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REPÚBLICA ORIENTAL DEL URUGUAY
ARMADA NACIONAL



PUBLICADO POR EL
SERVICIO DE OCEANOGRAFÍA, HIDROGRAFÍA Y
METEOROLOGÍA DE LA ARMADA

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FOTO PORTADA: Vista de Restos de Escollera desde la Costa de La Coronilla.
(Campaña Hidrográfica - La Coronilla, Setiembre de 2005)
Tomada por: A/N(CG) N. Silvera

PROLOGO

El Servicio de Oceanografía, Hidrografía y Meteorología (SOHMA) es un componente de la ARMADA NACIONAL, cuyo principal cometido es el de colaborar a que la navegación en el ámbito marítimo, fluvial y lacustre de jurisdicción e interés de la República Oriental del Uruguay, sea realizada en forma segura.

En procura de ello publica, actualiza y difunde documentación e información náutica, siendo una de estas publicaciones, la presente edición del «Almanaque» 2009.

Desde el año 1934 a través de esta publicación, en forma anual e ininterrumpida se viene brindando información en materia astronómica y náutica.

La primera edición se llamó «Horas Legales», más adelante su título fue «Almanaque de Sol y Luna», y hoy se titula «Almanaque».

En 2003 se ha adoptado el formato digital, adecuándose las nuevas herramientas disponibles y los cambios tecnológicos que día a día presenciamos.

Este nuevo formato, ha tenido un notorio impacto en el aprovechamiento de la información por parte del usuario, agilizando a su vez los canales de distribución y siendo éste impuesto definitivamente.

La Armada Nacional, y en especial el SOHMA, espera que el presente contribuya como un eslabón mas, a la importante cadena de publicaciones que brindan información de Interés para el Navegante, como a todos los otros sectores de la sociedad, a los que su contenido les es de utilidad.

Capitán de Navío (CG)



Orestes PEREYRA

Jefe del Servicio de Oceanografía,
Hidrografía y Meteorología de la Armada

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CAPITULO 1 SALIDAS Y PUESTAS DE SOL Y LUNA, FASES LUNARES

1.1 INFORMACION GENERAL

Los datos tabulados están expresados para el huso horario (+ 3) y expresados en grupos de cuatro cifras donde las dos primeras corresponden a la hora y las dos últimas a los minutos.

Hasta el 7 de Marzo de 2009, Decreto N° 311/006 (ver 6.3) la «hora oficial» corresponde al huso + 2, «hora oficial de Verano».

Durante los períodos en que la hora oficial uruguaya sea modificada, se deberán corregir en igual medida los horarios de esta publicación, sumando cuando se trate de un adelanto o restando cuando la hora es atrasada.

Los cálculos fueron efectuados para una Latitud de 35° 00' Sur y una Longitud de 56° 15' Oeste para la ciudad de Montevideo, y una latitud de 62° 11' Sur y longitud 58° 54' Oeste para la Base Científica Antártica Artigas, considerándose en ambos casos una elevación de observador cero.

El Capítulo 3 explica como corregir los valores tabulados para Montevideo, para ser aplicados a otros puntos del territorio nacional.

1.2 SOL

1.2.1 CREPUSCULO

Se denomina crepúsculo al tiempo en que el centro del Sol se encuentra ubicado entre los 18° y los 50' de depresión, lo cual se produce dos veces al día, antes de la salida del Sol y luego de su puesta.

CREPUSCULO ASTRONOMICO

Comienza o finaliza cuando el centro del Sol se encuentra 18° bajo el horizonte.

En ese momento es noche "cerrada" y son visible a simple vista las estrellas de sexta magnitud.

CREPUSCULO NAUTICO

Comienza o finaliza cuando el centro del Sol se encuentra 12° por debajo del horizonte.

En ese instante comienza a discernirse (de mañana) o a desaparecer (de tarde) el horizonte del mar.

CREPUSCULO CIVIL

Comienza o finaliza cuando el centro del Sol se encuentra 6° por debajo del horizonte.

En ese instante, empiezan a desaparecer (de mañana) o a hacerse visibles (por la tarde) las estrellas de primera magnitud.

Los objetos pueden distinguirse fácilmente y el horizonte del mar es claramente visible.

Cuando el Sol se encuentra por debajo de esta posición, las actividades de carácter civil son difíciles o impracticables sin el uso de iluminación artificial.

| Crepúsculo | Depresión | Distancia cenital Geocéntrica verdadera |
|-------------|-----------|---|
| ASTRONOMICO | 50' a 18° | 108° |
| NAUTICO | 50' a 12° | 102° |
| CIVIL | 50' a 06° | 96° |

1.2.2 SALIDAS Y PUESTAS

Estas son aparentes, y han sido calculadas para un semidiámetro de Sol de 16' y para una refracción de 34' despreciando la paralaje. Es decir que las Horas tabuladas corresponden a una distancia cenital geocéntrica verdadera de 90° 50'.

En ese instante, para un observador con altura del ojo igual a cero, son tangentes el horizonte y el limbo superior del Sol.

En latitudes extremas (tanto al Norte como al Sur) y para ciertas fechas de verano, el sol no llega a descender lo suficiente bajo el horizonte como para alcanzar los valores de depresión de los crepúsculos (6°, 12° y 18° respectivamente), tras lo cual vuelve a ascender. Este fenómeno se denomina crepúsculo continuo y se representa con este símbolo /////.

También puede suceder que el momento de finalización del crepúsculo se demore lo suficiente para ocurrir pasada la medianoche, lo cual significa que se produce al día siguiente. Este horario se indica entre paréntesis en el tabulado.

1.3 LUNA

SALIDAS Y PUESTAS

Estas han sido calculadas para una refracción de 34', la distancia cenital geocéntrica verdadera del centro del disco de la Luna es de:

$$(90^\circ 34' + \text{semidiámetro} - \text{paralaje horizontal})$$

Debido al retardo que experimenta la Luna en su movimiento aparente, en las cercanías del Cuarto Menguante hay un día en que **no hay salida**, y en las proximidades del Cuarto Creciente hay un día que **no hay puesta** (ver 1.6).

En el primer caso, la Luna ya ha salido antes de la hora cero de ese día, más tarde se pone, pero la siguiente salida no se produce sino hasta el siguiente día.

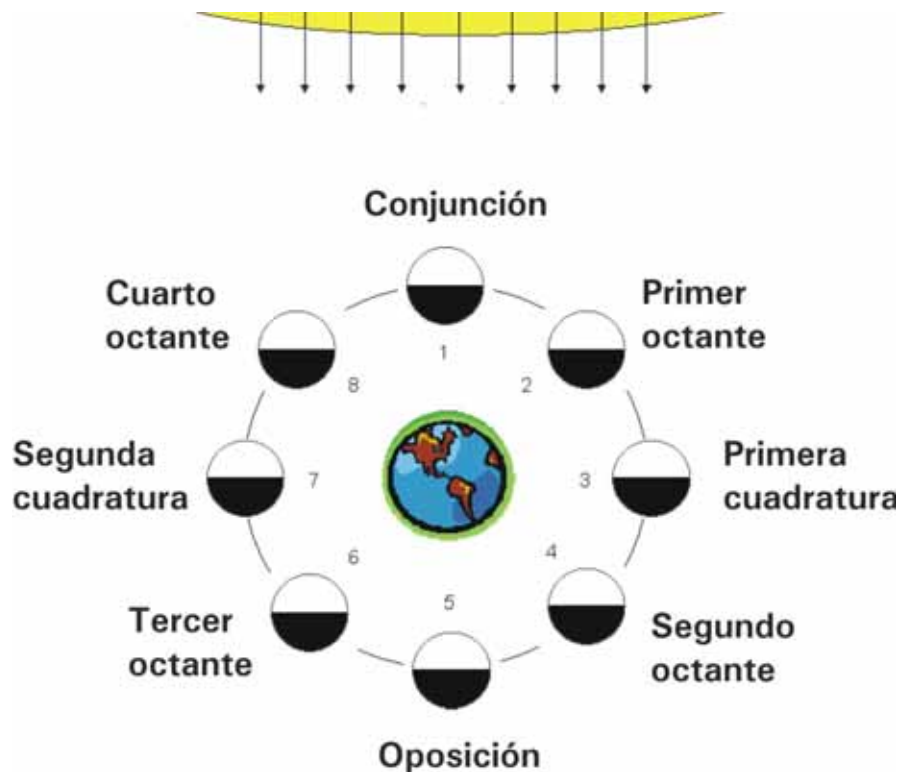
Ejemplo: La Luna saldrá en Montevideo, a las 23:32 horas del día 29 de Enero de 2008, el día 30 (sin haber salido), se pone a las 13:57 horas, saliendo recién el día 31 a las 00:04 horas.

En el segundo caso, la Luna sale pero su puesta se produce más allá de la medianoche, o sea que se pone al siguiente día.








Ejemplo: La Luna saldrá en Montevideo, a las 13:03 horas del día 15 de Enero de 2008, en ese día no hay puesta, permaneciendo sobre el horizonte hasta las 00:02 horas del día 16 de Enero.

1.4 FASES LUNARES

La posición de la Luna respecto al Sol y la Tierra da lugar a las diferentes fases, siendo estas los diferentes aspectos visibles que toma la Luna para el observador desde la Tierra, según sea su parte iluminada por el Sol. Las fases son entonces producto de la variación de la distancia angular Luna-Sol y se repiten en forma cíclica.



Las posiciones corresponden al esquema superior:

| | | |
|----------------------|---|---|
| 1-CONJUNCIÓN | La Luna se encuentra alineada entre la Tierra y el Sol. Esta fase corresponde a la LUNA NUEVA O NOVILUNIO | |
| 2-PRIMER OCTANTE | La Luna forma 45 grados respecto al Sol. Desde la Tierra se ve un huso iluminado con forma de «C». |  |
| 3-PRIMERA CUADRATURA | La Luna se encuentra a 90 grados del Sol. Ocurre 7 días después del Novilunio. La mitad del disco lunar se ve iluminado. Esta fase se llama CUARTO CRECIENTE . |  |
| 4-SEGUNDO OCTANTE | La Luna forma 75 grados respecto al Sol. Se observa como una lente biconvexa desde la Tierra. |  |
| 5-OPOSICIÓN | La Luna se encuentra a 180 grados del Sol o en oposición. Se produce a los 14 días del novilunio y se observa completamente iluminada. Esta fase se llama LUNA LLENA o PLENILUNIO . |  |
| 6-TERCER OCTANTE | En este segundo semiperiodo, comienza a decrecer la parte iluminada de la Luna. |  |
| 7-SEGUNDA CUADRATURA | Se observa la mitad iluminada de la Luna que antes en el Cuarto Creciente estaba oscura. Esta fase es CUARTO MENGUANTE . |  |
| 8-CUARTO OCTANTE | Continúa disminuyendo la parte iluminada de la Luna. Ahora se ve como un huso iluminado en forma de «D». |  |

Nota: para un observador del hemisferio Norte las formas de las cuadraturas y octantes son invertidas a las que ve un observador del Sur.

1.5 POSICIONES NOTABLES DE LA TIERRA Y FASES DE LA LUNA PARA EL AÑO 2009

| LUNA NUEVA | | C. CRECIENTE | | LUNA LLENA | | C. MENGUANTE | |
|------------|-------|--------------|-------|------------|-------|--------------|-------|
| Fecha | Hora | Fecha | Hora | Fecha | Hora | Fecha | Hora |
| | | | | | | | |
| | | 4 ENE | 08:56 | 11 ENE | 00:27 | 17 ENE | 23:46 |
| 26 ENE | 04:55 | 2 FEB | 20:13 | 9 FEB | 11:49 | 16 FEB | 18:37 |
| 24 FEB | 22:35 | 4 MAR | 04:46 | 10 MAR | 23:38 | 18 MAR | 14:47 |
| 26 MAR | 13:06 | 2 ABR | 11:34 | 9 ABR | 11:56 | 17 ABR | 10:36 |
| 25 ABR | 00:23 | 1 MAY | 17:44 | 9 MAY | 01:01 | 17 MAY | 04:26 |
| 24 MAY | 09:11 | 31 MAY | 00:22 | 7 JUN | 15:12 | 15 JUN | 19:15 |
| 22 JUN | 16:35 | 29 JUN | 08:28 | 7 JUL | 06:21 | 15 JUL | 06:53 |
| 21 JUL | 23:35 | 28 JUL | 19:00 | 5 AGO | 21:55 | 13 AGO | 15:55 |
| 20 AGO | 07:02 | 27 AGO | 08:42 | 4 SET | 13:03 | 11 SET | 23:16 |
| 18 SET | 15:44 | 26 SET | 01:50 | 4 OCT | 03:10 | 11 OCT | 05:56 |
| 18 OCT | 02:33 | 25 OCT | 21:42 | 2 NOV | 16:14 | 9 NOV | 12:56 |
| 16 NOV | 16:14 | 24 NOV | 18:39 | 2 DIC | 04:30 | 8 DIC | 21:13 |
| 16 DIC | 09:02 | 24 DIC | 14:36 | 31 DIC | 16:13 | | |

| POSICIONES NOTABLES 2009 | | | |
|--------------------------|-----------|-----------------|-------|
| EQUINOCCIOS | Otoño | 20 de Marzo | 08:44 |
| | Primavera | 22 de Setiembre | 18:19 |
| SOLSTICIOS | Invierno | 21 de Junio | 02:46 |
| | Verano | 21 de Diciembre | 14:47 |
| PERIGEIO (Perihelio) | | 04 de Enero | 12:00 |
| | | | |
| APOGEO (Afelio) | | 03 de Julio | 23:00 |
| | | | |

| FESTIVIDADES | | | | | |
|---------------------|--------|--------|--------|--------|--------|
| Año | 2009 | 2010 | 2011 | 2012 | 2013 |
| Domingo de CARNAVAL | 22 FEB | 14 FEB | 06 MAR | 19 FEB | 10 FEB |
| Domingo de PASCUA | 12 ABR | 04 ABR | 24 ABR | 08 ABR | 31 MAR |

Calculado para Huso Horario +3

1.6 TABLA DE SIMBOLOS DEL CALENDARIO DE CREPUSCULOS, SALIDAS Y PUESTAS DEL SOL Y LA LUNA PARA MONTEVIDEO Y ANTARTIDA





| SIMBOLO | DEFINICION |
|---------|--|
| >>>>> | Indica que No Hay Salida |
| <<<<< | Indica que No Hay Puesta |
| //// | Indica crepúsculo continuo |
| (:) | Los horarios entre paréntesis corresponden al día siguiente |
| ***** | No ocurre el evento porque la luna está continuamente bajo el horizonte |
| ----- | No ocurre el evento porque la luna está continuamente sobre el horizonte |

CAPITULO 2
CALENDARIO DE CREPUSCULOS, SALIDAS Y PUESTAS DE SOL, LUNA Y FASES
LUNARES - MONTEVIDEO

MONTEVIDEO





ENERO 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Jue 1 | 03:49 | 04:29 | 05:05 | 05:35 | 20:02 | 20:32 | 21:08 | 21:48 | 10:10 | 23:02 |
| Vie 2 | 03:50 | 04:30 | 05:06 | 05:36 | 20:03 | 20:32 | 21:08 | 21:48 | 11:09 | 23:27 |
| Sáb 3 | 03:51 | 04:31 | 05:07 | 05:36 | 20:03 | 20:32 | 21:08 | 21:48 | 12:10 | 23:54 |
| Dom 4 | 03:52 | 04:32 | 05:08 | 05:37 | 20:03 | 20:32 | 21:08 | 21:48 | 13:13 | <<<< |
| Lun 5 | 03:53 | 04:33 | 05:09 | 05:38 | 20:03 | 20:32 | 21:08 | 21:48 | 14:20 | 00:23 |
| Mar 6 | 03:54 | 04:33 | 05:10 | 05:39 | 20:03 | 20:32 | 21:08 | 21:48 | 15:30 | 00:57 |
| Mié 7 | 03:55 | 04:34 | 05:11 | 05:40 | 20:03 | 20:32 | 21:08 | 21:47 | 16:43 | 01:38 |
| Jue 8 | 03:56 | 04:36 | 05:11 | 05:41 | 20:03 | 20:32 | 21:08 | 21:47 | 17:55 | 02:29 |
| Vie 9 | 03:57 | 04:37 | 05:12 | 05:42 | 20:03 | 20:32 | 21:08 | 21:47 | 19:00 | 03:31 |
| Sáb 10 | 03:59 | 04:38 | 05:13 | 05:43 | 20:03 | 20:32 | 21:07 | 21:46 | 19:57 | 04:43 |
| Dom 11 | 04:00 | 04:39 | 05:14 | 05:43 | 20:02 | 20:31 | 21:07 | 21:46 | 20:43 | 05:59 |
| Lun 12 | 04:01 | 04:40 | 05:15 | 05:44 | 20:02 | 20:31 | 21:07 | 21:45 | 21:21 | 07:16 |
| Mar 13 | 04:02 | 04:41 | 05:16 | 05:45 | 20:02 | 20:31 | 21:06 | 21:45 | 21:54 | 08:29 |
| Mié 14 | 04:04 | 04:42 | 05:17 | 05:46 | 20:02 | 20:31 | 21:06 | 21:44 | 22:23 | 09:38 |
| Jue 15 | 04:05 | 04:43 | 05:18 | 05:47 | 20:01 | 20:30 | 21:05 | 21:44 | 22:50 | 10:44 |
| Vie 16 | 04:06 | 04:44 | 05:20 | 05:48 | 20:01 | 20:30 | 21:05 | 21:43 | 23:18 | 11:47 |
| Sáb 17 | 04:07 | 04:46 | 05:21 | 05:49 | 20:01 | 20:29 | 21:04 | 21:42 | 23:47 | 12:49 |
| Dom 18 | 04:09 | 04:47 | 05:22 | 05:50 | 20:00 | 20:29 | 21:04 | 21:41 | >>>> | 13:50 |
| Lun 19 | 04:10 | 04:48 | 05:23 | 05:51 | 20:00 | 20:28 | 21:03 | 21:41 | 00:18 | 14:51 |
| Mar 20 | 04:12 | 04:49 | 05:24 | 05:52 | 20:00 | 20:28 | 21:03 | 21:40 | 00:53 | 15:49 |
| Mié 21 | 04:13 | 04:50 | 05:25 | 05:53 | 19:59 | 20:27 | 21:02 | 21:39 | 01:34 | 16:46 |
| Jue 22 | 04:14 | 04:52 | 05:26 | 05:54 | 19:59 | 20:27 | 21:01 | 21:38 | 02:20 | 17:38 |
| Vie 23 | 04:16 | 04:53 | 05:27 | 05:55 | 19:58 | 20:26 | 21:00 | 21:37 | 03:12 | 18:24 |
| Sáb 24 | 04:17 | 04:54 | 05:28 | 05:56 | 19:57 | 20:26 | 21:00 | 21:36 | 04:07 | 19:05 |
| Dom 25 | 04:19 | 04:55 | 05:29 | 05:57 | 19:57 | 20:25 | 20:59 | 21:35 | 05:06 | 19:41 |
| Lun 26 | 04:20 | 04:56 | 05:30 | 05:58 | 19:56 | 20:24 | 20:58 | 21:34 | 06:06 | 20:12 |
| Mar 27 | 04:21 | 04:58 | 05:32 | 06:00 | 19:56 | 20:23 | 20:57 | 21:33 | 07:05 | 20:40 |
| Mié 28 | 04:23 | 04:59 | 05:33 | 06:01 | 19:55 | 20:23 | 20:56 | 21:32 | 08:05 | 21:06 |
| Jue 29 | 04:24 | 05:00 | 05:34 | 06:02 | 19:54 | 20:22 | 20:56 | 21:31 | 09:04 | 21:32 |
| Vie 30 | 04:26 | 05:01 | 05:35 | 06:03 | 19:54 | 20:21 | 20:55 | 21:30 | 10:04 | 21:58 |
| Sáb 31 | 04:27 | 05:03 | 05:36 | 06:04 | 19:53 | 20:20 | 20:54 | 21:29 | 11:06 | 22:26 |

| DIA HORA |
|--|
| FASE |
| 4 08:56 |
|  CRECIENTE |
| 11 00:27 |
|  LLENA |
| 17 23:46 |
|  MENGUANTE |
| 26 04:55 |
|  NUEVA |





FEBRERO 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Dom 1 | 04:29 | 05:04 | 05:37 | 06:05 | 19:52 | 20:19 | 20:53 | 21:28 | 12:10 | 22:57 |
| Lun 2 | 04:30 | 05:05 | 05:38 | 06:06 | 19:51 | 20:19 | 20:52 | 21:27 | 13:17 | 23:34 |
| Mar 3 | 04:31 | 05:06 | 05:39 | 06:07 | 19:50 | 20:18 | 20:51 | 21:25 | 14:27 | <<<< |
| Mié 4 | 04:33 | 05:08 | 05:41 | 06:08 | 19:50 | 20:17 | 20:50 | 21:24 | 15:36 | 00:19 |
| Jue 5 | 04:34 | 05:09 | 05:42 | 06:09 | 19:49 | 20:16 | 20:49 | 21:23 | 16:42 | 01:14 |
| Vie 6 | 04:36 | 05:10 | 05:43 | 06:10 | 19:48 | 20:15 | 20:47 | 21:22 | 17:41 | 02:19 |
| Sáb 7 | 04:37 | 05:11 | 05:44 | 06:11 | 19:47 | 20:14 | 20:46 | 21:20 | 18:31 | 03:31 |
| Dom 8 | 04:38 | 05:12 | 05:45 | 06:12 | 19:46 | 20:13 | 20:45 | 21:19 | 19:13 | 04:47 |
| Lun 9 | 04:40 | 05:14 | 05:46 | 06:13 | 19:45 | 20:12 | 20:44 | 21:18 | 19:48 | 06:02 |
| Mar 10 | 04:41 | 05:15 | 05:47 | 06:14 | 19:44 | 20:11 | 20:43 | 21:17 | 20:19 | 07:13 |
| Mié 11 | 04:42 | 05:16 | 05:48 | 06:15 | 19:43 | 20:10 | 20:42 | 21:15 | 20:48 | 08:22 |
| Jue 12 | 04:44 | 05:17 | 05:49 | 06:16 | 19:42 | 20:09 | 20:40 | 21:14 | 21:17 | 09:28 |
| Vie 13 | 04:45 | 05:18 | 05:50 | 06:17 | 19:41 | 20:07 | 20:39 | 21:12 | 21:46 | 10:33 |
| Sáb 14 | 04:46 | 05:20 | 05:51 | 06:18 | 19:40 | 20:06 | 20:38 | 21:11 | 22:17 | 11:36 |
| Dom 15 | 04:48 | 05:21 | 05:52 | 06:19 | 19:39 | 20:05 | 20:37 | 21:10 | 22:51 | 12:38 |
| Lun 16 | 04:49 | 05:22 | 05:53 | 06:20 | 19:38 | 20:04 | 20:35 | 21:08 | 23:30 | 13:39 |
| Mar 17 | 04:50 | 05:23 | 05:55 | 06:21 | 19:36 | 20:03 | 20:34 | 21:07 | >>>> | 14:37 |
| Mié 18 | 04:51 | 05:24 | 05:56 | 06:22 | 19:35 | 20:02 | 20:33 | 21:05 | 00:15 | 15:31 |
| Jue 19 | 04:53 | 05:25 | 05:57 | 06:23 | 19:34 | 20:00 | 20:32 | 21:04 | 01:04 | 16:20 |
| Vie 20 | 04:54 | 05:26 | 05:58 | 06:24 | 19:33 | 19:59 | 20:30 | 21:03 | 01:59 | 17:03 |
| Sáb 21 | 04:55 | 05:27 | 05:59 | 06:25 | 19:32 | 19:58 | 20:29 | 21:01 | 02:56 | 17:40 |
| Dom 22 | 04:56 | 05:29 | 06:00 | 06:26 | 19:31 | 19:57 | 20:28 | 21:00 | 03:56 | 18:13 |
| Lun 23 | 04:58 | 05:30 | 06:01 | 06:27 | 19:29 | 19:55 | 20:26 | 20:58 | 04:56 | 18:42 |
| Mar 24 | 04:59 | 05:31 | 06:02 | 06:28 | 19:28 | 19:54 | 20:25 | 20:57 | 05:56 | 19:10 |
| Mié 25 | 05:00 | 05:32 | 06:03 | 06:29 | 19:27 | 19:53 | 20:23 | 20:55 | 06:56 | 19:36 |
| Jue 26 | 05:01 | 05:33 | 06:04 | 06:29 | 19:26 | 19:52 | 20:22 | 20:54 | 07:56 | 20:02 |
| Vie 27 | 05:02 | 05:34 | 06:04 | 06:30 | 19:24 | 19:50 | 20:21 | 20:52 | 08:58 | 20:30 |
| Sáb 28 | 05:03 | 05:35 | 06:05 | 06:31 | 19:23 | 19:49 | 20:19 | 20:51 | 10:03 | 21:00 |

| DIA HORA |
|--|
| FASE |
| 2 20:13 |
|  CRECIENTE |
| 9 11:49 |
|  LLENA |
| 16 18:37 |
|  MENGUANTE |
| 24 22:35 |
|  NUEVA |





