

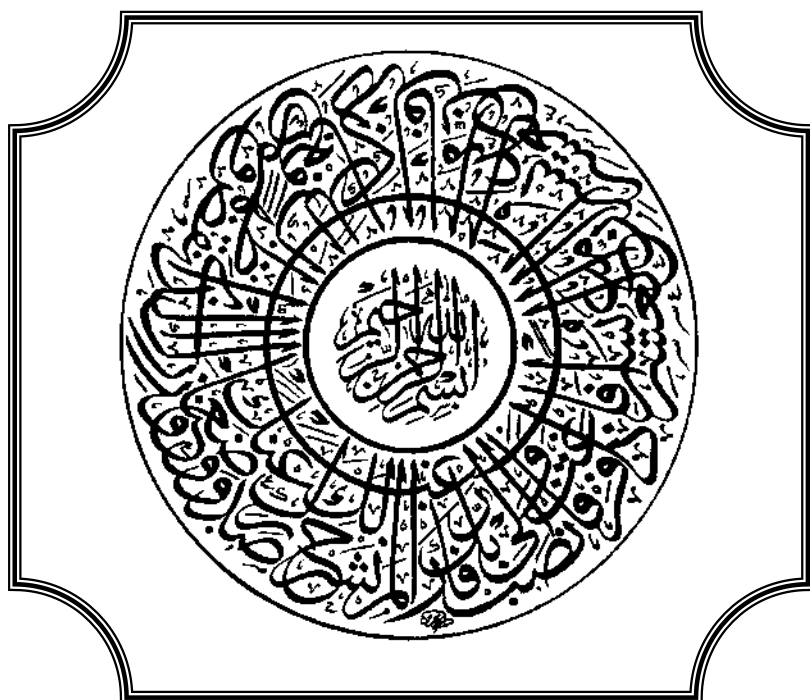
**Arab Republic of Egypt
Ministry of Higher Education and Scientific Research
National Research Institute of Astronomy and
Geophysics (NRIAG)
Helwan -Cairo**



The Astronomical Guide For the Hijri year, 1446 AH.



A solar corona image was captured by the research team of the Solar Research Laboratory using 5-inch Williams telescope, on 29 March 2006 total solar eclipse, Salloum's plateau, Egypt.



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Preface

The National research Institute of Astronomy and Geophysics have been working since its inception in 1903, to provide services through scientific applications to the community such as specifications and calculations of astronomical events such as Solar and lunar eclipses, prayer times, beginnings of Hijri months, fasting times, religious seasons and pilgrimages.

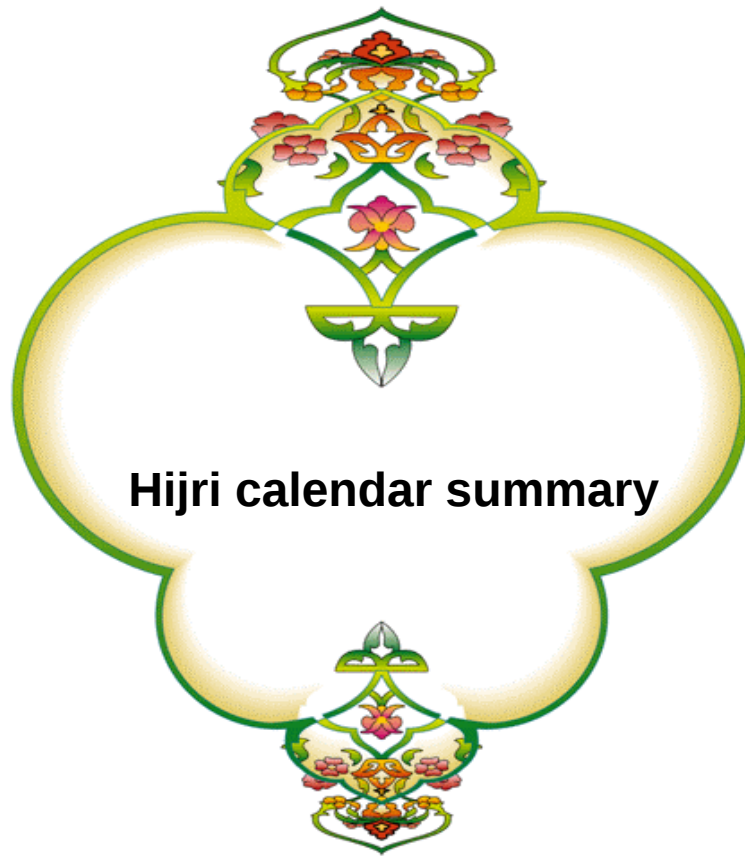
It is my great pleasure to present the astronomical guide version of the Hijri year 1446AH corresponding to the Gregorian year 2024/2025 AD. The astronomical guide includes the view of the sky for each day of the sights of the new crescent of the Hijri months, the position of the crescent in relation to the sun and other planets, which may appear on that day of the month at sunset. Also it contains data of the qiblah's directions for the world's countries, conjunction, occultation, etc.

There is a great hope that the astronomical guide for the Hijri year 1446 AH will gain the attention of the public and amateur astronomers and will help in spreading scientific awareness in one of the important fields related to various aspects of life.

President

**The National research Institute
of Astronomy and Geophysics**

Prof. Dr. / Taha Rabeh



Hijri calendar summary

**New Moon conjunctions
and the beginnings of Hijri months
for the year 1446 A.H.**

The Month	conjunction	Circumstances of crescent visibility according to the crescent lag after sunset (On the sight day)	Begin of Hijri month	Length of Hijri month (days)
Mohar'rum	H m 22 59 Friday 5/7/2024 29/12/1445	On the sighting day (Friday 5/7/2024), The lunar crescent is absent after sunset in all Arabic and Islamic countries..	Sunday 7/7/2024	29
Safar	H m 11 14 Tuesday 4/8/2024 29/1/1446	on the sighting day (Sunday, 4/8/2024) The crescent lags (2- 25 minutes) after sunset in all arabic and Islamic countries, Except Jakarta where moonset will be before sunset.	Monday 5/8/2024	30
Rabee Al'awal	H m 01 57 Monday 2/9/2024 29/2/1446	On the sighting day (Monday, 2/9/2024), The lunar crescent is absent after sunset in all Arabic and Islamic countries..	Wednesday 4/9/2024	30
Rabee Al'akher	H m 18 50 Thursday 2/10/2024 29/3/1446	on the sighting day (Wednesday, 4/11/2021) The lunar crescent is absent after sunset in all Arabic and Islamic countries.	Friday 4/10/2024	30

Time, described above, according to the universal time

**New Moon conjunctions
and the beginnings of Hijri months
For the year 1446 A.H (cont.)**

The Month	conjunction	Circumstances of crescent visibility according to the crescent lag after sunset (On the sight day)	Begin of Hijri month	Length of Hijri month (days)
Jumade Al'oula	H m 12 48 Friday 1/11/2024 29/4/1446	On the sighting day (Friday, 1/11/2024), The lunar crescent is absent after sunset in all Arabic and Islamic countries..	Sunday 3/11/2024	30
Jumade Al'akhera	H m 06 23 Sunday 1/12/2024 29/5/1446	on the sighting day (Sunday, 1/12/2024) The lunar crescent is absent aftersunset in all Arabic and Islamic countries.	Tuesday 3/12/2024	29
Rajab	H m 22 28 Monday 30/2/2022 9/6/1446	On the sighting day (Tuesday, 1/2/2022), The crescent lags (16 - 41minutes) after sunset inArabicandIslamiccountries.	Wednesday 1/1/2025	30
Sha'aban	H m 11 37 Wednesday 29/1/2025 29/7/1446	on the sighting day (Wednesday, 29/1/2025) The lunar crescent is absent aftersunset in the majority of Arabic and Islamic countries.	Friday 31/1/2025	29

Time, described above, according to the universal time

**New Moon conjunctions
and the beginnings of Hijri months
For the year 1446 A.H (cont.)**

The Month	conjunction	Circumstances of crescent visibility according to the crescent lag after sunset (On the sight day)	Begin of Hijri month	Length of Hijri month (days)
Ramadan	H m 00 47 Friday 28/2/2025 29/8/1446	On the sighting day (Friday, 28/2/2025), The crescent lags (20 - 44 minutes) after sunset in Arabic and Islamic countries.	Saturday 1/3/2025	29
Shawal	H m 11 00 Saturday 29/3/2022 29/9/1446	on the sighting day (Saturday, 29/3/2025) The crescent lags (3 - 19 minutes) after sunset in Arabic and Islamic countries.	Sunday 30/3/2025	30
Thul'kada	H m 19 32 Monday 30/5/2022 9/910/1443	On the sighting day (Sunday, 27/4/2025), The lunar crescent is absent after sunset in all Arabic and Islamic countries.	Tuesday 29/4/2025	29
Thul'hejja	H m 05 03 Tuesday 27/5/2022 29/11/1446	on the sighting day (Tuesday, 27/5/2025) The crescent lags (9- 59 minutes) after sunset in Arabic and Islamic countries.	Wednesd ay 28/5/2025	29

Time, described above, according to the universal time

Glossary

Conjunction (New Moon):

Is the event when the Earth, Moon and Sun are approximately in a straight line; with the sun and Earth on opposite sides of the Moon. This alignment leaves the side of the Moon that faces the Earth in complete darkness.

The crescent:

The illuminated part of the moon that occurs when the angle between the center of the Moon and the Sun as seen from the Earth is 8 degrees.

Duration:

The time interval separating Sunset And Moonset, i.e. the time interval during which the Moon stays above the western horizon after Sunset.

Sign (-) means that Moonset occurs before sunset.

Sign (+) means that Moonset occurs after sunset.

Crescent coordinates: defined by

(a) Relative altitude (degree): height above the horizon at sunset.

(b) Relative azimuth(degree):

the horizontal deviation from the solar disk at sunset.

Quarter:

50 % of the Moon surface is illuminated.

Full Moon:

100 % of the Moon surface is illuminated.

Sight Day:

The day to seek the crescent, it is the twenty-ninth day of every Hijric month.

Hijric and Gregorian:

H and D.



Mohar'rum,1446A.H. crescent statement

Mohar'rum's crescent exist after the conjunction that occurs on Friday 29 Thul'hejja 1445 A.H. corresponding to 5/7/2024 A.D. (sight Day) at ten o'clock and 59 minute p.m. (U.T.)

On the sight day (Friday, 5/7/2024 A.D):

- **In Cairo and in all Arab and Islamic countries, the crescent will not be born yet before sunset on that day.**
 - **On that day the crescent lags Sunset in some of Arabic and Islamic Countries despite the conjugation comes after sunset (it is negligible).**
 - **Therefore, Tuesday, 6.7.2024 A.D. is the day completing the month of Thul'hejja 1445 A.H.**
 - **Consequently,The first day of Mohar'rum 1446 A.H. shall adopted to Sunday, 7.7.2024 A.D. according to the astronomical calculations.**
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Ephemeris of Mohar'rum 1446 H

(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Friday July 05,2024 22:59	Saturday July 13,2024 22:50	Sunday July 21,2024 10:20	Sunday July 28,2024 02:52
First Day	Last Day		Length
July 07,2024	August 04 ,2024		29 Days

(b) Observing conditions in Egypt for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	18:21	18:15	-6	Moon not new	Moon not new
Toshka	18:41	18:35	-6		
Aswan	18:40	18:35	-5		
Qena	18:45	18:42	-3		
AL'Kharga	18:54	18:49	-4		
Asyut	18:54	18:51	-3		
Sohag	18:50	18:47	-3		
Faiyum	19:00	18:59	-1		
Tur	18:46	18:44	-2		
St Catherine	18:46	18:44	-2		
Taba	18:44	18:43	-1		
Cairo	19:00	18:59	-1		
Tanta	19:03	19:03	zero		
Alexandria	19:08	19:09	1		
Port Said	18:59	18:59	zero		
Sallum	19:28	19:29	1		

(c) Observing conditions of the crescent on the sight day
(1) In some Arab and Islamic cities (L.T.)

