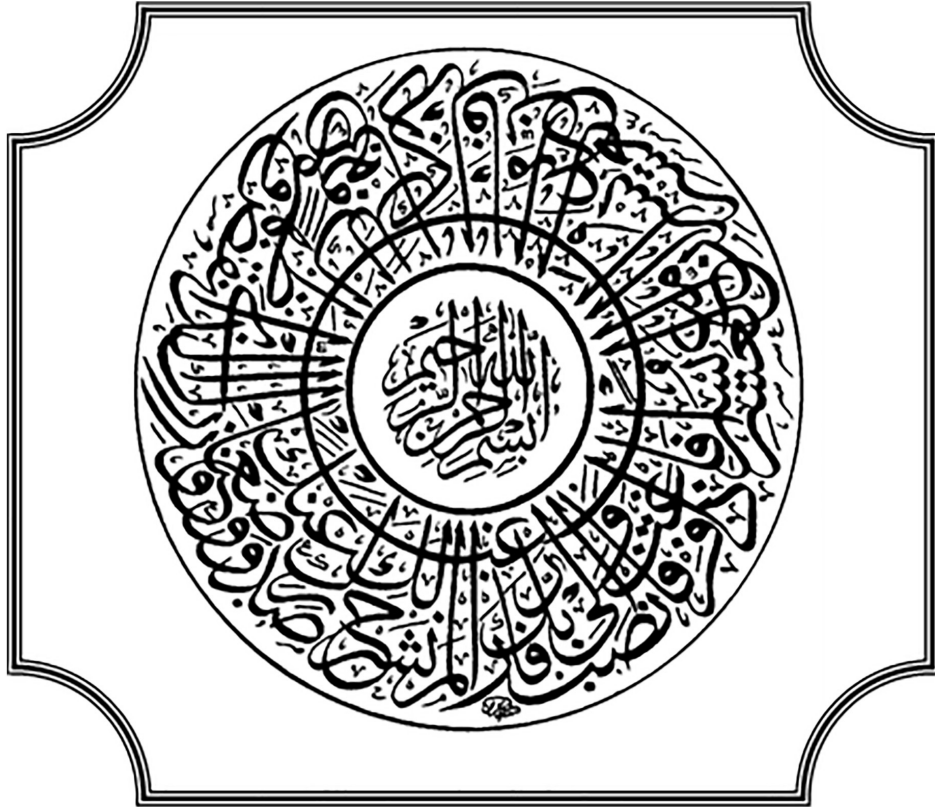




The Astronomical Guide for the Hijri year calendar, 1441 H.



High image quality of the solar corona , taken by the research team of the Solar Research Laboratory using Williams 5-inch telescope and ultra-sensitive digital camera during the total solar eclipse on March 29, 2006 at Salloum's plateau. Egypt



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**New Moon conjunctions
and the beginning
of Hijri months
For the year 1441 A.H.**

**New Moon conjunctions
and the beginning of Hijri months
For the year 1441 A.H**

The Month	New Moon conjunctions	Circumstances of crescent visibility according to the crescent lag after sunset (On the sight day)	Beginning of Hijri month	Length of Hijri month (day)
Mohar'rum	h m 10 37 Friday 30/8/2019 29/12/1440	On the sighting day (Friday, 30/8/2019), The crescent lags (1 - 27 minutes) after sunset in all Arab and Islamic countries.	Saturday 31/8/2019	30
Safar	h m 18 26 Saturday 28/9/2019 29/1/1441	on the sighting day (Saturday, 28/9/2019) The lunar crescent is absent after sunset in all Arab and Islamic countries, Except Dakar and Nouakchott. On that day the crescent lags Sunset despite the conjugation comes after sunset (This is an anomaly case that must be studied to interpret)	Monday 30/9/2019	29
Rabee Al'awal	h m 03 38 Monday 28/10/2019 29/2/1441	On the sighting day (Monday, 28/10/2019), The crescent lags (17 - 37 minutes) after sunset in all Arab and Islamic countries.	Tuesday 29/10/2019	30
Rabee Al'akher	h m 15 06 Tuesday 26/11/2019 29/3/1441	on the sighting day (Tuesday, 26/11/2019) The lunar crescent is absent after sunset in the majority of Arab and Islamic countries. On that day the crescent lags Sunset despite the conjugation comes after sunset (This is an anomaly case that must be studied to interpret)	Thursday 28/11/2019	29

Time, described above, according to the universal time

**New Moon conjunctions
and the beginning of Hijri months
For the year 1441 A.H (cont.)**

The Month	New Moon conjunctions	Circumstances of crescent visibility according to the crescent lag after sunset (On the sight day)	Beginning of Hijri month	Length of Hijri month (day)
Jumade Al'oula	h m 05 13 Thursday 26/12/2019 29/4/1441	On the sighting day (Thursday, 26/12/2019), The crescent lags (1 - 27 minutes) after sunset in all Arab and Islamic countries.	Friday 27/12/2019	30
Jumade Al'akhera	h m 21 42 Friday 24/1/2020 29/5/1441	on the sighting day (Friday, 24/1/2020) The lunar crescent is absent after sunset in all Arab and Islamic countries.	Sunday 26/1/2020	30
Rajab	h m 15 32 Sunday 23/2/2020 29/6/1441	on the sighting day (Sunday, 23/2/2020) The lunar crescent is absent after sunset in some Arab and Islamic countries.	Tuesday 25/2/2020	29
Sha'aban	h m 09 28 Tuesday 24/3/2020 29/7/1441	On the sighting day (Tuesday, 24/3/2020), The crescent lags (2- 18 minutes) after sunset in Arab and Islamic countries.	Wednesday 25/3/2020	30
Ramadan	h m 02 26 Thursday 23/4/2020 30/8/1441	on the sighting day (Wednesday, 22/4/2020) The lunar crescent is absent after sunset in all Arab and Islamic countries.	Friday 24/4/2020	30
Shawal	h m 17 39 Friday 22/5/2020 29/9/1441	on the sighting day (Friday, 22/5/2020) The lunar crescent is absent after sunset In the majority of Arab and Islamic countries.	Sunday 24/5/2020	29

Time, described above, according to the universal time

**New Moon conjunctions
and the beginning of Hijri months
For the year 1441 A.H (cont.)**

The Month	New Moon conjunctions	Circumstances of crescent visibility according to the crescent lag after sunset (On the sight day)	Beginning of Hijri month	Length of Hijri month (day)
Thul'kada	<p style="text-align: center;">h m 06 41 Sunday 21/6/2020 29/10/1441</p>	<p style="text-align: center;">On the sighting day (Sunday, 21/6/2020), The crescent lags (5 - 26 minutes) after sunset in Arab and Islamic countries.</p>	Monday 22/6/2020	30
Thul'hejja	<p style="text-align: center;">h m 17 33 Monday 20/7/2020 29/11/1441</p>	<p style="text-align: center;">on the sighting day (Monday, 20/7/2020) The lunar crescent is absent after sunset In the majority of Arab and Islamic countries. On that day the crescent lags Sunset despite the conjugation comes after sunset (This is an anomaly case that must be studied to interpret)</p>	Wednesday 22/7/2020	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, and
- (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 Higris month.