MONTEVIDEO

MARZO 2009

| |
|---|
| DIA HORA |
| FASE |
| 4 04:46 |
|  |
| CRECIENTE |
| 10 23:38 |
|  |
| LLENA |
| 18 14:47 |
|  |
| MENGUANTE |
| 26 13:06 |
|  |
| NUEVA |

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Dom 1 | 05:05 | 05:36 | 06:06 | 06:32 | 19:22 | 19:48 | 20:18 | 20:49 | 11:09 | 21:35 |
| Lun 2 | 05:06 | 05:37 | 06:07 | 06:33 | 19:21 | 19:46 | 20:16 | 20:48 | 12:18 | 22:17 |
| Mar 3 | 05:07 | 05:38 | 06:08 | 06:34 | 19:19 | 19:45 | 20:15 | 20:46 | 13:26 | 23:08 |
| Mié 4 | 05:08 | 05:39 | 06:09 | 06:35 | 19:18 | 19:43 | 20:14 | 20:45 | 14:32 | <<<<< |
| Jue 5 | 05:09 | 05:40 | 06:10 | 06:36 | 19:17 | 19:42 | 20:12 | 20:43 | 15:32 | 00:08 |
| Vie 6 | 05:10 | 05:41 | 06:11 | 06:37 | 19:15 | 19:41 | 20:11 | 20:42 | 16:23 | 01:15 |
| Sáb 7 | 05:11 | 05:42 | 06:12 | 06:37 | 19:14 | 19:39 | 20:09 | 20:40 | 17:07 | 02:27 |
| Dom 8 | 05:12 | 05:43 | 06:13 | 06:38 | 19:13 | 19:38 | 20:08 | 20:39 | 17:44 | 03:40 |
| Lun 9 | 05:13 | 05:44 | 06:14 | 06:39 | 19:11 | 19:37 | 20:06 | 20:37 | 18:16 | 04:51 |
| Mar 10 | 05:14 | 05:45 | 06:15 | 06:40 | 19:10 | 19:35 | 20:05 | 20:35 | 18:46 | 06:00 |
| Mié 11 | 05:15 | 05:46 | 06:15 | 06:41 | 19:08 | 19:34 | 20:04 | 20:34 | 19:15 | 07:07 |
| Jue 12 | 05:16 | 05:47 | 06:16 | 06:42 | 19:07 | 19:32 | 20:02 | 20:32 | 19:44 | 08:13 |
| Vie 13 | 05:17 | 05:47 | 06:17 | 06:43 | 19:06 | 19:31 | 20:01 | 20:31 | 20:14 | 09:18 |
| Sáb 14 | 05:18 | 05:48 | 06:18 | 06:43 | 19:04 | 19:30 | 19:59 | 20:29 | 20:48 | 10:22 |
| Dom 15 | 05:19 | 05:49 | 06:19 | 06:44 | 19:03 | 19:28 | 19:58 | 20:28 | 21:26 | 11:24 |
| Lun 16 | 05:20 | 05:50 | 06:20 | 06:45 | 19:02 | 19:27 | 19:56 | 20:26 | 22:08 | 12:25 |
| Mar 17 | 05:21 | 05:51 | 06:21 | 06:46 | 19:00 | 19:25 | 19:55 | 20:25 | 22:56 | 13:21 |
| Mié 18 | 05:22 | 05:52 | 06:21 | 06:47 | 18:59 | 19:24 | 19:53 | 20:23 | 23:49 | 14:12 |
| Jue 19 | 05:23 | 05:53 | 06:22 | 06:48 | 18:57 | 19:23 | 19:52 | 20:22 | >>>>> | 14:58 |
| Vie 20 | 05:24 | 05:54 | 06:23 | 06:48 | 18:56 | 19:21 | 19:51 | 20:20 | 00:46 | 15:37 |
| Sáb 21 | 05:25 | 05:54 | 06:24 | 06:49 | 18:55 | 19:20 | 19:49 | 20:19 | 01:44 | 16:12 |
| Dom 22 | 05:25 | 05:55 | 06:25 | 06:50 | 18:53 | 19:18 | 19:48 | 20:17 | 02:43 | 16:42 |
| Lun 23 | 05:26 | 05:56 | 06:25 | 06:51 | 18:52 | 19:17 | 19:46 | 20:16 | 03:43 | 17:11 |
| Mar 24 | 05:27 | 05:57 | 06:26 | 06:52 | 18:50 | 19:15 | 19:45 | 20:14 | 04:43 | 17:37 |
| Mié 25 | 05:28 | 05:58 | 06:27 | 06:52 | 18:49 | 19:14 | 19:43 | 20:13 | 05:44 | 18:04 |
| Jue 26 | 05:29 | 05:59 | 06:28 | 06:53 | 18:48 | 19:13 | 19:42 | 20:12 | 06:46 | 18:31 |
| Vie 27 | 05:30 | 05:59 | 06:29 | 06:54 | 18:46 | 19:11 | 19:41 | 20:10 | 07:51 | 19:02 |
| Sáb 28 | 05:31 | 06:00 | 06:29 | 06:55 | 18:45 | 19:10 | 19:39 | 20:09 | 08:58 | 19:36 |
| Dom 29 | 05:31 | 06:01 | 06:30 | 06:56 | 18:43 | 19:09 | 19:38 | 20:07 | 10:07 | 20:17 |
| Lun 30 | 05:32 | 06:02 | 06:31 | 06:56 | 18:42 | 19:07 | 19:36 | 20:06 | 11:18 | 21:05 |
| Mar 31 | 05:33 | 06:03 | 06:32 | 06:57 | 18:41 | 19:06 | 19:35 | 20:04 | 12:25 | 22:02 |

ABRIL 2009






| |
|---|
| DIA HORA |
| FASE |
| 2 11:34 |
|  |
| CRECIENTE |
| 9 11:56 |
|  |
| LLENA |
| 17 10:36 |
|  |
| MENGUANTE |
| 25 00:23 |
|  |
| NUEVA |

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Mié 1 | 05:34 | 06:03 | 06:33 | 06:58 | 18:39 | 19:04 | 19:34 | 20:03 | 13:27 | 23:07 |
| Jue 2 | 05:35 | 06:04 | 06:33 | 06:59 | 18:38 | 19:03 | 19:32 | 20:02 | 14:20 | <<<<< |
| Vie 3 | 05:35 | 06:05 | 06:34 | 06:59 | 18:36 | 19:02 | 19:31 | 20:00 | 15:05 | 00:17 |
| Sáb 4 | 05:36 | 06:06 | 06:35 | 07:00 | 18:35 | 19:00 | 19:30 | 19:59 | 15:43 | 01:28 |
| Dom 5 | 05:37 | 06:06 | 06:36 | 07:01 | 18:34 | 18:59 | 19:28 | 19:58 | 16:16 | 02:38 |
| Lun 6 | 05:38 | 06:07 | 06:36 | 07:02 | 18:32 | 18:58 | 19:27 | 19:56 | 16:46 | 03:46 |
| Mar 7 | 05:39 | 06:08 | 06:37 | 07:03 | 18:31 | 18:56 | 19:26 | 19:55 | 17:15 | 04:52 |
| Mié 8 | 05:39 | 06:09 | 06:38 | 07:03 | 18:30 | 18:55 | 19:24 | 19:54 | 17:43 | 05:57 |
| Jue 9 | 05:40 | 06:09 | 06:39 | 07:04 | 18:28 | 18:54 | 19:23 | 19:52 | 18:13 | 07:01 |
| Vie 10 | 05:41 | 06:10 | 06:40 | 07:05 | 18:27 | 18:52 | 19:22 | 19:51 | 18:45 | 08:05 |
| Sáb 11 | 05:42 | 06:11 | 06:40 | 07:06 | 18:26 | 18:51 | 19:20 | 19:50 | 19:21 | 09:08 |
| Dom 12 | 05:42 | 06:12 | 06:41 | 07:07 | 18:24 | 18:50 | 19:19 | 19:49 | 20:02 | 10:10 |
| Lun 13 | 05:43 | 06:12 | 06:42 | 07:07 | 18:23 | 18:49 | 19:18 | 19:47 | 20:49 | 11:09 |
| Mar 14 | 05:44 | 06:13 | 06:43 | 07:08 | 18:22 | 18:47 | 19:17 | 19:46 | 21:40 | 12:03 |
| Mié 15 | 05:45 | 06:14 | 06:43 | 07:09 | 18:21 | 18:46 | 19:16 | 19:45 | 22:35 | 12:51 |
| Jue 16 | 05:45 | 06:15 | 06:44 | 07:10 | 18:19 | 18:45 | 19:14 | 19:44 | 23:33 | 13:33 |
| Vie 17 | 05:46 | 06:15 | 06:45 | 07:10 | 18:18 | 18:44 | 19:13 | 19:43 | >>>>> | 14:09 |
| Sáb 18 | 05:47 | 06:16 | 06:46 | 07:11 | 18:17 | 18:43 | 19:12 | 19:41 | 00:31 | 14:41 |
| Dom 19 | 05:47 | 06:17 | 06:46 | 07:12 | 18:16 | 18:41 | 19:11 | 19:40 | 01:30 | 15:10 |
| Lun 20 | 05:48 | 06:17 | 06:47 | 07:13 | 18:14 | 18:40 | 19:10 | 19:39 | 02:29 | 15:37 |
| Mar 21 | 05:49 | 06:18 | 06:48 | 07:14 | 18:13 | 18:39 | 19:09 | 19:38 | 03:29 | 16:03 |
| Mié 22 | 05:50 | 06:19 | 06:49 | 07:14 | 18:12 | 18:38 | 19:07 | 19:37 | 04:30 | 16:30 |
| Jue 23 | 05:50 | 06:20 | 06:49 | 07:15 | 18:11 | 18:37 | 19:06 | 19:36 | 05:34 | 17:00 |
| Vie 24 | 05:51 | 06:20 | 06:50 | 07:16 | 18:10 | 18:36 | 19:05 | 19:35 | 06:40 | 17:33 |
| Sáb 25 | 05:52 | 06:21 | 06:51 | 07:17 | 18:09 | 18:35 | 19:04 | 19:34 | 07:50 | 18:12 |
| Dom 26 | 05:52 | 06:22 | 06:52 | 07:18 | 18:07 | 18:33 | 19:03 | 19:33 | 09:02 | 18:58 |
| Lun 27 | 05:53 | 06:23 | 06:52 | 07:18 | 18:06 | 18:32 | 19:02 | 19:32 | 10:13 | 19:54 |
| Mar 28 | 05:54 | 06:23 | 06:53 | 07:19 | 18:05 | 18:31 | 19:01 | 19:31 | 11:19 | 20:59 |
| Mié 29 | 05:54 | 06:24 | 06:54 | 07:20 | 18:04 | 18:30 | 19:00 | 19:30 | 12:16 | 22:09 |
| Jue 30 | 05:55 | 06:25 | 06:55 | 07:21 | 18:03 | 18:29 | 18:59 | 19:29 | 13:04 | 23:20 |

MONTEVIDEO





MAYO 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Vie 1 | 05:56 | 06:25 | 06:55 | 07:22 | 18:02 | 18:28 | 18:58 | 19:28 | 13:44 | <<<< |
| Sáb 2 | 05:56 | 06:26 | 06:56 | 07:22 | 18:01 | 18:27 | 18:57 | 19:27 | 14:18 | 00:30 |
| Dom 3 | 05:57 | 06:27 | 06:57 | 07:23 | 18:00 | 18:26 | 18:57 | 19:26 | 14:49 | 01:38 |
| Lun 4 | 05:58 | 06:27 | 06:58 | 07:24 | 17:59 | 18:26 | 18:56 | 19:25 | 15:17 | 02:43 |
| Mar 5 | 05:58 | 06:28 | 06:58 | 07:25 | 17:58 | 18:25 | 18:55 | 19:25 | 15:45 | 03:47 |
| Mié 6 | 05:59 | 06:29 | 06:59 | 07:26 | 17:57 | 18:24 | 18:54 | 19:24 | 16:13 | 04:50 |
| Jue 7 | 06:00 | 06:30 | 07:00 | 07:26 | 17:56 | 18:23 | 18:53 | 19:23 | 16:44 | 05:53 |
| Vie 8 | 06:00 | 06:30 | 07:01 | 07:27 | 17:55 | 18:22 | 18:52 | 19:22 | 17:19 | 06:56 |
| Sáb 9 | 06:01 | 06:31 | 07:01 | 07:28 | 17:55 | 18:21 | 18:52 | 19:21 | 17:58 | 07:58 |
| Dom 10 | 06:02 | 06:32 | 07:02 | 07:29 | 17:54 | 18:20 | 18:51 | 19:21 | 18:42 | 08:58 |
| Lun 11 | 06:02 | 06:32 | 07:03 | 07:30 | 17:53 | 18:20 | 18:50 | 19:20 | 19:32 | 09:54 |
| Mar 12 | 06:03 | 06:33 | 07:03 | 07:30 | 17:52 | 18:19 | 18:49 | 19:19 | 20:26 | 10:44 |
| Mié 13 | 06:04 | 06:34 | 07:04 | 07:31 | 17:51 | 18:18 | 18:49 | 19:19 | 21:23 | 11:28 |
| Jue 14 | 06:04 | 06:34 | 07:05 | 07:32 | 17:51 | 18:17 | 18:48 | 19:18 | 22:21 | 12:07 |
| Vie 15 | 06:05 | 06:35 | 07:06 | 07:33 | 17:50 | 18:17 | 18:47 | 19:17 | 23:19 | 12:40 |
| Sáb 16 | 06:05 | 06:36 | 07:06 | 07:33 | 17:49 | 18:16 | 18:47 | 19:17 | >>>> | 13:09 |
| Dom 17 | 06:06 | 06:36 | 07:07 | 07:34 | 17:48 | 18:15 | 18:46 | 19:16 | 00:17 | 13:37 |
| Lun 18 | 06:07 | 06:37 | 07:08 | 07:35 | 17:48 | 18:15 | 18:46 | 19:16 | 01:15 | 14:03 |
| Mar 19 | 06:07 | 06:38 | 07:08 | 07:36 | 17:47 | 18:14 | 18:45 | 19:15 | 02:14 | 14:29 |
| Mié 20 | 06:08 | 06:38 | 07:09 | 07:36 | 17:46 | 18:14 | 18:45 | 19:15 | 03:16 | 14:57 |
| Jue 21 | 06:09 | 06:39 | 07:10 | 07:37 | 17:46 | 18:13 | 18:44 | 19:14 | 04:20 | 15:27 |
| Vie 22 | 06:09 | 06:39 | 07:10 | 07:38 | 17:45 | 18:13 | 18:44 | 19:14 | 05:28 | 16:04 |
| Sáb 23 | 06:10 | 06:40 | 07:11 | 07:38 | 17:45 | 18:12 | 18:43 | 19:14 | 06:39 | 16:47 |
| Dom 24 | 06:10 | 06:41 | 07:12 | 07:39 | 17:44 | 18:12 | 18:43 | 19:13 | 07:52 | 17:40 |
| Lun 25 | 06:11 | 06:41 | 07:12 | 07:40 | 17:44 | 18:11 | 18:42 | 19:13 | 09:02 | 18:43 |
| Mar 26 | 06:11 | 06:42 | 07:13 | 07:41 | 17:43 | 18:11 | 18:42 | 19:12 | 10:05 | 19:53 |
| Mié 27 | 06:12 | 06:42 | 07:14 | 07:41 | 17:43 | 18:11 | 18:42 | 19:12 | 10:58 | 21:07 |
| Jue 28 | 06:13 | 06:43 | 07:14 | 07:42 | 17:43 | 18:10 | 18:41 | 19:12 | 11:42 | 22:20 |
| Vie 29 | 06:13 | 06:44 | 07:15 | 07:43 | 17:42 | 18:10 | 18:41 | 19:12 | 12:19 | 23:30 |
| Sáb 30 | 06:14 | 06:44 | 07:15 | 07:43 | 17:42 | 18:10 | 18:41 | 19:11 | 12:51 | <<<< |
| Dom 31 | 06:14 | 06:45 | 07:16 | 07:44 | 17:41 | 18:09 | 18:41 | 19:11 | 13:20 | 00:37 |

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|---|
| DIA HORA |
| FASE |
| 1 17:44 |
|  |
| CRECIENTE |
| 9 01:01 |
|  |
| LLENA |
| 17 04:26 |
|  |
| MENGUANTE |
| 24 09:11 |
|  |
| NUEVA |
| 31 00:22 |
|  |
| CRECIENTE |





JUNIO 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Lun 1 | 06:15 | 06:45 | 07:17 | 07:44 | 17:41 | 18:09 | 18:40 | 19:11 | 13:48 | 01:41 |
| Mar 2 | 06:15 | 06:46 | 07:17 | 07:45 | 17:41 | 18:09 | 18:40 | 19:11 | 14:16 | 02:44 |
| Mié 3 | 06:16 | 06:46 | 07:18 | 07:46 | 17:41 | 18:09 | 18:40 | 19:11 | 14:46 | 03:46 |
| Jue 4 | 06:16 | 06:47 | 07:18 | 07:46 | 17:40 | 18:08 | 18:40 | 19:11 | 15:19 | 04:48 |
| Vie 5 | 06:17 | 06:47 | 07:19 | 07:47 | 17:40 | 18:08 | 18:40 | 19:10 | 15:56 | 05:50 |
| Sáb 6 | 06:17 | 06:48 | 07:19 | 07:47 | 17:40 | 18:08 | 18:40 | 19:10 | 16:38 | 06:50 |
| Dom 7 | 06:17 | 06:48 | 07:20 | 07:48 | 17:40 | 18:08 | 18:40 | 19:10 | 17:26 | 07:47 |
| Lun 8 | 06:18 | 06:49 | 07:20 | 07:48 | 17:40 | 18:08 | 18:39 | 19:10 | 18:19 | 08:39 |
| Mar 9 | 06:18 | 06:49 | 07:21 | 07:49 | 17:40 | 18:08 | 18:39 | 19:10 | 19:15 | 09:25 |
| Mié 10 | 06:19 | 06:50 | 07:21 | 07:49 | 17:40 | 18:08 | 18:39 | 19:10 | 20:13 | 10:05 |
| Jue 11 | 06:19 | 06:50 | 07:22 | 07:50 | 17:40 | 18:08 | 18:39 | 19:10 | 21:11 | 10:40 |
| Vie 12 | 06:19 | 06:50 | 07:22 | 07:50 | 17:40 | 18:08 | 18:39 | 19:10 | 22:08 | 11:11 |
| Sáb 13 | 06:20 | 06:51 | 07:22 | 07:50 | 17:40 | 18:08 | 18:40 | 19:10 | 23:06 | 11:38 |
| Dom 14 | 06:20 | 06:51 | 07:23 | 07:51 | 17:40 | 18:08 | 18:40 | 19:10 | >>>> | 12:04 |
| Lun 15 | 06:20 | 06:51 | 07:23 | 07:51 | 17:40 | 18:08 | 18:40 | 19:11 | 00:03 | 12:30 |
| Mar 16 | 06:21 | 06:52 | 07:23 | 07:52 | 17:40 | 18:08 | 18:40 | 19:11 | 01:02 | 12:56 |
| Mié 17 | 06:21 | 06:52 | 07:24 | 07:52 | 17:40 | 18:08 | 18:40 | 19:11 | 02:03 | 13:24 |
| Jue 18 | 06:21 | 06:52 | 07:24 | 07:52 | 17:40 | 18:08 | 18:40 | 19:11 | 03:07 | 13:57 |
| Vie 19 | 06:22 | 06:53 | 07:24 | 07:52 | 17:40 | 18:09 | 18:40 | 19:11 | 04:16 | 14:36 |
| Sáb 20 | 06:22 | 06:53 | 07:24 | 07:53 | 17:41 | 18:09 | 18:41 | 19:11 | 05:27 | 15:23 |
| Dom 21 | 06:22 | 06:53 | 07:25 | 07:53 | 17:41 | 18:09 | 18:41 | 19:12 | 06:39 | 16:21 |
| Lun 22 | 06:22 | 06:53 | 07:25 | 07:53 | 17:41 | 18:09 | 18:41 | 19:12 | 07:46 | 17:29 |
| Mar 23 | 06:22 | 06:53 | 07:25 | 07:53 | 17:41 | 18:10 | 18:41 | 19:12 | 08:45 | 18:44 |
| Mié 24 | 06:23 | 06:54 | 07:25 | 07:53 | 17:42 | 18:10 | 18:42 | 19:12 | 09:35 | 20:00 |
| Jue 25 | 06:23 | 06:54 | 07:25 | 07:54 | 17:42 | 18:10 | 18:42 | 19:13 | 10:16 | 21:14 |
| Vie 26 | 06:23 | 06:54 | 07:25 | 07:54 | 17:42 | 18:10 | 18:42 | 19:13 | 10:51 | 22:24 |
| Sáb 27 | 06:23 | 06:54 | 07:26 | 07:54 | 17:43 | 18:11 | 18:42 | 19:13 | 11:22 | 23:32 |
| Dom 28 | 06:23 | 06:54 | 07:26 | 07:54 | 17:43 | 18:11 | 18:43 | 19:14 | 11:51 | <<<< |
| Lun 29 | 06:23 | 06:54 | 07:26 | 07:54 | 17:43 | 18:11 | 18:43 | 19:14 | 12:19 | 00:36 |
| Mar 30 | 06:23 | 06:54 | 07:26 | 07:54 | 17:44 | 18:12 | 18:44 | 19:14 | 12:49 | 01:39 |

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|---|
| DIA HORA |
| FASE |
| 7 15:12 |
|  |
| LLENA |
| 15 19:15 |
|  |
| MENGUANTE |
| 22 16:35 |
|  |
| NUEVA |
| 29 08:28 |
|  |
| CRECIENTE |