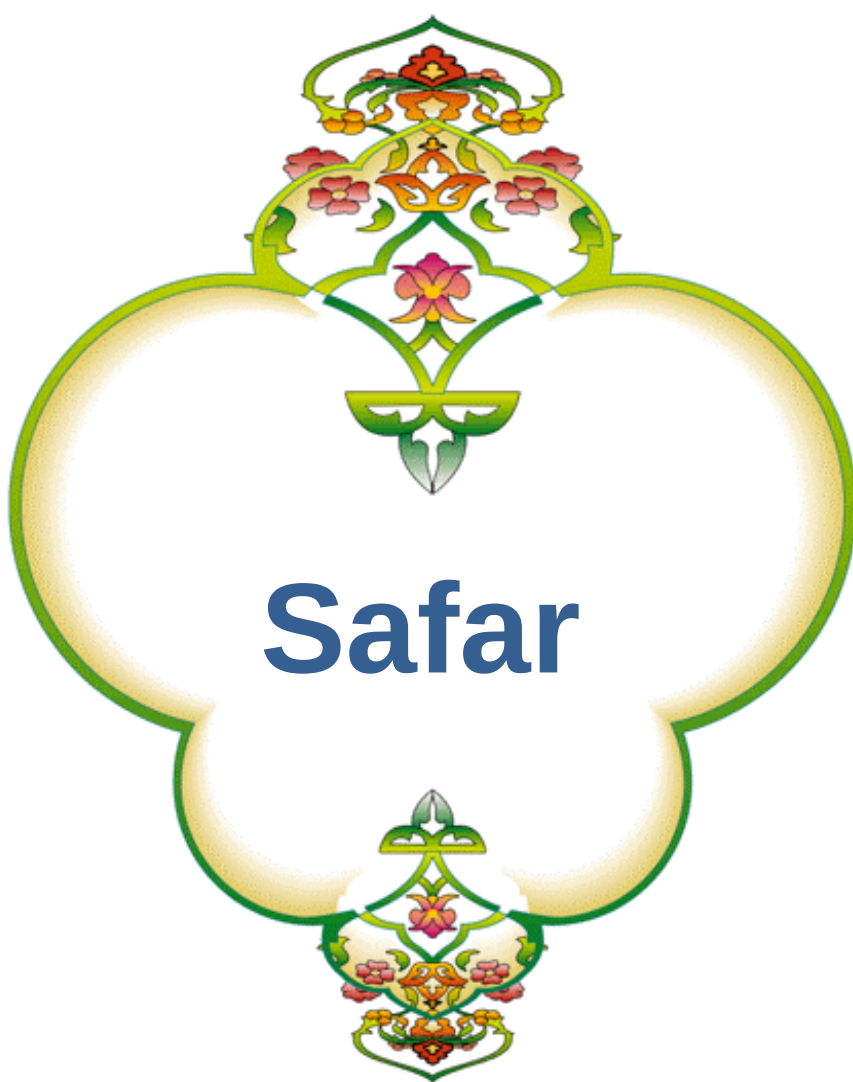
City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	18:44	18:41	-3	Makkah	19:07	18:59	-8
Nouakchott	18:44	1:43	-1	Al-Quds	18:48	18:48	zero
Marrakech	19:41	19:47	6	Baghdad	19:15	19:15	zero
Fez	19:35	19:42	8	Aden	18:30	18:17	-13
Lagos	19:05	18:55	-10	Riyadh	18:46	18:39	-7
Algeria	19:10	19:19	9	Kuwait	18:51	18:48	-3
Tunisia	19:42	19:49	7	Manama	18:34	18:28	-6
Tripoli-Libya	19:19	19:24	5	Tehran	19:24	19:24	zero
Khartoum	18:25	18:15	-10	Doha	18:28	18:21	-7
Mogadishu	18:10	17:51	-19	Abu Dhabi	19:15	19:07	-8
Ankara	19:20	19:28	8	Dubai	19:13	19:06	-7
Amman	18:46	18:46	zero	Muscat	18:56	18:47	-9
Damascus	18:48	18:49	1	Karachi	19:25	19:16	-9
Jazan	18:48	18:37	-11	Kuala Lumpur	19:27	18:59	-28
Medina	19:14	19:09	-5	Jakarta	17:51	17:17	-34

(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	17:50	17:11	-39	Washington	19:37	19:58	21
Brasilia	17:53	17:38	-15	Ottawa	19:54	20:22	28
Santiago	17:48	17:24	-24	London	20:19	20:47	28
Lima	17:56	17:49	-7	Moscow	21:14	21:49	35

(D) Mohar'rum's first day is: Sunday July 07, 2024 30 Paoni 1740

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday				7	13	6	14	20	13	21	27	20
Sunday	1	7	30	8	14	7	15	21	14	22	28	21
Monday	2	8	Epi	9	15	8	16	22	15	23	29	22
Tuesday	3	9	2	10	16	9	17	23	16	24	30	23
Wednesday	4	10	3	11	17	10	18	24	17	25	31	24
Thursday	5	11	4	12	18	11	19	25	18	26	Aug	25
Friday	6	12	5	13	19	12	20	26	19	27	2	26



Safar

Safar, 1446 A.H. crescent statement

Safar's crescent exist after the conjunction that occurs on Sunday 4/8/2024A.D. (sight day) at 11 o'clock and 14 minutes a.m. (U.T.)

On the sight day (Sunday, 4/8/2024 A.D.):

- **The crescent lags sunset in Makkah by 16 minutes.**
 - **The crescent lags sunset in Cairo by 19 minutes.**
 - **Generally the crescent lags (2 - 25 minutes) after sunset in Arabic and Islamic countries.**
 - **In Jakarta, Moonset will occur before Sunset by one minute.**
 - **Consequently, The first day of Safar 1446 A.H. shall adopted to be Monday, 5.8.2024 A.D. according to the astronomical calculations.**
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Ephemeris of Safar, 1446 H
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Sunday August 04,2024 11:14	Monday August 12,2024 15:20	Monday August 19,2024 18:29	Monday August 26,2024 09:27
First Day	Last Day	Length	
August 05,2024	September 03 ,2024	30 Days	

(b) Observing conditions in Egypt
for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	18:12	18:28	16	2.9	1.6 N
Toshka	18:31	18:49	18	2.9	1.4 N
Aswan	18:30	18:47	17	2.8	1.4 N
Qena	18:34	18:52	18	2.8	1.2 N
AL'Kharga	18:41	18:59	18	3.0	1.1 N
Asyut	18:41	19:00	19	3.0	1.0 N
Sohag	18:38	18:57	19	3.0	1.1 N
Faiyum	18:46	19:06	20	3.1	0.8 N
Tur	18:33	18:52	19	3.0	0.9 N
St Catherine	18:33	18:51	18	2.8	1.0 N
Taba	18:30	18:49	19	3.0	0.8 N
Cairo	18:46	19:05	19	3.2	0.7 N
Tanta	18:48	19:08	20	3.1	0.6 N
Alexandria	18:53	19:13	20	3.1	0.6 N
Port Said	18:44	19:04	20	3.0	0.7 N
Sallum	19:13	19:33	20	3.1	0.4 N

(c) Observing conditions of the crescent on the sight day

(1) In some Arab and Islamic cities (L.T.)

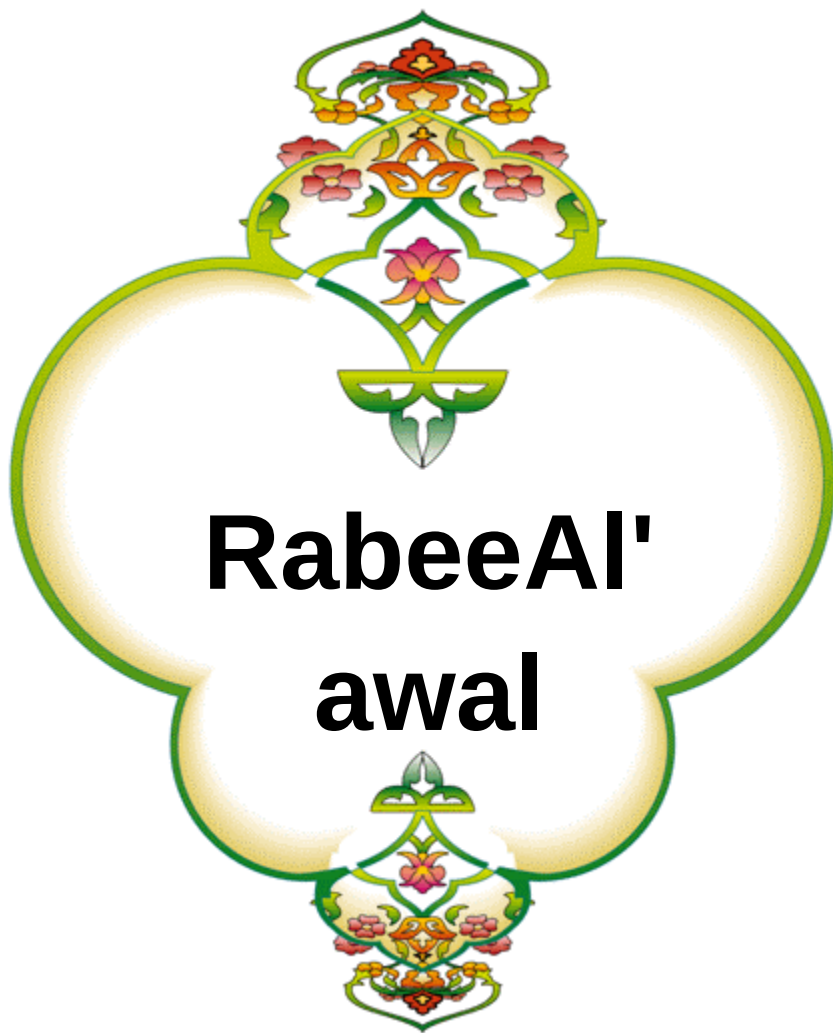
City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	18:38	18:59	21	Makkah	18:58	19:14	16
Nouakchott	18:36	18:58	22	Al-Quds	18:33	18:53	20
Marrakech	19:25	19:49	24	Baghdad	18:59	19:18	19
Fez	19:18	19:42	24	Aden	18:26	18:38	12
Lagos	19:04	19:20	16	Riyadh	18:35	18:52	17
Algeria	18:51	19:16	25	Kuwait	18:38	18:55	17
Tunisia	19:22	19:46	24	Manama	18:22	18:38	16
Tripoli-Libya	19:03	19:25	22	Tehran	19:05	19:25	20
Khartoum	18:19	18:34	15	Doha	18:17	18:33	16
Mogadishu	18:11	18:20	9	Abu Dhabi	19:05	19:20	15
Ankara	18:59	19:22	23	Dubai	19:02	19:17	15
Amman	18:31	18:51	20	Muscat	18:46	19:01	15
Damascus	18:32	18:52	20	Karachi	19:14	19:29	15
Jazan	18:41	18:55	14	Kuala Lumpur	19:27	19:29	2
Medina	19:03	19:20	17	Jakarta	17:55	17:54	-1

(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	18:09	18:09	zero	Washington	19:16	19:48	32
Brasilia	18:01	18:18	17	Ottawa	19:27	19:59	32
Santiago	18:07	18:21	14	London	19:43	20:13	30
Lima	18:03	18:25	22	Moscow	20:29	21:00	31

(D) Safar, 's first day is: Monday August 05, 2024 29 Epip 1740

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday				6	10	4	13	17	11	20	24	18
Sunday				7	11	5	14	18	12	21	25	19
Monday	1	5	29	8	12	6	15	19	13	22	26	20
Tuesday	2	6	30	9	13	7	16	20	14	23	27	21
Wednesday	3	7	Mes	10	14	8	17	21	15	24	28	22
Thursday	4	8	2	11	15	9	18	22	16	25	29	23
Friday	5	9	3	12	16	10	19	23	17	26	30	24



RabeeAl'awal, 1446 A.H. crescent statement

RabeeAl'awal's crescent is born immediately after the conjunction that occurs on Wednesday, 29 Safar 1446 A.H., corresponding to 6/10/2021 A.D. (Sight Day) at eleven o'clock and five minutes a.m. (U.T.)