Hhgric and Gregorian:

H and D.



Mohar'rum





Birth day conditions of Mohar'rum - crescent,1441 A.H.

Mohar'rum's crescent exist after the conjunction that occurs on Friday, 29 Thul'hejja, 1440A.H. , corresponding to 30/8/2019 A.D. (Sight Day) at ten o'clock and 37 minute a.m. (U.T.)

On the sight day (Friday, 30/8/2019 A.D):

- The crescent lags sunset in Makkah by 18 minutes.
- The crescent lags sunset in Cairo by 21minutes.
- Generally the Crescent lags (1 - 27 minutes) after sunset in Arab and Islamic countries.
- Consequently,The first day of Mohar'rum 1441 A.H. is adopted to be Saturday, 31.8.2019 A.D. from the astronomical point of view.

Ephemeris of
Mohar'rum, 1441 A.H.
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
 Friday, 30.8.2019 A.D.	 Friday, 6.9.2019 A.D.	 Saturday, 14.9.2019 A.D.	 Sunday, 22.9.2019 A.D.
10 h 37 m	03 h 10 m	04 h 33 m	02 h 41 m
First day	Last day	Length	
Saturday, 131.8.2019 A.D.	Sunday, 29.9.2019 A.D.	30 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags (m)	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	17	52	18	11	19	3.465	0.767 S
Toshka	18	11	18	31	20	3.607	0.614 S
Aswan	18	08	18	28	20	3.602	0.484 S
Qena	18	11	18	31	20	3.632	0.274 S
Al'kharga	18	20	18	40	20	3.691	0.278 S
Assiut	18	18	18	38	20	3.682	0.128 S
Sohag	18	15	18	35	20	3.663	0.206 S
Fayoum	18	21	18	42	21	3.703	0.098 S
Tur	18	90	18	29	20	3.625	0.093 S
Saint Catherine	18	80	18	28	20	3.619	0.071 S
Taba	18	50	18	25	20	3.601	0.005 S
Cairo	18	20	18	41	21	3.695	0.161 S
Tanta	18	22	18	43	21	3.703	0.243 S
Alexandria	18	26	18	48	22	3.729	0.320 S
Port Said	18	17	18	38	21	3.671	0.253 S
Salloum	18	46	19	80	22	3.845	0.500 S

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags
	h	m	h	m	m		h	m	h	m	m
Dakar	18	23	18	48	25	Makkah	18	39	18	57	18
Nouakchott	18	19	18	44	25	Jerusalem	18	06	18	27	21
Marrakech	18	58	19	24	26	Baghdad	18	30	18	51	21
Fez	18	48	19	15	27	Aden	18	12	18	27	15
Lagos	18	54	19	14	20	Riyadh	18	14	18	32	18
Algiers	18	19	18	45	26	Kuwait	18	12	18	31	19
Tunis	18	51	19	16	25	Manama	17	59	18	17	18
Tripoli - Libya	18	35	18	59	24	Tehran	18	35	18	55	20
Khartoum	18	04	18	21	17	Doha	17	55	18	12	17
Mogadishu	18	03	18	16	13	Abu Dhabi	18	43	19	00	17
Ankara	18	23	18	47	24	Dubai	18	40	18	57	17
Amman	18	03	18	24	21	Muscat	18	25	18	41	16
Damascus	18	03	18	24	21	Karachi	18	52	19	08	16
Jazan	18	24	18	41	17	Kuala Lumpur	19	19	19	23	04
Medina	18	42	19	01	19	Jakarta	17	53	17	54	01

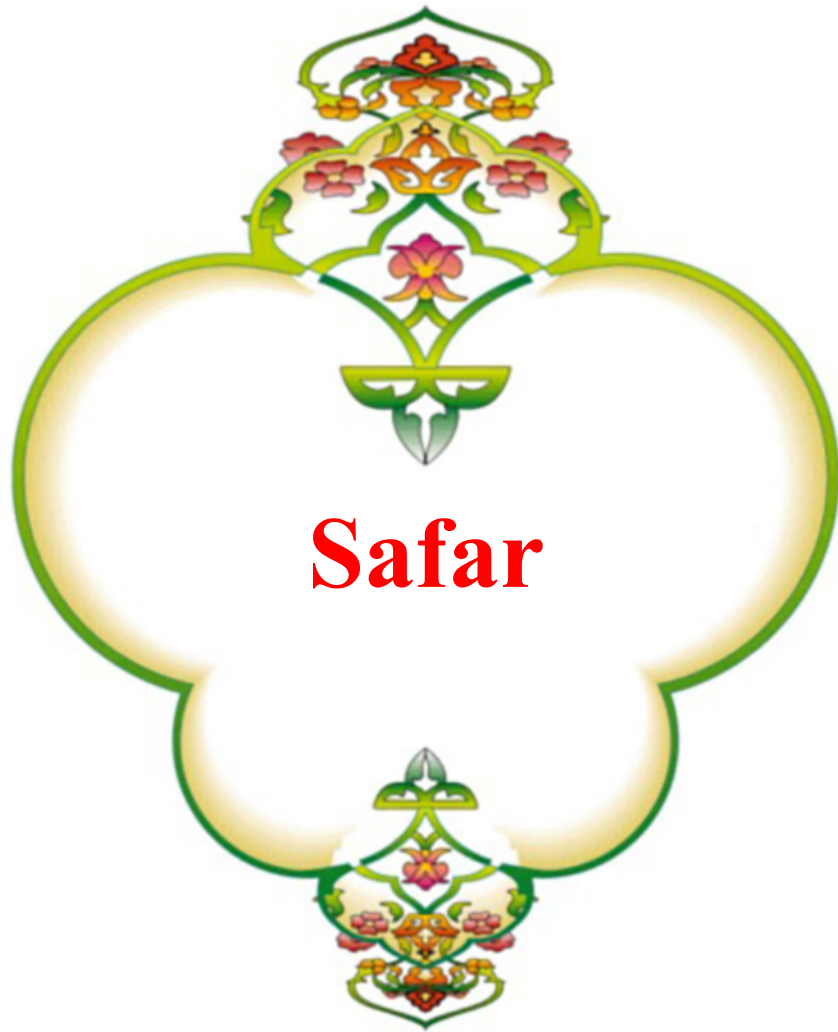
(2) In some Western capitals

Washington	18	41	19	16	35	Cape Town	18	26	18	34	18	08
Ottawa	18	44	19	19	35	Brasilia	18	05	18	30	18	25
London	18	52	19	21	29	Santiago	18	23	18	49	18	26
Moscow	19	29	19	57	28	Lima	18	04	18	35	18	31

(D) Mohar'rum, 1441 A.H.

