Luna — Table of Contents.

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.)

Expand All

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Luna & Lunabar,

the clySmic Lunar Almanacks.

Introduction.

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 Luna, the clySmic Lunar Almanack. Luna displays the moon's phase; its rising, <u>southing,</u> and setting; its <u>constellation and signe</u>; and also moonlore and other information.

Luna requires Windows 3.1 or later. Lunabar requires Windows 95.

<u>Limitations</u>

Limitations.

- Luna cannot currently use fractional time zones (e.g. -3:30)

- The select font menu and button are not active in the current version

- Luna has been tested for various locations in the US. It may not provide accurate results for time zones outside the US, or at latitudes near the poles. Feedback for given locations is encouraged, please send mail or e-mail to clySmic if your location causes problems — please include the contents of your LUNA.INI file so we can see where you are!

Installation & Included Files.

To install Luna, simply run INSTALL.EXE from Windows and pick the directory you wish to use for Luna (the default is C:\LUNA). The install program will copy files to that directory, and will copy CTL3DV2.DLL to your System Directory *only* if it's not already there. It will also optionally add a Luna group to Program Manager. When the install finishes, run LUNA.EXE.

Be sure to select **Options | Configure...** to set your locale and preferences.

You can access this help system from the menu, the toolbar, or by pressing the F1 key.

Configuring Luna.
Included Files.

Windows' System Directory is usually (but by no means always) C:\WINDOWS\SYSTEM

Included Files.

LUNABAR.EXE	the Windows 95 Lunar Taskbar Almanack
LUNA.EXE	The full Lunar Almanack
LUNA.DAT	Moon poems and moonlore data file
LUNA.HLP	This help file
README.WRI	The "readme" file
CTL3DV2.DLL	Microsoft 3-D GUI library
PRINTALL.DLL	Print-all-help-topics library
INSTALL.EXE	the installer
UNINST.EXE	the uninstaller
UNINST2.EXE	another part of the installer (don't run directly)

Luna's Menu & Toolbar.

Date Menu.

Previous Day moves back one day and redisplays the moon's data. Shortcut key is **PgUp**.

Today displays the moon's data for today (the system date). Shortcut key is **Home**.

Next Day moves forward one day and redisplays the moon's data. Shortcut key is **PgDn**.

Select Date... opens the calendar-style date selection dialog, allowing the user to show the moon's date for any date.

Exit exits the program. Shortcut key is **End**.

Options Menu.

Show Another Moon Poem or Lore selects a new piece of ancient moonlore or a moon poem.

Show Compass Directions when checked, this shows the compass direction of the moon's rising and setting, and the height of the moon over the southern horizon at southing.

Show Moonlore Only when checked, moon poems are excluded, and only moonlore is shown.

Change Background cycles through several background color schemes.

Return Window to Default Size resets the window size to the default, factory size. Shortcut is to double-click in the window.

Configure... opens the configuration dialog (see Configuring Luna).

 Help Menu.

Contents opens this help system. Shortcut key is **F1**.

clySmic Software Catalog clySmic's hypertext WinHelp catalog

How to Use Help a tutorial on how to use Windows' help

About Luna... Luna's about box, including version information

Right-Clicking on Luna's Window

You can click with the right mouse button (the left button for most left-handers) on any part of Luna's window to find out something about that part. If you click on the moon's phase, for instance, you'll get moon phase help.
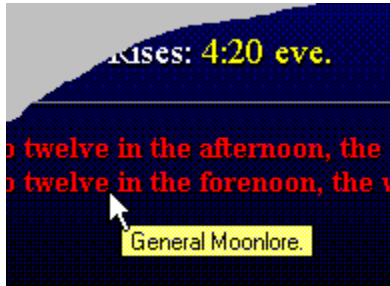
If you click on the poem/moonlore area, a small window pops up to describe the kind of moon poem or moonlore you are viewing.

The Phases of the Moon.