On the sight day (Monday, 2/9/2024 A.D.):

- **In Cairo and in all Arabic and Islamic countries, the crescent will not be born before sunset on that day.**
 - **In Makkah Moonset will occur before Sunset by 11 minutes.**
 - **In Cairo Moonset will occur before Sunset by 7 minutes.**
 - **In Arabic and Islamic countries Moonset will occur before Sunset by (2 – 29 minutes).**
 - **Therefore, Monday, 2.9.2024 A.D. is the day completing the month of Safar's 1446 A.H.,**
 - **Consequently, The first day of Rabee Al'awal 1446 A.H. shall adopted to be Tuesday, 4.9.2024 A.D. according to the astronomical calculations.**
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Ephemeris of Rabee Al'awal 1446 H
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Tuesday September 03,2024 01:57	Wednesday September 11,2024 06:07	Wednesday September 18,2024 02:37	Tuesday September 24,2024 18:51
First Day	Last Day	Length	
September 04,2024	October 03 ,2024	30 Days	

(b) Observing conditions in Egypt
for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	17:49	17:38	-11	Moon not new	Moon not new
Toshka	18:08	17:58	-10		
Aswan	18:05	17:56	-9		
Qena	18:07	17:58	-9		
AL'Kharga	18:16	18:07	-9		
Asyut	18:14	18:06	-8		
Sohag	18:12	18:03	-9		
Faiyum	18:17	18:10	-7		
Tur	18:05	17:57	-8		
St Catherine	18:04	17:56	-8		
Taba	18:01	17:53	-8		
Cairo	18:16	18:09	-7		
Tanta	18:18	18:11	-7		
Alexandria	18:22	18:16	-6		
Port Said	18:13	18:06	-7		
Sallum	18:41	18:35	-6		

(c)Observing conditions of the crescent on the sight day
(1) In some Arab and Islamic cities (L.T.)

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	18:21	18:13	-8	Makkah	18:36	18:25	-11
Nouakchott	18:17	18:10	-7	Al-Quds	18:01	17:55	-6
Marrakech	18:54	18:50	-4	Baghdad	18:26	18:19	-7
Fez	18:44	18:41	-3	Aden	18:10	17:55	-15
Lagos	18:52	18:40	-12	Riyadh	18:10	18:00	-10
Algeria	18:14	18:12	-2	Kuwait	18:09	18:00	-9
Tunisia	18:46	18:43	-3	Manama	17:56	17:45	-11
Tripoli-Libya	18:30	18:26	-4	Tehran	18:30	18:23	-7
Khartoum	18:03	17:49	-14	Doha	17:51	17:41	-10
Mogadishu	18:03	17:44	-19	Abu Dhabi	18:40	18:28	-12
Ankara	18:18	18:15	-3	Dubai	18:36	18:25	-11
Amman	17:59	17:52	-7	Muscat	18:22	18:10	-12
Damascus	17:58	17:52	-6	Karachi	18:49	18:37	-12
Jazan	18:22	18:09	-13	Kuala Lumpur	19:17	18:53	-24
Medina	18:39	18:29	-10	Jakarta	17:52	17:24	-28

(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	18:30	18:00	-29	Washington	18:36	18:39	03
Brasilia	18:06	17:53	-13	Ottawa	18:38	18:43	05
Santiago	18:26	18:11	-15	London	18:44	18:48	04
Lima	18:05	17:57	-8	Moscow	19:20	19:26	06

(D)Rabee Al'awal's first day is: Wednesday September 04,2024 29 Messori 1740

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday				4	7	2	11	14	4	18	21	11	25	28	18
Sunday				5	8	3	12	15	5	19	22	12	26	29	19
Monday				6	9	4	13	16	6	20	23	13	27	30	20
Tuesday				7	10	5	14	17	7	21	24	14	28	Oct	21
Wednesday	1	4	29	8	11	Tho	15	18	8	22	25	15	29	2	22
Thursday	2	5	30	9	12	2	16	19	9	23	26	16	30	3	23
Friday	3	6	Nas	10	13	3	17	20	10	24	27	17			



Rabee
Al'akher

Rabee Al'akher,1446A.H. crescent statement

RabeeAl'akher's crescent is born immediately after the conjunction that occurs on Wednesday, 29 RabeeAl'awal's 1446 A.H., corresponding to 2/10/2024 A.D. (Sight Day) at six o'clock and 50 minutes p.m. (U.T.)

On the sight day (Wednesday, 2/10/2024 A.D.):

- In Cairo and in all Arabic and Islamic countries, the crescent will not be born before sunset on that day.**
 - In Makkah Moonset will occur before Sunset by 10 minutes.**
 - In Cairo Moonset will occur before Sunset by 9 minutes.**
 - In Arabic and Islamic countries Moonset will occur before Sunset by (4 - 18 minutes).**
 - Therefore, Thursday, 3.10.2024 A.D. is the day completing the month of RabeeAl'awal's 1446 A.H.,**
 - Consequently, the first day of RabeeAl'akher 1446 A.H. shall adopted to be Friday, 4.10.2024 A.D. according to the astronomical calculations.**
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Ephemeris of RabeeAl'akher 1446 H
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Wednesday October 02,2024 18:50	Thursday October 10,2024 18:56	Thursday October 17,2024 11:28	Thursday October 24,2024 08:04
First Day	Last Day		Length
October 04,2024	November 02 ,2024		30 Days

(b) Observing conditions in Egypt
for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	17:20	17:10	-10	Moon not new	Moon not new
Toshka	17:39	17:30	-9		
Aswan	17:34	17:25	-9		
Qena	17:34	17:25	-9		
AL'Kharga	17:43	17:34	-9		
Asyut	17:40	17:31	-9		
Sohag	17:38	17:29	-9		
Faiyum	17:41	17:32	-9		
Tur	17:30	17:21	-9		
St Catherine	17:29	17:19	-10		
Taba	17:24	17:15	-9		
Cairo	17:39	17:30	-9		
Tanta	17:40	17:31	-9		
Alexandria	17:44	17:35	-9		
Port Said	17:34	17:25	-9		
Sallum	18:03	17:54	-9		

(c)Observing conditions of the crescent on the sight day

(1) In some Arab and Islamic cities (L.T.)

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	17:58	17:54	-4	Makkah	18:07	17:58	-9
Nouakchott	17:51	17:46	-5	Al-Quds	17:22	17:13	-9
Marrakech	18:15	18:09	-6	Baghdad	17:45	17:35	-10
Fez	18:02	17:56	-6	Aden	17:49	17:39	-10
Lagos	18:37	18:30	-7	Riyadh	17:39	17:29	-10
Algeria	17:29	17:22	-7	Kuwait	17:32	17:22	-10
Tunisia	18:01	17:53	-8	Manama	17:23	17:12	-11
Tripoli-Libya	17:50	17:42	-8	Tehran	17:46	17:36	-10
Khartoum	17:39	17:30	-9	Doha	17:19	17:09	-10
Mogadishu	17:51	17:40	-11	Abu Dhabi	18:08	17:57	-11
Ankara	17:29	17:20	-9	Dubai	18:04	17:53	-11
Amman	17:20	17:10	-10	Muscat	17:52	17:40	-12
Damascus	17:17	17:08	-9	Karachi	18:17	18:06	-11
Jazan	17:58	17:48	-10	Kuala Lumpur	19:05	18:48	-17
Medina	18:07	17:58	-9	Jakarta	17:47	17:29	-18

(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	18:50	18:41	-9	Washington	17:47	17:45	-02
Brasilia	18:09	18:09	zero	Ottawa	17:40	17:36	-04
Santiago	18:46	18:51	5	London	17:35	17:27	-08
Lima	18:04	18:08	4	Moscow	18:01	17:51	-10

(D)Rabee Al'akher's first day is: Friday October 04,2024 24 Thout 1741

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday	30	2	23	2	5	25	9	12	2	16	19	9	23	26	16
Sunday				3	6	26	10	13	3	17	20	10	24	27	17
Monday				4	7	27	11	14	4	18	21	11	25	28	18
Tuesday				5	8	28	12	15	5	19	22	12	26	29	19
Wednesday				6	9	29	13	16	6	20	23	13	27	30	20
Thursday				7	10	30	14	17	7	21	24	14	28	31	21
Friday	1	4	24	8	11	Pao	15	18	8	22	25	15	29	Nov	22



Jumade
Al'oula

Jumade Al'oula,1446 A.H. crescent statement

JumadeAl'oula's crescent is born immediately after the conjunction that occurs on Friday, 29 RabeeAl'akher's 1446 A.H., corresponding to 1/11/2024 A.D. (Sight Day) at twelve o'clock and 48 minutes a.m. (U.T.)

On the sight day (Friday, 1/11/2024 A.D.):

- **In Makkah Moonset will occur before Sunset by 10 minutes.**
 - **In Cairo Moonset will occur before Sunset by 12 minutes.**
 - **In Arabic and Islamic countries Moonset will occur before Sunset by (2 - 17 minutes).**
 - **Therefore, Thursday, 3.10.2024 A.D. is the day completing the month of RabeeAl'akher's 1446 A.H.,**
 - **Consequently,The first day of JumadeAl'oula 1446 A.H. shall adopted to be Saturday, 3/11/2024 A.D. according to the astronomical calculations.**
-

Ephemeris of Jumade Al'oula 1446 H

(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Friday November 01,2024 12:48	Saturday November 09,2024 05:57	Friday November 15,2024 21:30	Saturday November 23,2024 01:30
First Day	Last Day	Length	
November 03,2024	December 02 ,2024	30 Days	

(b) Observing conditions in Egypt for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	16:56	16:46	-10	Crescent blew the horizo	Crescent blew the horizo
Toshka	17:15	17:05	-10		
Aswan	17:09	16:59	-10		
Qena	17:07	16:56	-11		
AL'Kharga	17:17	17:06	-11		
Asyut	17:12	17:00	-12		
Sohag	17:10	16:59	-11		
Faiyum	17:10	16:58	-12		
Tur	17:01	16:49	-12		
St Catherine	16:59	16:47	-12		
Taba	16:54	16:41	-13		
Cairo	17:08	16:55	-13		
Tanta	17:08	16:55	-13		
Alexandria	17:11	16:59	-12		
Port Said	17:02	16:49	-13		
Sallum	17:30	17:17	-13		

(c) Observing conditions of the crescent on the sight day

(1) In some Arab and Islamic cities (L.T.)