The first day of Mohar'rum 1441 A.H. is adopted to be Saturday, 31.8.2019 A.D.

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



Safar

Birth day conditions of Safar - crescent,1441 A.H.





Safar's crescent is born immediately after the conjunction that occurs on Saturday, 29 Muharram 1441 A.H. , corresponding to 28/9/2019A.D. (Sight Day) at six o'clock and 26 minutes p.m. (U.T.)

On the sight day (Saturday, 28/9/2019A.D.):

- At Cairo and in all Arab and Islamic countries, the crescent phase will not exist after sunset on that day, Except Dakar and Nouakchott.
- On that day the crescent lags Sunset in the majority of Arab and Islamic countries despite the conjugation comes after sunset (This is an anomaly case that must be studied to interpret).
- Therefore, Sunday, 29.9.2019 A.D. is shifted to complete the month of Mohar'rum 1441 A.H.
- **Consequently, The first day of Safar 1441 A.H. is adopted to be Monday, 30.9.2019 A.D. from the astronomical point of view.**

**Ephemeris of
Safar,1440 A.H.**

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

Conjunction	First Quarter	Full Moon	Last Quarter
 Saturday, 28.9.2019 A.D.	 Saturday, 5.10.2019 A.D.	 Sunday, 13.10.2019 A.D.	 Monday, 21.10.2019 A.D.
18 h 26m	16h 47 m	21 h 08 m	12h 39 m
First day	Last day	Length	
Monday, 30.9.2019 A.D.	Monday, 28.10.2019 A.D.	29 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags (m)	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	17	24	17	30	06	Moon not new	
Toshka	17	43	17	49	06	Moon not new	
Aswan	17	39	17	46	07	Moon not new	
Qena	17	39	17	47	08	Moon not new	
Al'kharga	17	49	17	57	08	Moon not new	
Assiut	17	45	17	53	08	Moon not new	
Sohag	17	43	17	51	08	Moon not new	
Fayoum	17	46	17	55	09	Moon not new	
Tur	17	35	17	43	08	Moon not new	
Saint Catherine	17	34	17	42	08	Moon not new	
Taba	17	30	17	39	09	Moon not new	
Cairo	17	45	17	54	09	Moon not new	
Tanta	17	45	17	55	10	Moon not new	
Alexandria	17	49	17	59	10	Moon not new	
Port Said	17	40	17	50	10	Moon not new	
Salloum	18	08	18	19	11	Moon not new	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags
	h	m	h	m	m		h	m	h	m	m
Dakar	18	01	18	11	10	Makkah *	18	11	18	16	05
Nouakchott	17	55	18	05	10	Jerusalem *	17	28	17	38	10
Marrakech*	18	21	18	35	14	Baghdad*	17	51	18	01	10
Fez*	18	08	18	24	16	Aden *	17	52	17	52	Zero
Lagos*	18	39	18	43	04	Riyadh *	17	43	17	49	06
Algiers	17	36	17	52	16	Kuwait *	17	37	17	45	08
Tunis *	18	07	18	22	15	Manama *	17	27	17	33	06
Tripoli - Libya*	17	56	18	09	13	Tehran *	17	53	18	03	10
Khartoum*	17	41	17	45	04	Doha *	17	24	17	29	05
Mogadishu*	17	52	17	48	-04	Abu Dhabi *	18	13	18	17	04
Ankara*	17	36	17	50	14	Dubai *	18	09	18	13	04
Amman *	17	25	17	35	10	Muscat *	17	56	17	59	03
Damascus *	17	23	17	34	11	Karachi *	18	22	18	25	03
Jazan *	18	01	18	04	03	Kuala Lumpur*	19	06	18	55	-11
Medina *	18	12	18	18	06	Jakarta *	17	47	17	31	-16

(2) In some Western capitals

Washington*	17	55	18	20	25	Cape Town*	18	46	18	31	-15
Ottawa	17	49	18	15	26	Brasilia	18	08	18	13	05
London*	17	46	18	09	23	Santiago	18	43	18	46	03
Moscow*	18	13	18	38	25	Lima	18	04	18	15	11

(D) Safar,1441 A.H.

The first day of Safar 1441 A.H. is adopted to be Monday, 30.9.2019 A.D.

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

(*) Moon not new



**Rabee
Al'awal**

Birth day conditions of Rabee Al'awal - crescent,1441 A.H.





Rabee Al'awal's crescent is born immediately after the conjunction that occurs on Monday, 29 Safar 1441 A.H. , corresponding to 28/10/2019 A.D. (Sight Day) at three o'clock and 38 minutes a.m. (U.T.)

On the sight day (Monday, 28/10/2019 A.D.):

- The crescent lags sunset in Makkah by 30 minutes.
- The crescent lags sunset in Cairo by 32 minutes.
- Generally the crescent lags (17 - 37 minutes) after sunset in Arab and Islamic countries.

• Consequently, The first day of Rabee Al'awal 1441 A.H. is adopted to be Tuesday, 29.10.2019 A.D. from the astronomical point of view.

Ephemeris of
Rabee Al'awal,1441 A.H.
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
 Monday, 28.10.2019 A.D.	 Monday, 4.11.2019 A.D.	 Tuesday, 12.11.2019 A.D.	 Tuesday, 19.11.2019 A.D.
03 h 38 m	10h 23 m	13 h 34 m	21 h 11 m
First day	Last day	Length	
Tuesday, 29.10.2019 A.D.	Wednesday, 27.11.2019 A.D.	30 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	16	58	17	29	31	6.014	1.123 S
Toshka	17	18	17	49	31	6.132	1.289 S
Aswan	17	12	17	43	31	6.055	1.474 S
Qena	17	10	17	42	32	5.986	1.751 S
Al'kharga	17	20	17	52	32	6.074	1.725 S
Assiut	17	15	17	47	32	5.983	1.928 S
Sohag	17	13	17	45	32	5.996	1.831 S
Fayoum	17	14	17	46	32	5.898	2.214 S
Tur	17	04	17	36	32	5.881	1.992 S
Saint Catherine	17	02	17	34	32	5.860	2.023 S
Taba	16	57	17	29	32	5.799	2.114 S
Cairo	17	11	17	43	32	5.855	2.296 S
Tanta	17	12	17	44	32	5.825	2.396 S
Alexandria	17	15	17	48	33	5.826	2.484 S
Port Said	17	06	17	38	32	5.772	2.417 S
Salloum	17	34	18	07	33	5.913	2.672 S