MONTEVIDEO

JULIO 2009

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|---|
| DIA HORA |
| FASE |
| 7 06:21  LLENA |
| 15 06:53  MENGUANTE |
| 21 23:35  NUEVA |
| 28 19:00  CRECIENTE |

| FECHA | SOL | | | | | | LUNA | | | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Mié 1 | 06:23 | 06:54 | 07:26 | 07:54 | 17:44 | 18:12 | 18:44 | 19:15 | 13:21 | 02:42 |
| Jue 2 | 06:23 | 06:54 | 07:26 | 07:54 | 17:45 | 18:13 | 18:44 | 19:15 | 13:56 | 03:44 |
| Vie 3 | 06:23 | 06:54 | 07:26 | 07:54 | 17:45 | 18:13 | 18:45 | 19:15 | 14:37 | 04:44 |
| Sáb 4 | 06:23 | 06:54 | 07:25 | 07:54 | 17:46 | 18:14 | 18:45 | 19:16 | 15:23 | 05:42 |
| Dom 5 | 06:23 | 06:54 | 07:25 | 07:53 | 17:46 | 18:14 | 18:46 | 19:16 | 16:14 | 06:35 |
| Lun 6 | 06:23 | 06:54 | 07:25 | 07:53 | 17:47 | 18:15 | 18:46 | 19:17 | 17:09 | 07:23 |
| Mar 7 | 06:23 | 06:54 | 07:25 | 07:53 | 17:47 | 18:15 | 18:47 | 19:17 | 18:06 | 08:05 |
| Mié 8 | 06:23 | 06:53 | 07:25 | 07:53 | 17:48 | 18:16 | 18:47 | 19:18 | 19:04 | 08:41 |
| Jue 9 | 06:23 | 06:53 | 07:25 | 07:53 | 17:48 | 18:16 | 18:47 | 19:18 | 20:02 | 09:13 |
| Vie 10 | 06:22 | 06:53 | 07:24 | 07:52 | 17:49 | 18:17 | 18:48 | 19:19 | 20:59 | 09:42 |
| Sáb 11 | 06:22 | 06:53 | 07:24 | 07:52 | 17:49 | 18:17 | 18:49 | 19:19 | 21:56 | 10:08 |
| Dom 12 | 06:22 | 06:53 | 07:24 | 07:52 | 17:50 | 18:18 | 18:49 | 19:20 | 22:54 | 10:33 |
| Lun 13 | 06:22 | 06:52 | 07:23 | 07:51 | 17:51 | 18:18 | 18:50 | 19:20 | 23:53 | 10:58 |
| Mar 14 | 06:21 | 06:52 | 07:23 | 07:51 | 17:51 | 18:19 | 18:50 | 19:21 | >>>> | 11:25 |
| Mié 15 | 06:21 | 06:52 | 07:23 | 07:50 | 17:52 | 18:19 | 18:51 | 19:21 | 00:54 | 11:55 |
| Jue 16 | 06:21 | 06:51 | 07:22 | 07:50 | 17:52 | 18:20 | 18:51 | 19:22 | 01:59 | 12:30 |
| Vie 17 | 06:20 | 06:51 | 07:22 | 07:50 | 17:53 | 18:21 | 18:52 | 19:22 | 03:07 | 13:12 |
| Sáb 18 | 06:20 | 06:50 | 07:21 | 07:49 | 17:54 | 18:21 | 18:52 | 19:23 | 04:16 | 14:03 |
| Dom 19 | 06:20 | 06:50 | 07:21 | 07:48 | 17:54 | 18:22 | 18:53 | 19:23 | 05:25 | 15:05 |
| Lun 20 | 06:19 | 06:50 | 07:21 | 07:48 | 17:55 | 18:23 | 18:54 | 19:24 | 06:27 | 16:16 |
| Mar 21 | 06:19 | 06:49 | 07:20 | 07:47 | 17:56 | 18:23 | 18:54 | 19:24 | 07:22 | 17:32 |
| Mié 22 | 06:18 | 06:49 | 07:19 | 07:47 | 17:56 | 18:24 | 18:55 | 19:25 | 08:08 | 18:49 |
| Jue 23 | 06:18 | 06:48 | 07:19 | 07:46 | 17:57 | 18:24 | 18:55 | 19:25 | 08:46 | 20:03 |
| Vie 24 | 06:17 | 06:47 | 07:18 | 07:45 | 17:58 | 18:25 | 18:56 | 19:26 | 09:20 | 21:14 |
| Sáb 25 | 06:17 | 06:47 | 07:18 | 07:45 | 17:59 | 18:26 | 18:57 | 19:27 | 09:50 | 22:22 |
| Dom 26 | 06:16 | 06:46 | 07:17 | 07:44 | 17:59 | 18:26 | 18:57 | 19:27 | 10:20 | 23:28 |
| Lun 27 | 06:16 | 06:46 | 07:16 | 07:43 | 18:00 | 18:27 | 18:58 | 19:28 | 10:50 | <<<< |
| Mar 28 | 06:15 | 06:45 | 07:16 | 07:43 | 18:01 | 18:28 | 18:58 | 19:28 | 11:21 | 00:32 |
| Mié 29 | 06:14 | 06:44 | 07:15 | 07:42 | 18:01 | 18:28 | 18:59 | 19:29 | 11:56 | 01:35 |
| Jue 30 | 06:14 | 06:44 | 07:14 | 07:41 | 18:02 | 18:29 | 19:00 | 19:30 | 12:35 | 02:37 |
| Vie 31 | 06:13 | 06:43 | 07:13 | 07:40 | 18:03 | 18:30 | 19:00 | 19:30 | 13:20 | 03:36 |

AGOSTO 2009





| |
|---|
| DIA HORA |
| FASE |
| 5 21:55  LLENA |
| 13 15:55  MENGUANTE |
| 20 07:02  NUEVA |
| 27 08:42  CRECIENTE |

| FECHA | SOL | | | | | | LUNA | | | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Sáb 1 | 06:12 | 06:42 | 07:13 | 07:39 | 18:04 | 18:30 | 19:01 | 19:31 | 14:09 | 04:31 |
| Dom 2 | 06:11 | 06:41 | 07:12 | 07:38 | 18:04 | 18:31 | 19:02 | 19:31 | 15:03 | 05:21 |
| Lun 3 | 06:11 | 06:41 | 07:11 | 07:38 | 18:05 | 18:32 | 19:02 | 19:32 | 16:00 | 06:05 |
| Mar 4 | 06:10 | 06:40 | 07:10 | 07:37 | 18:06 | 18:32 | 19:03 | 19:33 | 16:58 | 06:43 |
| Mié 5 | 06:09 | 06:39 | 07:09 | 07:36 | 18:07 | 18:33 | 19:03 | 19:33 | 17:56 | 07:16 |
| Jue 6 | 06:08 | 06:38 | 07:08 | 07:35 | 18:07 | 18:34 | 19:04 | 19:34 | 18:54 | 07:45 |
| Vie 7 | 06:07 | 06:37 | 07:07 | 07:34 | 18:08 | 18:35 | 19:05 | 19:34 | 19:51 | 08:12 |
| Sáb 8 | 06:07 | 06:36 | 07:06 | 07:33 | 18:09 | 18:35 | 19:05 | 19:35 | 20:48 | 08:38 |
| Dom 9 | 06:06 | 06:35 | 07:05 | 07:32 | 18:10 | 18:36 | 19:06 | 19:36 | 21:46 | 09:03 |
| Lun 10 | 06:05 | 06:34 | 07:04 | 07:31 | 18:10 | 18:37 | 19:07 | 19:36 | 22:46 | 09:29 |
| Mar 11 | 06:04 | 06:33 | 07:03 | 07:30 | 18:11 | 18:37 | 19:07 | 19:37 | 23:49 | 09:57 |
| Mié 12 | 06:03 | 06:32 | 07:02 | 07:29 | 18:12 | 18:38 | 19:08 | 19:38 | >>>> | 10:30 |
| Jue 13 | 06:02 | 06:31 | 07:01 | 07:28 | 18:12 | 18:39 | 19:09 | 19:38 | 00:54 | 11:08 |
| Vie 14 | 06:01 | 06:30 | 07:00 | 07:26 | 18:13 | 18:39 | 19:09 | 19:39 | 02:01 | 11:53 |
| Sáb 15 | 06:00 | 06:29 | 06:59 | 07:25 | 18:14 | 18:40 | 19:10 | 19:39 | 03:08 | 12:49 |
| Dom 16 | 05:59 | 06:28 | 06:58 | 07:24 | 18:15 | 18:41 | 19:11 | 19:40 | 04:11 | 13:54 |
| Lun 17 | 05:58 | 06:27 | 06:57 | 07:23 | 18:15 | 18:41 | 19:11 | 19:41 | 05:08 | 15:06 |
| Mar 18 | 05:57 | 06:26 | 06:56 | 07:22 | 18:16 | 18:42 | 19:12 | 19:41 | 05:57 | 16:21 |
| Mié 19 | 05:56 | 06:25 | 06:55 | 07:21 | 18:17 | 18:43 | 19:13 | 19:42 | 06:39 | 17:36 |
| Jue 20 | 05:55 | 06:24 | 06:54 | 07:19 | 18:18 | 18:44 | 19:13 | 19:43 | 07:15 | 18:50 |
| Vie 21 | 05:53 | 06:23 | 06:52 | 07:18 | 18:18 | 18:44 | 19:14 | 19:43 | 07:47 | 20:00 |
| Sáb 22 | 05:52 | 06:22 | 06:51 | 07:17 | 18:19 | 18:45 | 19:15 | 19:44 | 08:18 | 21:09 |
| Dom 23 | 05:51 | 06:20 | 06:50 | 07:16 | 18:20 | 18:46 | 19:15 | 19:45 | 08:48 | 22:16 |
| Lun 24 | 05:50 | 06:19 | 06:49 | 07:14 | 18:21 | 18:46 | 19:16 | 19:45 | 09:20 | 23:21 |
| Mar 25 | 05:49 | 06:18 | 06:48 | 07:13 | 18:21 | 18:47 | 19:17 | 19:46 | 09:55 | <<<< |
| Mié 26 | 05:47 | 06:17 | 06:46 | 07:12 | 18:22 | 18:48 | 19:17 | 19:47 | 10:33 | 00:25 |
| Jue 27 | 05:46 | 06:16 | 06:45 | 07:11 | 18:23 | 18:48 | 19:18 | 19:47 | 11:16 | 01:27 |
| Vie 28 | 05:45 | 06:14 | 06:44 | 07:09 | 18:24 | 18:49 | 19:19 | 19:48 | 12:04 | 02:24 |
| Sáb 29 | 05:44 | 06:13 | 06:42 | 07:08 | 18:24 | 18:50 | 19:19 | 19:49 | 12:56 | 03:16 |
| Dom 30 | 05:42 | 06:12 | 06:41 | 07:07 | 18:25 | 18:50 | 19:20 | 19:49 | 13:52 | 04:02 |
| Lun 31 | 05:41 | 06:10 | 06:40 | 07:05 | 18:26 | 18:51 | 19:21 | 19:50 | 14:50 | 04:42 |

MONTEVIDEO





SETIEMBRE 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Mar 1 | 05:40 | 06:09 | 06:38 | 07:04 | 18:26 | 18:52 | 19:21 | 19:51 | 15:48 | 05:17 |
| Mié 2 | 05:39 | 06:08 | 06:37 | 07:03 | 18:27 | 18:53 | 19:22 | 19:51 | 16:46 | 05:48 |
| Jue 3 | 05:37 | 06:06 | 06:36 | 07:01 | 18:28 | 18:53 | 19:23 | 19:52 | 17:44 | 06:16 |
| Vie 4 | 05:36 | 06:05 | 06:34 | 07:00 | 18:29 | 18:54 | 19:23 | 19:53 | 18:42 | 06:42 |
| Sáb 5 | 05:34 | 06:04 | 06:33 | 06:58 | 18:29 | 18:55 | 19:24 | 19:53 | 19:40 | 07:07 |
| Dom 6 | 05:33 | 06:02 | 06:32 | 06:57 | 18:30 | 18:55 | 19:25 | 19:54 | 20:40 | 07:34 |
| Lun 7 | 05:32 | 06:01 | 06:30 | 06:56 | 18:31 | 18:56 | 19:25 | 19:55 | 21:42 | 08:01 |
| Mar 8 | 05:30 | 06:00 | 06:29 | 06:54 | 18:31 | 18:57 | 19:26 | 19:55 | 22:46 | 08:33 |
| Mié 9 | 05:29 | 05:58 | 06:28 | 06:53 | 18:32 | 18:57 | 19:27 | 19:56 | 23:52 | 09:09 |
| Jue 10 | 05:27 | 05:57 | 06:26 | 06:51 | 18:33 | 18:58 | 19:27 | 19:57 | >>>> | 09:51 |
| Vie 11 | 05:26 | 05:55 | 06:25 | 06:50 | 18:34 | 18:59 | 19:28 | 19:58 | 00:58 | 10:42 |
| Sáb 12 | 05:25 | 05:54 | 06:23 | 06:49 | 18:34 | 19:00 | 19:29 | 19:58 | 02:02 | 11:42 |
| Dom 13 | 05:23 | 05:53 | 06:22 | 06:47 | 18:35 | 19:00 | 19:30 | 19:59 | 02:59 | 12:49 |
| Lun 14 | 05:22 | 05:51 | 06:20 | 06:46 | 18:36 | 19:01 | 19:30 | 20:00 | 03:49 | 14:01 |
| Mar 15 | 05:20 | 05:50 | 06:19 | 06:44 | 18:36 | 19:02 | 19:31 | 20:01 | 04:32 | 15:14 |
| Mié 16 | 05:19 | 05:48 | 06:18 | 06:43 | 18:37 | 19:02 | 19:32 | 20:01 | 05:10 | 16:26 |
| Jue 17 | 05:17 | 05:47 | 06:16 | 06:41 | 18:38 | 19:03 | 19:33 | 20:02 | 05:43 | 17:37 |
| Vie 18 | 05:16 | 05:45 | 06:15 | 06:40 | 18:39 | 19:04 | 19:33 | 20:03 | 06:15 | 18:46 |
| Sáb 19 | 05:14 | 05:44 | 06:13 | 06:39 | 18:39 | 19:05 | 19:34 | 20:04 | 06:45 | 19:54 |
| Dom 20 | 05:13 | 05:42 | 06:12 | 06:37 | 18:40 | 19:05 | 19:35 | 20:05 | 07:17 | 21:02 |
| Lun 21 | 05:11 | 05:41 | 06:10 | 06:36 | 18:41 | 19:06 | 19:36 | 20:05 | 07:51 | 22:08 |
| Mar 22 | 05:10 | 05:40 | 06:09 | 06:34 | 18:42 | 19:07 | 19:36 | 20:06 | 08:28 | 23:12 |
| Mié 23 | 05:08 | 05:38 | 06:08 | 06:33 | 18:42 | 19:08 | 19:37 | 20:07 | 09:10 | <<<< |
| Jue 24 | 05:07 | 05:37 | 06:06 | 06:31 | 18:43 | 19:08 | 19:38 | 20:08 | 09:57 | 00:13 |
| Vie 25 | 05:05 | 05:35 | 06:05 | 06:30 | 18:44 | 19:09 | 19:39 | 20:09 | 10:48 | 01:08 |
| Sáb 26 | 05:04 | 05:34 | 06:03 | 06:28 | 18:45 | 19:10 | 19:40 | 20:10 | 11:43 | 01:57 |
| Dom 27 | 05:02 | 05:32 | 06:02 | 06:27 | 18:45 | 19:11 | 19:40 | 20:10 | 12:41 | 02:39 |
| Lun 28 | 05:01 | 05:31 | 06:00 | 06:26 | 18:46 | 19:11 | 19:41 | 20:11 | 13:39 | 03:16 |
| Mar 29 | 04:59 | 05:29 | 05:59 | 06:24 | 18:47 | 19:12 | 19:42 | 20:12 | 14:36 | 03:48 |
| Mié 30 | 04:57 | 05:28 | 05:57 | 06:23 | 18:48 | 19:13 | 19:43 | 20:13 | 15:34 | 04:17 |

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|---|
| DIA HORA |
| FASE |
| 4 13:03 |
|  |
| LLENA |
| 11 23:16 |
|  |
| MENGUANTE |
| 18 15:44 |
|  |
| NUEVA |
| 26 01:50 |
|  |
| CRECIENTE |

OCTUBRE 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Jue 1 | 04:56 | 05:26 | 05:56 | 06:21 | 18:48 | 19:14 | 19:44 | 20:14 | 16:32 | 04:44 |
| Vie 2 | 04:54 | 05:25 | 05:55 | 06:20 | 18:49 | 19:15 | 19:45 | 20:15 | 17:30 | 05:10 |
| Sáb 3 | 04:53 | 05:23 | 05:53 | 06:18 | 18:50 | 19:15 | 19:45 | 20:16 | 18:30 | 05:36 |
| Dom 4 | 04:51 | 05:22 | 05:52 | 06:17 | 18:51 | 19:16 | 19:46 | 20:17 | 19:33 | 06:04 |
| Lun 5 | 04:50 | 05:20 | 05:50 | 06:16 | 18:52 | 19:17 | 19:47 | 20:18 | 20:37 | 06:34 |
| Mar 6 | 04:48 | 05:19 | 05:49 | 06:14 | 18:52 | 19:18 | 19:48 | 20:19 | 21:44 | 07:10 |
| Mié 7 | 04:47 | 05:17 | 05:47 | 06:13 | 18:53 | 19:19 | 19:49 | 20:20 | 22:51 | 07:51 |
| Jue 8 | 04:45 | 05:16 | 05:46 | 06:12 | 18:54 | 19:20 | 19:50 | 20:21 | 23:55 | 08:40 |
| Vie 9 | 04:43 | 05:14 | 05:45 | 06:10 | 18:55 | 19:20 | 19:51 | 20:22 | >>>> | 09:37 |
| Sáb 10 | 04:42 | 05:13 | 05:43 | 06:09 | 18:56 | 19:21 | 19:52 | 20:23 | 00:54 | 10:42 |
| Dom 11 | 04:40 | 05:11 | 05:42 | 06:08 | 18:56 | 19:22 | 19:53 | 20:24 | 01:46 | 11:51 |
| Lun 12 | 04:39 | 05:10 | 05:40 | 06:06 | 18:57 | 19:23 | 19:54 | 20:25 | 02:30 | 13:01 |
| Mar 13 | 04:37 | 05:09 | 05:39 | 06:05 | 18:58 | 19:24 | 19:55 | 20:26 | 03:08 | 14:12 |
| Mié 14 | 04:36 | 05:07 | 05:38 | 06:04 | 18:59 | 19:25 | 19:55 | 20:27 | 03:42 | 15:20 |
| Jue 15 | 04:34 | 05:06 | 05:36 | 06:02 | 19:00 | 19:26 | 19:56 | 20:28 | 04:13 | 16:28 |
| Vie 16 | 04:33 | 05:04 | 05:35 | 06:01 | 19:01 | 19:27 | 19:57 | 20:29 | 04:43 | 17:35 |
| Sáb 17 | 04:31 | 05:03 | 05:34 | 06:00 | 19:01 | 19:28 | 19:58 | 20:30 | 05:14 | 18:42 |
| Dom 18 | 04:30 | 05:02 | 05:32 | 05:58 | 19:02 | 19:28 | 19:59 | 20:32 | 05:47 | 19:49 |
| Lun 19 | 04:28 | 05:00 | 05:31 | 05:57 | 19:03 | 19:29 | 20:00 | 20:33 | 06:23 | 20:55 |
| Mar 20 | 04:27 | 04:59 | 05:30 | 05:56 | 19:04 | 19:30 | 20:02 | 20:34 | 07:03 | 21:57 |
| Mié 21 | 04:25 | 04:57 | 05:29 | 05:55 | 19:05 | 19:31 | 20:03 | 20:35 | 07:48 | 22:56 |
| Jue 22 | 04:24 | 04:56 | 05:27 | 05:54 | 19:06 | 19:32 | 20:04 | 20:36 | 08:39 | 23:48 |
| Vie 23 | 04:22 | 04:55 | 05:26 | 05:52 | 19:07 | 19:33 | 20:05 | 20:37 | 09:33 | <<<< |
| Sáb 24 | 04:21 | 04:53 | 05:25 | 05:51 | 19:08 | 19:34 | 20:06 | 20:39 | 10:30 | 00:33 |
| Dom 25 | 04:19 | 04:52 | 05:24 | 05:50 | 19:09 | 19:35 | 20:07 | 20:40 | 11:28 | 01:13 |
| Lun 26 | 04:18 | 04:51 | 05:22 | 05:49 | 19:10 | 19:36 | 20:08 | 20:41 | 12:25 | 01:47 |
| Mar 27 | 04:16 | 04:50 | 05:21 | 05:48 | 19:10 | 19:37 | 20:09 | 20:42 | 13:23 | 02:17 |
| Mié 28 | 04:15 | 04:48 | 05:20 | 05:47 | 19:11 | 19:38 | 20:10 | 20:44 | 14:20 | 02:44 |
| Jue 29 | 04:14 | 04:47 | 05:19 | 05:46 | 19:12 | 19:39 | 20:11 | 20:45 | 15:17 | 03:10 |
| Vie 30 | 04:12 | 04:46 | 05:18 | 05:45 | 19:13 | 19:40 | 20:12 | 20:46 | 16:17 | 03:36 |
| Sáb 31 | 04:11 | 04:45 | 05:17 | 05:44 | 19:14 | 19:41 | 20:13 | 20:47 | 17:18 | 04:03 |

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|---|
| DIA HORA |
| FASE |
| 4 03:10 |
|  |
| LLENA |
| 11 05:56 |
|  |
| MENGUANTE |
| 18 02:33 |
|  |
| NUEVA |
| 25 21:42 |
|  |
| CRECIENTE |

MONTEVIDEO

NOVIEMBRE 2009

| | |
|---|--|
| DIA HORA | |
| FASE | |
| 2 | |
| 16:14 | |
|  | |
| LLENA | |
| 9 | |
| 12:56 | |
|  | |
| MENGUANTE | |
| 16 | |
| 16:14 | |
|  | |
| NUEVA | |
| 24 | |
| 18:39 | |
|  | |
| CRECIENTE | |

| FECHA | SOL | | | | | | LUNA | | | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Naut. | Civil. | | | Civil. | Naut. | Astro. | | |
| Dom 1 | 04:09 | 04:43 | 05:16 | 05:43 | 19:15 | 19:42 | 20:15 | 20:49 | 18:22 | 04:33 |
| Lun 2 | 04:08 | 04:42 | 05:15 | 05:42 | 19:16 | 19:43 | 20:16 | 20:50 | 19:29 | 05:07 |
| Mar 3 | 04:07 | 04:41 | 05:14 | 05:41 | 19:17 | 19:44 | 20:17 | 20:51 | 20:38 | 05:47 |
| Mié 4 | 04:05 | 04:40 | 05:13 | 05:40 | 19:18 | 19:45 | 20:18 | 20:53 | 21:45 | 06:34 |
| Jue 5 | 04:04 | 04:39 | 05:12 | 05:39 | 19:19 | 19:46 | 20:19 | 20:54 | 22:47 | 07:30 |
| Vie 6 | 04:03 | 04:38 | 05:11 | 05:38 | 19:20 | 19:47 | 20:20 | 20:55 | 23:42 | 08:34 |
| Sáb 7 | 04:02 | 04:37 | 05:10 | 05:37 | 19:21 | 19:48 | 20:22 | 20:57 | >>>> | 09:43 |
| Dom 8 | 04:00 | 04:36 | 05:09 | 05:36 | 19:22 | 19:50 | 20:23 | 20:58 | 00:29 | 10:54 |
| Lun 9 | 03:59 | 04:35 | 05:08 | 05:35 | 19:23 | 19:51 | 20:24 | 20:59 | 01:09 | 12:04 |
| Mar 10 | 03:58 | 04:34 | 05:07 | 05:34 | 19:24 | 19:52 | 20:25 | 21:01 | 01:43 | 13:12 |
| Mié 11 | 03:57 | 04:33 | 05:06 | 05:34 | 19:25 | 19:53 | 20:26 | 21:02 | 02:15 | 14:18 |
| Jue 12 | 03:56 | 04:32 | 05:05 | 05:33 | 19:26 | 19:54 | 20:27 | 21:03 | 02:44 | 15:24 |
| Vie 13 | 03:55 | 04:31 | 05:04 | 05:32 | 19:27 | 19:55 | 20:29 | 21:05 | 03:14 | 16:29 |
| Sáb 14 | 03:54 | 04:30 | 05:04 | 05:31 | 19:28 | 19:56 | 20:30 | 21:06 | 03:45 | 17:34 |
| Dom 15 | 03:53 | 04:29 | 05:03 | 05:31 | 19:29 | 19:57 | 20:31 | 21:08 | 04:19 | 18:39 |
| Lun 16 | 03:52 | 04:28 | 05:02 | 05:30 | 19:30 | 19:58 | 20:32 | 21:09 | 04:57 | 19:43 |
| Mar 17 | 03:51 | 04:27 | 05:01 | 05:30 | 19:31 | 19:59 | 20:33 | 21:10 | 05:41 | 20:43 |
| Mié 18 | 03:50 | 04:27 | 05:01 | 05:29 | 19:32 | 20:00 | 20:35 | 21:12 | 06:29 | 21:38 |
| Jue 19 | 03:49 | 04:26 | 05:00 | 05:28 | 19:33 | 20:01 | 20:36 | 21:13 | 07:23 | 22:27 |
| Vie 20 | 03:48 | 04:25 | 05:00 | 05:28 | 19:34 | 20:02 | 20:37 | 21:14 | 08:19 | 23:08 |
| Sáb 21 | 03:47 | 04:24 | 04:59 | 05:27 | 19:35 | 20:03 | 20:38 | 21:16 | 09:17 | 23:44 |
| Dom 22 | 03:46 | 04:24 | 04:59 | 05:27 | 19:36 | 20:04 | 20:39 | 21:17 | 10:14 | <<<< |
| Lun 23 | 03:45 | 04:23 | 04:58 | 05:27 | 19:37 | 20:05 | 20:40 | 21:18 | 11:12 | 00:16 |
| Mar 24 | 03:45 | 04:23 | 04:58 | 05:26 | 19:38 | 20:06 | 20:42 | 21:20 | 12:08 | 00:44 |
| Mié 25 | 03:44 | 04:22 | 04:57 | 05:26 | 19:39 | 20:08 | 20:43 | 21:21 | 13:04 | 01:10 |
| Jue 26 | 03:43 | 04:21 | 04:57 | 05:25 | 19:40 | 20:09 | 20:44 | 21:22 | 14:02 | 01:36 |
| Vie 27 | 03:43 | 04:21 | 04:56 | 05:25 | 19:41 | 20:10 | 20:45 | 21:23 | 15:01 | 02:02 |
| Sáb 28 | 03:42 | 04:21 | 04:56 | 05:25 | 19:42 | 20:11 | 20:46 | 21:25 | 16:03 | 02:30 |
| Dom 29 | 03:42 | 04:20 | 04:56 | 05:25 | 19:43 | 20:12 | 20:47 | 21:26 | 17:09 | 03:01 |
| Lun 30 | 03:41 | 04:20 | 04:55 | 05:24 | 19:43 | 20:13 | 20:48 | 21:27 | 18:17 | 03:38 |

