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*As when the moon, refulgent lamp of night,
O'er heaven's clear azure spreads her sacred light,
When not a breath disturbs the deep serene,
And not a cloud o'ercasts the solemn scene;*

- Homer, Iliad. Bk. viii. (Pope's trans.)

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Moon Add-In
for the
clySmic Icon Bar



Version 2.10

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Introduction

*. . . her face and countenance every day
We changed see and sundry formes partake,
Now horn'd, now round, now bright, now browne and gray;
So that "as changefull as the Moone" men use to say.*

- Edmund Spenser's "Faerie Queene."



For thousands of years, people have observed, been fascinated by, and even worshipped the moon. Helping to bring the art of the lunar almanack into the information age, clySmic Software presents the Moon Add-In for the clySmic Icon Bar. The Moon Add-In displays the moon's phase; rising, southing, and setting; the constellation and signe; and other information.

The Moon Add-In requires the *clySmic Icon Bar (Clysbar) Version 2.10*, running under Windows 3.1 or later. The Moon Add-In consists of the Add-In (MOON.CLB), this help file (MOON.HLP), and a default initialization file (MOON.INI).



Installation into the clySmic Icon Bar

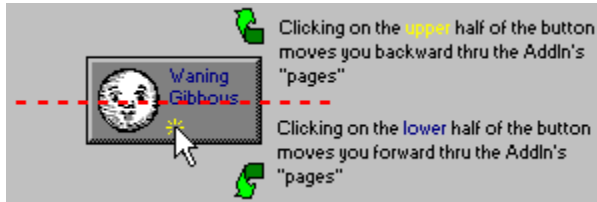
The Clysbar Install program copies the Moon Add-In into the same directory as Clysbar. Note that this is an Install option: check the **Install Moon Phase Add-In** box to install it.

To add the Moon Add-In to the Icon Bar, select **MOON.CLB** in the File Manager and drag and drop it onto the clySmic Button. This installs Moon at the bottom of the current bar. To move the Add-In's position in the bar, go to the Clysbar Configurator and cut and paste the Moon Add-In entry.

Using the Add-In and What's Displayed




The moon's phase is displayed via the icon shown on the Add-In's button. In addition, text can be superimposed over the icon to give more information. You control this by clicking on the Add-In. Click on the **lower half** of the button to "page forward" through the different pieces of information; click on the **upper half** of the button to "page backward." The information shown below is in page order, just keep clicking to move through the list. The Moon Add-In remembers which page you were on last, and starts up at that page next time.

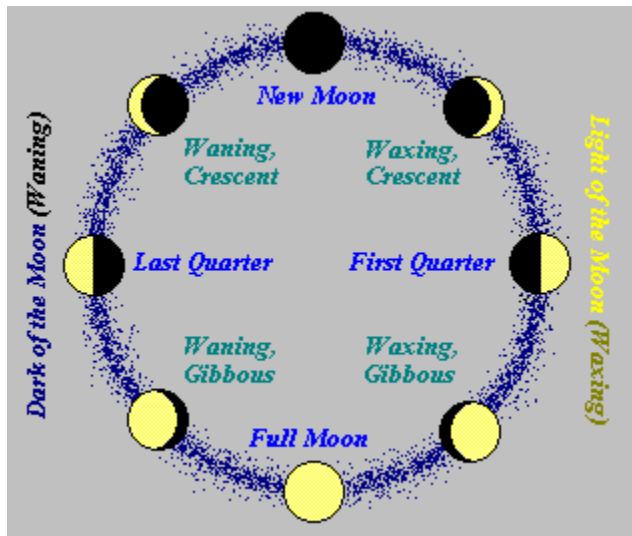


The Pages

- No text - just the moon's phase icon (see [The Moon's Phases](#)). All the pages below have this icon *plus* the listed information
- The name of the moon's phase (see [The Moon's Phases](#))
- The age of the moon (see [The Moon's Age](#))
- The next three pages are the moon's rising, southing, and setting times (see [Rising, Southing, and Setting](#)) in the order in which they occur during the day
- The astronomical constellation the moon is currently in (see [Constellation & Signe](#))
- The astrological sign the moon is currently in (see [Constellation & Signe](#))
- Either the longitude of the moon's ascending node, or the legends "Runs High," "On Equator," or "Rides Low." (see [Runs High, Rides Low, & the Moon's Nodes](#))
- The date
- The day of the week and date

The Phases of the Moon

Click on a hotspot  for more information about that phase.