Click on a hotspot 🖑 for more information about that phase.
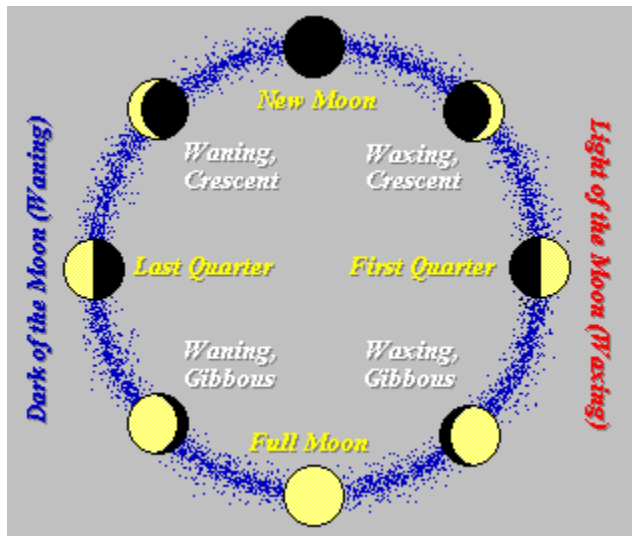
New Moon.

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 <u>Waxing Crescent</u> 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.

Since antiquity, full moons have had names reflecting the time of year of that particular full moon. Luna displays this name at the time of the full moon, randomly selected from the list for that month (see below). 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.

Mediaeval 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.

The Age of the Moon.

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 22 days, and the last day of the lunar month is about 29 days.

The Moon's Rising, Southing, & Setting.

Luna shows when the moon rises, when it <u>souths</u>, and when it sets.

The events are displayed in ascending time order, so if the moon souths first that day, the first button will have, e.g. **Souths: 4:12 morn.**, the second button will have the time of moonset (**Sets: 9:45 morn.**), and the third the time of moonrise (**Rises: 10:11 eve.**). 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.

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

The Moon's Zodiacal Constellation and Astrological Signe.

The moon is always somewhere in the Zodiac, but due to precession of the equinoxes, authorities differ on where. The **tropical zodiac**, 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, nearly 2000 years ago. The actual constellation of Aries has shifted in the last 2 millennia and is one full signe off from the tropical signe.

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

Luna uses the term **signe** to refer to the tropical signe, and **constellation** to refer to the sidereal constellation. Both positions are displayed by Luna. Luna also displays the moon's current location within a constellation or signe in degrees.

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. It's at its highest above the horizon when it souths on a **Runs High** day. It's 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 signes/degrees if there is no **Runs High / Rides Low / On Equator** information for that day.

Setting your Locale.

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

– Lucan's "Pharsalia" (Rowe's trans.)

Select **Options | Configure...** or click on the configure button to open the configuration dialog.

In order to produce correct times and dates, Luna 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 entered as -45 15 0. When you tab out of the field, Luna adds the appropriate degree, minute and second marks (e.g. -45° 15' 0").

Next select your Time Zone from the worldwide list presented. For more on time zones, see below.

Time Zones of the World

Setting Summer Time (Daylight Savings Time).

Select **Options | Configure...** or click on the configure button to open the configuration dialog.

Check or uncheck this field to tell Luna whether your locality uses Summer Time (aka Daylight Savings Time) during the Summer months.

You do **not** need to change this setting during the course of the year. Luna knows when Summer Time is in effect (the United States dates are used for this: Daylight Savings Time begins the first Sunday in April and ends the Last Sunday in October).

Setting the Term for the Sign of the Crab.

Select **Options | Configure...** or click on the configure button to open the configuration dialog.

Select the term you wish to use for the constellation and signe of the Crab. It 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.*

Setting the Full Moon Name Tradition.

Select ***Options | Configure...*** or click on the configure button to open the configuration dialog.

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

Full Moon Name Traditions

Setting Luna's Minimized Icon Type.

Select **Options | Configure...** or click on the configure button to open the configuration dialog.

Luna's Icon Type can be **Modern**, which gives realistic phase icons that look like the moon itself, **Almanack**, or **Old Almanack** which yield old-fashioned almanack/calendar-style moon "faces."

Modern.

Almanack.

Old Almanack.

M O O N L I G H T   E V E N I N G S.

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.

Lunar Taskbar Almanack for Windows 95 (Lunabar)

 4:08 eve.

 Installing Lunabar creates a Lunar Taskbar Almanack folder in your Programs folder. You also have the option of running Lunabar on startup.

 Running Lunabar places a moon icon into your Taskbar. The icon is the current phase of the moon. Move the cursor over the icon to see a ToolTip window giving the phase and age of the moon. This is updated hourly. On exact phase dates (full, first quarter, &c.) the time of the phase is given.

 Right-click on the Taskbar icon to bring up a menu. You can run the full Lunar Almanack, view this help, see the About box, surf to clySmic's Web Page (only if you can access the Internet and have a web browser!) or Exit Lunabar.