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags
	h	m	h	m	m		h	m	h	m	m
Dakar	17	43	18	20	37	Makkah	17	47	18	17	30
Nouakchott	17	33	18	10	37	Jerusalem	16	53	17	25	32
Moroco	17	46	18	23	37	Baghdad	17	14	17	45	31
Fez	17	31	18	08	37	Aden	17	35	18	3	28
Lagos	18	27	19	01	34	Riyadh	17	16	17	46	30
Algeria	16	55	17	31	36	Kuwait	17	05	17	35	30
Tunisia	17	27	18	02	35	Manama	16	58	17	28	30
Tripoli - Libya	17	20	17	54	34	Tehran	17	13	17	44	31
Khartoum	17	22	17	53	31	Doha	16	56	17	25	29
Mogadishu	17	44	18	11	27	Abu Dhabi	17	45	18	14	29
Ankara	16	52	17	25	33	Dubai	17	41	18	09	28
Oman	16	50	17	22	32	Muscat	17	29	17	57	28
Damascus	16	47	17	19	32	Karachi	17	54	18	21	27
Jizan	17	41	18	10	29	Kuala Lumpur	18	57	19	16	19
Medina	17	44	18	15	31	Jakarta	17	45	18	02	17

(2) In some Western capitals

Washington	17	12	17	57	45	Cape Town	19	10	19	37	27
Ottawa	16	56	17	40	44	Brasilia	18	14	18	55	41
London	16	41	17	19	38	Santiago	19	06	19	50	44
Moscow	16	59	17	35	36	Lima	18	07	18	53	46

(D) Rabee Al'awal, 1441 A.H.

The first day of Rabee Al'awal 1441 A.H. is adopted to be Tuesday, 29.10.2019 A.D.

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



**Rabee
Al'akher**





Birth day conditions of Rabee Al'akher - crescent,1441 A.H.

Rabee Al'akher's crescent is born immediately after the conjunction that occurs on Tuesday, 29 Rabee Al'awal's 1441 A.H. , corresponding to 26/11/2019 A.D. (Sight Day) at three o'clock and six minutes p.m. (U.T.)

On the sight day (Tuesday, 26/11/2019 A.D.):

- In Cairo and in the majority of Arab and Islamic countries, the crescent phase will not exist after sunset on that day.
- on that day the crescent lags Sunset in the majority of Arab and Islamic countries despite the conjunctions comes after sunset (This is an anomaly case that must be studied to interpret).
- Therefore, Wednesday, 27.11.2019 A.D. is shifted to complete the month of Rabee Al'awal's 1441 A.H.
- Consequently, the first day of Rabee Al'akher 1441 A.H. is adopted to be Thursday, 28.11.2019 A.D. from the astronomical point of view.

Ephemeris of
Rabee Al'akher, 1441 A.H.
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
 Tuesday, 26.11.2019 A.D.	 Wednesday, 4.12.2019 A.D.	 Thursday, 12.12.2019 A.D.	 Thursday, 19.12.2019 A.D.
15 h 06 m	06 h 58 m	05 h 12 m	04 h 57 m
First day	Last day	Length	
Thursday, 28.11.2019 A.D.	Thursday, 26.12.2019 A.D.	29 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	16	48	16	51	03	Moon not new	Moon not new
Toshka	17	07	17	10	03	0,343	2,432 N
Aswan	17	00	17	03	03	Moon not new	Moon not new
Qena	16	56	17	00	04	Moon not new	Moon not new
Al'kharga	17	08	17	12	04	0,463	2,328 N
Assiut	17	01	17	05	04	Moon not new	Moon not new
Sohag	17	00	17	04	04	Moon not new	Moon not new
Fayoum	16	58	17	03	05	Moon not new	Moon not new
Tur	16	49	16	53	04	Moon not new	Moon not new
Saint Catherine	16	47	16	51	04	Moon not new	Moon not new
Taba	16	42	16	46	04	Moon not new	Moon not new
Cairo	16	55	17	00	05	Moon not new	Moon not new
Tanta	16	54	16	59	05	Moon not new	Moon not new
Alexandria	16	58	17	03	05	Moon not new	Moon not new
Port Said	16	48	16	53	05	Moon not new	Moon not new
Salloum	17	16	17	22	06	0,730	2,046 N

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags m	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags m
	h	m	h	m			h	m	h	m	
Dakar	17	37	17	46	09	Makkah *	17	37	17	39	02
Nouakchott	17	26	17	35	09	Jerusalem *	16	35	16	40	05
Moroco	17	29	17	39	10	Baghdad*	16	55	16	59	04
Fez	17	12	17	22	10	Aden *	17	30	17	30	Zero
Lagos	18	27	18	32	05	Riyadh *	17	03	17	05	02
Algeria	16	33	16	43	10	Kuwait *	16	49	16	52	03
Tunisia	17	04	17	13	09	Manama *	16	45	16	47	02
Tripoli - Libya	17	01	17	09	08	Tehran *	16	52	16	56	04
Khartoum	17	16	17	18	02	Doha *	16	43	16	44	01
Mogadishu*	17	46	17	44	-02	Abu Dhabi *	17	33	17	34	01
Ankara*	16	26	16	33	07	Dubai *	17	28	17	29	01
Amman *	16	32	16	37	05	Muscat *	17	18	17	18	00
Damascus *	16	27	16	32	05	Karachi *	17	42	17	41	-01
Jazan *	17	34	17	34	Zero	Kuala Lumpur*	18	59	18	49	-10
Medina *	17	32	17	35	03	Jakarta *	17	53	17	40	-13

(2) In some Western capitals

Washington	16	47	17	07	20	Cape Town	19	37	19	32	-05
Ottawa	16	24	16	44	20	Brasilia	18	27	18	37	10
London	16	00	16	13	15	Santiago	19	33	19	44	11
Moscow	16	07	16	21	14	Lima	18	18	18	33	15

(D) Rabee Al'akher, 1441 A.H.

The first day of Rabee Al'akher 1441 A.H. is adopted to be Thursday, 28.11.2019 A.D.

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

(*) Moon not new



**Jumade
Al'oula**

Birth day conditions of Jumade Al'oula - crescent, 1441 A.H.





Jumade Al'oula's crescent is born immediately after the conjunction that occurs on Thursday, 29 Rabee Al'akher's 1441 A.H. , corresponding to 26/12/2019 A.D. (Sight Day) at five o'clock and 13 minutes a.m. (U.T.)

On the sight day (Thursday, 26/12/2019 A.D.):

- **The crescent lags sunset in Makkah by 17 minutes.**
- **The crescent lags sunset in Cairo by 18 minutes.**
- **Generally the Crescent lags (9 - 27 minutes) after sunset in Arab and Islamic countries.**

• Consequently, The first day of Jumade Al'oula 1441A.H. is adopted to be Friday, 27/12/2019 A.D. from the astronomical point of view.