DICIEMBRE 2009

| | |
|---|--|
| DIA HORA | |
| FASE | |
| 2 | |
| 04:30 | |
|  | |
| LLENA | |
| 8 | |
| 21:13 | |
|  | |
| MENGUANTE | |
| 16 | |
| 09:02 | |
|  | |
| NUEVA | |
| 24 | |
| 14:36 | |
|  | |
| MENGUANTE | |
| 31 | |
| 16:13 | |
|  | |
| LLENA | |

| FECHA | SOL | | | | | | LUNA | | | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Naut. | Civil. | | | Civil. | Naut. | Astro. | | |
| Mar 1 | 03:41 | 04:19 | 04:55 | 05:24 | 19:44 | 20:13 | 20:49 | 21:28 | 19:26 | 04:22 |
| Mié 2 | 03:40 | 04:19 | 04:55 | 05:24 | 19:45 | 20:14 | 20:50 | 21:30 | 20:33 | 05:15 |
| Jue 3 | 03:40 | 04:19 | 04:55 | 05:24 | 19:46 | 20:15 | 20:51 | 21:31 | 21:33 | 06:18 |
| Vie 4 | 03:39 | 04:19 | 04:55 | 05:24 | 19:47 | 20:16 | 20:52 | 21:32 | 22:24 | 07:28 |
| Sáb 5 | 03:39 | 04:19 | 04:55 | 05:24 | 19:48 | 20:17 | 20:53 | 21:33 | 23:07 | 08:41 |
| Dom 6 | 03:39 | 04:18 | 04:55 | 05:24 | 19:49 | 20:18 | 20:54 | 21:34 | 23:45 | 09:53 |
| Lun 7 | 03:39 | 04:18 | 04:55 | 05:24 | 19:49 | 20:19 | 20:55 | 21:35 | >>>> | 11:04 |
| Mar 8 | 03:38 | 04:18 | 04:55 | 05:24 | 19:50 | 20:20 | 20:56 | 21:36 | 00:17 | 12:11 |
| Mié 9 | 03:38 | 04:18 | 04:55 | 05:24 | 19:51 | 20:21 | 20:57 | 21:37 | 00:47 | 13:17 |
| Jue 10 | 03:38 | 04:18 | 04:55 | 05:24 | 19:52 | 20:21 | 20:58 | 21:38 | 01:17 | 14:22 |
| Vie 11 | 03:38 | 04:18 | 04:55 | 05:24 | 19:53 | 20:22 | 20:59 | 21:39 | 01:47 | 15:26 |
| Sáb 12 | 03:38 | 04:18 | 04:55 | 05:25 | 19:53 | 20:23 | 20:59 | 21:40 | 02:20 | 16:30 |
| Dom 13 | 03:38 | 04:19 | 04:55 | 05:25 | 19:54 | 20:24 | 21:00 | 21:41 | 02:56 | 17:33 |
| Lun 14 | 03:38 | 04:19 | 04:55 | 05:25 | 19:55 | 20:24 | 21:01 | 21:41 | 03:36 | 18:34 |
| Mar 15 | 03:39 | 04:19 | 04:56 | 05:25 | 19:55 | 20:25 | 21:02 | 21:42 | 04:23 | 19:30 |
| Mié 16 | 03:39 | 04:19 | 04:56 | 05:26 | 19:56 | 20:26 | 21:02 | 21:43 | 05:14 | 20:21 |
| Jue 17 | 03:39 | 04:20 | 04:56 | 05:26 | 19:57 | 20:26 | 21:03 | 21:44 | 06:09 | 21:05 |
| Vie 18 | 03:39 | 04:20 | 04:57 | 05:26 | 19:57 | 20:27 | 21:04 | 21:44 | 07:07 | 21:43 |
| Sáb 19 | 03:40 | 04:20 | 04:57 | 05:27 | 19:58 | 20:27 | 21:04 | 21:45 | 08:05 | 22:16 |
| Dom 20 | 03:40 | 04:21 | 04:58 | 05:27 | 19:58 | 20:28 | 21:05 | 21:45 | 09:02 | 22:45 |
| Lun 21 | 03:41 | 04:21 | 04:58 | 05:28 | 19:59 | 20:28 | 21:05 | 21:46 | 09:59 | 23:12 |
| Mar 22 | 03:41 | 04:22 | 04:59 | 05:28 | 19:59 | 20:29 | 21:06 | 21:46 | 10:55 | 23:37 |
| Mié 23 | 03:42 | 04:22 | 04:59 | 05:29 | 20:00 | 20:29 | 21:06 | 21:47 | 11:50 | <<<< |
| Jue 24 | 03:42 | 04:23 | 05:00 | 05:29 | 20:00 | 20:30 | 21:07 | 21:47 | 12:47 | 00:02 |
| Vie 25 | 03:43 | 04:23 | 05:00 | 05:30 | 20:01 | 20:30 | 21:07 | 21:48 | 13:46 | 00:29 |
| Sáb 26 | 03:44 | 04:24 | 05:01 | 05:31 | 20:01 | 20:31 | 21:07 | 21:48 | 14:49 | 00:57 |
| Dom 27 | 03:44 | 04:25 | 05:01 | 05:31 | 20:01 | 20:31 | 21:07 | 21:48 | 15:54 | 01:31 |
| Lun 28 | 03:45 | 04:25 | 05:02 | 05:32 | 20:01 | 20:31 | 21:08 | 21:48 | 17:02 | 02:10 |
| Mar 29 | 03:46 | 04:26 | 05:03 | 05:32 | 20:02 | 20:31 | 21:08 | 21:48 | 18:10 | 02:58 |
| Mié 30 | 03:47 | 04:27 | 05:04 | 05:33 | 20:02 | 20:32 | 21:08 | 21:48 | 19:14 | 03:55 |
| Jue 31 | 03:48 | 04:28 | 05:04 | 05:34 | 20:02 | 20:32 | 21:08 | 21:48 | 20:11 | 05:03 |

CAPITULO 3

CORRECCIONES A APLICAR A LOS CREPUSCULOS, SALIDAS Y PUESTAS, DE SOL Y LUNA PARA LOS DISTINTOS PUNTOS DE LA REPUBLICA

3.1 INFORMACION PRELIMINAR

Los datos tabulados en el Capítulo anterior, fueron calculados para una latitud de 35° 00' Sur y una longitud de 56° 15' Oeste, lo cual permite utilizarlos para la ciudad de Montevideo sin necesidad de correcciones.

Los datos de Crepúsculos, Salidas y Puestas, deberán ser corregidos para aplicarlos a otros puntos de la República, no así las fases lunares, que son válidas para todo el territorio nacional.

Esta será una DOBLE CORRECCION, resultante de sumar (con los signos correspondientes), la corrección por diferencia de LATITUD y la corrección por diferencia de LONGITUD.

3.2 CORRECCION POR DIFERENCIA DE LATITUD

Este término se compone a su vez, de dos factores a ser multiplicados entre si:

3.2.1 COEFICIENTE DE CORRECCION POR DIFERENCIA DE LATITUD

Representa la diferencia existente entre la Latitud del punto considerado y la Latitud 35° 00' Sur, expresándola en grados y fracción decimal. Este coeficiente será POSITIVO para puntos que se ubiquen al NORTE de la latitud 35° 00' Sur.

A fines prácticos, este coeficiente ha sido tabulado para algunas localidades, y se ha representado en forma gráfica (ver. 3.5 y 3.6).

3.2.2 GRAFICO DE CORRECCION PARA EL SOL Y LA LUNA

En ambos gráficos (ver 3.7 y 3.8), se han representado los días del año a lo largo de un eje, y a ambos lados, se pueden leer las correcciones (en minutos) que corresponden por cada 1° (un grado) de diferencia de latitud.

Se utilizará la curva correspondiente según se trate de Salidas y Puestas de Sol, Crepúsculo Astronómico, Crepúsculo Náutico, Crepúsculo Civil o Salidas y Puestas de la Luna.

Sobre la IZQUIERDA aparecen las correcciones para salidas y comienzos de crepúsculos, y sobre la DERECHA las correcciones para las puestas y finalización de crepúsculo.

3.3 CORRECCION POR DIFERENCIA DE LONGITUD

Este término es equivalente a una corrección de 4 minutos por cada 1° (un grado) de diferencia de Longitud, del punto considerado, con respecto a la Longitud 56° 15' Oeste.

Esta corrección será POSITIVA para puntos que se ubiquen al OESTE de Montevideo, y NEGATIVA para los situados al ESTE.

A fines prácticos, esta corrección ha sido tabulada para algunas localidades, y se ha representado en forma gráfica (ver 3.5 y 3.6)

3.4 EJEMPLOS DE APLIC. DE LAS CORRECCIONES POR DIFERENCIAS DE LATITUD Y LONGITUD

EJEMPLO 1: Se desea calcular la hora de SALIDA de la LUNA en el CHUY para el día 15 de ENERO de 2009

| | |
|--|----------------|
| Coeficiente de corrección por diferencia de LATITUD (ver 3.5 ó 3.6) | 1.3 x |
| Del gráfico de correcciones para la LUNA para la SALIDA el día 15/1/2009 (ver 3.8) | <u>0 min</u> |
| CORRECCIÓN POR DIF. DE LATITUD | 0 min |
| CORRECCIÓN POR DIF. DE LONGITUD (ver 3.5 ó 3.6) | <u>-11 min</u> |
| CORRECCIÓN TOTAL | <u>-11 min</u> |
| Salida de la LUNA tabulada para MONTEVIDEO (15/1/2009) | 22:50 |
| Salida de la LUNA calculada para el CHUY (15/1/2009) | 22:39 |

EJEMPLO 2: Se desea calcular la hora de PUESTA del SOL en MINAS para el día 20 de ENERO de 2009

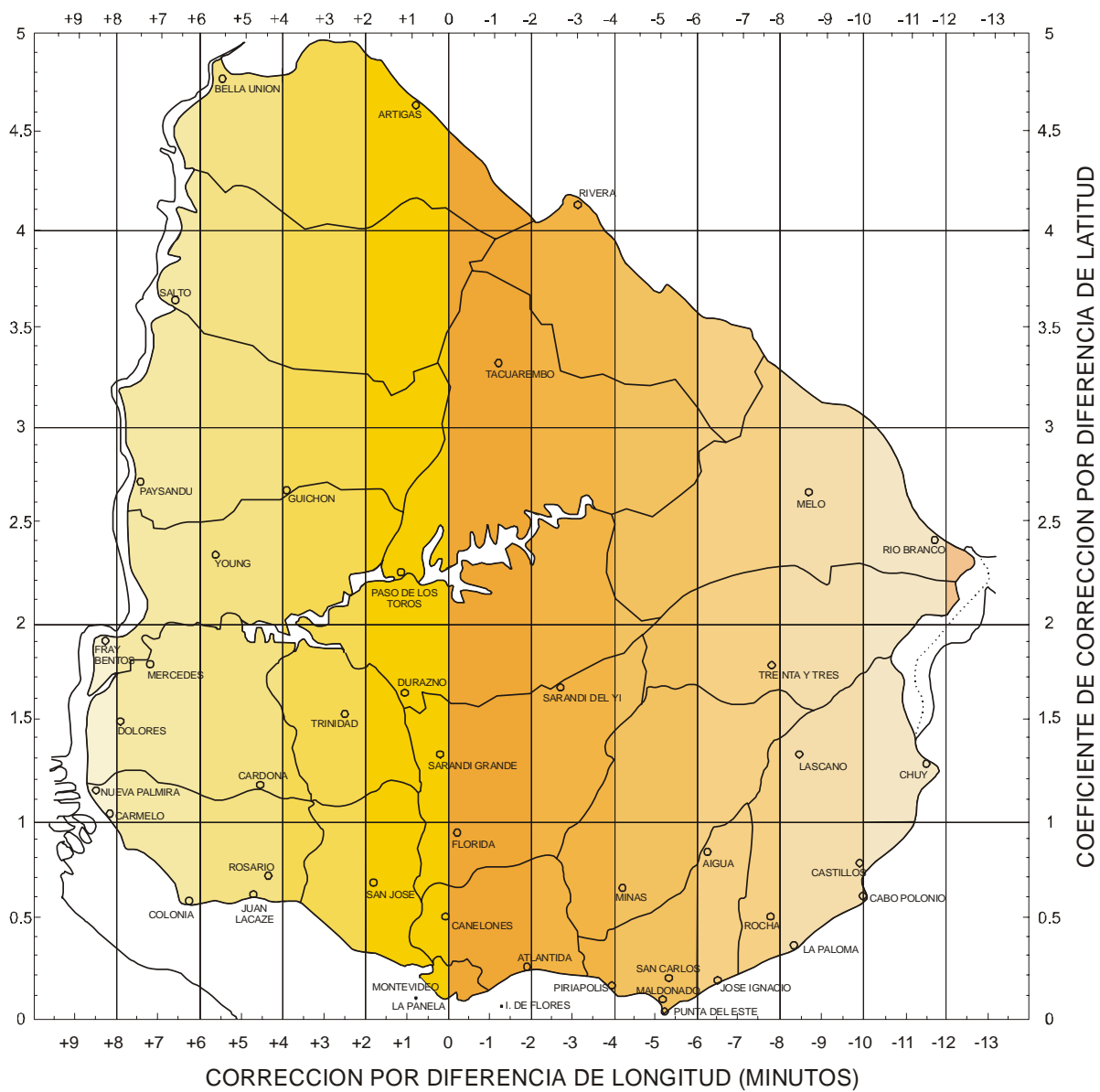
| | |
|---|-----------------|
| Coeficiente de corrección por diferencia de LATITUD (ver 3.5 ó 3.6) | 0.6 x |
| Del gráfico de correcciones para el SOL para la PUESTA el día 20/1/2009 (ver 3.7) | <u>-2 min</u> |
| CORRECCIÓN POR DIF. DE LATITUD | -1.2 min |
| CORRECCIÓN POR DIF. DE LONGITUD (ver 3.5 ó 3.6) | <u>-4.0 min</u> |
| CORRECCIÓN TOTAL | <u>-5.2 min</u> |
| Puesta del SOL tabulada para MONTEVIDEO (20/1/2009) | 20:00 |
| Puesta del SOL calculada para MINAS (20/1/2009) | 19:55 |

3.5 TABLA DE CORRECCIONES POR DIFERENCIA DE LATITUD Y LONGITUD

| LOCALIDAD | COEFICIENTE DE CORRECCION POR DIF. DE LATITUD | CORRECCION POR DIFERENCIA DE LONGITUD |
|------------------------------|---|---------------------------------------|
| ARTIGAS | 4.6 | + 1 |
| ATLANTIDA | 0.2 | - 2 |
| BELLA UNION | 4.8 | + 5 |
| CABO POLONIO | 0.6 | - 10 |
| CANELONES | 0.5 | 0* |
| CARMELO | 1.0 | + 8 |
| COLONIA | 0.6 | + 6 |
| CHUY | 1.3 | - 11 |
| DOLORES | 1.5 | + 8 |
| DURAZNO | 1.6 | + 1 |
| FLORIDA | 0.9 | 0* |
| FRAY BENTOS | 1.9 | + 8 |
| ISLA DE FLORES | 0.0* | - 1 |
| ISLA DE LOBOS | 0.0* | - 5 |
| JOSE IGNACIO | 0.2 | - 6 |
| JUAN LACAZE (Puerto Sauce) | 0.6 | + 5 |
| LA PALOMA (Cabo Santa María) | 0.3 | - 8 |
| LASCANO | 1.3 | - 8 |
| MELO | 2.6 | - 8 |
| MERCEDES | 1.7 | + 7 |
| MINAS | 0.6 | - 4 |
| NUEVA PALMIRA | 1.1 | + 9 |
| PASO DE LOS TOROS | 2.2 | + 1 |
| PAYSANDU | 2.7 | + 7 |
| PIRIAPOLIS | 0.1* | - 4 |
| PUNTA DEL ESTE | 0.0* | - 5 |
| RIO BRANCO | 2.4 | - 12 |
| RIVERA | 4.1 | - 3 |
| ROCHA | 0.5 | - 8 |
| ROSARIO | 0.7 | + 4 |
| SALTO | 3.6 | + 7 |
| SAN JOSE | 0.7 | + 2 |
| SARANDI DEL YI | 1.7 | - 3 |
| TACUAREMBO | 3.3 | - 1 |
| TREINTA Y TRES | 1.8 | - 8 |
| TRINIDAD | 1.5 | + 2 |
| YOUNG | 2.3 | + 6 |

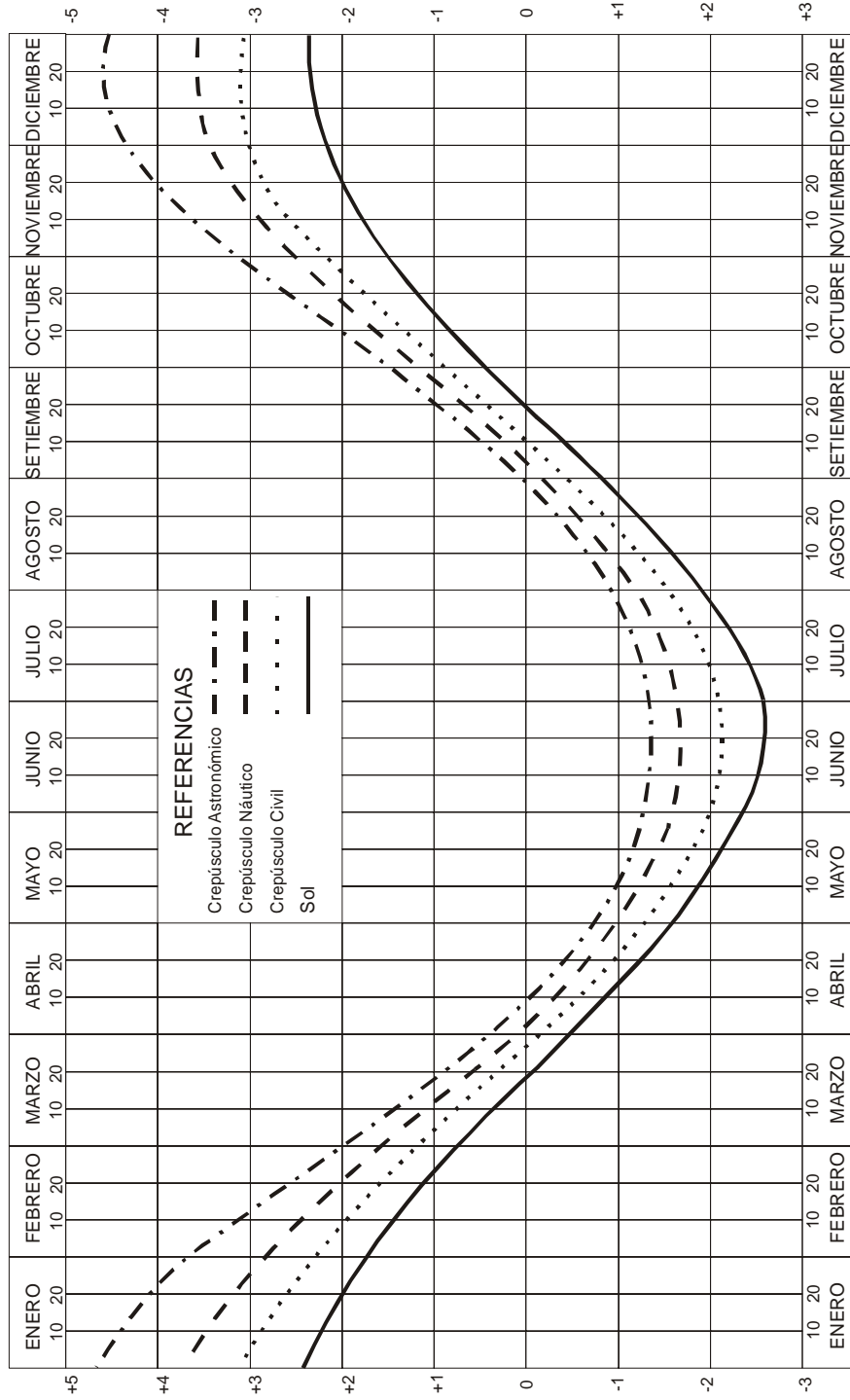
* Los valores indicados con asterisco, son de carácter informativo y es innecesaria su aplicación.