New Moon



The New Moon and the sun rise and set together, therefore the new moon cannot be seen. What is commonly referred to as the "New Moon" is really the first day one can see the Waxing Crescent moon.

Waxing, Crescent

The Waxing Crescent moon is seen as a sliver in the western evening sky, and sets after sunset in the early evening hours.

First Quarter



The First Quarter moon's right half is illuminated; it is seen in the south at sunset, and sets around midnight.

Waxing, Gibbous

The Waxing, Gibbous moon is between First Quarter and Full, with a "bulge" on the left side. It rises in the afternoon and sets after midnight.

Full Moon



The Full Moon, doubly round, rises about sunset, is seen all night, and sets about sunrise. It is said to be at "opposition" from the sun.

Waning, Gibbous

The Waning, Gibbous moon is between Full and Last Quarter, with a "bulge" on the right side. It rises in the early evening and sets after sunrise the next day.

Last Quarter



The Last Quarter moon's left half is illuminated; it rises about midnight and sets about noon the next day.

Waning, Crescent

The Waning Crescent moon rises in the early morning hours and is seen as a sliver preceding the sun in the dawn sky.

Waxing Moon (the Light of the Moon)

This is the half of the moon's monthly cycle where its orb grows larger, and it is seen in the early evenings. It runs from the New moon until the Full.

Waning Moon (the Dark of the Moon)

This is the half of the moon's monthly cycle where its orb grows smaller, and it is seen in the late evenings and early mornings. This is also called the dark of the moon, or the old moon. It runs from the Full to the New moon.



Full Moon Name Traditions

*Then is made full the circle of her light,
And as she grows, her beams more bright and bright
Are poured from Heaven, where she is hovering then,
A wonder and a sign to mortal men.*

- Homer's "Hymn to the Moon," trans. by Shelley.



Since antiquity, full moon have had names reflecting the time of year of the full moon. The Moon Add-In displays the name when the moon is full, randomly selected from the list for that month. You may choose which tradition is used.



Native American Full Moon Names

January	Wolf Moon, Old Moon, Winter Moon, Yule Moon.
February	Snow Moon, Hunger Moon, Trapper's Moon.
March	Worm Moon, Crow Moon, Crust Moon, Sap Moon.
April	Pink Moon, Sprouting Grass Moon, Fish Moon, Egg Moon, Planter's Moon.
May	Flower Moon, Corn Plant Moon, Milk Moon.
June	Strawberry Moon, Rose Moon, Honey Moon, Hot Moon.
July	Buck Moon, Thunder Moon, Summer Moon, Hay Moon.
August	Sturgeon Moon, Red Moon, Green Corn Moon, Dog Days Moon, Wood Cutter's Moon.
September	Harvest Moon, Fruit Moon, Dying Grass Moon.
October	Hunter's Moon.
November	Beaver Moon, Frosty Moon.
December	Cold Moon, Long Nights Moon.



Old, English Full Moon Names

January	Wolf Moon.
February	Storm Moon.
March	Chaste Moon.
April	Seed Moon.
May	Hare Moon.
June	Dyad Moon.
July	Mead Moon.
August	Wort Moon.
September	Barley Moon.
October	Blood Moon, Wine Moon.
November	Snow Moon.
December	Oak Moon.

Editing the Moon.ini File

The Moon's Age

*... .. her monthly round
Still ending, still renewing, through mid-heaven,
With borrow'd light her countenance triform
Hence fills and empties to enlighten th' earth,
And in her pale dominion checks the night.*

- Milton, Paradise Lost, Bk. iii.