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	17:41	17:39	-2	Makkah	17:44	17:34	-10
Nouakchott	17:31	17:28	-3	Al-Quds	16:49	16:36	-13
Marrakech	17:42	17:33	-9	Baghdad	17:10	16:55	-15
Fez	17:27	17:16	-11	Aden	17:33	17:26	-7
Lagos	18:26	18:25	-1	Riyadh	17:13	17:01	-12
Algeria	16:50	16:37	-13	Kuwait	17:02	16:48	-14
Tunisia	17:22	17:08	-14	Manama	16:55	16:43	-12
Tripoli-Libya	17:16	17:04	-12	Tehran	17:09	16:52	-17
Khartoum	17:20	17:14	-6	Doha	16:53	16:40	-13
Mogadishu	17:43	17:39	-4	Abu Dhabi	17:43	17:30	-13
Ankara	16:46	16:29	-17	Dubai	17:38	17:25	-13
Amman	16:46	16:33	-13	Muscat	17:27	17:14	-13
Damascus	16:42	16:28	-14	Karachi	17:51	17:38	-13
Jazan	17:39	17:30	-9	Kuala Lumpur	18:57	18:45	-12
Medina	17:42	17:30	-12	Jakarta	17:46	17:36	-10

(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	19:15	19:25	10	Washington	17:07	16:59	-8
Brasilia	18:16	18:29	13	Ottawa	16:49	16:36	-13
Santiago	19:11	19:35	24	London	16:33	16:09	-24
Lima	18:08	18:24	16	Moscow	16:49	16:19	-30

(D) Jumade Al'oula's first day is: Sunday November 03, 2024 24

Paop 1741

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday				7	9	30	14	16	7	21	23	14
Sunday	1	3	24	8	10	Hat	15	17	8	22	24	15
Monday	2	4	25	9	11	2	16	18	9	23	25	16
Tuesday	3	5	26	10	12	3	17	19	10	24	26	17
Wednesday	4	6	27	11	13	4	18	20	11	25	27	18
Thursday	5	7	28	12	14	5	19	21	12	26	28	19
Friday	6	8	29	13	15	6	20	22	13	27	29	20



**Jumade
Al'akhera**

Jumade Al'akhera,1446 A.H. crescent statement

JumadeAl'akhera's crescent is born immediately after the conjunction that occurs at six o'clock and 22 minutes a.m. (U.T.) on Sunday, 29 JumadeAl'oula 1446A.H. , corresponding to 1/12/2024 A.D. (Sight Day).

On the sight day (Sunday, 1/12/2024 A.D.):

- **In Cairo and in all Arab and Islamic countries, the crescent will not be born before sunset on that day.**
 - **In Makkah Moonset will occur with Sunset.**
 - **In Cairo Moonset will occur before Sunset by 5 minutes.**
 - **In Arabic and Islamic countries Moonset will occur before Sunset by (1 - 15 minutes).**
 - **Therefore, Monday, 30.11.2024 A.D. is the day completing the month of JumadeAl'oula 1446 A.H.**
 - **Consequently,The first day of JumadeAl'akhera 1446 A.H. shall adopted to be Tuesday, 4.01.2022 A.D. according to the astronomical calculations.**
-

Ephemeris of Jumade Al'akhera 1446 H

(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Sunday December 01,2024 06:22	Sunday December 08,2024 15:28	Sunday December 15,2024 09:03	Sunday December 22,2024 22:19
First Day December 03,2024	Last Day December 31 ,2024	Length 29 Days	

(b) Observing conditions in Egypt for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	16:49	16:49	0	Crescent blew the horizo	Crescent blew the horizo
Toshka	17:07	17:07	0		
Aswan	17:00	16:59	-1		
Qena	16:57	16:54	-3		
AL'Kharga	17:07	17:07	-2		
Asyut	17:01	16:58	-3		
Sohag	17:00	16:58	-2		
Faiyum	16:58	16:53	-5		
Tur	16:49	16:45	-4		
St Catherine	16:47	16:43	-4		
Taba	16:41	16:36	-5		
Cairo	16:55	16:49	-6		
Tanta	16:54	16:48	-6		
Alexandria	16:58	16:52	-6		
Port Said	16:48	16:41	-7		
Sallum	17:16	17:10	-6		

(c)Observing conditions of the crescent on the sight day

(1) In some Arab and Islamic cities (L.T.)

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	17:39	17:51	12	Makkah	17:37	17:37	-1
Nouakchott	17:27	17:36	9	Al-Quds	16:35	16:28	-7
Marrakech	17:28	17:27	-1	Baghdad	16:55	16:45	-10
Fez	17:11	17:07	-4	Aden	17:32	17:36	4
Lagos	18:29	18:42	13	Riyadh	17:04	17:01	-3
Algeria	16:32	16:24	-8	Kuwait	16:49	16:42	-7
Tunisia	17:03	16:54	-9	Manama	16:45	16:40	-5
Tripoli-Libya	17:00	16:55	-5	Tehran	16:51	16:38	-13
Khartoum	17:18	17:23	5	Doha	16:43	16:39	-4
Mogadishu	17:48	17:58	10	Abu Dhabi	17:34	17:29	-5
Ankara	16:24	16:09	-15	Dubai	17:28	17:23	-5
Amman	16:32	16:24	-8	Muscat	17:18	17:14	-4
Damascus	16:27	16:18	-9	Karachi	17:42	17:36	-6
Jazan	17:35	17:37	2	Kuala Lumpur	19:01	19:02	1
Medina	17:33	17:30	-3	Jakarta	17:56	18:01	5

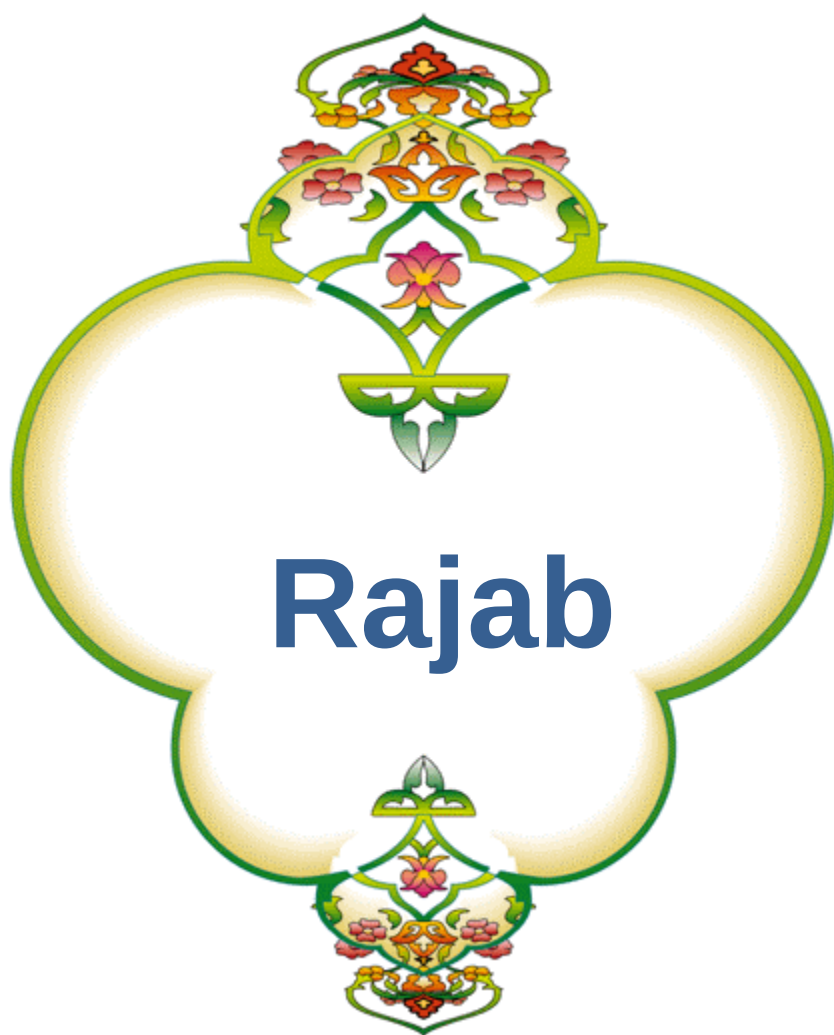
(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	19:42	20:18	36	Washington	16:46	16:46	0
Brasilia	18:31	19:05	34	Ottawa	16:21	16:12	-9
Santiago	19:38	20:28	50	London	15:55	15:24	-31
Lima	18:21	18:57	36	Moscow	16:01	15:13	-48

(D)Jumade Al'akhera's first day is: Tuesday December 03,2024 24

Hathor 1741

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday				5	7	28	12	14	5	19	21	12	26	28	19
Sunday				6	8	29	13	15	6	20	22	13	27	29	20
Monday				7	9	30	14	16	7	21	23	14	28	30	21
Tuesday	1	3	24	8	10	Koi	15	17	8	22	24	15	29	31	22
Wednesday	2	4	25	9	11	2	16	18	9	23	25	16			
Thursday	3	5	26	10	12	3	17	19	10	24	26	17			
Friday	4	6	27	11	13	4	18	20	11	25	27	18			



Rajab

Rajab,1446 A.H. crescent statement

Rajab's crescent is born immediately after the conjunction that occurs at ten o'clock and 28 minutes p.m. (U.T.) on Monday, 29 JumadeAl'akhera 1446 A.H., corresponding to 30/12/2024 A.D. (The day before Sight Day).

On the sight day (Tuesday, 31/12/2024 A.D.):

- **The crescent lags sunset in Makkah by 28 minutes.**
 - **The crescent lags sunset in Cairo by 24 minutes.**
 - **Generally the Crescent lags (16 – 41 minutes) after sunset in Arabic and Islamic countries.**
 - **Consequently, The first day of Rajab 1446 A.H. is adopted to be Wednesday, 1.01.2025 A.D. according to the astronomical calculations.**
-

Ephemeris of Rajab 1446 H
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Monday December 30,2024 22:28	Monday January 06,2025 23:58	Monday January 13,2025 22:28	Tuesday January 21,2025 20:32
First Day	Last Day		Length
January 01,2025	January 30 ,2025		30 Days

(b) Observing conditions in Egypt
for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	17:01	17:29	28	4.7	7.3 S
Toshka	17:19	17:51	29	4.8	7.4 S
Aswan	17:12	17:40	28	4.6	7.6 S
Qena	17:08	17:35	27	4.2	7.8 S
AL'Kharga	17:19	17:46	27	4.4	7.7 S
Asyut	17:12	17:39	27	4.1	8.0 S
Sohag	17:12	17:38	26	4.2	7.8 S
Faiyum	17:09	17:34	25	3.8	8.2 S
Tur	17:00	17:25	25	3.9	8.0 S
St Catherine	16:58	17:23	25	3.8	8.1 S
Taba	16:52	17:17	25	3.6	8.2 S
Cairo	17:06	17:30	24	3.6	8.2 S
Tanta	17:05	17:29	24	3.5	8.3 S
Alexandria	17:08	17:32	24	3.5	8.4 S
Port Said	16:59	17:22	23	3.4	8.3 S
Sallum	17:27	17:51	24	3.6	8.4 S

(c)Observing conditions of the crescent on the sight day

(1) In some Arab and Islamic cities (L.T.)