Ephemeris of
Jumade Al'oula, 1441 A.H.
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
			
Thursday, 26.12.2019 A.D. 05 h 13 m	Friday, 3.01.2020 A.D. 04 h 45 m	Friday, 10.01.2020 A.D. 19 h 21 m	Friday, 17.01.2020 A.D. 12 h 58 m
First day	Last day	Length	
Friday, 27.12.2019 A.D.	Saturday, 25.01.2020 A.D.	30 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	16	57	17	15	18	2.959	1.927 N
Toshka	17	16	17	34	18	3.080	2.025 N
Aswan	17	09	17	26	17	2.967	2.136 N
Qena	17	04	17	22	18	2.858	2.299 N
Al'kharga	17	16	17	34	18	2.966	2.285 N
Assiut	17	08	17	26	18	2.840	2.403 N
Sohag	17	07	17	25	18	2.863	2.346 N
Fayoum	17	05	17	23	18	2.719	2.566 S
Tur	16	56	17	14	18	2.712	2.434 N
Saint Catherine	16	54	17	11	17	2.685	2.451 N
Taba	16	48	17	05	17	2.604	2.499 N
Cairo	17	01	17	19	18	2.663	2.610 S
Tanta	17	01	17	19	18	2.622	2.666 S
Alexandria	17	04	17	22	18	2.621	2.718 S
Port Said	16	55	17	12	17	2.558	2.673 S
Salloum	17	23	17	41	18	2.721	2.839 S

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags
	h	m	h	m	m		h	m	h	m	m
Dakar	17	48	18	15	27	Makkah	17	46	18	03	17
Nouakchott	17	35	18	01	26	Jerusalem	16	41	16	58	17
Moroco	17	35	17	58	23	Baghdad	17	01	17	16	15
Fez	17	17	17	39	22	Aden	17	41	17	58	17
Lagos	18	39	19	03	24	Riyadh	17	12	17	28	16
Algeria	16	37	16	58	21	Kuwait	16	56	17	11	15
Tunisia	17	09	17	28	20	Manama	16	52	17	08	15
Tripoli - Libya	17	07	17	27	20	Tehran	16	57	17	11	14
Khartoum	17	26	17	45	19	Doha	16	51	17	06	15
Mogadishu	17	59	18	17	18	Abu Dhabi	17	41	17	56	15
Ankara	16	29	16	45	16	Dubai	17	36	17	51	15
Oman	16	38	16	55	17	Muscat	17	26	17	40	14
Damascus	16	33	16	49	16	Karachi	17	50	18	03	13
Jizan	17	44	18	01	17	Kuala Lumpur	19	12	19	21	09
Medina	17	40	17	57	17	Jakarta	18	07	18	16	09

(2) In some Western capitals

Washington	16	52	17	24	32	Cape Town	19	58	20	21	23
Ottawa	16	25	16	56	31	Brasilia	18	43	19	16	33
London	15	56	16	13	17	Santiago	19	54	20	30	36
Moscow	16	01	16	09	10	Lima	18	33	19	10	37

(D) Jumade Al'oula, 1441 A.H.

The first day of Jumade Al'oula 1441 A.H. is adopted to Friday, 27/12/2019 A.D.

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



**Jumade
Al'akhera**

Birth day conditions of Jumade Al'akhera - crescent,1441 A.H.





Jumade Al'akhera's crescent is born immediately after the conjunction that occurs at nine o'clock and 42 minutes p.m. (U.T.) on Friday, 29 Jumade Al'oula 1441A.H. , corresponding to 24/01/2020 A.D. (Sight Day).

On the sight day (Friday, 24/01/2020 A.D.):

- In Cairo and in all Arab and Islamic countries , the crescent phase will not exist after sunset on that day.
- Therefore, Saturday, 25.01.2020 A.D. is shifted to the month of Jumade Al'oula 1441 A.H.
- Consequently, The first day of Jumade Al'akhera 1441 A.H. is adopted to be Sunday, 26.01.2020 A.D. from the astronomical point of view.

Ephemeris of
Jumade Al'akhera,1441 A.H.

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

Conjunction	First Quarter	Full Moon	Last Quarter
 Friday, 24.01.2020 A.D.	 Sunday, 2.02.2020 A.D.	 Sunday, 9.02.2020 A.D.	 Saturday, 15.02.2020 A.D.
21 h 42m	01 h 42 m	07 h 33 m	22 h 17 m
First day	Last day	Length	
Sunday, 26.01.2020 A.D.	Monday, 24.02.2020 A.D.	30 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	17	16	16	55	-21	Moon not new	
Toshka	17	35	17	15	-20	Moon not new	
Aswan	17	28	17	07	-21	Moon not new	
Qena	17	25	17	03	-22	Moon not new	
Al'kharga	17	36	17	15	-21	Moon not new	
Assiut	17	29	17	07	-22	Moon not new	
Sohag	17	29	17	07	-22	Moon not new	
Fayoum	17	27	17	04	-23	Moon not new	
Tur	17	18	16	55	-23	Moon not new	
Saint Catherine	17	16	16	53	-23	Moon not new	
Taba	17	11	16	47	-24	Moon not new	
Cairo	17	24	17	01	-23	Moon not new	
Tanta	17	24	17	00	-24	Moon not new	
Alexandria	17	27	17	03	-24	Moon not new	
Port Said	17	18	16	54	-24	Moon not new	
Salloum	17	46	17	23	-23	Moon not new	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags
	h	m	h	m	m		h	m	h	m	m
Dakar	18	04	17	54	-10	Makkah	18	05	17	44	-21
Nouakchott	17	53	17	41	-12	Jerusalem	17	05	16	40	-25
Moroco	17	58	17	40	-18	Baghdad	17	25	16	58	-27
Fez	17	42	17	22	-20	Aden	17	57	17	38	-19
Lagos	18	52	18	41	-11	Riyadh	17	32	17	09	-23
Algeria	17	04	16	42	-22	Kuwait	17	19	16	53	-26
Tunisia	17	35	17	12	-23	Manama	17	14	16	49	-25
Tripoli - Libya	17	31	17	09	-22	Tehran	17	22	16	53	-29
Khartoum	17	43	17	24	-19	Doha	17	11	16	47	-24
Mogadishu	18	11	17	55	-16	Abu Dhabi	18	02	17	37	-25
Ankara	16	57	16	28	-29	Dubai	17	56	17	31	-25
Oman	17	01	16	36	-25	Muscat	17	46	17	21	-25
Damascus	16	57	16	31	-26	Karachi	18	10	17	43	-27
Jizan	18	01	17	41	-20	Kuala Lumpur	19	24	19	00	-24
Medina	18	00	17	38	-22	Jakarta	18	17	17	55	-22