3.6 GRAFICO DE CORRECCIONES POR LATITUD Y LONGITUD



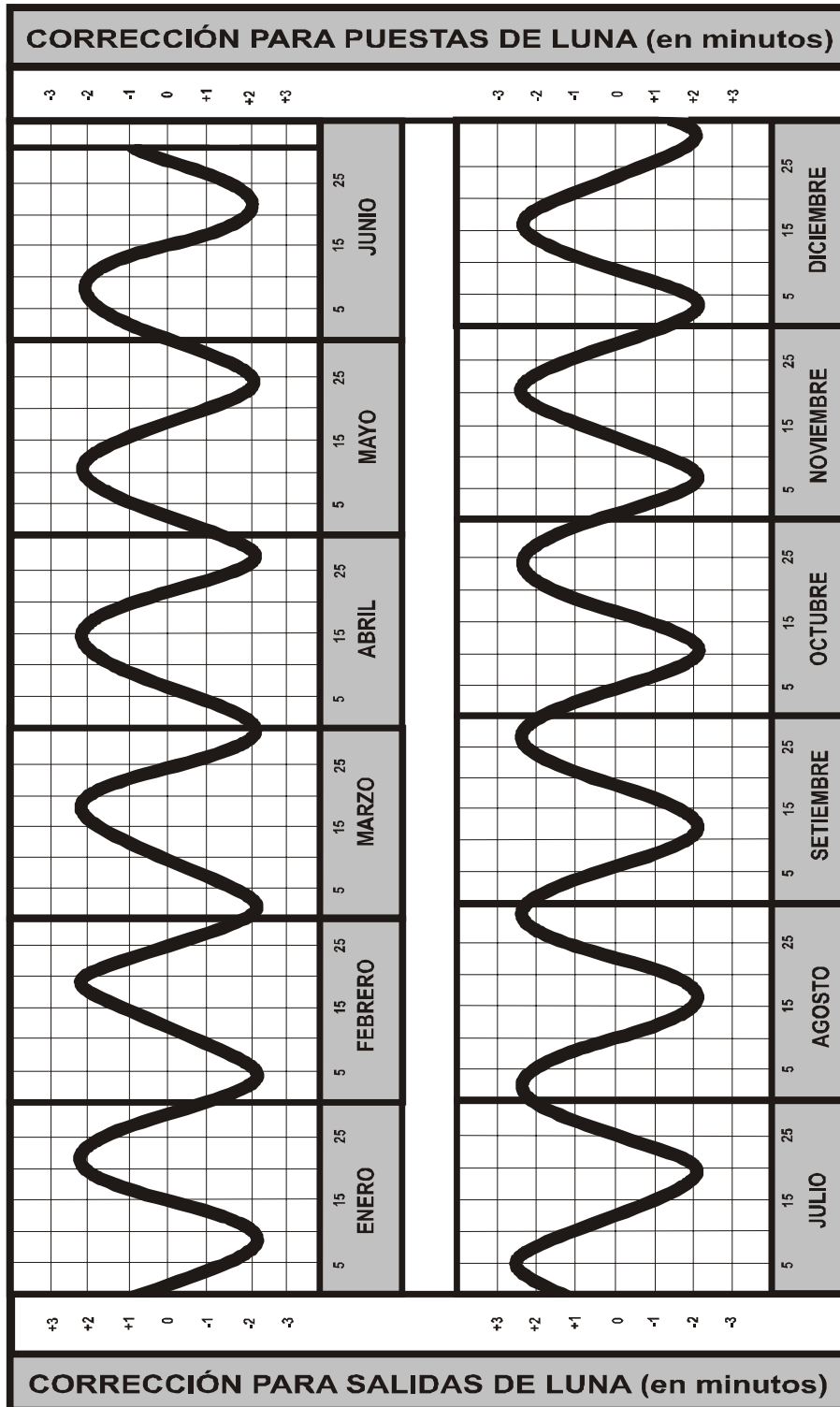
3.7 GRAFICO DE CORRECCIONES PARA EL SOL

Correcciones para la puesta y finalización de crepúsculo (en minutos)



Correcciones para la salida y comienzo de crepúsculo (en minutos)

3.8 GRAFICO DE CORRECCIONES PARA LA LUNA







CAPITULO 4
CALENDARIO DE CREPUSCULOS, SALIDAS Y PUESTAS DE SOL, LUNA Y FASES
LUNARES - ANTARTIDA

ANTARTIDA
(Base Científica Antártica Artigas)





ENERO 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | COMIENZO DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Jue 1 | | | | 03:11 | 22:46 | | | | 09:46 | 23:31 |
| Vie 2 | | | | 03:13 | 22:45 | | | | 11:16 | 23:28 |
| Sáb 3 | | | | 03:15 | 22:44 | | | | 12:48 | 23:25 |
| Dom 4 | | | | 03:17 | 22:43 | | | | 14:24 | 23:23 |
| Lun 5 | | | | 03:20 | 22:41 | | | | 16:09 | 23:21 |
| Mar 6 | | | | 03:22 | 22:40 | | | | 18:03 | 23:20 |
| Mié 7 | | | | 03:24 | 22:38 | | | | 20:07 | 23:24 |
| Jue 8 | | | | 03:27 | 22:37 | | | | 22:00 | 23:48 |
| Vie 9 | | | | 03:29 | 22:35 | | | | 22:42 | <<<< |
| Sáb 10 | | | | 03:32 | 22:33 | (00:53) | | | 22:48 | 01:27 |
| Dom 11 | | | 01:15 | 03:35 | 22:31 | (00:36) | | | 22:48 | 03:37 |
| Lun 12 | | | 01:32 | 03:37 | 22:29 | (00:26) | | | 22:47 | 05:42 |
| Mar 13 | | | 01:43 | 03:40 | 22:27 | (00:18) | | | 22:44 | 07:37 |
| Mié 14 | | | 01:52 | 03:43 | 22:25 | (00:11) | | | 22:42 | 09:23 |
| Jue 15 | | | 02:00 | 03:46 | 22:23 | (00:04) | | | 22:39 | 11:03 |
| Vie 16 | | | 02:07 | 03:49 | 22:20 | 23:58 | | | 22:37 | 12:39 |
| Sáb 17 | | | 02:14 | 03:51 | 22:18 | 23:52 | | | 22:35 | 14:13 |
| Dom 18 | | | 02:20 | 03:54 | 22:16 | 23:47 | | | 22:33 | 15:49 |
| Lun 19 | | | 02:26 | 03:57 | 22:13 | 23:42 | | | 22:33 | 17:27 |
| Mar 20 | | | 02:32 | 04:00 | 22:11 | 23:37 | | | 22:37 | 19:05 |
| Mié 21 | | | 02:37 | 04:03 | 22:08 | 23:32 | | | 22:53 | 20:34 |
| Jue 22 | | | 02:43 | 04:07 | 22:06 | 23:27 | | | 23:44 | 21:28 |
| Vie 23 | | | 02:48 | 04:10 | 22:03 | 23:23 | | | >>>> | 21:45 |
| Sáb 24 | | | 02:53 | 04:13 | 22:01 | 23:18 | | | 01:12 | 21:49 |
| Dom 25 | | | 02:58 | 04:16 | 21:58 | 23:14 | | | 02:49 | 21:49 |
| Lun 26 | | | 03:03 | 04:19 | 21:55 | 23:09 | | | 04:26 | 21:48 |
| Mar 27 | | | 03:08 | 04:22 | 21:53 | 23:05 | | | 06:00 | 21:46 |
| Mié 28 | | | 03:13 | 04:25 | 21:50 | 23:01 | | | 07:31 | 21:44 |
| Jue 29 | | | 03:17 | 04:28 | 21:47 | 22:57 | | | 09:01 | 21:41 |
| Vie 30 | | | 03:22 | 04:32 | 21:44 | 22:53 | | | 10:32 | 21:38 |
| Sáb 31 | | | 03:26 | 04:35 | 21:41 | 22:48 | | | 12:06 | 21:36 |

| |
|---|
| DIA HORA |
| FASE |
| 4 08:56 |
|  |
| CRECIENTE |
| 11 00:27 |
|  |
| LLENA |
| 17 23:46 |
|  |
| MENGUANTE |
| 26 04:55 |
|  |
| NUEVA |





FEBRERO 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|---------|---------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Dom 1 | | | 03:31 | 04:38 | 21:38 | 22:44 | | | 13:45 | 21:34 |
| Lun 2 | | | 03:35 | 04:41 | 21:36 | 22:40 | | | 15:33 | 21:32 |
| Mar 3 | | | 03:39 | 04:44 | 21:33 | 22:36 | | | 17:29 | 21:33 |
| Mié 4 | | | 03:44 | 04:47 | 21:30 | 22:32 | | | 19:27 | 21:43 |
| Jue 5 | | | 03:48 | 04:51 | 21:27 | 22:28 | (00:40) | | 20:43 | 22:42 |
| Vie 6 | | 01:41 | 03:52 | 04:54 | 21:24 | 22:24 | (00:24) | | 20:58 | <<<< |
| Sáb 7 | | 01:57 | 03:56 | 04:57 | 21:21 | 22:21 | (00:12) | | 21:00 | 00:41 |
| Dom 8 | | 02:09 | 04:00 | 05:00 | 21:18 | 22:17 | (00:02) | | 20:59 | 02:48 |
| Lun 9 | | 02:19 | 04:04 | 05:03 | 21:15 | 22:13 | 23:53 | | 20:57 | 04:48 |
| Mar 10 | | 02:28 | 04:08 | 05:06 | 21:12 | 22:09 | 23:45 | | 20:55 | 06:39 |
| Mié 11 | | 02:36 | 04:12 | 05:09 | 21:08 | 22:05 | 23:37 | | 20:53 | 08:24 |
| Jue 12 | | 02:43 | 04:15 | 05:12 | 21:05 | 22:01 | 23:31 | | 20:50 | 10:04 |
| Vie 13 | | 02:50 | 04:19 | 05:15 | 21:02 | 21:58 | 23:24 | | 20:48 | 11:42 |
| Sáb 14 | | 02:57 | 04:23 | 05:18 | 20:59 | 21:54 | 23:18 | | 20:46 | 13:20 |
| Dom 15 | | 03:03 | 04:27 | 05:21 | 20:56 | 21:50 | 23:12 | | 20:46 | 15:00 |
| Lun 16 | | 03:09 | 04:30 | 05:24 | 20:53 | 21:46 | 23:06 | | 20:48 | 16:39 |
| Mar 17 | | 03:14 | 04:34 | 05:27 | 20:50 | 21:43 | 23:00 | | 20:57 | 18:14 |
| Mié 18 | | 03:20 | 04:37 | 05:31 | 20:47 | 21:39 | 22:55 | | 21:33 | 19:25 |
| Jue 19 | | 03:25 | 04:41 | 05:34 | 20:43 | 21:35 | 22:49 | | 22:50 | 19:53 |
| Vie 20 | | 03:30 | 04:45 | 05:37 | 20:40 | 21:32 | 22:44 | | >>>> | 20:01 |
| Sáb 21 | | 03:35 | 04:48 | 05:40 | 20:37 | 21:28 | 22:39 | | 00:25 | 20:02 |
| Dom 22 | | 03:40 | 04:51 | 05:42 | 20:34 | 21:24 | 22:34 | (01:00) | 02:03 | 20:01 |
| Lun 23 | 01:19 | 03:45 | 04:55 | 05:45 | 20:31 | 21:21 | 22:29 | (00:31) | 03:38 | 19:59 |
| Mar 24 | 01:48 | 03:49 | 04:58 | 05:48 | 20:27 | 21:17 | 22:25 | (00:15) | 05:11 | 19:57 |
| Mié 25 | 02:03 | 03:54 | 05:02 | 05:51 | 20:24 | 21:13 | 22:20 | (00:03) | 06:42 | 19:55 |
| Jue 26 | 02:15 | 03:58 | 05:05 | 05:54 | 20:21 | 21:10 | 22:15 | 23:53 | 08:14 | 19:52 |
| Vie 27 | 02:25 | 04:02 | 05:08 | 05:57 | 20:18 | 21:06 | 22:11 | 23:44 | 09:48 | 19:50 |
| Sáb 28 | 02:33 | 04:06 | 05:11 | 06:00 | 20:14 | 21:03 | 22:06 | 23:36 | 11:27 | 19:48 |





| |
|---|
| DIA HORA |
| FASE |
| 2 20:13 |
|  |
| CRECIENTE |
| 9 11:49 |
|  |
| LLENA |
| 16 18:37 |
|  |
| MENGUANTE |
| 24 22:35 |
|  |
| NUEVA |

ANTARTIDA
(Base Científica Antártica Artigas)

MARZO 2009

| DIA HORA | FASE | FECHA | SOL | | | | | | LUNA | | | |
|---|------|--------|---------------------------|-------|--------|--------|--------|-------------------------------|-------|--------|--------|--------|
| | | | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | | | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| 4 04:46  CRECIENTE | | Dom 1 | 02:41 | 04:11 | 05:15 | 06:03 | 20:11 | 20:59 | 22:02 | 23:28 | 13:12 | 19:47 |
| 10 23:38  LLENA | | Lun 2 | 02:49 | 04:15 | 05:18 | 06:06 | 20:08 | 20:55 | 21:58 | 23:21 | 15:04 | 19:47 |
| 18 14:47  MENGUANTE | | Mar 3 | 02:55 | 04:19 | 05:21 | 06:09 | 20:05 | 20:52 | 21:53 | 23:14 | 17:00 | 19:53 |
| 26 13:06  NUEVA | | Mié 4 | 03:02 | 04:22 | 05:24 | 06:11 | 20:01 | 20:48 | 21:49 | 23:07 | 18:34 | 20:28 |
| | | Jue 5 | 03:08 | 04:26 | 05:27 | 06:14 | 19:58 | 20:45 | 21:45 | 23:01 | 19:05 | 22:07 |
| | | Vie 6 | 03:14 | 04:30 | 05:30 | 06:17 | 19:55 | 20:41 | 21:41 | 22:55 | 19:11 | 22:07 |
| | | Sáb 7 | 03:19 | 04:34 | 05:33 | 06:20 | 19:52 | 20:38 | 21:37 | 22:50 | 19:11 | 00:08 |
| | | Dom 8 | 03:24 | 04:37 | 05:36 | 06:23 | 19:48 | 20:34 | 21:33 | 22:44 | 19:10 | 02:07 |
| | | Lun 9 | 03:30 | 04:41 | 05:39 | 06:26 | 19:45 | 20:31 | 21:29 | 22:39 | 19:08 | 03:59 |
| | | Mar 10 | 03:34 | 04:44 | 05:42 | 06:28 | 19:42 | 20:27 | 21:25 | 22:33 | 19:06 | 05:44 |
| | | Mié 11 | 03:39 | 04:48 | 05:45 | 06:31 | 19:38 | 20:24 | 21:21 | 22:28 | 19:04 | 07:26 |
| | | Jue 12 | 03:44 | 04:51 | 05:48 | 06:34 | 19:35 | 20:20 | 21:17 | 22:23 | 19:02 | 09:05 |
| | | Vie 13 | 03:48 | 04:54 | 05:51 | 06:37 | 19:32 | 20:17 | 21:13 | 22:18 | 19:00 | 10:44 |
| | | Sáb 14 | 03:53 | 04:58 | 05:54 | 06:39 | 19:28 | 20:14 | 21:09 | 22:13 | 19:00 | 12:24 |
| | | Dom 15 | 03:57 | 05:01 | 05:57 | 06:42 | 19:25 | 20:10 | 21:05 | 22:09 | 19:01 | 14:06 |
| | | Lun 16 | 04:01 | 05:04 | 06:00 | 06:45 | 19:22 | 20:07 | 21:02 | 22:04 | 19:08 | 15:44 |
| | | Mar 17 | 04:05 | 05:07 | 06:03 | 06:48 | 19:19 | 20:03 | 20:58 | 22:00 | 19:31 | 17:08 |
| | | Mié 18 | 04:09 | 05:11 | 06:05 | 06:50 | 19:15 | 20:00 | 20:54 | 21:55 | 20:32 | 17:53 |
| | | Jue 19 | 04:13 | 05:14 | 06:08 | 06:53 | 19:12 | 19:57 | 20:51 | 21:51 | 22:01 | 18:08 |
| | | Vie 20 | 04:16 | 05:17 | 06:11 | 06:56 | 19:09 | 19:53 | 20:47 | 21:47 | 23:37 | 18:12 |
| | | Sáb 21 | 04:20 | 05:20 | 06:14 | 06:58 | 19:05 | 19:50 | 20:43 | 21:42 | 23:37 | 18:12 |
| | | Dom 22 | 04:24 | 05:23 | 06:17 | 07:01 | 19:02 | 19:47 | 20:40 | 21:38 | 01:12 | 18:11 |
| | | Lun 23 | 04:27 | 05:26 | 06:19 | 07:04 | 18:59 | 19:43 | 20:36 | 21:34 | 02:46 | 18:10 |
| | | Mar 24 | 04:31 | 05:29 | 06:22 | 07:06 | 18:56 | 19:40 | 20:33 | 21:30 | 04:17 | 18:08 |
| | | Mié 25 | 04:34 | 05:32 | 06:25 | 07:09 | 18:52 | 19:37 | 20:29 | 21:26 | 05:49 | 18:06 |
| | | Jue 26 | 04:38 | 05:35 | 06:27 | 07:12 | 18:49 | 19:33 | 20:26 | 21:22 | 07:23 | 18:04 |
| | | Vie 27 | 04:41 | 05:37 | 06:30 | 07:15 | 18:46 | 19:30 | 20:22 | 21:18 | 09:01 | 18:02 |
| | | Sáb 28 | 04:44 | 05:40 | 06:33 | 07:17 | 18:43 | 19:27 | 20:19 | 21:15 | 10:46 | 18:01 |
| | | Dom 29 | 04:47 | 05:43 | 06:36 | 07:20 | 18:39 | 19:23 | 20:16 | 21:11 | 12:38 | 18:02 |
| | | Lun 30 | 04:51 | 05:46 | 06:38 | 07:23 | 18:36 | 19:20 | 20:12 | 21:07 | 14:34 | 18:07 |
| | | Mar 31 | 04:54 | 05:49 | 06:41 | 07:25 | 18:33 | 19:17 | 20:09 | 21:03 | 16:17 | 18:32 |






ABRIL 2009

| DIA HORA | FASE | FECHA | SOL | | | | | | LUNA | | | |
|---|------|--------|---------------------------|-------|--------|--------|--------|-------------------------------|-------|--------|--------|--------|
| | | | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | | | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| 2 11:34  CRECIENTE | | Mié 1 | 04:57 | 05:51 | 06:43 | 07:28 | 18:29 | 19:14 | 20:06 | 21:00 | 17:07 | 19:52 |
| 9 11:56  LLENA | | Jue 2 | 05:00 | 05:54 | 06:46 | 07:31 | 18:26 | 19:11 | 20:02 | 20:56 | 17:19 | 21:46 |
| 17 10:36  MENGUANTE | | Vie 3 | 05:03 | 05:57 | 06:49 | 07:33 | 18:23 | 19:07 | 19:59 | 20:53 | 17:21 | 23:42 |
| 25 00:23  NUEVA | | Sáb 4 | 05:06 | 05:59 | 06:51 | 07:36 | 18:20 | 19:04 | 19:56 | 20:49 | 17:21 | 23:42 |
| | | Dom 5 | 05:08 | 06:02 | 06:54 | 07:39 | 18:17 | 19:01 | 19:53 | 20:46 | 17:20 | 01:32 |
| | | Lun 6 | 05:11 | 06:05 | 06:56 | 07:41 | 18:13 | 18:58 | 19:49 | 20:43 | 17:18 | 03:16 |
| | | Mar 7 | 05:14 | 06:07 | 06:59 | 07:44 | 18:10 | 18:55 | 19:46 | 20:39 | 17:16 | 04:56 |
| | | Mié 8 | 05:17 | 06:10 | 07:02 | 07:47 | 18:07 | 18:52 | 19:43 | 20:36 | 17:15 | 06:34 |
| | | Jue 9 | 05:20 | 06:13 | 07:04 | 07:49 | 18:04 | 18:49 | 19:40 | 20:33 | 17:14 | 08:11 |
| | | Vie 10 | 05:22 | 06:15 | 07:07 | 07:52 | 18:01 | 18:46 | 19:37 | 20:29 | 17:13 | 09:50 |
| | | Sáb 11 | 05:25 | 06:18 | 07:09 | 07:55 | 17:57 | 18:43 | 19:34 | 20:26 | 17:14 | 11:31 |
| | | Dom 12 | 05:28 | 06:20 | 07:12 | 07:57 | 17:54 | 18:40 | 19:31 | 20:23 | 17:20 | 13:11 |
| | | Lun 13 | 05:30 | 06:23 | 07:14 | 08:00 | 17:51 | 18:37 | 19:28 | 20:20 | 17:36 | 14:42 |
| | | Mar 14 | 05:33 | 06:25 | 07:17 | 08:03 | 17:48 | 18:34 | 19:25 | 20:17 | 18:21 | 15:44 |
| | | Mié 15 | 05:36 | 06:28 | 07:19 | 08:05 | 17:45 | 18:31 | 19:22 | 20:14 | 19:41 | 16:10 |
| | | Jue 16 | 05:38 | 06:30 | 07:22 | 08:08 | 17:42 | 18:28 | 19:19 | 20:11 | 21:13 | 16:19 |
| | | Vie 17 | 05:41 | 06:32 | 07:24 | 08:11 | 17:38 | 18:25 | 19:16 | 20:08 | 22:47 | 16:22 |
| | | Sáb 18 | 05:43 | 06:35 | 07:27 | 08:13 | 17:35 | 18:22 | 19:13 | 20:05 | 23:37 | 16:22 |
| | | Dom 19 | 05:46 | 06:37 | 07:29 | 08:16 | 17:32 | 18:19 | 19:11 | 20:02 | 00:20 | 16:21 |
| | | Lun 20 | 05:48 | 06:40 | 07:32 | 08:19 | 17:29 | 18:16 | 19:08 | 19:59 | 01:50 | 16:19 |
| | | Mar 21 | 05:50 | 06:42 | 07:34 | 08:21 | 17:26 | 18:13 | 19:05 | 19:57 | 03:21 | 16:18 |
| | | Mié 22 | 05:53 | 06:44 | 07:37 | 08:24 | 17:23 | 18:10 | 19:02 | 19:54 | 04:53 | 16:16 |
| | | Jue 23 | 05:55 | 06:47 | 07:39 | 08:27 | 17:20 | 18:07 | 19:00 | 19:51 | 06:29 | 16:14 |
| | | Vie 24 | 05:57 | 06:49 | 07:42 | 08:29 | 17:17 | 18:05 | 18:57 | 19:49 | 08:11 | 16:14 |
| | | Sáb 25 | 06:00 | 06:51 | 07:44 | 08:32 | 17:14 | 18:02 | 18:54 | 19:46 | 10:02 | 16:14 |
| | | Dom 26 | 06:02 | 06:54 | 07:46 | 08:35 | 17:11 | 17:59 | 18:52 | 19:43 | 11:58 | 16:19 |
| | | Lun 27 | 06:04 | 06:56 | 07:49 | 08:37 | 17:08 | 17:57 | 18:49 | 19:41 | 13:51 | 16:37 |
| | | Mar 28 | 06:06 | 06:58 | 07:51 | 08:40 | 17:05 | 17:54 | 18:47 | 19:38 | 15:02 | 17:39 |
| | | Mié 29 | 06:09 | 07:00 | 07:54 | 08:43 | 17:02 | 17:51 | 18:44 | 19:36 | 15:24 | 19:27 |
| | | Jue 30 | 06:11 | 07:03 | 07:56 | 08:46 | 16:59 | 17:49 | 18:42 | 19:33 | 15:30 | 21:23 |

ANTARTIDA
(Base Científica Antártica Artigas)