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	17:51	18:32	41	Makkah	17:50	18:18	28
Nouakchott	17:39	18:18	39	Al-Quds	16:46	17:08	22
Marrakech	17:39	18:10	31	Baghdad	17:05	17:25	20
Fez	17:21	17:50	29	Aden	17:45	18:16	31
Lagos	18:42	19:23	41	Riyadh	17:16	17:41	25
Algeria	16:42	17:06	24	Kuwait	17:00	17:22	22
Tunisia	17:13	17:37	24	Manama	16:57	17:20	23
Tripoli-Libya	17:11	17:37	26	Tehran	17:01	17:18	17
Khartoum	17:31	18:03	32	Doha	16:55	17:19	24
Mogadishu	18:02	18:38	36	Abu Dhabi	17:45	18:09	24
Ankara	16:34	16:50	16	Dubai	17:40	18:03	23
Amman	16:43	17:05	22	Muscat	17:30	17:54	24
Damascus	16:37	16:58	21	Karachi	17:54	18:15	21
Jazan	17:47	18:17	30	Kuala Lumpur	19:15	19:41	26
Medina	17:44	18:11	27	Jakarta	18:10	18:40	30

(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	20:00	20:55	55	Washington	16:56	17:34	38
Brasilia	18:46	19:43	57	Ottawa	16:30	17:01	31
Santiago	19:56	21:02	66	London	16:02	16:08	6
Lima	18:36	19:35	59	Moscow	16:06	15:51	-15

(D)Rajab's first day is: Wednesday January 01,2025 23 Koiak 1741

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday				4	4	26	11	11	3	18	18	10
Sunday				5	5	27	12	12	4	19	19	11
Monday				6	6	28	13	13	5	20	20	12
Tuesday				7	7	29	14	14	6	21	21	13
Wednesday	1	Jan	23	8	8	30	15	15	7	22	22	14
Thursday	2	2	24	9	9	Tob	16	16	8	23	23	15
Friday	3	3	25	10	10	2	17	17	9	24	24	16



Sha'aban,1446 A.H. crescent statement

Sha'aban's crescent is born immediately after the conjunction that occurs at twelve o'clock and 37 minutes a.m. (U.T.) on Wednesday, 29 Rajab 1446 A.H., corresponding to 29/1/2025 A.D. (Sight Day).

On the sight day (Wednesday, 29/01/2025 A.D.):

- **In Makkah Moonset will occur with Sunset.**
 - **In Cairo Moonset will occur before Sunset by 3 minutes.**
 - **In Arabic and Islamic countries Moonset will occur before Sunset by (1 - 9 minutes).**
 - **The Crescent lags (2 –12minutes) after sunset in Dakar, Nouakchott, Moroco, Fez and Lagos.**
 - **Therefore, Thursday, 30.01.2024 A.D. is the day completing the month of Rajab 1446 A.H.**
 - **Consequently, The first day of Sha'aban 1446 A.H. is adopted to be Friday, 31.01.2025 A.D. according to the astronomical calculations.**
-

Ephemeris of Sha'aban 1446 H

(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Wednesday January 29,2025 12:37	Wednesday February 05,2025 08:03	Wednesday February 12,2025 13:54	Thursday February 20,2025 17:34
First Day	Last Day		Length
January 31,2025	February 28 ,2025		29 Days

(b) Observing conditions in Egypt for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	17:20	17:20	zero	Crescent blew the horizo	Crescent blew the horizo
Toshka	17:39	17:40	1		
Aswan	17:33	17:32	-1		
Qena	17:30	17:29	-1		
AL'Kharga	17:40	17:39	-1		
Asyut	17:35	17:33	-2		
Sohag	17:34	17:32	-2		
Faiyum	17:32	17:30	-2		
Tur	17:23	17:21	-2		
St Catherine	17:21	17:19	-2		
Taba	17:16	17:13	-3		
Cairo	17:30	17:27	-3		
Tanta	17:29	17:26	-3		
Alexandria	17:33	17:30	-3		
Port Said	17:23	17:20	-3		
Sallum	17:51	17:49	-2		

(c)Observing conditions of the crescent on the sight day

(1) In some Arab and Islamic cities (L.T.)

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	18:07	18:19	12	Makkah	18:09	18:09	0
Nouakchott	17:57	18:07	10	Al-Quds	17:11	17:06	-5
Marrakech	18:04	18:08	4	Baghdad	17:31	17:24	-7
Fez	17:48	17:50	2	Aden	18:00	18:02	2
Lagos	18:55	19:05	10	Riyadh	17:36	17:34	-2
Algeria	17:10	17:09	-1	Kuwait	17:24	17:18	-6
Tunisia	17:42	17:39	-3	Manama	17:18	17:14	-4
Tripoli-Libya	17:37	17:36	-1	Tehran	17:29	17:19	-10
Khartoum	17:46	17:49	3	Doha	17:16	17:12	-4
Mogadishu	18:13	18:18	5	Abu Dhabi	18:06	18:02	-4
Ankara	17:04	16:55	-9	Dubai	18:01	17:56	-5
Amman	17:08	17:03	-5	Muscat	17:50	17:46	-4
Damascus	17:03	16:58	-5	Karachi	18:15	18:08	-7
Jazan	18:04	18:05	1	Kuala Lumpur	19:26	19:22	-4
Medina	18:05	18:04	-1	Jakarta	18:18	18:17	-1

(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	19:53	20:13	20	Washington	17:26	17:40	14
Brasilia	18:49	19:12	23	Ottawa	17:06	17:16	10
Santiago	19:49	20:18	29	London	16:45	16:32	-13
Lima	18:41	19:07	26	Moscow	16:57	16:27	-30

(D)Sha'aban's first day is: Friday January 31,2025 23 Tobi 1741

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday				2	Feb	24	9	8	Mes	16	15	8	23	22	15
Sunday				3	2	25	10	9	2	17	16	9	24	23	16
Monday				4	3	26	11	10	3	18	17	10	25	24	17
Tuesday				5	4	27	12	11	4	19	18	11	26	25	18
Wednesday				6	5	28	13	12	5	20	19	12	27	26	19
Thursday				7	6	29	14	13	6	21	20	13	28	27	20
Friday	1	31	23	8	7	30	15	14	7	22	21	14	29	28	21



Ramadan,1446 A.H. crescent statement

Ramadan's crescent is born immediately after the conjunction that occurs at zero o'clock and 47 minutes a.m. (U.T.) on Friday, 29 sha'aban1446 A.H., corresponding to 28/02/2025 A.D. (Sight day).

On the sight day (Friday, 28/02/2025 A.D.):

- **The crescent lags sunset in Makkah by 33 minutes.**
 - **The crescent lags sunset in Cairo by 37 minutes.**
 - **Generally the Crescent lags (20 – 44 minutes) after sunset in Arabic and Islamic countries.**
 - **Consequently, The first day of Ramadan 1446 A.H. is adopted to be Saturday, 1.03.2025 A.D. according to the astronomical calculations.**
-

Ephemeris of Ramadan 1446 H

(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Friday February 28,2025 00:47	Thursday March 06,2025 16:33	Friday March 14,2025 06:56	Saturday March 22,2025 11:31
First Day	Last Day		Length
March 01,2025	March 29 ,2025		29 Days

(b) Observing conditions in Egypt for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	17:37	18:11	34	6.7	0.8 S
Toshka	17:56	18:30	35	6.9	1.0 S
Aswan	17:51	18:26	35	6.8	1.1 S
Qena	17:50	18:25	35	6.8	1.4 S
AL'Kharga	17:59	18:35	36	6.9	1.3 S
Asyut	17:56	18:31	35	6.8	1.5 S
Sohag	17:54	18:29	35	6.8	1.4 S
Faiyum	17:56	18:32	36	6.8	1.8 S
Tur	17:45	18:21	36	6.7	1.7 S
St Catherine	17:44	18:19	35	6.7	1.7 S
Taba	17:39	18:15	36	6.6	1.9 S
Cairo	17:53	18:30	37	6.7	2.0 S
Tanta	17:54	18:30	36	6.7	2.1 S
Alexandria	17:58	18:35	37	6.7	2.2 S
Port Said	17:48	18:25	37	6.6	2.2 S
Sallum	18:17	18:54	37	6.9	2.2 S

(c)Observing conditions of the crescent on the sight day

(1) In some Arab and Islamic cities (L.T.)

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	18:18	18:59	41	Makkah	18:25	18:58	33
Nouakchott	18:09	18:51	42	Al-Quds	17:36	18:12	36
Marrakech	18:29	19:13	44	Baghdad	17:58	18:33	35
Fez	18:16	19:00	44	Aden	18:09	18:40	31
Lagos	18:58	19:34	36	Riyadh	17:55	18:28	33
Algeria	17:41	18:25	44	Kuwait	17:47	18:20	33
Tunisia	18:13	18:55	42	Manama	17:38	18:10	32
Tripoli-Libya	18:04	18:44	40	Tehran	17:58	18:32	34
Khartoum	17:57	18:30	33	Doha	17:35	18:07	32
Mogadishu	18:13	18:42	29	Abu Dhabi	18:25	18:56	31
Ankara	17:39	18:17	38	Dubai	18:20	18:51	31
Amman	17:34	18:09	35	Muscat	18:08	18:38	30
Damascus	17:31	18:07	36	Karachi	18:33	19:02	29
Jazan	18:16	18:48	32	Kuala Lumpur	19:27	19:49	22
Medina	18:24	18:57	33	Jakarta	18:12	18:32	20

(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	19:23	19:47	24	Washington	17:59	Next day	
Brasilia	18:36	19:13	37	Ottawa	17:49	18:52	63
Santiago	19:19	19:51	32	London	17:40	18:29	49
Lima	18:31	19:12	41	Moscow	18:02	18:43	41

(D)Ramadan's first day is: Saturday March 01,2025 22 Meshir

1741

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday	1	Mar	22	8	8	29	15	15	6	22	22	13
Sunday	2	2	23	9	9	30	16	16	7	23	23	14
Monday	3	3	24	10	10	Par	17	17	8	24	24	15
Tuesday	4	4	25	11	11	2	18	18	9	25	25	16
Wednesday	5	5	26	12	12	3	19	19	10	26	26	17
Thursday	6	6	27	13	13	4	20	20	11	27	27	18
Friday	7	7	28	14	14	5	21	21	12	28	28	19



Shawal,1446 A.H. crescent statement

Shawal's crescent is born immediately after the conjunction that occurs at eleven o'clock a.m. (U.T.) on Saturday, 29 Ramadan 1446 A.H. , corresponding to 29/03/2025 A.D. (Sight Day).