This is the number of days since the last new moon. The New Moon is 0 days old, the First Quarter about 7 days, the Full about 14 or 15 days old, Last Quarter about 21 days, and the last day of the lunar month is about 29 days.

The Moon's Rising, Southing, & Setting

*Doth the moon shine that night we play our play?
A calendar, a calendar! Look in the almanac;
find out moonshine, find out moonshine.*

- Shakespeare (Midsummer Night's Dream, III, i).



The Moon Add-In shows when the moon rises (moonrise), when it souths, and when it sets (moonset).

The buttons are displayed in ascending time order, so if the moon souths first that day, the first button will have, e.g. **Souths: 4:12 mo.**, the second button will have the time of moonset, and the third the time of moonrise. It all depends on the order of the events for that day. Note that some days an event is missing, if the moon rose the previous day, it *may* just south and set today. In this case **Rises: No Rise Today** is displayed.

Morning and Evening

mo. stands for "morning," and is the old-fashioned almanack way of saying AM. The equivalent to PM is **ev.** for "evening."

The Moon's Zodiacal Constellation and Astrological Signe



*Silence was pleased : now glowed the firmament
With living sapphires; Hesperus, that led
The starry host, rode brightest till the Moon,
Rising in clouded majesty, at length
Apparent queen, unveiled her peerless light,
And o'er the dark her silver mantle threw.*

-from Milton's "Evening."



The moon is always somewhere in the **Zodiac**, but due to precession of the equinoxes authorities differ on which signe its in. The **tropical** method, used by astrologers, uses the familiar twelve signes, the first being Aries. When the moon is in the signe of Aries, it is in the place where the stars of Aries were during Ptolemy's time, 2000 years ago. The actual constellation of Aries has shifted in the last 2000 years and is one full signe off from the tropical signe.

The **sidereal** method, used by astronomers, and some astrologers, refers to the actual constellation that the moon is in, as seen in the sky. So when we say the moon is in the constellation of Aries, it is actually visible in the stars of Aries.

The Moon Add-In uses the term **signe** to refer to the tropical signe, and **constellation** to refer to the sidereal sign/constellation. Both are displayed by the Add-In.



Runs High, Rides Low, and the Moon's Nodes

*The time of pleasant evenings, when the moon,
Riseth companioned by a single star,
And rivals e'en the brilliant summer noon
In the clear radiance which she pours afar.*

- The Lady's Almanack for 1852, London.



Runs High, Rides Low and On Equator refer to how high the moon is in the sky that day. The moon is always highest *for that day*, when it souths, but its height above the southern horizon at southing varies during the month. Its at its highest above the horizon when it souths on a **Runs High** day. Its at its lowest on a **Rides Low** day, which occurs about two weeks later. **On Equator** (on the celestial equator, to be precise) is about halfway between these extremes and occurs twice during the month. This is caused by the interaction of the moon's phases and the seasons. The mid-summer full moon is always low in the sky, whereas the mid-winter full moon is nearly overhead (for the Northern hemisphere).



The position of the moon's ascending node is given in degrees if there is no Runs High/Rides Low/On Equator information for that day.



Editing Moon.ini

*The silver Moon o'er briny seas presides,
And heaves huge ocean with alternate tides.*

- Lucan's "Pharsalia" (Rowe's trans.)



In order to produce correct times and dates, the Moon Add-In needs to know your latitude, longitude, and time zone. There are also other customizing settings that can be changed in Moon.ini. To edit the INI file, go to the Clysbar [Configurator](#) and double-click on the Moon Add-In entry. This will allow you to edit the Moon.ini file. Select each topic below to configure Moon:



[Configuring your Locale](#)
[Setting Summer Time/Daylight Savings Time](#)
[Setting the Cancer Term](#)
[Setting the Full Moon Name Tradition](#)
[Setting Moon's Icon Type](#)

Note: Do *not* edit **VisMode**, it is maintained by Moon to "remember" the last information you were displaying.