(2) In some Western capitals

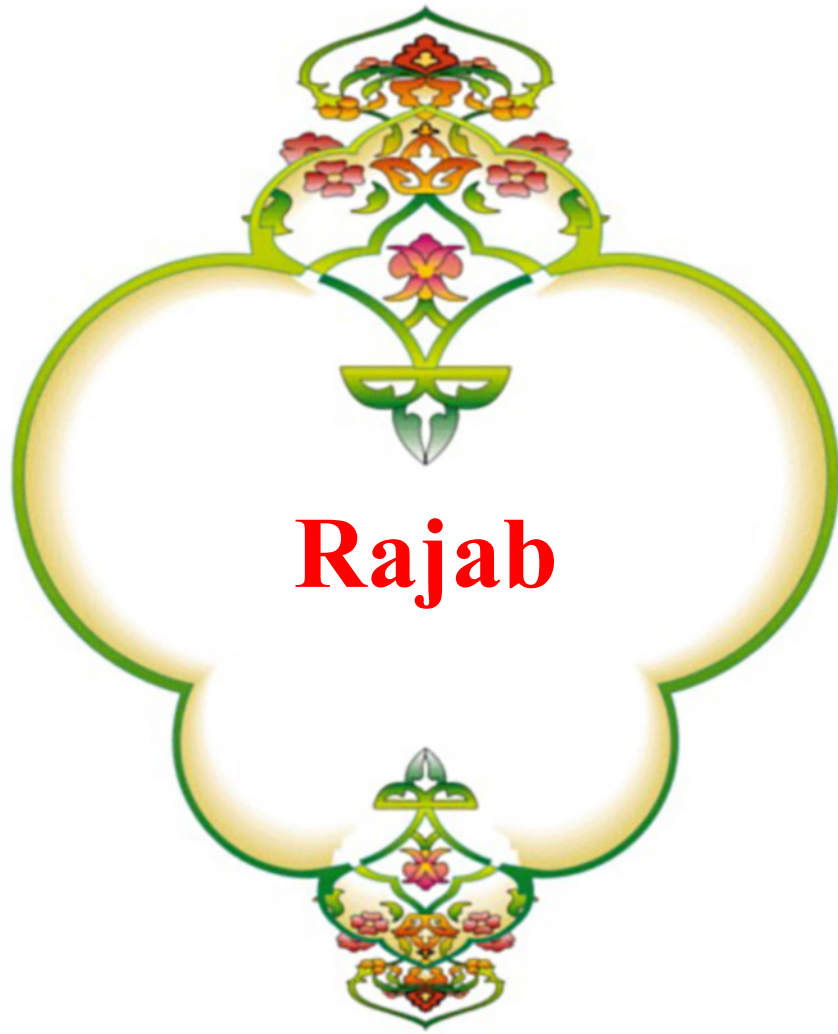
Washington	17	20	17	09	-11	Cape Town*	19	56	19	54	-02
Ottawa	16	57	16	42	-15	Brasilia	18	50	18	51	01
London*	16	36	16	01	-34	Santiago	19	52	Next day		
Moscow*	16	45	15	58	-47	Lima	18	41	18	45	04

(D) Jumade Al'akhera, 1441 A.H.

The first day of Jumade Al'akhera 1441A.H. is adopted to be Sunday, 26.01.2020 A.D.

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

(*) Moon not new



Rajab





Birth day conditions of Rajab - crescent,1441 A.H.

Rajab's crescent is born immediately after the conjunction that occurs at three o'clock and 32 minutes p.m. (U.T.) on Sunday, 29 Jumade Al'akhera 1441 A.H., corresponding to 23/02/2020 A.D. (Sight Day).

On the sight day (Sunday, 23/02/2020 A.D.):

- In Cairo and in the majority of Arab and Islamic countries, the crescent phase will not exist after sunset on that day.
- In Arab and Islamic countries Moonset occurs before Sunset and its duration (1 - 13 minutes) Except Dakar, Nouakchott, Lagos and Mogadishu. The crescent lags sunset at Dakar by 6 minutes, at Nouakchott by 4 minutes, at Lagos by 5 minutes and at Mogadishu by two minutes.
- Therefore, Monday, 24.02.2020 A.D. is shifted to the month of Jumade Al'akhera 1441 A.H.
- Consequently, The first day of Rajab 1441 A.H. is adopted to be Tuesday, 25.02.2020 A.D. from the astronomical point of view.

Ephemeris of
Rajab,1441 A.H.
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
 Sunday, 23.02.2020 A.D.	 Monday, 2.03.2020 A.D.	 Monday, 9.03.2020 A.D.	 Monday, 16.03.2020 A.D.
15 h 32 m	19 h 57 m	17 h 48 m	09 h 34 m
First day	Last day	Length	
Tuesday, 25.02.2020 A.D.	Tuesday, 24.03.2020A.D.	29 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	17	34	17	29	-05	Crescent below the horizon	
Toshka	17	52	17	48	-04	Crescent below the horizon	
Aswan	17	47	17	42	-05	Crescent below the horizon	
Qena	17	46	17	40	-06	Crescent below the horizon	
Al'kharga	17	57	17	52	-05	Crescent below the horizon	
Assiut	17	51	17	45	-06	Crescent below the horizon	
Sohag	17	50	17	44	-06	Crescent below the horizon	
Fayoum	17	51	17	44	-07	Crescent below the horizon	
Tur	17	41	17	34	-07	Crescent below the horizon	
Saint Catherine	17	39	17	32	-07	Crescent below the horizon	
Taba	17	35	17	27	-08	Crescent below the horizon	
Cairo	17	49	17	42	-07	Crescent below the horizon	
Tanta	17	49	17	41	-08	Crescent below the horizon	
Alexandria	17	53	17	45	-08	Crescent below the horizon	
Port Said	17	43	17	35	-08	Crescent below the horizon	
Salloum	18	12	18	05	-07	Crescent below the horizon	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags
	h	m	h	m	m		h	m	h	m	m
Dakar	18	16	18	22	06	Makkah*	18	22	18	17	-05
Nouakchott	18	08	18	12	04	Jerusalem	17	31	17	22	-09
Moroco	18	24	18	22	-02	Baghdad*	17	53	17	42	-11
Fez	18	10	18	06	-04	Aden*	18	07	18	05	-02
Lagos	18	58	19	03	05	Riyadh*	17	51	17	44	-07
Algeria	17	36	17	29	-07	Kuwait*	17	42	17	33	-09
Tunisia	18	07	17	59	-08	Manama*	17	35	17	27	-08
Tripoli - Libya	17	58	17	52	-06	Tehran*	17	53	17	40	-13
Khartoum	17	55	17	54	-01	Doha*	17	32	17	24	-08
Mogadishu*	18	13	18	15	02	Abu Dhabi*	18	21	18	13	-08
Ankara*	17	33	17	20	-13	Dubai*	18	17	18	08	-09
Oman*	17	28	17	19	-09	Muscat*	18	05	17	57	-08
Damascus*	17	25	17	15	-10	Karachi*	18	30	18	20	-10
Jizan*	18	14	18	11	-03	Kuala Lumpur*	19	27	19	21	-06
Medina*	18	20	18	14	-10	Jakarta*	18	14	18	11	-03

(2) In some Western capitals

Washington	17	53	17	58	05	Cape Town	19	30	19	46	16
Ottawa	17	41	17	42	01	Brasilia	18	39	18	56	17
London	17	29	17	12	-17	Santiago	19	26	19	50	24
Moscow*	17	49	17	19	-30	Lima	18	34	18	53	19

(D) Rajab, 1441 A.H.