On the sight day (Saturday, 29/03/2025 A.D.):

- **The crescent lags sunset in Makkah by 7 minutes.**
- **The crescent lags sunset in Cairo by 11 minutes.**
- **Generally the Crescent lags (3 – 19 minutes) after sunset in Arabic and Islamic countries.**
- **In Kuala Lumpur Moonset will occur before Sunset by five minutes, and in Jakarta Moonset will occur before Sunset by seven minutes.**
- **Consequently, The first day of Shawal (Eid al-Fitr) 1446 A.H. is adopted to be Monday, 30.03.2025 A.D. according to the astronomical calculations.**

Ephemeris of Shawal 1446 H

(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Saturday March 29,2025 11:00	Saturday April 05,2025 02:16	Sunday April 13,2025 00:24	Monday April 21,2025 01:37
First Day	Last Day		Length
March 30,2025	April 28 ,2025		30 Days

(b) Observing conditions in Egypt for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	17:47	17:56	9	1.3	1.4 N
Toshka	18:07	18:16	9	1.5	1.4 N
Aswan	18:03	18:12	9	1.5	1.3 N
Qena	18:05	18:14	9	1.5	1.2 N
AL'Kharga	18:13	18:23	10	1.6	1.2 N
Asyut	18:11	18:21	10	1.6	1.1 N
Sohag	18:09	18:19	10	1.6	1.2 N
Faiyum	18:13	18:24	11	1.7	1.0 N
Tur	18:02	18:12	10	1.5	1.1 N
St Catherine	18:01	18:10	9	1.5	1.1 N
Taba	17:57	18:07	10	1.5	1.0 N
Cairo	18:12	18:23	11	1.7	1.0 N
Tanta	18:13	18:24	11	1.7	0.9 N
Alexandria	18:18	18:29	11	1.7	0.9 N
Port Said	18:08	18:19	11	1.7	0.9 N
Sallum	18:37	18:49	12	1.9	0.9 N

(c) Observing conditions of the crescent on the sight day
(1) In some Arab and Islamic cities (L.T.)

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	18:22	18:38	16	Makkah	18:35	18:42	7
Nouakchott	18:17	18:33	16	Al-Quds	17:57	18:07	10
Marrakech	18:50	19:08	18	Baghdad	18:20	18:29	9
Fez	18:39	18:57	19	Aden	18:11	18:16	5
Lagos	18:56	19:06	10	Riyadh	18:08	18:15	7
Algeria	18:08	18:26	18	Kuwait	18:05	18:12	7
Tunisia	18:39	18:56	17	Manama	17:53	17:59	6
Tripoli-Libya	18:25	18:40	15	Tehran	18:23	18:31	8
Khartoum	18:03	18:11	8	Doha	17:49	17:55	6
Mogadishu	18:07	18:10	3	Abu Dhabi	18:38	18:43	5
Ankara	18:10	18:23	13	Dubai	18:34	18:39	5
Amman	17:54	18:04	10	Muscat	18:20	18:25	5
Damascus	17:53	18:04	11	Karachi	18:47	18:50	3
Jazan	18:22	18:29	7	Kuala Lumpur	19:22	19:17	-5
Medina	18:37	18:45	8	Jakarta	18:00	17:53	-7

(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	18:45	18:43	-2	Washington	18:29	19:05	36
Brasilia	18:15	19:27	12	Ottawa	18:27	19:07	40
Santiago	18:41	18:48	7	London	18:29	18:54	25
Lima	18:13	18:29	16	Moscow	19:01	19:18	17

(D) Shawal's first day is: Sunday March 30, 2025 21 Parmhat 1741

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday				7	5	27	14	12	4	21	19	11	28	26	18
Sunday	1	30	21	8	6	28	15	13	5	22	20	12	29	27	19
Monday	2	31	22	9	7	29	16	14	6	23	21	13	30	28	20
Tuesday	3	Apr	23	10	8	30	17	15	7	24	22	14			
Wednesday	4	2	24	11	9	Par	18	16	8	25	23	15			
Thursday	5	3	25	12	10	2	19	17	9	26	24	16			
Friday	6	4	26	13	11	3	20	18	10	27	25	17			



Zul'kada,1446 A.H. crescent statement

Thul'kada's crescent is born immediately after the conjunction that occurs at seven o'clock and 32 minutes p.m. (U.T.) on Sunday, 29 Shawal 1443 A.H. , corresponding to 27/04/2025 A.D. (Sight Day).

On the sight day (Sunday, 27/04/2020 A.D.):

- **In Cairo and in all Arab and Islamic countries, the crescent will not be born before sunset on that day.**
 - **In Makkah Moonset will occur before Sunset by 15 minutes.**
 - **In Cairo Moonset will occur before Sunset by 11 minutes.**
 - **In Arabic and Islamic countries Moonset will occur before Sunset by (2 - 31 minutes).**
 - **Therefore, Monday, 28.04.2025 A.D. is the day completing the month of Shawal 1446 A.H.**
 - **Consequently, The first day of Zul'kada 1446 A.H. is adopted to be Tuesday, 29.04.2025 A.D. according to the astronomical calculations.**
-

Ephemeris of Zul'kada 1446 H

(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Sunday April 27,2025 19:32	Sunday May 04,2025 13:53	Monday May 12,2025 16:58	Tuesday May 20,2025 12:00
First Day	Last Day	Length	
April 29,2025	May 27 ,2025	29 Days	

(b) Observing conditions in Egypt for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	17:58	17:44	-14	Moon not new	Moon not new
Toshka	18:17	18:04	-13		
Aswan	18:15	18:03	-12		
Qena	18:19	18:07	-12		
AL'Kharga	18:27	18:15	-12		
Asyut	18:26	18:15	-11		
Sohag	18:23	18:12	-11		
Faiyum	18:31	18:20	-11		
Tur	18:18	18:06	-12		
St Catherine	18:17	18:05	-12		
Taba	18:15	18:03	-12		
Cairo	18:30	18:19	-11		
Tanta	18:32	18:21	-11		
Alexandria	18:37	18:27	-10		
Port Said	18:27	18:17	-10		
Sallum	18:56	18:47	-9		

(c)Observing conditions of the crescent on the sight day
(1) In some Arab and Islamic cities (L.T.)

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	18:26	18:20	-6	Makkah	18:45	18:30	-15
Nouakchott	18:24	18:19	-5	Al-Quds	18:17	18:05	-12
Marrakech	19:09	19:07	-2	Baghdad	18:42	18:29	-13
Fez	19:01	18:59	-2	Aden	18:14	17:56	-18
Lagos	18:54	18:42	-12	Riyadh	18:21	18:06	-15
Algeria	18:33	18:31	-2	Kuwait	18:22	18:08	-14
Tunisia	19:04	19:00	-4	Manama	18:07	17:52	-15
Tripoli-Libya	18:46	18:40	-6	Tehran	18:48	18:34	-14
Khartoum	18:07	17:52	-15	Doha	18:02	17:46	-16
Mogadishu	18:02	17:41	-21	Abu Dhabi	18:51	18:33	-17
Ankara	18:39	18:31	-8	Dubai	18:48	18:30	-18
Amman	18:14	18:03	-11	Muscat	18:33	18:14	-19
Damascus	18:15	18:04	-11	Karachi	19:00	18:41	-19
Jazan	18:28	18:12	-16	Kuala Lumpur	19:17	18:49	-28
Medina	18:49	18:35	-14	Jakarta	17:48	17:17	-31

(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	18:08	17:44	-24	Washington	18:57	19:13	16
Brasilia	17:56	17:46	-10	Ottawa	19:04	19:25	21
Santiago	18:06	17:51	-15	London	19:18	19:24	6
Lima	17:57	17:52	-5	Moscow	20:00	19:59	-1

(D)Zul'kada's first day is: Tuesday April 29,2025 21 Parmoudi
1741

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday				5	3	25	12	10	2	19	17	9	26	24	16
Sunday				6	4	26	13	11	3	20	18	10	27	25	17
Monday				7	5	27	14	12	4	21	19	11	28	26	18
Tuesday	1	29	21	8	6	28	15	13	5	22	20	12	29	27	19
Wednesday	2	30	22	9	7	29	16	14	6	23	21	13			
Thursday	3	May	23	10	8	30	17	15	7	24	22	14			
Friday	4	2	24	11	9	Pas	18	16	8	25	23	15			



Zul'hejja,1446 A.H. crescent statement

Zul'hejja's crescent is born immediately after the conjunction that occurs at three o'clock and three minutes a.m. (U.T.) on Tuesday, 27/05/2025 A.D. (Sight Day).

On the sight day (Tuesday, 27/05/2025 A.D.):

- **The crescent lags sunset in Makkah by 38 minutes.**
- **The crescent lags sunset in Cairo by 47 minutes.**
- **Generally the Crescent lags (9 – 59 minutes) after sunset in Arabic and Islamic countries.**
- **Consequently, The first day of Zul'hejja 1446 A.H. is adopted to be Wednesday, 28.05.2025 A.D. according to the astronomical calculations.**
- **Consequently, a pause Arafat 1446 A.H. is adopted to be Thursday, 5.06.2025 A.D. according to the astronomical calculations.**

Consequently, Eid al-Adha 1446 A.H. is adopted to be Friday, 6.06.2025 A.D. according to the astronomical calculations.

Ephemeris of Zul'hejja 1446 H

(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Tuesday May 27,2025 03:03	Tuesday June 03,2025 03:42	Wednesday June 11,2025 07:46	Wednesday June 18,2025 19:21
First Day	Last Day	Length	
May 28,2025	June 25 ,2025	29 Days	

(b) Observing conditions in Egypt for the crescent on the sight day (L.T.)

City	Sun set	Moon set	Crescent lag	Relative altitude (degree)	Relative azimuth (degree)
Hala'ib	18:11	18:51	40	6.9	2.9 N
Toshka	18:31	19:11	40	7.2	2.8 N
Aswan	18:30	19:12	42	7.2	2.5 N
Qena	18:35	19:18	43	7.4	2.2 N
AL'Kharga	18:42	19:25	43	7.4	2.3 N
Asyut	18:43	19:27	44	7.5	1.9 N
Sohag	18:40	19:23	43	7.4	2.1 N
Faiyum	18:49	19:35	46	7.6	1.6 N
Tur	18:36	19:20	44	7.5	1.8 N
St Catherine	18:35	19:20	45	7.5	1.7 N
Taba	18:33	19:18	45	7.5	1.6 N
Cairo	18:49	19:36	47	7.6	1.4 N
Tanta	18:52	19:39	47	7.7	1.3 N
Alexandria	18:57	19:45	48	7.7	1.2 N
Port Said	18:47	19:35	48	7.6	1.2 N
Sallum	19:17	20:06	49	7.9	1.0 N

(c)Observing conditions of the crescent on the sight day

(1) In some Arab and Islamic cities (L.T.)