 Double-click on the Taskbar icon to open the full clySmic Lunar Almanack.

 To get correct results, you **must** start Luna (the full Lunar Almanack) and enter your time zone, latitude and longitude in the configuration dialog.

 The first time you select the **clySmic Web Page** menu choice, you will be prompted to enter the name of your Internet Web broswer. Click the browse button to select your browser. Next time you select this menu choice, your browser will be automatically started. If you ever want to change this setting, hold down the shift key as you make the menu choice. You will then open the selection dialog with your current browser highlighted.

 Lunabar can be uninstalled from the Windows 95 Control Panel. Select the Add/Remove Programs icon. You can also run the Uninst program in Lunabar's directory.

Information about the Moon
Registering Lunabar
Help for the full Lunar Almanack (Luna)

clySmic Software
P. O. Box 2421
Empire State Plaza
Albany, NY 12220

e-mail: 76156.164@compuserve.com

clySmic Software is a member of the
Association of Shareware Professionals
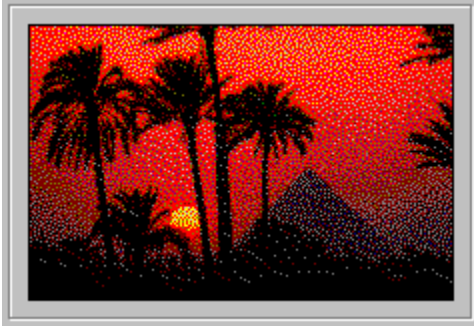
clySmic World Headquarters.

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).

Constellations.

A constellation is a group of stars, as seen in the sky in the twentieth century. Some of the constellations are in the path of the sun, moon, and planets. This path and the constellations in it make up the (sidereal) Zodiac.

So when we say the moon is in the constellation of Aries, it is actually visible in the stars of Aries. Constellations, unlike signes, have varying widths.

Signes.

The familiar twelve signes of the Zodiac are used by astrologers, the first signe being Aries. When the moon is in the signe of Aries, it is in the place where the stars of Aries *were* during <u>Ptolemy's</u> time, nearly 2000 years ago. The actual constellation of Aries has shifted in the last 2 millennia   and is about one full signe off from the tropical signe.

So when the moon is in the signe of Aries, it's actually in the <u>constellation</u> of Pisces, as seen in the twentieth century sky. All signes are 30° wide (30° x 12 = 360°).

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.	AUTUMN SIGNES.
1. **Aries**, or Ram.	7. **Libra**, or Balance.
2. **Taurus**, or Bull.	8. **Scorpius**, or Scorpion.
3. **Gemini**, or Twins.	9. **Sagittarius**, or Bowman.

SUMMER SIGNES.	WINTER SIGNES.
4. **Crabba**, or Crab-fish.	10. **Capricornus**, or Goat.
5. **Leo**, or Lion.	11. **Aquarius**, or Waterman.
6. **Virgo**, or Virgin.	12. **Pisces**, or Fishes.

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

*Also displayed by Luna (in the sidereal zodiac) is the constellation of **Ophiuchus,** the Serpent-Holder, which falls between Scorpius and Sagittarius.*

C.E. stands for **Common Era**. This is a non-religious way of rendering the more common A.D. (Anno Domini).

Ptolemy.

Claudius Ptolemaeus, fl. 127-151 <u>C.E.</u> Greek mathematician, astronomer, and geographer. Author of several influential ancient texts on astrology.

Signes/degrees.

Signes/degrees is a notation used by old almanacks to represent large degree amounts. Each signe is 30° wide, so a value of **216°** (for example) can be represented as **7 signes, 6°** since (7 x 30°) + 6° = 216°.

What is Shareware?

Shareware distribution gives users a chance to try software before buying it. If you try a Shareware program and continue using it, you are expected to register. Individual programs differ on details -- some request registration while others require it, some specify a maximum trial period. With registration, you get anything from the simple right to continue using the software to an updated program with printed manual.

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Shareware is a distribution method, not a type of software. You should find software that suits your needs and pocketbook, whether it's commercial or Shareware. The Shareware system makes fitting your needs easier, because you can try before you buy. And because the overhead is low, prices are low also. Shareware has the ultimate money-back guarantee -- if you don't use the product, you don't pay for it.

Legal Disclaimer and Agreement.