[Example Moon.ini File](#)

Example Moon.ini for Albany, NY, USA:

```
[Location]
Latitude=42 39 0
Longitude=73 45 0
```

```
[Time]
Zone=-5
UseDaylightSavings=Yes
```

```
[Style]
CancerTerm=Crabba
FullMoonNames=Old English
IconType=Literal
VisMode=miPhaseNm
```



Configuring your Locale

In order to produce correct times and dates, the Moon Add-In needs to know your latitude, longitude, and time zone. ***Latitude*** and ***Longitude*** are both entered as degrees minutes seconds, with a space separating each (DD MM SS). You will need to look up your location in an atlas or almanack. West longitude is *positive*, East longitude is *negative*, thus 45 degrees 15 minutes 0 seconds East longitude would be written as -45 15 0.

The ***Zone*** is your time zone - which is the number of hours *West* of Greenwich Mean Time your time zone is located. Locales *East* of Greenwich use negative numbers to express their zone.

[Time Zones of the World](#)
[Example Moon.ini File](#)



Hours

West of

GMT	Time Zone	Example Locations
0:00	Greenwich Mean Time (GMT)	Dublin, Edinburgh, London, Casablanca, Monrovia, Iceland

Atlantic Ocean

-1:00	Azores Time	Azores, Cape Verde Islands
-2:00	Mid-Atlantic Time	Mid-Atlantic, Greenland Sea

North and South America

-3:00	South American Eastern Time	Argentina, Eastern Brazil, Buenos Aires, Rio de Janeiro
-3:30	Newfoundland Time	Newfoundland
-4:00	Atlantic Time	
-4:00	South American Western Time	Caracas, La Paz
-5:00	Eastern Time	New York
-5:00	South American Pacific Time	Bogota, Lima
-6:00	Central Time	Chicago, Saskatchewan
-6:00	Mexico Time	Mexico City, Tegucigalpa
-7:00	Mountain Time	Denver
-8:00	Pacific Time	Los Angeles, Tijuana

Pacific Ocean

-9:00	Alaskan Time	Alaska
-10:00	Hawaiian Time	Hawaii, West Aleutians
-11:00	Samoa Time	Midway Island, Samoa, Bering Sea
-12:00	Dateline Time	Enewetak, Kwajalein, International Date Line
+12:00	Fiji Time	Fiji, Kamchatka, Marshall Is.
+12:00	New Zealand Time	Wellington, Auckland
+11:00	Central Pacific Time	Caroline Is., Magadan, Soloman Is., New Caledonia, E. Siberia

Australia and East Asia

+10:00	Sydney Time	Brisbane, Melbourne, Sydney
+10:00	Tasmania Time	Hobart
+10:00	West Pacific Time	Guam, Port Moresby, Vladivostok
+9:30	Central Australia Time	Adelaide, Darwin
+9:00	Tokyo Time	Japan, Korea, Central Siberia, Tokyo, Osaka, Seoul, Yakutsk
+8:00	Western Australia Time	Perth
+8:00	Taipei Time	Hong Kong, Singapore, Taipei
+8:00	China Time	Beijing, Chongqing, Urumqi
+7:00	Bangkok Time	Bangkok, Western Indonesia, Jakarta, Singapore

Asia and India

+6:00	Central Asia Time	Alma Ata, Dhaka, Omsk, Bhutan
+5:00	West Asia Time	Maldives, Islamabad, Karachi, Sverdlovsk, Tashkent
+5:30	India Time	Bombay, Calcutta, Madras, New Delhi, Columbo
+4:30	Afghanistan Time	Kabul