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Dakar	18:35	19:19	44	Makkah	18:57	19:35	38
Nouakchott	18:34	19:21	47	Al-Quds	18:37	19:24	47
Marrakech	19:30	20:25	55	Baghdad	19:04	19:51	47
Fez	19:22	20:20	58	Aden	18:21	18:53	32
Lagos	18:57	19:33	36	Riyadh	18:36	19:15	39
Algeria	18:58	19:57	59	Kuwait	18:40	19:23	43
Tunisia	19:29	20:27	58	Manama	18:23	19:03	40
Tripoli-Libya	19:08	20:01	53	Tehran	19:11	19:59	48
Khartoum	18:15	18:51	36	Doha	18:18	18:57	39
Mogadishu	18:03	18:28	25	Abu Dhabi	19:05	19:43	38
Ankara	19:07	20:04	57	Dubai	19:03	19:41	38
Amman	18:35	19:22	47	Muscat	18:46	19:22	36
Damascus	18:37	19:25	48	Karachi	19:15	19:50	35
Jazan	18:38	19:13	35	Kuala Lumpur	19:19	19:34	15
Medina	19:04	19:44	40	Jakarta	17:44	17:53	9

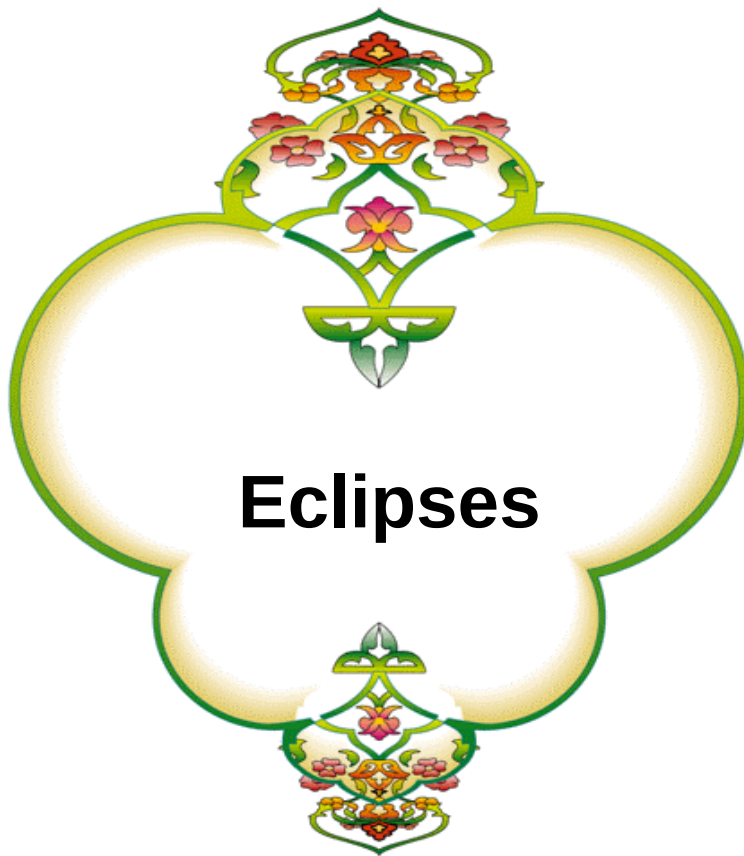
(2) In some world capitals

City	Sun set	Moon set	Lag	City	Sun set	Moon set	Lag
Cape Town	17:47	17:50	03	Washington	19:24	20:41	77
Brasilia	17:47	18:17	30	Ottawa	19:40	21:06	86
Santiago	17:44	18:03	19	London	20:03	21:27	84
Lima	17:50	18:28	38	Moscow	20:55	22:25	90

(D)Zul'hejja's first day is: Wednesday May 28,2025 20 Pashons

1741

Day	H	G	Q	H	G	Q	H	G	Q	H	G	Q
Saturday				4	31	23	11	7	30	18	14	7
Sunday				5	Jun	24	12	8	Pao	19	15	8
Monday				6	2	25	13	9	2	20	16	9
Tuesday				7	3	26	14	10	3	21	17	10
Wednesday	1	28	20	8	4	27	15	11	4	22	18	11
Thursday	2	29	21	9	5	28	16	12	5	23	19	12
Friday	3	30	22	10	6	29	17	13	6	24	20	13



Eclipses

Partial lunar eclipse Wednesday, September 18, 2024 AD.

The timing of its middle coincides with the timing of full moon, the month of RabeeAl'awal, 1446 AH.

The Earth's shadow covers almost 8% of the moon's surface.

It can be seen in and from the areas where the moon appears when it occurs including (Europe – Much of Asia – Africa –

North America– South America– Pacific – Atlantic – Indian Ocean– Arctic – Antarctica.).

All phases of the eclipse from its beginning to its end will take approximately four hours and six minutes. The eclipse takes from the beginning of the first partial eclipse until the end of the second partial eclipse, a period of approximately one hour and three minutes.

It can be seen in Egypt.

The following is a comprehensive statement about the phases of the eclipse for the areas in which it is seen:

Event	U.T. Time	Time in cairo	Visible* in cairo
Penumbral Eclipse begins	00:41:07	03:41:07	Yes
Partial Eclipse begins	02:12:58	05:12:58	Yes
Maximum Eclipse	02:44:18	05:44:18	Yes
Partial Eclipse ends	03:15:38	06:15:38	Yes
Penumbral Eclipse ends	04:47:27	07:47:27	No, below the horizon

*** The Moon is below the horizon in Cairo some of the time, so that part of the eclipse is not visible.**

Partial lunar eclipse Wednesday, September 18, 2024 AD.

Partial Lunar Eclipse of 2024 Sep 18

Ecliptic Conjunction = 02:35:37.1 TD (= 02:34:22.9 UT)

Greatest Eclipse = 02:45:24.7 TD (= 02:44:10.5 UT)

Penumbral Magnitude = 1.0372

P. Radius = 1.3003°

Gamma = -0.9792

Umbral Magnitude = 0.0848

U. Radius = 0.7697°

Axis = 1.0010°

Saros Series = 118

Member = 52 of 74

Sun at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 11h44m09.8s

Dec. = +01°42'52.9"

S.D. = 00°15'55.0"

H.P. = 00°00'08.8"

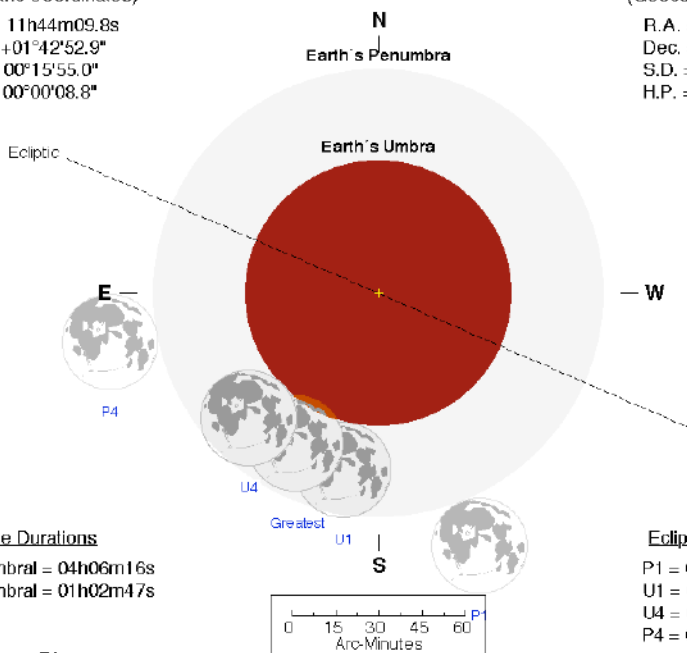
Moon at Greatest Eclipse
(Geocentric Coordinates)

R.A. = 23h46m06.0s

Dec. = -02°35'26.8"

S.D. = 00°16'42.8"

H.P. = 01°01'20.4"



Eclipse Durations

Penumbral = 04h06m16s

Umbral = 01h02m47s

Eclipse Contacts

P1 = 00:41:02 UT

U1 = 02:12:48 UT

U4 = 03:15:35 UT

P4 = 04:47:18 UT

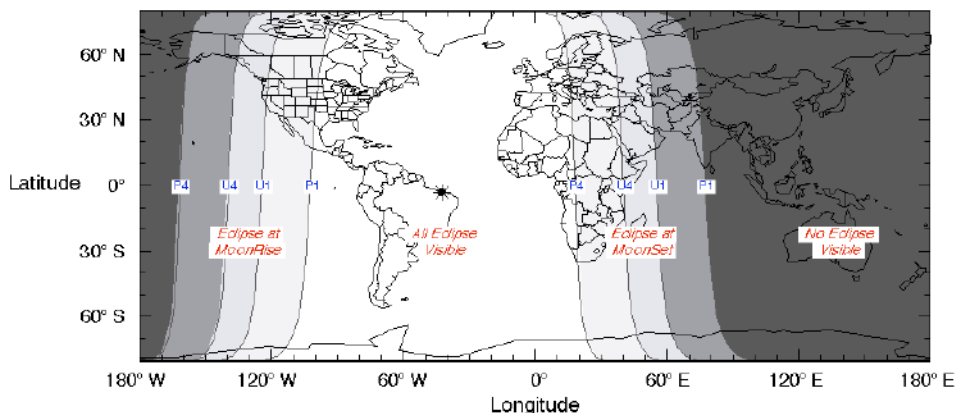
ΔT = 74 s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

F. Espenak, NASA's GSFC

eclipse.gsfc.nasa.gov/eclipse.html



2009 Apr 29

Annular solar eclipse Wednesday, October 2, 2024 AD.

The timing of its middle coincides with the conjunction of the month of Rabee al'akher 1446 AH.

It is seen as a annular eclipse in: s Chile and s Argentina.

It can be seen as a partial eclipse in (South in North America –

Much of South America – Pacific – Atlantic – Antarctica).

The annular eclipse covers an area 266.5 km wide and will last 7 minute 25 seconds.

At the maximum of the total eclipse, the lunar disk covers about 93.3 percent of the entire disk of the sun.

The eclipse will take from its beginning to its end approximately a period of six hours and four minutes.

(It cannot be seen in Egypt).

Next Annular Solar Eclipse will be on 17 Feb, 2026 AD.

The following is a comprehensive statement about the phases of the eclipse for the areas in which it is seen:

Event	U.T. Time
First location to see the partial eclipse begin	15:42:47
First location to see the full eclipse begin	16:50:24
Maximum Eclipse	18:44:51
Last location to see the full eclipse end	20:39:04
Last location to see the partial eclipse end	21:46:47

Annular solar eclipse

Wednesday, October 2, 2024 AD.

Annular Solar Eclipse of 2024 Oct 02

Geocentric Conjunction = 19:07:53.1 UT J.D. = 2460586.297142

Greatest Eclipse = 18:44:51.3 UT J.D. = 2460586.281150

Eclipse Magnitude = 0.9326 Gamma = -0.3510

Saros Series = 144 Member = 17 of 70

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 12h36m58.8s

Dec. = -03°59'03.5"

S.D. = 00°15'58.9"

H.P. = 00°00'08.8"

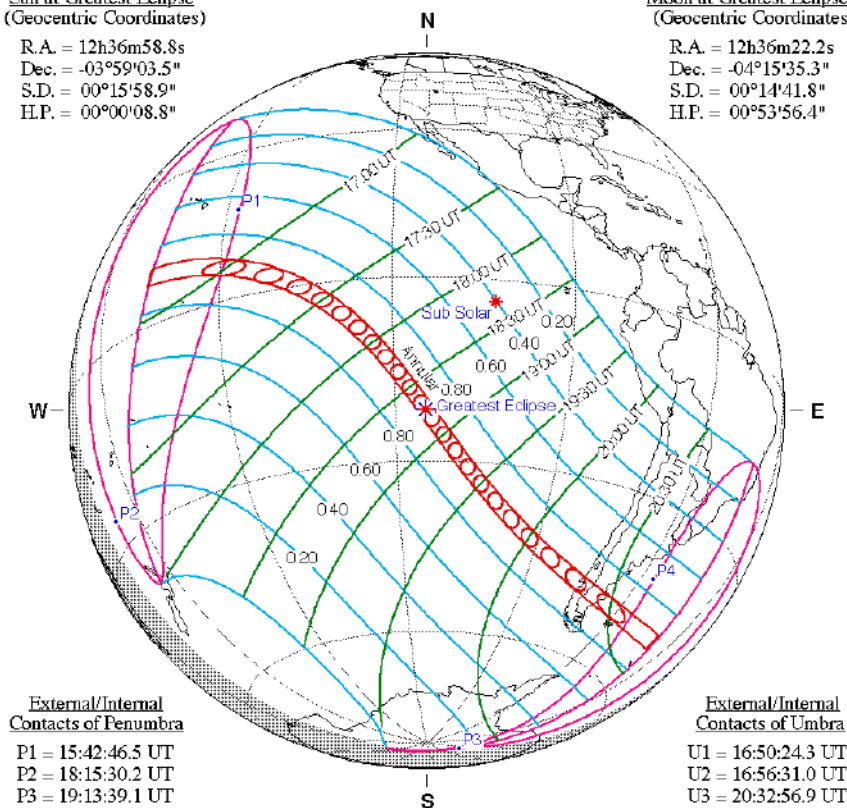
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 12h36m22.2s