The first day of Rajab 1441 A.H. is adopted to be Tuesday, 25.02.2020 A.D.

Day	H	D	H	D	H	D	H	D	H	D
Saturday			5	29	12	7	19	14	26	21
Sunday			6	March	13	8	20	15	27	22
Monday			7	2	14	9	21	16	28	23
Tuesday	1	Feb.	8	3	15	10	22	17	29	24
Wednesda	2	26	9	4	16	11	23	18		
Thursday	3	27	10	5	17	12	24	19		
Friday	4	28	11	6	18	13	25	20		

(*) Moon not new



Sha'aban





Birth day conditions of Sha'aban - crescent,1441 A.H.

Sha'aban's crescent is born immediately after the conjunction that occurs at nine o'clock and 28 minutes a.m. (U.T.) on Tuesday, 29 Rajab 1441 A.H. , corresponding to 24/03/2020A.D. (Sight Day).

On the sight day (Tuesday, 24/03/2020 A.D.):

- **The crescent lags sunset in Makkah by 9 minutes,**
- **The crescent lags sunset in Cairo by 7 minutes,**
- **Generally Crescent lags (2 - 18 minutes) after sunset in Arab and Islamic countries.**
- **Consequently, The first day of Sha'aban 1441 A.H. is adopted to be Wednesday, 25.03.2020 A.D. from the astronomical point of view.**

**Ephemeris of
Sha'aban, 1441 A.H.
(a) Phases of the Moon (U.T.)**

Conjunction	First Quarter	Full Moon	Last Quarter
 Tuesday, 24.03.2020 A.D.	 Wednesday, 1.04.2020 A.D.	 Wednesday, 8.04.2020 A.D.	 Tuesday, 14.04.2020 A.D.
09 h 28 m	10 h 21 m	02h 35 m	22 h 56 m
First day	Last day	Length	
Wednesday, 25.03.2020 A.D.	Thursday, 23.04.2020 A.D.	30 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	17	45	17	54	09	1.530	4.920 S
Toshka	18	05	18	15	10	1.639	4.932 S
Aswan	18	01	18	10	09	1.486	5.015 S
Qena	18	02	18	10	08	1.327	5.116 S
Al'kharga	18	12	18	21	09	1.453	5.083 S
Assiut	18	08	18	16	08	1.288	5.166 S
Sohag	18	06	18	14	08	1.325	5.135 S
Fayoum	18	10	18	17	07	1.125	5.263 S
Tur	17	59	18	06	07	1.137	5.208 S
Saint Catherine	17	58	18	05	07	1.103	5.221 S
Taba	17	54	18	01	07	1.003	5.257 S
Cairo	18	09	18	16	07	1.055	5.293 S
Tanta	18	10	18	17	07	1.002	5.324 S
Alexandria	18	14	18	21	07	0.994	5.346 S
Port Said	18	05	18	12	07	0.928	5.339 S
Salloum	18	34	18	41	07	1.096	5.379 S

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags
	h	m	h	m	m		h	m	h	m	m
Dakar	18	21	18	39	18	Makkah	18	33	18	42	09
Nouakchott	18	15	18	32	17	Jerusalem	17	53	17	59	06
Moroco	18	46	18	58	12	Baghdad	18	16	18	20	04
Fez	18	34	18	45	11	Aden	18	11	18	22	11
Lagos	18	56	19	13	17	Riyadh	18	06	18	13	07
Algeria	18	03	18	12	09	Kuwait	18	01	18	06	05
Tunisia	18	34	18	42	08	Manama	17	50	17	56	06
Tripoli - Libya	18	21	18	30	09	Tehran	18	19	18	21	02
Khartoum	18	01	18	12	11	Doha	17	46	17	52	06
Mogadishu	18	08	18	21	13	Abu Dhabi	18	35	18	41	06
Ankara	18	05	18	08	03	Dubai	18	32	18	37	05
Oman	17	50	17	56	06	Muscat	18	18	18	24	06
Damascus	17	49	17	54	05	Karachi	18	44	18	48	04
Jizan	18	21	18	31	10	Kuala Lumpur	19	23	19	30	07
Medina	18	34	18	42	08	Jakarta	18	01	18	10	09

(2) In some Western capitals

Washington	18	24	18	44	20	Cape Town	18	51	19	16	25
Ottawa	18	21	18	39	18	Brasilia	18	18	18	45	27
London	18	21	18	23	02	Santiago	18	47	19	19	32
Moscow	18	52	18	43	-09	Lima	18	16	18	45	29

(D) Sha'aban, 1441 A.H.

The first day of Sha'aban 1441A.H. is adopted to be Wednesday, 25.03.2020 A.D.

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



Ramadan





Birth day conditions of Ramadan - crescent,1441 A.H.

Ramadan's crescent is born immediately after the conjunction that occurs at two o'clock and 26 minutes a.m. (U.T.) on Thursday, 23/04/2020 A.D. (The next day of sight day).

On the sight day (Wednesday, 22/04/2020 A.D.):

- In Cairo and in all Arab and Islamic countries, the crescent phase will not exist after sunset on that day.
- In Makkah Moonset occurs before Sunset and lasts for 27 minutes.
- In Cairo Moonset occurs before Sunset and lasts for 30 minutes.
- In Arab and Islamic countries Moonset occurs before Sunset and its duration (16 - 37 minutes).
- Therefore, Thursday, 23.4.2020 A.D. is shifted to complete the month of Sha'aban 1441 A.H.
- Consequently, The first day of Ramadan 1441 A.H. is adopted to be Friday, 24.04.2020 A.D. from the astronomical point of view.

Ephemeris of
Ramadan, 1441 A.H.
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
 Thursday, 23.04.2020 A.D.	 Thursday, 30.04.2020 A.D.	 Thursday, 7.05.2020 A.D.	 Thursday, 14.05.2020 A.D.
02 h 26 m	20 h 38 m	10 h 45 m	14 h 03 m
First day	Last day	Length	
Friday, 24.04.2020 A.D.	Saturday, 23.05.2020 A.D.	30 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	17	56	17	29	-27	Moon not new	
Toshka	18	15	17	49	-26	Moon not new	
Aswan	18	13	17	46	-27	Moon not new	
Qena	18	16	17	48	-28	Moon not new	
Al'kharga	18	25	17	57	-28	Moon not new	
Assiut	18	23	17	55	-28	Moon not new	
Sohag	18	21	17	52	-29	Moon not new	
Fayoum	18	27	17	57	-30	Moon not new	
Tur	18	15	17	45	-30	Moon not new	
Saint Catherine	18	14	17	44	-30	Moon not new	
Taba	18	11	17	41	-30	Moon not new	
Cairo	18	26	17	56	-30	Moon not new	
Tanta	18	28	17	57	-31	Moon not new	
Alexandria	18	33	18	02	-31	Moon not new	
Port Said	18	24	17	53	-31	Moon not new	
Salloum	18	53	18	23	-30	Moon not new	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags
	h	m	h	m	m		h	m	h	m	m
Dakar	18	25	18	09	-16	Makkah	18	42	18	15	-27
Nouakchott	18	22	18	04	-18	Jerusalem	18	13	17	41	-32
Moroco	19	60	18	40	-26	Baghdad	18	38	18	04	-34
Fez	18	56	18	29	-27	Aden	18	13	17	50	-23
Lagos	18	53	18	38	-15	Riyadh	18	18	17	49	-29
Algeria	18	29	17	59	-30	Kuwait	18	19	17	47	-32
Tunisia	19	00	18	28	-32	Manama	18	04	17	33	-31
Tripoli - Libya	18	42	18	13	-29	Tehran	18	43	18	60	-37
Khartoum	18	50	17	42	-23	Doha	18	00	17	29	-31
Mogadishu	18	20	17	43	-19	Abu Dhabi	18	47	18	17	-30
Ankara	18	34	17	57	-37	Dubai	18	45	18	14	-31
Oman	18	10	17	38	-32	Muscat	18	29	17	59	-30
Damascus	18	11	17	38	-33	Karachi	18	57	18	25	-32
Jizan	18	27	18	02	-25	Kuala Lumpur	19	18	18	52	-26
Medina	18	46	18	18	-28	Jakarta	17	49	17	27	-22