MAYO 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Vie 1 | 06:13 | 07:05 | 07:58 | 08:48 | 16:56 | 17:46 | 18:39 | 19:31 | 15:31 | 23:15 |
| Sáb 2 | 06:15 | 07:07 | 08:01 | 08:51 | 16:53 | 17:43 | 18:37 | 19:29 | 15:31 | <<<< |
| Dom 3 | 06:17 | 07:09 | 08:03 | 08:54 | 16:50 | 17:41 | 18:35 | 19:26 | 15:30 | 00:59 |
| Lun 4 | 06:19 | 07:11 | 08:05 | 08:56 | 16:48 | 17:38 | 18:32 | 19:24 | 15:28 | 02:38 |
| Mar 5 | 06:21 | 07:13 | 08:08 | 08:59 | 16:45 | 17:36 | 18:30 | 19:22 | 15:27 | 04:14 |
| Mié 6 | 06:23 | 07:15 | 08:10 | 09:01 | 16:42 | 17:33 | 18:28 | 19:20 | 15:26 | 05:49 |
| Jue 7 | 06:25 | 07:18 | 08:12 | 09:04 | 16:39 | 17:31 | 18:26 | 19:18 | 15:25 | 07:25 |
| Vie 8 | 06:27 | 07:20 | 08:15 | 09:07 | 16:37 | 17:29 | 18:24 | 19:16 | 15:26 | 09:03 |
| Sáb 9 | 06:29 | 07:22 | 08:17 | 09:09 | 16:34 | 17:26 | 18:21 | 19:14 | 15:31 | 10:42 |
| Dom 10 | 06:31 | 07:24 | 08:19 | 09:12 | 16:31 | 17:24 | 18:19 | 19:12 | 15:43 | 12:17 |
| Lun 11 | 06:33 | 07:26 | 08:21 | 09:15 | 16:29 | 17:22 | 18:17 | 19:10 | 16:16 | 13:32 |
| Mar 12 | 06:35 | 07:28 | 08:23 | 09:17 | 16:26 | 17:20 | 18:15 | 19:08 | 17:24 | 14:10 |
| Mié 13 | 06:37 | 07:30 | 08:26 | 09:20 | 16:23 | 17:17 | 18:13 | 19:06 | 18:53 | 14:25 |
| Jue 14 | 06:39 | 07:31 | 08:28 | 09:22 | 16:21 | 17:15 | 18:12 | 19:04 | 20:26 | 14:30 |
| Vie 15 | 06:41 | 07:33 | 08:30 | 09:25 | 16:18 | 17:13 | 18:10 | 19:02 | 21:57 | 14:31 |
| Sáb 16 | 06:42 | 07:35 | 08:32 | 09:27 | 16:16 | 17:11 | 18:08 | 19:01 | 23:27 | 14:31 |
| Dom 17 | 06:44 | 07:37 | 08:34 | 09:30 | 16:13 | 17:09 | 18:06 | 18:59 | >>>> | 14:30 |
| Lun 18 | 06:46 | 07:39 | 08:36 | 09:32 | 16:11 | 17:07 | 18:04 | 18:57 | 00:55 | 14:29 |
| Mar 19 | 06:47 | 07:41 | 08:38 | 09:35 | 16:09 | 17:05 | 18:03 | 18:56 | 02:24 | 14:27 |
| Mié 20 | 06:49 | 07:42 | 08:40 | 09:37 | 16:06 | 17:04 | 18:01 | 18:54 | 03:56 | 14:26 |
| Jue 21 | 06:51 | 07:44 | 08:42 | 09:40 | 16:04 | 17:02 | 18:00 | 18:53 | 05:34 | 14:25 |
| Vie 22 | 06:52 | 07:46 | 08:44 | 09:42 | 16:02 | 17:00 | 17:58 | 18:52 | 07:19 | 14:25 |
| Sáb 23 | 06:54 | 07:48 | 08:46 | 09:44 | 16:00 | 16:58 | 17:57 | 18:50 | 09:14 | 14:28 |
| Dom 24 | 06:55 | 07:49 | 08:48 | 09:47 | 15:58 | 16:57 | 17:55 | 18:49 | 11:11 | 14:39 |
| Lun 25 | 06:57 | 07:51 | 08:50 | 09:49 | 15:56 | 16:55 | 17:54 | 18:48 | 12:47 | 15:20 |
| Mar 26 | 06:58 | 07:52 | 08:51 | 09:51 | 15:54 | 16:54 | 17:53 | 18:46 | 13:27 | 16:56 |
| Mié 27 | 07:00 | 07:54 | 08:53 | 09:53 | 15:52 | 16:52 | 17:51 | 18:45 | 13:38 | 18:56 |
| Jue 28 | 07:01 | 07:55 | 08:55 | 09:55 | 15:50 | 16:51 | 17:50 | 18:44 | 13:41 | 20:52 |
| Vie 29 | 07:02 | 07:57 | 08:56 | 09:57 | 15:48 | 16:49 | 17:49 | 18:43 | 13:41 | 22:41 |
| Sáb 30 | 07:04 | 07:58 | 08:58 | 09:59 | 15:47 | 16:48 | 17:48 | 18:42 | 13:41 | <<<< |
| Dom 31 | 07:05 | 07:59 | 09:00 | 10:01 | 15:45 | 16:47 | 17:47 | 18:41 | 13:39 | 00:22 |

| DIA HORA |
|--|
| FASE |
| 1 17:44 |
|  CRECIENTE |
| 9 01:01 |
|  LLENA |
| 17 04:26 |
|  MENGUANTE |
| 24 09:11 |
|  NUEVA |
| 31 00:22 |
|  CRECIENTE |

JUNIO 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Lun 1 | 07:06 | 08:01 | 09:01 | 10:03 | 15:43 | 16:46 | 17:46 | 18:40 | 13:38 | 01:59 |
| Mar 2 | 07:07 | 08:02 | 09:02 | 10:05 | 15:42 | 16:44 | 17:45 | 18:40 | 13:37 | 03:34 |
| Mié 3 | 07:08 | 08:03 | 09:04 | 10:07 | 15:40 | 16:43 | 17:44 | 18:39 | 13:37 | 05:08 |
| Jue 4 | 07:09 | 08:04 | 09:05 | 10:09 | 15:39 | 16:42 | 17:43 | 18:38 | 13:37 | 06:44 |
| Vie 5 | 07:10 | 08:05 | 09:07 | 10:10 | 15:38 | 16:41 | 17:43 | 18:37 | 13:40 | 08:22 |
| Sáb 6 | 07:11 | 08:06 | 09:08 | 10:12 | 15:36 | 16:41 | 17:42 | 18:37 | 13:49 | 09:58 |
| Dom 7 | 07:12 | 08:07 | 09:09 | 10:13 | 15:35 | 16:40 | 17:41 | 18:36 | 14:14 | 11:20 |
| Lun 8 | 07:13 | 08:08 | 09:10 | 10:15 | 15:34 | 16:39 | 17:41 | 18:36 | 15:11 | 12:11 |
| Mar 9 | 07:14 | 08:09 | 09:11 | 10:16 | 15:33 | 16:38 | 17:40 | 18:35 | 16:34 | 12:31 |
| Mié 10 | 07:15 | 08:10 | 09:12 | 10:17 | 15:33 | 16:38 | 17:40 | 18:35 | 18:07 | 12:39 |
| Jue 11 | 07:16 | 08:11 | 09:13 | 10:19 | 15:32 | 16:37 | 17:39 | 18:35 | 19:39 | 12:41 |
| Vie 12 | 07:16 | 08:12 | 09:14 | 10:20 | 15:31 | 16:37 | 17:39 | 18:34 | 21:08 | 12:42 |
| Sáb 13 | 07:17 | 08:12 | 09:15 | 10:21 | 15:31 | 16:37 | 17:39 | 18:34 | 22:35 | 12:41 |
| Dom 14 | 07:18 | 08:13 | 09:15 | 10:22 | 15:30 | 16:36 | 17:39 | 18:34 | >>>> | 12:40 |
| Lun 15 | 07:18 | 08:14 | 09:16 | 10:22 | 15:30 | 16:36 | 17:38 | 18:34 | 00:02 | 12:38 |
| Mar 16 | 07:19 | 08:14 | 09:17 | 10:23 | 15:29 | 16:36 | 17:38 | 18:34 | 01:30 | 12:37 |
| Mié 17 | 07:19 | 08:15 | 09:17 | 10:24 | 15:29 | 16:36 | 17:38 | 18:34 | 03:02 | 12:36 |
| Jue 18 | 07:19 | 08:15 | 09:18 | 10:24 | 15:29 | 16:36 | 17:38 | 18:34 | 04:41 | 12:35 |
| Vie 19 | 07:20 | 08:15 | 09:18 | 10:25 | 15:29 | 16:36 | 17:39 | 18:34 | 06:29 | 12:37 |
| Sáb 20 | 07:20 | 08:16 | 09:18 | 10:25 | 15:29 | 16:36 | 17:39 | 18:34 | 08:25 | 12:42 |
| Dom 21 | 07:20 | 08:16 | 09:19 | 10:25 | 15:29 | 16:36 | 17:39 | 18:35 | 10:16 | 13:04 |
| Lun 22 | 07:21 | 08:16 | 09:19 | 10:26 | 15:30 | 16:37 | 17:39 | 18:35 | 11:25 | 14:15 |
| Mar 23 | 07:21 | 08:16 | 09:19 | 10:26 | 15:30 | 16:37 | 17:40 | 18:35 | 11:45 | 16:11 |
| Mié 24 | 07:21 | 08:16 | 09:19 | 10:26 | 15:31 | 16:37 | 17:40 | 18:36 | 11:51 | 18:14 |
| Jue 25 | 07:21 | 08:16 | 09:19 | 10:25 | 15:31 | 16:38 | 17:40 | 18:36 | 11:52 | 20:10 |
| Vie 26 | 07:21 | 08:16 | 09:19 | 10:25 | 15:32 | 16:39 | 17:41 | 18:36 | 11:52 | 21:58 |
| Sáb 27 | 07:21 | 08:16 | 09:18 | 10:25 | 15:33 | 16:39 | 17:42 | 18:37 | 11:51 | 23:39 |
| Dom 28 | 07:20 | 08:16 | 09:18 | 10:24 | 15:34 | 16:40 | 17:42 | 18:38 | 11:50 | <<<< |
| Lun 29 | 07:20 | 08:16 | 09:18 | 10:24 | 15:35 | 16:41 | 17:43 | 18:38 | 11:49 | 01:16 |
| Mar 30 | 07:20 | 08:15 | 09:17 | 10:23 | 15:36 | 16:42 | 17:44 | 18:39 | 11:48 | 02:52 |

| DIA HORA |
|--|
| FASE |
| 7 15:12 |
|  LLENA |
| 15 19:15 |
|  MENGUANTE |
| 22 16:35 |
|  NUEVA |
| 29 08:28 |
|  CRECIENTE |





ANTARTIDA
(Base Científica Antártica Artigas)

JULIO 2009

| |
|---|
| DIA HORA |
| FASE |
| 7 06:21 |
|  |
| LLENA |
| 15 06:53 |
|  |
| MENGUANTE |
| 21 23:35 |
|  |
| NUEVA |
| 28 19:00 |
|  |
| CRECIENTE |

| FECHA | SOL | | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|--|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta | |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | | |
| Mié 1 | 07:20 | 08:15 | 09:17 | 10:22 | 15:37 | 16:42 | 17:44 | 18:40 | 11:48 | 04:28 | |
| Jue 2 | 07:19 | 08:15 | 09:16 | 10:21 | 15:38 | 16:43 | 17:45 | 18:40 | 11:50 | 06:06 | |
| Vie 3 | 07:19 | 08:14 | 09:16 | 10:20 | 15:40 | 16:44 | 17:46 | 18:41 | 11:57 | 07:42 | |
| Sáb 4 | 07:18 | 08:13 | 09:15 | 10:19 | 15:41 | 16:44 | 17:47 | 18:42 | 12:15 | 09:10 | |
| Dom 5 | 07:18 | 08:13 | 09:14 | 10:18 | 15:42 | 16:47 | 17:48 | 18:43 | 13:00 | 10:11 | |
| Lun 6 | 07:17 | 08:12 | 09:13 | 10:17 | 15:44 | 16:48 | 17:49 | 18:44 | 14:18 | 10:39 | |
| Mar 7 | 07:17 | 08:11 | 09:12 | 10:16 | 15:46 | 16:49 | 17:50 | 18:45 | 15:49 | 10:49 | |
| Mié 8 | 07:16 | 08:11 | 09:11 | 10:15 | 15:47 | 16:50 | 17:51 | 18:46 | 17:21 | 10:53 | |
| Jue 9 | 07:15 | 08:10 | 09:10 | 10:13 | 15:49 | 16:52 | 17:52 | 18:47 | 18:52 | 10:54 | |
| Vie 10 | 07:14 | 08:09 | 09:09 | 10:12 | 15:51 | 16:53 | 17:54 | 18:48 | 20:19 | 10:53 | |
| Sáb 11 | 07:13 | 08:08 | 09:08 | 10:10 | 15:53 | 16:55 | 17:55 | 18:49 | 21:46 | 10:52 | |
| Dom 12 | 07:12 | 08:07 | 09:07 | 10:08 | 15:55 | 16:56 | 17:56 | 18:51 | 23:12 | 10:51 | |
| Lun 13 | 07:11 | 08:06 | 09:06 | 10:07 | 15:57 | 16:58 | 17:58 | 18:52 | >>>> | 10:49 | |
| Mar 14 | 07:10 | 08:05 | 09:04 | 10:05 | 15:59 | 16:59 | 17:59 | 18:53 | 00:41 | 10:48 | |
| Mié 15 | 07:09 | 08:03 | 09:03 | 10:03 | 16:01 | 17:01 | 18:00 | 18:54 | 02:14 | 10:47 | |
| Jue 16 | 07:08 | 08:02 | 09:01 | 10:01 | 16:03 | 17:03 | 18:02 | 18:56 | 03:55 | 10:47 | |
| Vie 17 | 07:07 | 08:01 | 09:00 | 09:59 | 16:05 | 17:04 | 18:03 | 18:57 | 05:44 | 10:50 | |
| Sáb 18 | 07:06 | 07:59 | 08:58 | 09:57 | 16:07 | 17:06 | 18:05 | 18:59 | 07:37 | 11:01 | |
| Dom 19 | 07:04 | 07:58 | 08:56 | 09:55 | 16:09 | 17:08 | 18:06 | 19:00 | 09:10 | 11:41 | |
| Lun 20 | 07:03 | 07:57 | 08:55 | 09:53 | 16:12 | 17:10 | 18:08 | 19:02 | 09:50 | 13:19 | |
| Mar 21 | 07:02 | 07:55 | 08:53 | 09:51 | 16:14 | 17:12 | 18:10 | 19:03 | 10:01 | 15:22 | |
| Mié 22 | 07:00 | 07:54 | 08:51 | 09:48 | 16:16 | 17:14 | 18:11 | 19:05 | 10:04 | 17:25 | |
| Jue 23 | 06:59 | 07:52 | 08:49 | 09:46 | 16:19 | 17:16 | 18:13 | 19:06 | 10:04 | 19:19 | |
| Vie 24 | 06:57 | 07:50 | 08:47 | 09:44 | 16:21 | 17:17 | 18:15 | 19:08 | 10:03 | 21:07 | |
| Sáb 25 | 06:56 | 07:49 | 08:46 | 09:41 | 16:24 | 17:19 | 18:16 | 19:10 | 10:02 | 22:49 | |
| Dom 26 | 06:54 | 07:47 | 08:44 | 09:39 | 16:26 | 17:21 | 18:18 | 19:11 | 10:01 | <<<< | |
| Lun 27 | 06:52 | 07:45 | 08:41 | 09:37 | 16:28 | 17:24 | 18:20 | 19:13 | 10:00 | 00:28 | |
| Mar 28 | 06:50 | 07:43 | 08:39 | 09:34 | 16:31 | 17:26 | 18:22 | 19:15 | 10:00 | 02:07 | |
| Mié 29 | 06:49 | 07:41 | 08:37 | 09:31 | 16:33 | 17:28 | 18:24 | 19:16 | 10:01 | 03:46 | |
| Jue 30 | 06:47 | 07:39 | 08:35 | 09:29 | 16:36 | 17:30 | 18:26 | 19:18 | 10:06 | 05:24 | |
| Vie 31 | 06:45 | 07:37 | 08:33 | 09:26 | 16:38 | 17:32 | 18:28 | 19:20 | 10:19 | 06:57 | |

AGOSTO 2009





| |
|---|
| DIA HORA |
| FASE |
| 5 21:55 |
|  |
| LLENA |
| 13 15:55 |
|  |
| MENGUANTE |
| 20 07:02 |
|  |
| NUEVA |
| 27 08:42 |
|  |
| CRECIENTE |

| FECHA | SOL | | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|--|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta | |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | | |
| Sáb 1 | 06:43 | 07:35 | 08:31 | 09:24 | 16:41 | 17:34 | 18:30 | 19:22 | 10:54 | 08:09 | |
| Dom 2 | 06:41 | 07:33 | 08:28 | 09:21 | 16:44 | 17:36 | 18:31 | 19:24 | 12:02 | 08:46 | |
| Lun 3 | 06:39 | 07:31 | 08:26 | 09:18 | 16:46 | 17:38 | 18:33 | 19:26 | 13:31 | 09:00 | |
| Mar 4 | 06:37 | 07:29 | 08:24 | 09:16 | 16:49 | 17:41 | 18:35 | 19:28 | 15:03 | 09:05 | |
| Mié 5 | 06:35 | 07:27 | 08:21 | 09:13 | 16:51 | 17:43 | 18:37 | 19:29 | 16:35 | 09:06 | |
| Jue 6 | 06:33 | 07:24 | 08:19 | 09:10 | 16:54 | 17:45 | 18:39 | 19:31 | 18:04 | 09:06 | |
| Vie 7 | 06:30 | 07:22 | 08:16 | 09:07 | 16:56 | 17:47 | 18:42 | 19:33 | 19:31 | 09:05 | |
| Sáb 8 | 06:28 | 07:20 | 08:14 | 09:04 | 16:59 | 17:50 | 18:44 | 19:35 | 20:57 | 09:04 | |
| Dom 9 | 06:26 | 07:18 | 08:11 | 09:02 | 17:02 | 17:52 | 18:46 | 19:37 | 22:25 | 09:02 | |
| Lun 10 | 06:24 | 07:15 | 08:09 | 08:59 | 17:04 | 17:54 | 18:48 | 19:40 | 23:56 | 09:01 | |
| Mar 11 | 06:21 | 07:13 | 08:06 | 08:56 | 17:07 | 17:56 | 18:50 | 19:42 | >>>> | 09:00 | |
| Mié 12 | 06:19 | 07:10 | 08:04 | 08:53 | 17:09 | 17:59 | 18:52 | 19:44 | 01:32 | 09:00 | |
| Jue 13 | 06:16 | 07:08 | 08:01 | 08:50 | 17:12 | 18:01 | 18:54 | 19:46 | 03:15 | 09:01 | |
| Vie 14 | 06:14 | 07:05 | 07:58 | 08:47 | 17:14 | 18:03 | 18:56 | 19:48 | 05:04 | 09:08 | |
| Sáb 15 | 06:11 | 07:03 | 07:55 | 08:44 | 17:17 | 18:06 | 18:59 | 19:50 | 06:47 | 09:31 | |
| Dom 16 | 06:09 | 07:00 | 07:53 | 08:41 | 17:20 | 18:08 | 19:01 | 19:52 | 07:49 | 10:41 | |
| Lun 17 | 06:06 | 06:58 | 07:50 | 08:38 | 17:22 | 18:10 | 19:03 | 19:55 | 08:08 | 12:33 | |
| Mar 18 | 06:03 | 06:55 | 07:47 | 08:35 | 17:25 | 18:13 | 19:05 | 19:57 | 08:14 | 14:34 | |
| Mié 19 | 06:01 | 06:52 | 07:44 | 08:32 | 17:28 | 18:15 | 19:07 | 19:59 | 08:16 | 16:32 | |
| Jue 20 | 05:58 | 06:49 | 07:42 | 08:29 | 17:30 | 18:17 | 19:10 | 20:01 | 08:16 | 18:24 | |
| Vie 21 | 05:55 | 06:47 | 07:39 | 08:26 | 17:33 | 18:20 | 19:12 | 20:04 | 08:15 | 20:10 | |
| Sáb 22 | 05:52 | 06:44 | 07:36 | 08:23 | 17:35 | 18:22 | 19:14 | 20:06 | 08:14 | 21:53 | |
| Dom 23 | 05:50 | 06:41 | 07:33 | 08:19 | 17:38 | 18:25 | 19:17 | 20:08 | 08:13 | 23:35 | |
| Lun 24 | 05:47 | 06:38 | 07:30 | 08:16 | 17:41 | 18:27 | 19:19 | 20:11 | 08:13 | <<<< | |
| Mar 25 | 05:44 | 06:35 | 07:27 | 08:13 | 17:43 | 18:29 | 19:21 | 20:13 | 08:14 | 01:16 | |
| Mié 26 | 05:41 | 06:33 | 07:24 | 08:10 | 17:46 | 18:32 | 19:24 | 20:16 | 08:17 | 02:57 | |
| Jue 27 | 05:38 | 06:30 | 07:21 | 08:07 | 17:48 | 18:34 | 19:26 | 20:18 | 08:27 | 04:34 | |
| Vie 28 | 05:35 | 06:27 | 07:18 | 08:04 | 17:51 | 18:37 | 19:28 | 20:20 | 08:53 | 05:57 | |
| Sáb 29 | 05:32 | 06:24 | 07:15 | 08:01 | 17:53 | 18:39 | 19:31 | 20:23 | 09:49 | 06:47 | |
| Dom 30 | 05:29 | 06:21 | 07:12 | 07:57 | 17:56 | 18:42 | 19:33 | 20:26 | 11:13 | 07:07 | |
| Lun 31 | 05:25 | 06:18 | 07:09 | 07:54 | 17:59 | 18:44 | 19:36 | 20:28 | 12:44 | 07:15 | |

ANTARTIDA
(Base Científica Antártica Artigas)



SETIEMBRE 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|--------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Mar 1 | 05:22 | 06:15 | 07:06 | 07:51 | 18:01 | 18:46 | 19:38 | 20:31 | 14:16 | 07:18 |
| Mié 2 | 05:19 | 06:11 | 07:03 | 07:48 | 18:04 | 18:49 | 19:40 | 20:33 | 15:46 | 07:18 |
| Jue 3 | 05:16 | 06:08 | 07:00 | 07:45 | 18:06 | 18:51 | 19:43 | 20:36 | 17:14 | 07:18 |
| Vie 4 | 05:12 | 06:05 | 06:57 | 07:41 | 18:09 | 18:54 | 19:45 | 20:39 | 18:41 | 07:17 |
| Sáb 5 | 05:09 | 06:02 | 06:54 | 07:38 | 18:11 | 18:56 | 19:48 | 20:41 | 20:09 | 07:16 |
| Dom 6 | 05:06 | 05:59 | 06:50 | 07:35 | 18:14 | 18:59 | 19:51 | 20:44 | 21:39 | 07:15 |
| Lun 7 | 05:02 | 05:56 | 06:47 | 07:32 | 18:17 | 19:01 | 19:53 | 20:47 | 23:14 | 07:14 |
| Mar 8 | 04:59 | 05:52 | 06:44 | 07:29 | 18:19 | 19:04 | 19:56 | 20:50 | >>>> | 07:14 |
| Mié 9 | 04:55 | 05:49 | 06:41 | 07:25 | 18:22 | 19:06 | 19:58 | 20:53 | 00:55 | 07:15 |
| Jue 10 | 04:52 | 05:46 | 06:38 | 07:22 | 18:24 | 19:09 | 20:01 | 20:56 | 02:40 | 07:20 |
| Vie 11 | 04:48 | 05:43 | 06:34 | 07:19 | 18:27 | 19:11 | 20:03 | 20:59 | 04:24 | 07:37 |
| Sáb 12 | 04:44 | 05:39 | 06:31 | 07:15 | 18:29 | 19:14 | 20:06 | 21:02 | 05:40 | 08:26 |
| Dom 13 | 04:41 | 05:36 | 06:28 | 07:12 | 18:32 | 19:16 | 20:09 | 21:05 | 06:13 | 10:02 |
| Lun 14 | 04:37 | 05:32 | 06:25 | 07:09 | 18:35 | 19:19 | 20:12 | 21:08 | 06:23 | 11:56 |
| Mar 15 | 04:33 | 05:29 | 06:21 | 07:06 | 18:37 | 19:22 | 20:14 | 21:11 | 06:26 | 13:52 |
| Mié 16 | 04:29 | 05:26 | 06:18 | 07:02 | 18:40 | 19:24 | 20:17 | 21:14 | 06:27 | 15:43 |
| Jue 17 | 04:25 | 05:22 | 06:15 | 06:59 | 18:42 | 19:27 | 20:20 | 21:17 | 06:27 | 17:29 |
| Vie 18 | 04:21 | 05:19 | 06:11 | 06:56 | 18:45 | 19:29 | 20:23 | 21:21 | 06:27 | 19:13 |
| Sáb 19 | 04:17 | 05:15 | 06:08 | 06:53 | 18:48 | 19:32 | 20:25 | 21:24 | 06:26 | 20:56 |
| Dom 20 | 04:13 | 05:11 | 06:05 | 06:49 | 18:50 | 19:35 | 20:28 | 21:27 | 06:26 | 22:39 |
| Lun 21 | 04:09 | 05:08 | 06:01 | 06:46 | 18:53 | 19:37 | 20:31 | 21:31 | 06:27 | <<<< |
| Mar 22 | 04:05 | 05:04 | 05:58 | 06:43 | 18:55 | 19:40 | 20:34 | 21:34 | 06:30 | 00:22 |
| Mié 23 | 04:01 | 05:01 | 05:55 | 06:39 | 18:58 | 19:43 | 20:37 | 21:38 | 06:37 | 02:02 |
| Jue 24 | 03:56 | 04:57 | 05:51 | 06:36 | 19:01 | 19:45 | 20:40 | 21:42 | 06:56 | 03:33 |
| Vie 25 | 03:52 | 04:53 | 05:48 | 06:33 | 19:03 | 19:48 | 20:43 | 21:46 | 07:41 | 04:38 |
| Sáb 26 | 03:47 | 04:50 | 05:45 | 06:29 | 19:06 | 19:51 | 20:46 | 21:50 | 08:55 | 05:10 |
| Dom 27 | 03:43 | 04:46 | 05:41 | 06:26 | 19:08 | 19:54 | 20:49 | 21:54 | 10:24 | 05:22 |
| Lun 28 | 03:38 | 04:42 | 05:38 | 06:23 | 19:11 | 19:56 | 20:53 | 21:58 | 11:55 | 05:27 |
| Mar 29 | 03:33 | 04:38 | 05:34 | 06:20 | 19:14 | 19:59 | 20:56 | 22:02 | 13:25 | 05:29 |
| Mié 30 | 03:28 | 04:34 | 05:31 | 06:16 | 19:16 | 20:02 | 20:59 | 22:06 | 14:53 | 05:30 |

| DIA HORA |
|---|
| FASE |
| 4 13:03 |
|  |
| LLENA |
| 11 23:16 |
|  |
| MENGUANTE |
| 18 15:44 |
|  |
| NUEVA |
| 26 01:50 |
|  |
| CRECIENTE |