Dec. = -04°15'35.3"

S.D. = 00°14'41.8"

H.P. = 00°53'56.4"



External/Internal Contacts of Penumbra

P1 = 15:42:46.5 UT

P2 = 18:15:30.2 UT

P3 = 19:13:39.1 UT

P4 = 21:46:47.1 UT

External/Internal Contacts of Umbra

U1 = 16:50:24.3 UT

U2 = 16:56:31.0 UT

U3 = 20:32:56.9 UT

U4 = 20:39:04.5 UT

Local Circumstances at Greatest Eclipse

Lat. = 21°57.5'S Sun Alt. = 69.3°

Long. = 114°28.2'W Sun Azm. = 31.1°

Path Width = 266.5 km Duration = 07m25.1s

Ephemeris & Constants

Eph. = Newcomb/JLE

ΔT = 81.8 s

k1 = 0.2724880

k2 = 0.2722810

Δb = 0.0" Δl = 0.0"

Geocentric Libration (Optical + Physical)

l = 0.19°

b = 0.42°

c = 21.58°

Brown Lun. No. = 1259



F. Espenak, NASA's GSFC - Fri, Jul 2,

sunearth.gsfc.nasa.gov/eclipse/eclipse.html

Total lunar eclipse

Friday, March 14, 2025 AD.

The timing of its middle coincides with the timing of full moon, the month of Ramadan, 1446 AH.

The Earth's shadow covers approximately 118 % of the moon's surface.

It can be seen in the areas where the moon appears when it occurs, including (Europe, Much of Asia, Much of Australia, Much of Africa, North America, South America, Pacific, Atlantic, Arctic, Antarctica.).

All phases of the eclipse from its beginning to its end will take approximately six hours and three minutes. The eclipse takes from the beginning of the first partial eclipse until the end of the second partial eclipse, a period of approximately three hours and 38 minutes.

The total eclipse takes approximately an hour and five minutes.

The following is a comprehensive statement about the phases of the eclipse for the areas in which it is seen:

Event	U.T. Time	Time in cairo	Visible* in cairo
Penumbral Eclipse begins	03:57:24	05:57:24	Yes
Partial Eclipse begins	05:09:33	07:09:33	No, below the horizon
Full Eclipse begins	06:25:59	08:25:59	
Maximum Eclipse	06:59:56	08:59:56	
Full Eclipse ends	07:31:23	09:31:23	
Partial Eclipse ends	08:47:48	10:47:48	
Penumbral Eclipse ends	10:00:01	12:00:01	

*** The Moon is below the horizon in Cairo some of the time, so that part of the eclipse is not visible.**

Total lunar eclipse

Friday, March 14, 2025 AD.

Total Lunar Eclipse of 2025 Mar 14

Ecliptic Conjunction = 06:55:48.0 TD (= 06:54:33.5 UT)

Greatest Eclipse = 06:59:56.2 TD (= 06:58:41.7 UT)

Penumbral Magnitude = 2.2595

P. Radius = 1.1899°

Gamma = 0.3484

Umbral Magnitude = 1.1784

U. Radius = 0.6537°

Axis = 0.3171°

Saros Series = 123

Member = 53 of 73

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 23h37m46.0s

Dec. = -02°24'16.8"

S.D. = 00°16'05.2"

H.P. = 00°00'08.8"

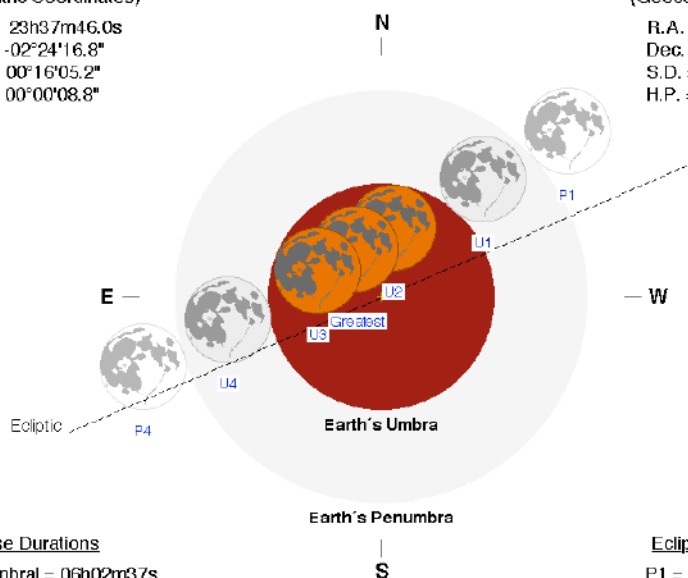
Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 11h38m23.0s

Dec. = +02°40'54.6"

S.D. = 00°14'52.8"

H.P. = 00°54'36.8"



Eclipse Durations

Penumbral = 06h02m37s

Umbral = 03h38m15s

Total = 01h05m24s

$\Delta T = 75$ s

Rule = CdT (Danjon)

Eph. = VSOP87/ELP2000-85

Eclipse Contacts

P1 = 03:57:24 UT

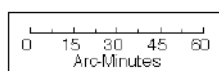
U1 = 05:09:33 UT

U2 = 06:25:59 UT

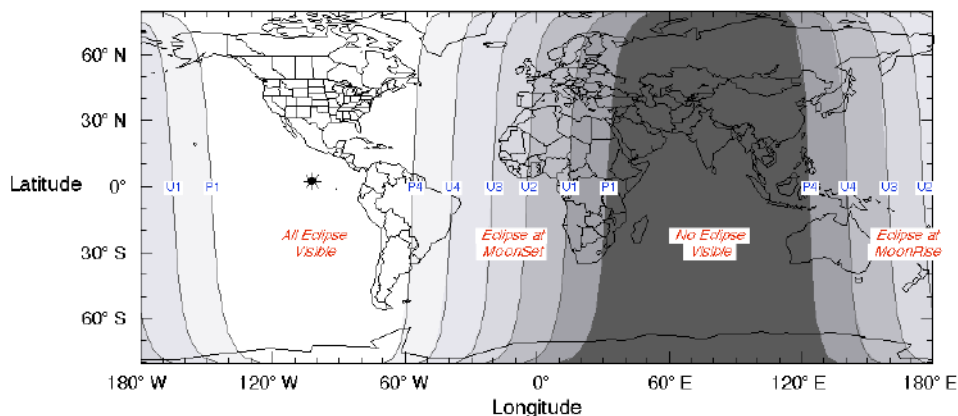
U3 = 07:31:23 UT

U4 = 08:47:48 UT

P4 = 10:00:01 UT



F. Espenak, NASA's GSFC
eclipse.gsfc.nasa.gov/eclipse.html



Partial solar eclipse

Saturday, March 29, 2025 AD.

The timing of its middle coincides with the conjunction of the month of Shawal for the year 1446 AH.

It can be seen in (Europe, North in Asia, North/West Africa, Much of North America, North in South America, Atlantic, Arctic.).

At the maximum of the partial eclipse, the disk of the moon covers about 94% of the disk of the sun.

The partial eclipse from its beginning to its end will take approximately three hours and fifty-three minutes.

It cannot be seen in Egypt.

Next Partial Solar Eclipse will be on 21 Sep 2025 AD.

The following is a comprehensive statement about the phases of the eclipse for the areas in which it is seen:

Event	U.T. Time
First location to see the partial eclipse begin	29 Mar, 08:50:35
Maximum Eclipse	29 Mar, 10:47:18
Last location to see the partial eclipse end	29 Mar, 12:43:36

Partial solar eclipse

Saturday, March 29, 2025 AD.

Partial Solar Eclipse of 2025 Mar 29

Geocentric Conjunction = 11:46:09.2 UT J.D. = 2460763.990384
Greatest Eclipse = 10:47:18.4 UT J.D. = 2460763.949519

Eclipse Magnitude = 0.9361 Gamma = 1.0405

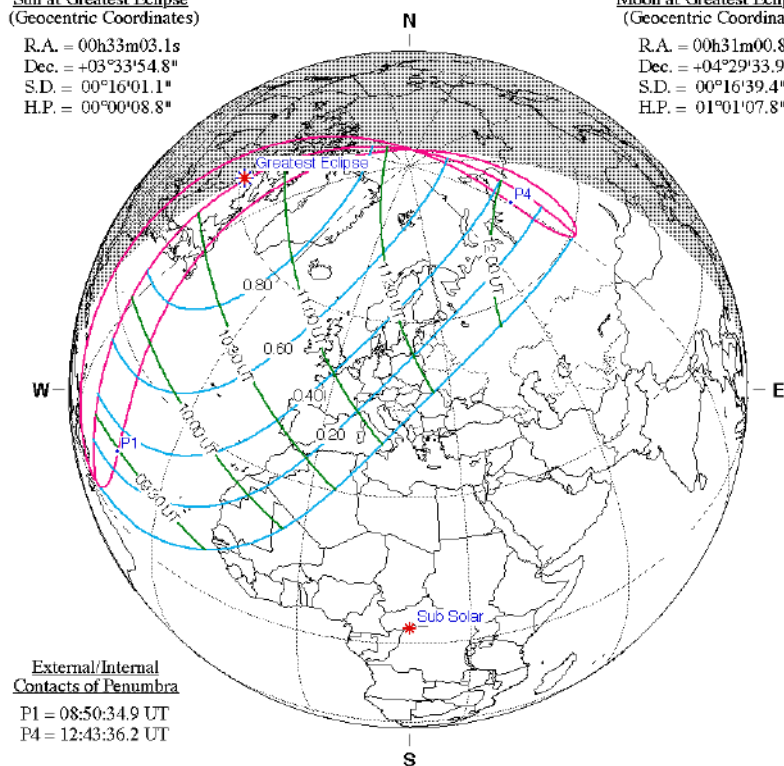
Saros Series = 149 Member = 21 of 71

Sun at Greatest Eclipse (Geocentric Coordinates)

R.A. = 00h33m03.1s
Dec. = +03°33'54.8"
S.D. = 00°16'01.1"
H.P. = 00°00'08.8"

Moon at Greatest Eclipse (Geocentric Coordinates)

R.A. = 00h31m00.8s
Dec. = +04°29'33.9"
S.D. = 00°16'39.4"
H.P. = 01°01'07.8"



External/Internal Contacts of Penumra

P1 = 08:50:34.9 UT
P4 = 12:43:36.2 UT

Ephemeris & Constants

Eph. = Newcomb/ILE
 $\Delta T = 82.3$ s
 $k1 = 0.2724880$
 $k2 = 0.2722810$
 $\Delta b = 0.0''$ $\Delta l = 0.0''$

Geocentric Libration (Optical + Physical)

$l = -2.00''$
 $b = -1.35''$
 $c = -21.73''$

Brown Lun. No. = 1265



F. Espenak, NASA's GSFC - Fri, Jul 2,
sunearth.gsfc.nasa.gov/eclipse/eclipse.html