Users of Luna must accept this disclaimer of warranty:

> *"Luna is supplied AS IS. The author disclaims all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. clySmic Software assumes no liability for damages, direct or consequential, including hardware damage or information loss, which may result from the use of Luna."*

Luna is a *Shareware program* and is provided at no charge to the user for evaluation. Feel free to share it with your friends, but please do not give it away altered or as part of another system. The essence of "user-supported" software is to provide personal computer users with quality software without high prices, and yet to provide incentive for programmers to continue to develop new products. If you find this program useful and find that you are using Luna and continue to use Luna after a reasonable trial period, you must make a registration payment of $9.95 to clySmic Software. The registration fee will license one copy for use on any one computer at any one time. You must treat this software just like a book. An example is that this software may be used by any number of people and may be freely moved from one computer location to another, so long as there is no possibility of it being used at one location while it's being used at another, just as a book cannot be read by two different persons at the same time.

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Anyone distributing Luna for any kind of remuneration must first contact clySmic Software at the listed addresses for authorization. This authorization will be automatically granted to distributors recognized by the Association of Shareware Professionals (ASP) as adhering to its guidelines for Shareware distributors, and such distributors may begin offering Luna immediately (however clySmic Software must still be advised so that the distributor can be kept up-to-date with the latest version of Luna.).

You are encouraged to pass a copy of Luna along to your friends for evaluation. Please encourage them to register their copy if they find that they can use it. Please be certain that all files are kept together.

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ASP Ombudsman
545 Grover Road
Muskegon, MI 49442

or send e-mail to the ASP Ombudsman at Internet address:

70007.3536@compuserve.com

About clySmic Software

General Registration Information.

Lunabar is copyright 1992-1995 by clySmic Software (say "Cliz-Mik"). All rights reserved.

Lunabar is released as **_Shareware_**. After a thirty day trial period, you must register or discontinue using it.

Legal Disclaimer and Agreement

To order either:

   Send $9.95 in cash, check or money order to clySmic Software at the address listed in the **_Order Form_**.

   Register via the **_CompuServe_** on-line service. Please note that no diskettes will be shipped for CompuServe orders.

Registering Lunabar via CompuServe.

Lunabar can be registered via the ***CompuServe*** on-line service. Sign on to CompuServe and type go swreg for more details. Look for the program title **CLYSMIC LUNAR ALMANACK** or the registration ID **4090**. The cost ($9.95) will be charged to your CompuServe account.

TM

ClYSmiC

S o f t w a r e

Lunabar Order Form.

Please Print Clearly.

Version:___1.00____   **Date: _____**

Name: **_____**

Address: **_____**

                   _____

City: **_____**   **State: _____**

Country: **_____**   **Zip or Postal**
                                                      Code: _____

Internet e-mail: _____

Quantity: _____   **x $9.95 each = Subtotal:**   **$_____**

New York Sales Tax (New York residents only):   **$_____**

Total Payment: **$_____**

Where did you find Lunabar?   _____

Make Checks or Money Orders Payable - in U.S. Dollars drawn on a U.S. bank - to Ralph B Smith Jr.
All Checks Made Out to clySmic Software will be returned!   Please do not send Eurocheques, they are not
negotiable in the U.S.

Mail to: **clySmic Software**
                   P. O. Box 2421
                   Empire State Plaza
                   Albany, NY 12220

Send a check, cashier's check, money order or use the CompuServe registration service. Please allow 2-3
weeks for processing non-CompuServe orders.

Finding the Latest Version of Lunabar.

Shareware spreads to, and is available from, many places. However, we upload the latest version of Lunabar to several sites, it should always be available there. Remember, registered users can download the new version and use it right away - their User IDs will work for new versions. Look for a filename of the form LUNABAR.ZIP.

CompuServe: in the Windows Shareware Forum (go winshare and search the data libraries).

The Internet

clySmic's Home Page on the **World-Wide Web:** http://www.albany.net/~rsmith/clysmic.html

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	U.S. Eastern Time	New York
-5:00	South American Pacific Time	Bogota, Lima
-6:00	U.S. Central Time	Chicago, Saskatchewan
-6:00	Mexico Time	Mexico City, Tegucigalpa
-7:00	U.S. Mountain Time	Denver
-8:00	U.S. 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, 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
+1:00	Western Europe Time	Berlin, Paris, Madrid, Stockholm, Rome