OCTUBRE 2009

| FECHA | SOL | | | | | | | | LUNA | |
|--------|------------------------|-------|--------|--------|--------|----------------------------|-------|---------|--------|--------|
| | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| Jue 1 | 03:23 | 04:31 | 05:27 | 06:13 | 19:19 | 20:05 | 21:02 | 22:11 | 16:20 | 05:29 |
| Vie 2 | 03:18 | 04:27 | 05:24 | 06:10 | 19:22 | 20:08 | 21:06 | 22:15 | 17:48 | 05:28 |
| Sáb 3 | 03:13 | 04:23 | 05:20 | 06:06 | 19:24 | 20:11 | 21:09 | 22:20 | 19:18 | 05:28 |
| Dom 4 | 03:08 | 04:19 | 05:17 | 06:03 | 19:27 | 20:13 | 21:12 | 22:25 | 20:52 | 05:27 |
| Lun 5 | 03:02 | 04:15 | 05:13 | 06:00 | 19:30 | 20:16 | 21:16 | 22:30 | 22:32 | 05:27 |
| Mar 6 | 02:57 | 04:11 | 05:10 | 05:56 | 19:33 | 20:19 | 21:19 | 22:35 | >>>> | 05:29 |
| Mié 7 | 02:51 | 04:06 | 05:06 | 05:53 | 19:35 | 20:22 | 21:23 | 22:41 | 00:17 | 05:34 |
| Jue 8 | 02:45 | 04:02 | 05:03 | 05:50 | 19:38 | 20:25 | 21:27 | 22:47 | 02:02 | 05:47 |
| Vie 9 | 02:38 | 03:58 | 04:59 | 05:47 | 19:41 | 20:28 | 21:30 | 22:53 | 03:29 | 06:25 |
| Sáb 10 | 02:32 | 03:54 | 04:56 | 05:43 | 19:43 | 20:31 | 21:34 | 22:59 | 04:13 | 07:47 |
| Dom 11 | 02:24 | 03:50 | 04:52 | 05:40 | 19:46 | 20:34 | 21:38 | 23:06 | 04:29 | 09:35 |
| Lun 12 | 02:17 | 03:45 | 04:49 | 05:37 | 19:49 | 20:38 | 21:42 | 23:14 | 04:35 | 11:26 |
| Mar 13 | 02:09 | 03:41 | 04:45 | 05:34 | 19:52 | 20:41 | 21:46 | 23:22 | 04:38 | 13:15 |
| Mié 14 | 02:00 | 03:36 | 04:42 | 05:30 | 19:55 | 20:44 | 21:50 | 23:31 | 04:38 | 14:59 |
| Jue 15 | 01:51 | 03:32 | 04:38 | 05:27 | 19:57 | 20:47 | 21:54 | 23:42 | 04:38 | 16:40 |
| Vie 16 | 01:39 | 03:27 | 04:34 | 05:24 | 20:00 | 20:50 | 21:59 | 23:55 | 04:38 | 18:21 |
| Sáb 17 | 01:26 | 03:22 | 04:31 | 05:21 | 20:03 | 20:54 | 22:03 | (00:14) | 04:38 | 20:02 |
| Dom 18 | 01:06 | 03:17 | 04:27 | 05:17 | 20:06 | 20:57 | 22:08 | //// | 04:39 | 21:44 |
| Lun 19 | //// | 03:13 | 04:23 | 05:14 | 20:09 | 21:00 | 22:12 | //// | 04:42 | 23:26 |
| Mar 20 | //// | 03:08 | 04:20 | 05:11 | 20:12 | 21:03 | 22:17 | //// | 04:48 | <<<< |
| Mié 21 | //// | 03:03 | 04:16 | 05:08 | 20:15 | 21:07 | 22:22 | //// | 05:02 | 01:03 |
| Jue 22 | //// | 02:57 | 04:12 | 05:05 | 20:17 | 21:10 | 22:27 | //// | 05:36 | 02:20 |
| Vie 23 | //// | 02:52 | 04:09 | 05:01 | 20:20 | 21:14 | 22:32 | //// | 06:39 | 03:06 |
| Sáb 24 | //// | 02:46 | 04:05 | 04:58 | 20:23 | 21:17 | 22:38 | //// | 08:03 | 03:26 |
| Dom 25 | //// | 02:41 | 04:01 | 04:55 | 20:26 | 21:21 | 22:43 | //// | 09:33 | 03:34 |
| Lun 26 | //// | 02:35 | 03:57 | 04:52 | 20:29 | 21:24 | 22:49 | //// | 11:03 | 03:38 |
| Mar 27 | //// | 02:29 | 03:54 | 04:49 | 20:32 | 21:28 | 22:56 | //// | 12:31 | 03:39 |
| Mié 28 | //// | 02:22 | 03:50 | 04:46 | 20:35 | 21:32 | 23:02 | //// | 13:57 | 03:40 |
| Jue 29 | //// | 02:16 | 03:46 | 04:43 | 20:38 | 21:35 | 23:09 | //// | 15:23 | 03:39 |
| Vie 30 | //// | 02:09 | 03:42 | 04:39 | 20:41 | 21:39 | 23:17 | //// | 16:51 | 03:39 |
| Sáb 31 | //// | 02:01 | 03:39 | 04:36 | 20:44 | 21:43 | 23:25 | //// | 18:24 | 03:39 |






| DIA HORA |
|---|
| FASE |
| 4 03:10 |
|  |
| LLENA |
| 11 05:56 |
|  |
| MENGUANTE |
| 18 02:33 |
|  |
| NUEVA |
| 25 21:42 |
|  |
| CRECIENTE |

ANTARTIDA
(Base Científica Antártica Artigas)

NOVIEMBRE 2009

| DIA HORA FASE | FECHA | SOL | | | | | | | LUNA | | |
|---|--------|---------------------------|-------|--------|--------|--------|-------------------------------|---------|--------|--------|--------|
| | | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| 2 16:14  LLENA | Dom 1 | //// | 01:53 | 03:35 | 04:33 | 20:47 | 21:47 | 23:34 | //// | 20:02 | 03:39 |
| 9 12:56  MENGUANTE | Lun 2 | //// | 01:44 | 03:31 | 04:30 | 20:50 | 21:51 | 23:44 | //// | 21:47 | 03:40 |
| | Mar 3 | //// | 01:33 | 03:27 | 04:27 | 20:53 | 21:55 | 23:57 | //// | 23:34 | 03:45 |
| 16 16:14  NUEVA | Mié 4 | //// | 01:20 | 03:23 | 04:24 | 20:56 | 21:58 | (00:17) | //// | >>>> | 03:55 |
| | Jue 5 | //// | 01:01 | 03:19 | 04:21 | 20:59 | 22:02 | //// | //// | 01:11 | 04:25 |
| 24 18:39  CRECIENTE | Vie 6 | //// | //// | 03:15 | 04:18 | 21:02 | 22:07 | //// | //// | 02:11 | 05:35 |
| | Sáb 7 | //// | //// | 03:11 | 04:15 | 21:06 | 22:11 | //// | //// | 02:34 | 07:18 |
| | Dom 8 | //// | //// | 03:07 | 04:12 | 21:09 | 22:15 | //// | //// | 02:43 | 09:09 |
| | Lun 9 | //// | //// | 03:03 | 04:09 | 21:12 | 22:19 | //// | //// | 02:47 | 10:57 |
| | Mar 10 | //// | //// | 02:59 | 04:06 | 21:15 | 22:24 | //// | //// | 02:48 | 12:41 |
| | Mié 11 | //// | //// | 02:55 | 04:04 | 21:18 | 22:28 | //// | //// | 02:49 | 14:20 |
| | Jue 12 | //// | //// | 02:51 | 04:01 | 21:21 | 22:33 | //// | //// | 02:49 | 15:58 |
| | Vie 13 | //// | //// | 02:46 | 03:58 | 21:24 | 22:37 | //// | //// | 02:49 | 17:36 |
| | Sáb 14 | //// | //// | 02:42 | 03:55 | 21:27 | 22:42 | //// | //// | 02:50 | 19:15 |
| | Dom 15 | //// | //// | 02:38 | 03:52 | 21:30 | 22:47 | //// | //// | 02:52 | 20:55 |
| | Lun 16 | //// | //// | 02:34 | 03:50 | 21:33 | 22:51 | //// | //// | 02:57 | 22:33 |
| | Mar 17 | //// | //// | 02:29 | 03:47 | 21:36 | 22:56 | //// | //// | 03:08 | 24:00 |
| | Mié 18 | //// | //// | 02:25 | 03:44 | 21:39 | 23:01 | //// | //// | 03:33 | <<<< |
| | Jue 19 | //// | //// | 02:20 | 03:42 | 21:42 | 23:07 | //// | //// | 04:25 | 00:59 |
| | Vie 20 | //// | //// | 02:15 | 03:39 | 21:45 | 23:12 | //// | //// | 05:43 | 01:28 |
| | Sáb 21 | //// | //// | 02:10 | 03:37 | 21:48 | 23:17 | //// | //// | 07:11 | 01:41 |
| | Dom 22 | //// | //// | 02:05 | 03:34 | 21:51 | 23:23 | //// | //// | 08:41 | 01:46 |
| | Lun 23 | //// | //// | 02:00 | 03:32 | 21:54 | 23:29 | //// | //// | 10:09 | 01:49 |
| | Mar 24 | //// | //// | 01:55 | 03:30 | 21:57 | 23:35 | //// | //// | 11:34 | 01:50 |
| | Mié 25 | //// | //// | 01:49 | 03:27 | 22:00 | 23:42 | //// | //// | 12:59 | 01:50 |
| | Jue 26 | //// | //// | 01:43 | 03:25 | 22:03 | 23:49 | //// | //// | 14:24 | 01:49 |
| | Vie 27 | //// | //// | 01:37 | 03:23 | 22:06 | 23:57 | //// | //// | 15:53 | 01:49 |
| | Sáb 28 | //// | //// | 01:29 | 03:21 | 22:08 | (00:06) | //// | //// | 17:27 | 01:49 |
| | Dom 29 | //// | //// | 01:21 | 03:19 | 22:11 | (00:17) | //// | //// | 19:08 | 01:50 |
| | Lun 30 | //// | //// | 01:10 | 03:17 | 22:14 | (00:38) | //// | //// | 20:55 | 01:53 |

DICIEMBRE 2009

| DIA HORA FASE | FECHA | SOL | | | | | | | LUNA | | |
|---|--------|---------------------------|-------|--------|--------|--------|-------------------------------|-------|--------|--------|--------|
| | | COMIENZO DE CREPUSCULO | | | Salida | Puesta | FINALIZACION DE CREPUSCULO | | | Salida | Puesta |
| | | Astro. | Náut. | Civil. | | | Civil. | Náut. | Astro. | | |
| 2 04:30  LLENA | Mar 1 | //// | //// | 00:50 | 03:15 | 22:16 | //// | //// | //// | 22:41 | 02:01 |
| 8 21:13  MENGUANTE | Mié 2 | //// | //// | //// | 03:13 | 22:19 | //// | //// | //// | >>>> | 02:20 |
| | Jue 3 | //// | //// | //// | 03:11 | 22:21 | //// | //// | //// | 00:00 | 03:13 |
| 16 09:02  NUEVA | Vie 4 | //// | //// | //// | 03:10 | 22:24 | //// | //// | //// | 00:37 | 04:49 |
| | Sáb 5 | //// | //// | //// | 03:08 | 22:26 | //// | //// | //// | 00:51 | 06:43 |
| 24 14:36  MENGUANTE | Dom 6 | //// | //// | //// | 03:07 | 22:28 | //// | //// | //// | 00:56 | 08:36 |
| | Lun 7 | //// | //// | //// | 03:05 | 22:31 | //// | //// | //// | 00:59 | 10:23 |
| 31 16:13  LLENA | Mar 8 | //// | //// | //// | 03:04 | 22:33 | //// | //// | //// | 01:00 | 12:05 |
| | Mié 9 | //// | //// | //// | 03:03 | 22:35 | //// | //// | //// | 01:00 | 13:42 |
| | Jue 10 | //// | //// | //// | 03:02 | 22:37 | //// | //// | //// | 01:00 | 15:19 |
| | Vie 11 | //// | //// | //// | 03:01 | 22:38 | //// | //// | //// | 01:01 | 16:56 |
| | Sáb 12 | //// | //// | //// | 03:00 | 22:40 | //// | //// | //// | 01:02 | 18:34 |
| | Dom 13 | //// | //// | //// | 02:59 | 22:42 | //// | //// | //// | 01:06 | 20:12 |
| | Lun 14 | //// | //// | //// | 02:59 | 22:43 | //// | //// | //// | 01:15 | 21:43 |
| | Mar 15 | //// | //// | //// | 02:58 | 22:44 | //// | //// | //// | 01:33 | 22:52 |
| | Mié 16 | //// | //// | //// | 02:58 | 22:45 | //// | //// | //// | 02:14 | 23:30 |
| | Jue 17 | //// | //// | //// | 02:58 | 22:47 | //// | //// | //// | 03:24 | 23:48 |
| | Vie 18 | //// | //// | //// | 02:58 | 22:47 | //// | //// | //// | 04:50 | 23:55 |
| | Sáb 19 | //// | //// | //// | 02:58 | 22:48 | //// | //// | //// | 06:20 | 23:59 |
| | Dom 20 | //// | //// | //// | 02:58 | 22:49 | //// | //// | //// | 07:49 | <<<< |
| | Lun 21 | //// | //// | //// | 02:58 | 22:49 | //// | //// | //// | 09:15 | 00:00 |
| | Mar 22 | //// | //// | //// | 02:59 | 22:50 | //// | //// | //// | 10:38 | 00:01 |
| | Mié 23 | //// | //// | //// | 02:59 | 22:50 | //// | //// | //// | 12:02 | 00:00 |
| | Jue 24 | //// | //// | //// | 03:00 | 22:50 | //// | //// | //// | 13:27 | 00:00 |
| | Vie 25 | //// | //// | //// | 03:01 | 22:50 | //// | //// | //// | 14:56 | 24:00 |
| | Sáb 26 | //// | //// | //// | 03:02 | 22:50 | //// | //// | //// | 16:31 | 00:00 |
| | Dom 27 | //// | //// | //// | 03:03 | 22:50 | //// | //// | //// | 18:13 | 00:02 |
| | Lun 28 | //// | //// | //// | 03:05 | 22:49 | //// | //// | //// | 19:59 | 00:07 |
| | Mar 29 | //// | //// | //// | 03:06 | 22:49 | //// | //// | //// | 21:36 | 00:18 |
| | Mié 30 | //// | //// | //// | 03:08 | 22:48 | //// | //// | //// | 22:34 | 00:51 |
| | Jue 31 | //// | //// | //// | 03:09 | 22:47 | //// | //// | //// | 22:57 | 02:07 |

CAPITULO 5

ECLIPSE

5.1 ECLIPSE ANULAR DE SOL

| Evento | Mes | Día | Hora U.T. |
|-------------------------------------|-------|-----|-----------|
| Comienzo del Eclipse | Enero | 26 | 04:56.6 |
| Comienzo del Eclipse Central | | 26 | 06:05.8 |
| Eclipse Ctral. al mediodía aparente | | 26 | 07:46.4 |
| Fin del Eclipse Central | | 26 | 09:51.6 |
| Fin del Eclipse | | 26 | 11:00.7 |

VISIBILIDAD

Noroeste de Antártida, Australia, Sur de África, Sureste de Asia y Océano Índico.

5.2 ECLIPSE PENUMBRAL DE LUNA

| Evento | Mes | Día | Hora U.T. |
|------------------------|---------|-----|-----------|
| Luna entra en penumbra | Febrero | 9 | 12:36.8 |
| Medio del eclipse | | 9 | 14:38.2 |
| Luna sale de penumbra | | 9 | 16:39.6 |

VISIBILIDAD

Asia, Australia, Las Américas y Océano Pacífico.

5.3 ECLIPSE PENUMBRAL DE LUNA

| Evento | Mes | Día | Hora U.T. |
|------------------------|-------|-----|-----------|
| Luna entra en penumbra | Julio | 7 | 08:32.8 |
| Medio del eclipse | | 7 | 09:38.6 |
| Luna sale de penumbra | | 7 | 10:44.4 |

VISIBILIDAD

Australia, Las Américas y Océano Pacífico.

5.4 ECLIPSE TOTAL DE SOL

| Evento | Mes | Día | Hora U.T. |
|-------------------------------------|-------|-----|-----------|
| Comienzo del Eclipse | Julio | 21 | 23:58.3 |
| Comienzo del Eclipse Central | | 22 | 00:25.8 |
| Eclipse Ctral. al mediodía aparente | | 22 | 02:33.0 |
| Fin del Eclipse Central | | 22 | 04:17.8 |
| Fin del Eclipse | | 22 | 05:12.4 |

VISIBILIDAD

Asia y Oeste del Océano Pacífico.

5.5 ECLIPSE PENUMBRAL DE LUNA

| Evento | Mes | Día | Hora U.T. |
|------------------------|--------|-----|-----------|
| Luna entra en penumbra | Agosto | 5 | 23:01.0 |
| Medio del eclipse | | 6 | 00:39.2 |
| Luna sale de penumbra | | 6 | 02:17.4 |

VISIBILIDAD

Oeste de Asia, Este de América del Norte, América del Sur, África, Europa, Océano Atlántico y Océano Índico.

5.6 ECLIPSE PARCIAL DE LUNA

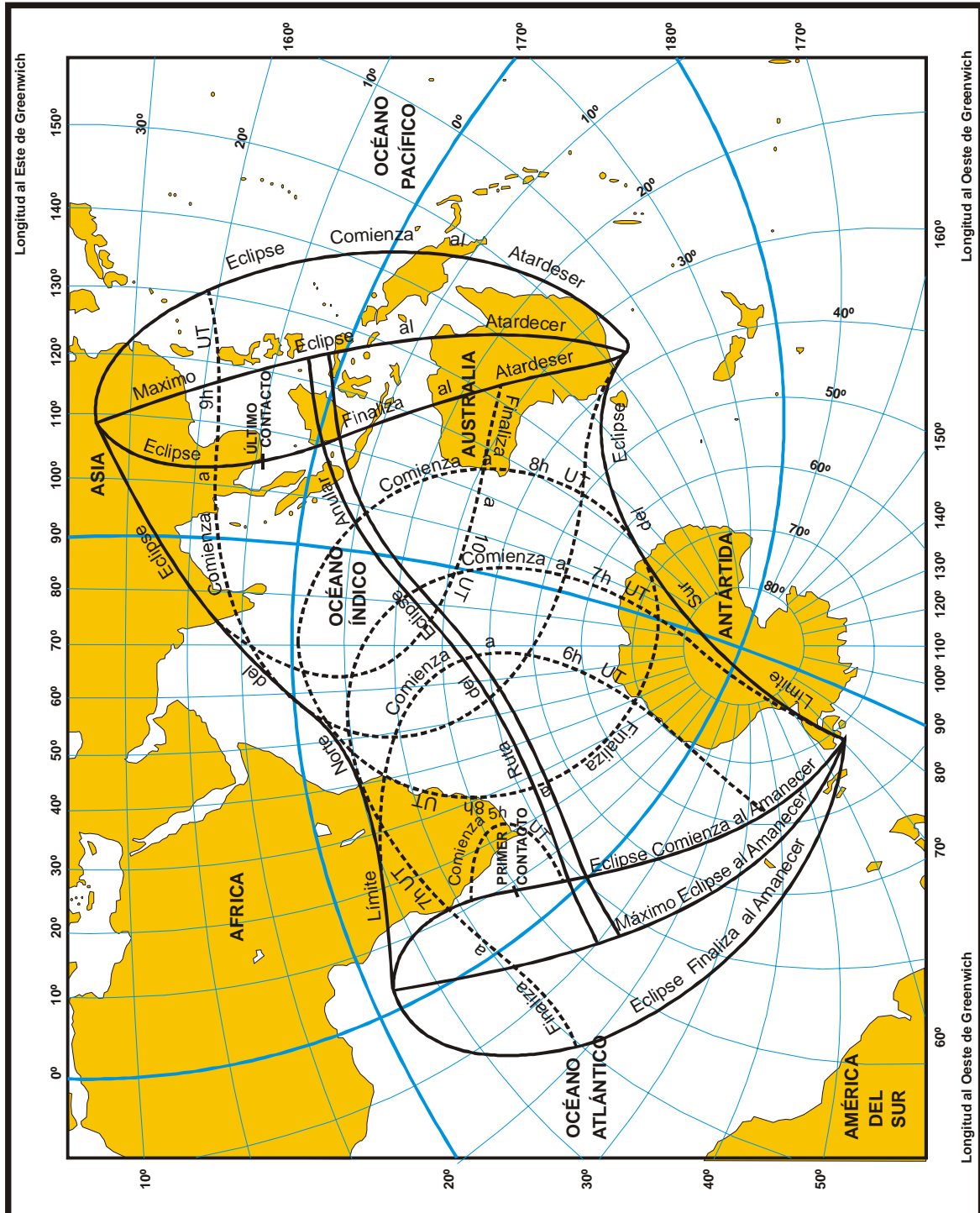
| Evento | Mes | Día | Hora U.T. |
|----------------------|-----------|-----|-----------|
| Comienzo del Eclipse | Diciembre | 31 | 18:51.6 |
| Máximo del Eclipse | | 31 | 19:22.7 |
| Fin del Eclipse | | 31 | 19:53.8 |

VISIBILIDAD

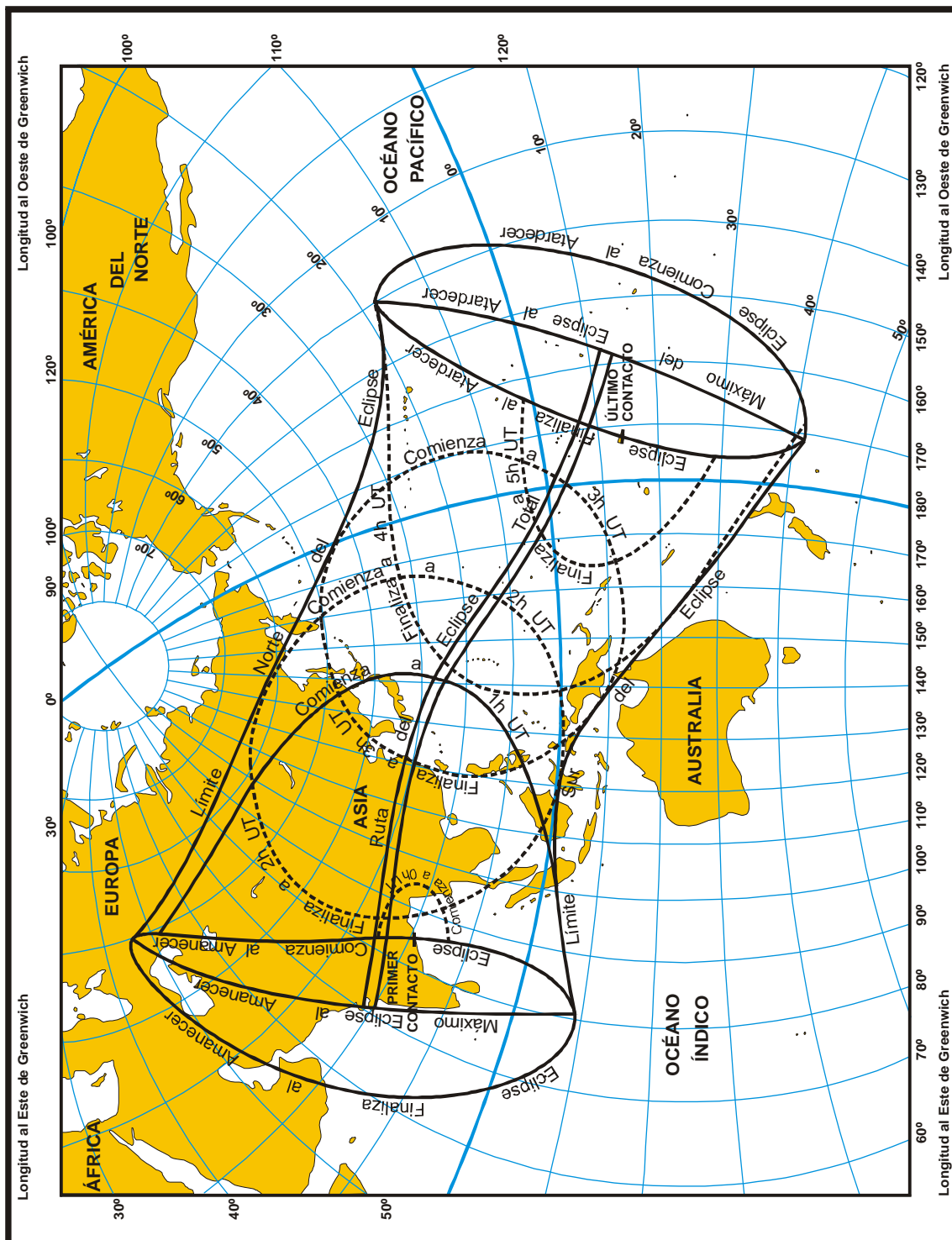
África, Europa, Asia, extremo Oeste de Australia y Océano Índico.

