html) 15, [Passover](passover.html) – Total lunar eclipse in Israel.

**2015 September 28**, Tishre 15, [Succoth](succoth.html) – Total lunar eclipse in Israel.

**\* \* \***

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