Near East, Eastern Europe and Africa

+4:00	Arabian Time	Abu Dhabi, Muscat, Tbilisi, Kazan, Volgograd, Urals, Mauritius
+3:30	Iran Time	Tehran
+3:00	Saudi Arabia Time	Baghdad, Kuwait, Nairobi, Riyadh, The Ukraine, Kenya
+2:00	Eastern Europe Time	Athens, Helsinki, Istanbul, Kiev, Moscow
+2:00	Israel Time	Israel

+2:00 Egypt Time Cairo
+2:00 South Africa Standard Time Harare, Pretoria

Europe
+1:00 Western Europe Time Berlin, Paris, Madrid, Stockholm, Rome



Setting Summer Time (Daylight Savings Time)

Set *UseDaylightSavings* to tell the Moon Add-In whether your locality uses Summer Time/Daylight Savings Time during the Summer. You do not need to reset this during the course of the year. Moon knows when Summer Time is in effect (the US dates are used for this - DST begins the first Sunday in April and ends the Last Sunday in October). This option can be set to No for those places that do not use Summer Time.

Example Moon.ini File



Setting the "Cancer Term"

The ***CancerTerm***, that is, the term used to display the constellation and signe of the Crab, can be one of the following:



- Cancer** *the original Latin term for the sign of the Crab.*
- Moonsign** *a modern term, based on the fact that the sign of the Crab is astrologically ruled by the moon.*
- Crabba** *the Saxon name for the sign of the Crab, circa the 10th century, CE.*

Example Moon.ini File



Setting the Full Moon Name Tradition

You may select the "tradition" of the full moon names: either **Indian** (Native American), or **Old English**.

[The Full Moon Name Traditions](#)

[Example Moon.ini File](#)

Setting Moon's Icon Type

IconType can be **Literal**, which gives realistic phase icons that look like the moon itself, or **Almanack1**, or **Almanack2** which yield old-fashioned almanack/calendar-style moon "faces."



Literal-Style Icons



Almanack1-Style Icons



Almanack2-Style Icons



[Example Moon.ini File](#)

MOONLIGHT EVENINGS.



Persons who desire to ascertain when the Moon will shine well, for the purposes of EVENING EXCURSION PARTIES, PIC-NICS, &c., may consider the evenings favorable for those purposes for *three days before Full Moon*, and for *four days after Full Moon*. The Moon's rising *after* the *full* will occur after sunset, and about 50 minutes *later* each evening. The time of rising will be easily seen in the pages of the Almanack. The *best* time, is at the time of *Full Moon*.

- *Farmer's Almanac for 1871.*



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Southing

A heavenly body *souths* when it crosses above the South point of the viewer's horizon, halfway between the body's rising and setting. This is also the point at which the body is at its *highest point* above the horizon for that day.

Southing is also called **transiting**, **culminating**, or being **on the meridian** or **in meridian** (the meridian being the imaginary line which runs from the South point on the viewer's horizon, overhead, & to the North point on the horizon).

Constellation

XXXXX

Signe

XXXXXXXXXXXXXXXXXX



The Zodiac

also known as the Beastiary, Our Ladye's Waye, the Girdle of the Sky, Zodiacus, the Monthly Abodes of Apollo, Orbis Signiferus, Circulus Signifier, Signiportant, Orbita Solis, Balteus Stellatus, and Sigillarius.



SPRING SIGNES.

1. **Aries**, or Ram.
2. **Taurus**, or Bull.
3. **Gemini**, or Twins.

SUMMER SIGNES.

4. **Crabba**, or Crab-fish.
5. **Leo**, or Lion.
6. **Virgo**, or Virgin.

AUTUMN SIGNES.

7. **Libra**, or Balance.
8. **Scorpius**, or Scorpion.
9. **Sagittarius**, or Bowman.

WINTER SIGNES.

10. **Capricornus**, or Goat.
11. **Aquarius**, or Waterman.
12. **Pisces**, or Fishes.

The first six are **Northern Signes**, the second six are **Southern Signes**.



*Also displayed by Moon in the sidereal Zodiac is the constellation of **Ophiuchus**, the Serpent-Holder, which falls between Scorpius and Sagittarius.*