NOTA: U.T. Las fechas y horarios corresponden al TIEMPO INTERNACIONAL (Greenwich) de los fenómenos, no a su visibilidad desde el Territorio Nacional.

5.7 ECLIPSE ANULAR DE SOL DEL 26 DE ENERO DE 2009



5.8 ECLIPSE TOTAL DE SOL DEL 21-22 DE JULIO DE 2009



CAPITULO 6

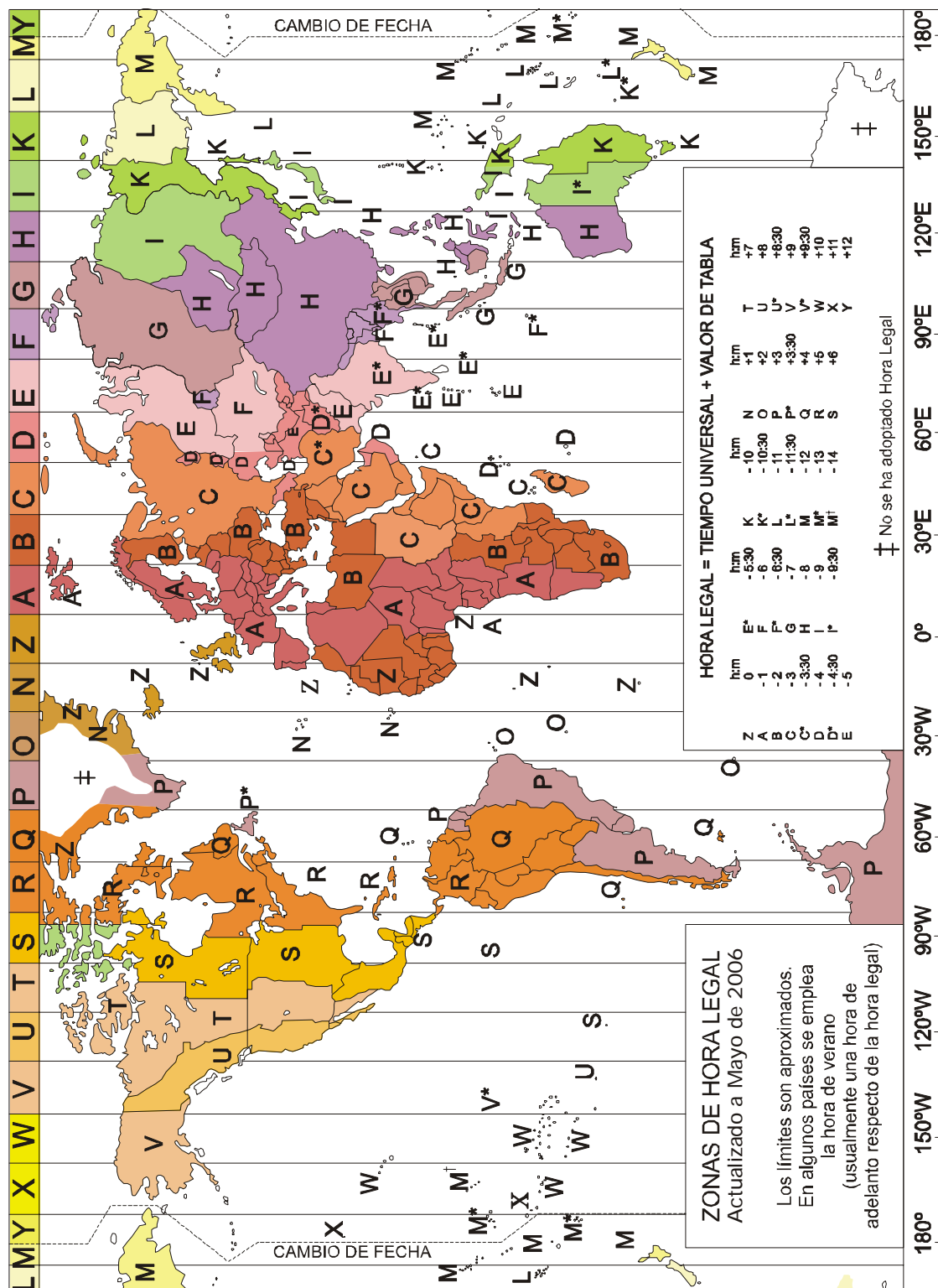
CALENDARIO Y HORA LEGAL EN EL MUNDO Y OFICIAL DEL URUGUAY

6.1 CALENDARIO AÑO 2009

Días de la semana y días del año

| Día | Enero | Febrero | Marzo | Día | Abril | Mayo | Junio | Día |
|-----|---------|---------|-----------|-----|---------|-----------|-----------|-----|
| 1 | Jue 1 | Dom 32 | Dom 60 | 1 | Mié 91 | Vie 121 | Lun 152 | 1 |
| 2 | Vie 2 | Lun 33 | Lun 61 | 2 | Jue 92 | Sáb 122 | Mar 153 | 2 |
| 3 | Sáb 3 | Mar 34 | Mar 62 | 3 | Vie 93 | Dom 123 | Mié 154 | 3 |
| 4 | Dom 4 | Mié 35 | Mié 63 | 4 | Sáb 94 | Lun 124 | Jue 155 | 4 |
| 5 | Lun 5 | Jue 36 | Jue 64 | 5 | Dom 95 | Mar 125 | Vie 156 | 5 |
| 6 | Mar 6 | Vie 37 | Vie 65 | 6 | Lun 96 | Mié 126 | Sáb 157 | 6 |
| 7 | Mié 7 | Sáb 38 | Sáb 66 | 7 | Mar 97 | Jue 127 | Dom 158 | 7 |
| 8 | Jue 8 | Dom 39 | Dom 67 | 8 | Mié 98 | Vie 128 | Lun 159 | 8 |
| 9 | Vie 9 | Lun 40 | Lun 68 | 9 | Jue 99 | Sáb 129 | Mar 160 | 9 |
| 10 | Sáb 10 | Mar 41 | Mar 69 | 10 | Vie 100 | Dom 130 | Mié 161 | 10 |
| 11 | Dom 11 | Mié 42 | Mié 70 | 11 | Sáb 101 | Lun 131 | Jue 162 | 11 |
| 12 | Lun 12 | Jue 43 | Jue 71 | 12 | Dom 102 | Mar 132 | Vie 163 | 12 |
| 13 | Mar 13 | Vie 44 | Vie 72 | 13 | Lun 103 | Mié 133 | Sáb 164 | 13 |
| 14 | Mié 14 | Sáb 45 | Sáb 73 | 14 | Mar 104 | Jue 134 | Dom 165 | 14 |
| 15 | Jue 15 | Dom 46 | Dom 74 | 15 | Mié 105 | Vie 135 | Lun 166 | 15 |
| 16 | Vie 16 | Lun 47 | Lun 75 | 16 | Jue 106 | Sáb 136 | Mar 167 | 16 |
| 17 | Sáb 17 | Mar 48 | Mar 76 | 17 | Vie 107 | Dom 137 | Mié 168 | 17 |
| 18 | Dom 18 | Mié 49 | Mié 77 | 18 | Sáb 108 | Lun 138 | Jue 169 | 18 |
| 19 | Lun 19 | Jue 50 | Jue 78 | 19 | Dom 109 | Mar 139 | Vie 170 | 19 |
| 20 | Mar 20 | Vie 51 | Vie 79 | 20 | Lun 110 | Mié 140 | Sáb 171 | 20 |
| 21 | Mié 21 | Sáb 52 | Sáb 80 | 21 | Mar 111 | Jue 141 | Dom 172 | 21 |
| 22 | Jue 22 | Dom 53 | Dom 81 | 22 | Mié 112 | Vie 142 | Lun 173 | 22 |
| 23 | Vie 23 | Lun 54 | Lun 82 | 23 | Jue 113 | Sáb 143 | Mar 174 | 23 |
| 24 | Sáb 24 | Mar 55 | Mar 83 | 24 | Vie 114 | Dom 144 | Mié 175 | 24 |
| 25 | Dom 25 | Mié 56 | Mié 84 | 25 | Sáb 115 | Lun 145 | Jue 176 | 25 |
| 26 | Lun 26 | Jue 57 | Jue 85 | 26 | Dom 116 | Mar 146 | Vie 177 | 26 |
| 27 | Mar 27 | Vie 58 | Vie 86 | 27 | Lun 117 | Mié 147 | Sáb 178 | 27 |
| 28 | Mié 28 | Sáb 59 | Sáb 87 | 28 | Mar 118 | Jue 148 | Dom 179 | 28 |
| 29 | Jue 29 | | Dom 88 | 29 | Mié 119 | Vie 149 | Lun 180 | 29 |
| 30 | Vie 30 | | Lun 89 | 30 | Jue 120 | Sáb 150 | Mar 181 | 30 |
| 31 | Sáb 31 | | Mar 90 | 31 | | Dom 151 | | 31 |
| Día | Julio | Agosto | Setiembre | Día | Octubre | Noviembre | Diciembre | Día |
| 1 | Mié 182 | Sáb 213 | Mar 244 | 1 | Jue 274 | Dom 305 | Mar 335 | 1 |
| 2 | Jue 183 | Dom 214 | Mié 245 | 2 | Vie 275 | Lun 306 | Mié 336 | 2 |
| 3 | Vie 184 | Lun 215 | Jue 246 | 3 | Sáb 276 | Mar 307 | Jue 337 | 3 |
| 4 | Sáb 185 | Mar 216 | Vie 247 | 4 | Dom 277 | Mié 308 | Vie 338 | 4 |
| 5 | Dom 186 | Mié 217 | Sáb 248 | 5 | Lun 278 | Jue 309 | Sáb 339 | 5 |
| 6 | Lun 187 | Jue 218 | Dom 249 | 6 | Mar 279 | Vie 310 | Dom 340 | 6 |
| 7 | Mar 188 | Vie 219 | Lun 250 | 7 | Mié 280 | Sáb 311 | Lun 341 | 7 |
| 8 | Mié 189 | Sáb 220 | Mar 251 | 8 | Jue 281 | Dom 312 | Mar 342 | 8 |
| 9 | Jue 190 | Dom 221 | Mié 252 | 9 | Vie 282 | Lun 313 | Mié 343 | 9 |
| 10 | Vie 191 | Lun 222 | Jue 253 | 10 | Sáb 283 | Mar 314 | Jue 344 | 10 |
| 11 | Sáb 192 | Mar 223 | Vie 254 | 11 | Dom 284 | Mié 315 | Vie 345 | 11 |
| 12 | Dom 193 | Mié 224 | Sáb 255 | 12 | Lun 285 | Jue 316 | Sáb 346 | 12 |
| 13 | Lun 194 | Jue 225 | Dom 256 | 13 | Mar 286 | Vie 317 | Dom 347 | 13 |
| 14 | Mar 195 | Vie 226 | Lun 257 | 14 | Mié 287 | Sáb 318 | Lun 348 | 14 |
| 15 | Mié 196 | Sáb 227 | Mar 258 | 15 | Jue 288 | Dom 319 | Mar 349 | 15 |
| 16 | Jue 197 | Dom 228 | Mié 259 | 16 | Vie 289 | Lun 320 | Mié 350 | 16 |
| 17 | Vie 198 | Lun 229 | Jue 260 | 17 | Sáb 290 | Mar 321 | Jue 351 | 17 |
| 18 | Sáb 199 | Mar 230 | Vie 261 | 18 | Dom 291 | Mié 322 | Vie 352 | 18 |
| 19 | Dom 200 | Mié 231 | Sáb 262 | 19 | Lun 292 | Jue 323 | Sáb 353 | 19 |
| 20 | Lun 201 | Jue 232 | Dom 263 | 20 | Mar 293 | Vie 324 | Dom 354 | 20 |
| 21 | Mar 202 | Vie 233 | Lun 264 | 21 | Mié 294 | Sáb 325 | Lun 355 | 21 |
| 22 | Mié 203 | Sáb 234 | Mar 265 | 22 | Jue 295 | Dom 326 | Mar 356 | 22 |
| 23 | Jue 204 | Dom 235 | Mié 266 | 23 | Vie 296 | Lun 327 | Mié 357 | 23 |
| 24 | Vie 205 | Lun 236 | Jue 267 | 24 | Sáb 297 | Mar 328 | Jue 358 | 24 |
| 25 | Sáb 206 | Mar 237 | Vie 268 | 25 | Dom 298 | Mié 329 | Vie 359 | 25 |
| 26 | Dom 207 | Mié 238 | Sáb 269 | 26 | Lun 299 | Jue 330 | Sáb 360 | 26 |
| 27 | Lun 208 | Jue 239 | Dom 270 | 27 | Mar 300 | Vie 331 | Dom 361 | 27 |
| 28 | Mar 209 | Vie 240 | Lun 271 | 28 | Mié 301 | Sáb 332 | Lun 362 | 28 |
| 29 | Mié 210 | Sáb 241 | Mar 272 | 29 | Jue 302 | Dom 333 | Mar 363 | 29 |
| 30 | Jue 211 | Dom 242 | Mié 273 | 30 | Vie 303 | Lun 334 | Mié 364 | 30 |
| 31 | Vie 212 | Lun 243 | | 31 | Sáb 304 | | Jue 365 | 31 |

6.2 GRAFICO DE LAS ZONAS DE HORA LEGAL



6.3 HORA OFICIAL EN EL URUGUAY DESDE SU IMPLANTACION EN 1908

| DESDE : | HASTA : | HUSO HORARIO | LEY O DECRETO | |
|-------------|-------------|------------------|----------------------------------|-------------|
| 27-Jun-1908 | 30-Abr-1920 | | Dto.Reglamentario de Ley Nº 3290 | 12-Jun-1908 |
| 1-May-1920 | 30-Sep-1923 | +4h.* | Ley Nº 7200 | 26-Abr-1920 |
| 1-Ago-1923 | 31-Mar-1926 | +3h. VERANO | Ley Nº 7594 | 28-Jun-1923 |
| | | +3h.30m.INVIERNO | | |
| 1-Abr-1926 | 28-Oct-1933 | +3h.30m. | Ley Nº 7919 | 5-Mar-1926 |
| 29-Oct-1933 | 30-Sep-1939 | +3h. VERANO | Ley Nº 9122 | 23-Oct-1933 |
| | | +3h.30m.INVIERNO | | |
| 1-Oct-1939 | 30-Mar-1940 | +3h. | Dto.Nº 439 del MDN | 22-Sep-1939 |
| 31-Mar-1940 | 26-Oct-1940 | +3h.30m. | | |
| 27-Oct-1940 | 29-Mar-1941 | +3h. | | |
| 30-Mar-1941 | 31-Jul-1941 | +3h.30m. | | |
| 1-Ago-1941 | 13-Dic-1942 | +3h. | Dto.Nº 1145 del MDN | 26-Jul-1941 |
| 14-Dic-1942 | 13-Mar-1943 | +2h.30m. | Dto.Nº 1866 del MDN | 9-Dic-1942 |
| 14-Mar-1943 | 23-May-1959 | +3h. | Dto.Nº 2130 del MDN | 11-Mar-1943 |
| 24-May-1959 | 14-Nov-1959 | +2h.30m. | Dto.Nº 24233 del MDN | 21-May-1959 |
| 15-Nov-1959 | 16-Ene-1960 | +3h. | Dto. del MDN | 5-Nov-1959 |
| 17-Ene-1960 | 5-Mar-1960 | +2h. | Dto. del MDN | 15-Ene-1960 |
| 6-Mar-1960 | 3-Abr-1965 | +3h. | Dto.Nº 24313 del MDN | 25-Feb-1960 |
| 4-Abr-1965 | 25-Sep-1965 | +2h. | Dto.Nº 123/965 del PE | 1-Abr-1965 |
| 26-Sep-1965 | 26-May-1968 | +3h. | Dto.Nº 420/965 del PE | 23-Sep-1965 |
| 27-May-1968 | 30-Nov-1968 | +2h.30m. | Dto.Nº 321/968 del PE | 25-May-1968 |
| 1-Dic-1968 | 24-Abr-1970 | +3h. | Dto.Nº 711/968 del PE | 21-Nov-1968 |
| 25-Abr-1970 | 13-Jun-1970 | +2h. | Dto.Nº 188/970 del PE | 23-Abr-1970 |
| 14-Jun-1970 | 22-Abr-1972 | +3h. | Dto.Nº 280/970 del PE | 12-Jun-1970 |
| 23-Abr-1972 | 15-Jul-1972 | +2h. | Dto.Nº 296/972 del PE | 20-Abr-1972 |
| 16-Jul-1972 | 12-Ene-1974 | +3h. | Dto.Nº 498/972 del PE | 13-Jun-1972 |
| 13-Ene-1974 | 9-Mar-1974 | +1h.30m. | Dto.Nº 29/974 del PE | 11-Ene-1974 |
| 10-Mar-1974 | 31-Ago-1974 | +2h.30m. | Dto.Nº 163/974 del PE | 4-Mar-1974 |
| 1-Sep-1974 | 21-Dic-1974 | +3h. | Dto.Nº 679/974 del PE | 29-Ago-1974 |
| 22-Dic-1974 | 29-Mar-1975 | +2h. | Dto.Nº 1015/974 del PE | 17-Dic-1974 |
| 30-Mar-1975 | 18-Dic-1976 | +3h. | Dto.Nº 239/975 del PE | 20-Mar-1975 |
| 19-Dic-1976 | 5-Mar-1977 | +2h. | Dto.Nº 777/976 del PE | 30-Nov-1976 |
| 6-Mar-1977 | 3-Dic-1977 | +3h. | Dto.Nº 112/977 del PE | 28-Feb-1977 |
| 4-Dic-1977 | 4-Mar-1978 | +2h. | Dto.Nº 664/977 del PE | 28-Nov-1977 |
| 5-Mar-1978 | 16-Dic-1978 | +3h. | Dto.Nº 321/968 del PE | 23-Feb-1978 |
| 17-Dic-1978 | 3-Mar-1979 | +2h. | Dto.Nº 670/978 del PE | 30-Nov-1978 |
| 4-Mar-1979 | 28-Abr-1979 | +3h. | Dto.Nº 107/979 del PE | 16-Feb-1979 |
| 29-Abr-1979 | 15-Mar-1980 | +2h. | Dto.Nº 223/979 del PE | 25-Abr-1979 |
| 16-Mar-1980 | 13-Dic-1987 | +3h. | Dto.Nº 110/980 del PE | 14-Feb-1980 |
| 14-Dic-1987 | 27-Feb-1988 | +2h. | Dto.Nº 725/987 del PE | 4-Dic-1987 |
| 28-Feb-1988 | 10-Dic-1988 | +3h. | Dto.Nº 191/988 del PE | 19-Feb-1988 |
| 11-Dic-1988 | 4-Mar-1989 | +2h. | Dto.Nº 822/988 del PE | 6-Dic-1988 |
| 5-Mar-1989 | 28-Oct-1989 | +3h. | Dto.Nº 97/989 del PE | 2-Mar-1989 |
| 29-Oct-1989 | 24-Feb-1990 | +2h. | Dto.Nº 489/989 del PE | 4-Oct-1989 |
| 25-Feb-1990 | 20-Oct-1990 | +3h. | Dto.Nº 77/990 del PE | 21-Feb-1990 |
| 21-Oct-1990 | 2-Mar-1991 | +2h. | Dto.Nº 477/990 del PE | 17-Oct-1990 |
| 3-Mar-1991 | 26-Oct-1991 | +3h. | Dto.Nº 96/991 del PE | 22-Feb-1991 |
| 27-Oct-1991 | 29-Feb-1992 | +2h. | Dto.Nº 544/991 del PE | 4-Oct-1991 |
| 1-Mar-1992 | 17-Oct-1992 | +3h. | Dto.Nº 70/992 del PE | 19-Feb-1992 |
| 18-Oct-1992 | 27-Feb-1993 | +2h. | Dto.Nº 503/992 del PE | 15-Oct-1992 |
| 28-Feb-1993 | 17-Sep-2004 | +3h. | Dto.Nº 503/992 del PE | 15-Oct-1992 |
| 19-Sep-2004 | 13-Mar-2005 | +2h. | Dto.Nº 328/004 del PE | 15-Sep-2004 |
| 14-Mar-2005 | 8-Oct-2005 | +3h. | Dto.Nº 328/004 del PE | 15-Sep-2004 |
| 9-Oct-2005 | 11-Mar-2006 | +2h. | Dto.Nº 119/005 del PE | 19-Sep-2005 |
| 12-Mar-2005 | 30-Sep-2006 | +3h. | Dto.Nº 119/005 del PE | 19-Sep-2005 |
| 1-Oct-2006 | 10-Mar-2007 | +2h. | Dto.Nº 311/006 del PE | 4-Sep-2006 |
| 11-Mar-2007 | 6-Oct-2007 | +3h. | Dto.Nº 311/006 del PE | 4-Sep-2006 |
| 7-Oct-2007 | 8-Mar-2008 | +2h. | Dto.Nº 311/006 del PE | 4-Sep-2006 |
| 9-Mar-2008 | 4-Oct-2008 | +3h. | Dto.Nº 311/006 del PE | 4-Sep-2006 |
| 5-Oct-2008 | 7-Mar-2009 | +2h. | Dto.Nº 311/006 del PE | 4-Sep-2006 |

* A partir del 01-May-1920 el Uruguay se incorporó al sistema de Husos Horarios

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