(2) In some Western capitals*

Washington	18	52	18	33	-19	Cape Town	18	14	18	14	Zero
Ottawa	18	58	18	34	-24	Brasilia	17	58	17	57	-01
London	19	09	18	26	-43	Santiago	18	11	18	18	07
Moscow	19	50	18	54	-56	Lima	17	59	17	59	Zero

(D) Ramadan, 1441 A.H.

The first day of Ramadan 1441 A.H. is adopted to be Friday , 24.04.2020 A.D.

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

(*) Moon not new



Shawal





Birth day conditions of Shawal - crescent,1441 A.H.

Shawal's crescent is born immediately after the conjunction that occurs at Five o'clock and 39 minutes p.m. (U.T.) on Friday, 29 Ramadan 1441 A.H. , corresponding to 22/05/2020 A.D. (Sight Day).

On the sight day (Friday, 22/05/2020 A.D.):

- In Cairo and In the majority of Arab and Islamic countries, the crescent phase will not exist after sunset on that day.
- In Makkah and at Cairo Moonset occurs before Sunset and lasts for 11minutes.
- In Arab and Islamic countries Moonset occurs before Sunset and its duration (1 - 16 minutes).
- Therefore, Saturday, 23.05.2020 A.D. is shifted to complete the month of Ramadan 1441 A.H.
- Consequently, The first day of Shawal 1441 A.H. is adopted to be Sunday, 24.05.2020 A.D. (Eid al-Fitr) from the astronomical point of view.

**Ephemeris of
Shawal, 1441 A.H.
(a) Phases of the Moon (U.T.)**

Conjunction	First Quarter	Full Moon	Last Quarter
 Friday, 22.05.2020 A.D.	 Saturday, 30.05.2020 A.D.	 Friday, 5.06.2020 A.D.	 Saturday, 13.06.2020 A.D.
17 h 39 m	03 h 30 m	19 h 12 m	06 h 24 m
First day	Last day	Length	
Sunday, 24.05.2020 A.D.	Sunday, 21.06.2020 A.D.	29 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	18	09	17	59	-10	Moon not new	
Toshka	18	28	18	19	-09	Moon not new	
Aswan	18	27	18	17	-10	Moon not new	
Qena	18	32	18	22	-10	Moon not new	
Al'kharga	18	40	18	30	-10	Moon not new	
Assiut	18	40	18	29	-11	Moon not new	
Sohag	18	37	18	26	-11	Moon not new	
Fayoum	18	46	18	35	-11	Moon not new	
Tur	18	32	18	21	-11	Moon not new	
Saint Catherine	18	32	18	21	-11	Moon not new	
Taba	18	30	18	18	-12	Moon not new	
Cairo	18	46	18	35	-11	Moon not new	
Tanta	18	48	18	37	-11	Moon not new	
Alexandria	18	53	18	42	-11	Moon not new	
Port Said	18	44	18	32	-12	Moon not new	
Salloum	19	13	19	02	-11	Moon not new	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags
	h	m	h	m	m		h	m	h	m	m
Dakar	18	33	18	32	-01	Makkah *	18	55	18	44	-11
Nouakchott	18	32	18	30	-02	Jerusalem *	18	33	18	21	-12
Moroco	19	26	19	20	-06	Baghdad*	19	00	18	46	-14
Fez	19	20	19	13	-07	Aden *	18	20	18	10	-10
Lagos	18	56	18	53	-03	Riyadh *	18	33	18	21	-12
Algeria	18	54	18	45	-09	Kuwait *	18	37	18	23	-14
Tunisia	19	25	19	15	-10	Manama *	18	20	18	07	-13
Tripoli - Libya	19	04	18	55	-09	Tehran *	19	08	18	52	-16
Khartoum*	18	14	18	06	-08	Doha *	18	15	18	02	-13
Mogadishu*	18	02	17	54	-08	Abu Dhabi *	19	02	18	49	-13
Ankara*	19	03	18	48	-15	Dubai *	19	00	18	46	-14
Amman *	18	31	18	18	-13	Muscat *	18	44	18	30	-14
Damascus *	18	33	18	20	-13	Karachi *	19	12	18	56	-16
Jazan *	18	36	18	26	-10	Kuala Lumpur*	19	18	19	03	-15
Medina *	19	01	18	50	-11	Jakarta *	17	44	17	30	-14

(2) In some Western capitals

Washington	19	20	19	24	04	Cape Town *	17	48	17	50	02
Ottawa	19	34	19	36	02	Brasilia	17	47	17	53	06
London	19	56	19	42	-14	Santiago	17	46	17	57	11
Moscow	20	47	20	22	-25	Lima	17	50	18	00	10

(D) Shawal, 1441 A.H.

The first day of Shawal 1440 A.H. is adopted to be Sunday, 24.05.2020 A.D.

(Eid al-Fitr)

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

(*) Moon not new



Thul'kada





Birth day conditions of Thul'kada crescent,1441 A.H.

Thul'kada's crescent is born immediately after the conjunction that occurs at six o'clock and 41 minutes a.m. (U.T.) on Sunday, 29 Shawal 1441 A.H. , corresponding to 21/06/2020 A.D. (Sight Day).

On the sight day (Sunday, 21/06/2020 A.D.):

- The crescent lags sunset In Makkah by 18 minutes.
 - The crescent lags sunset In Cairo by 20 minutes.
 - Generally the crescent lags (5 - 26 minutes) after sunset in Arab and Islamic countries.
- Consequently,The first day of Thul'kada 1441 A.H. is adopted to be Monday, 22.06.2020 A.D. from the astronomical point of view.**

Ephemeris of
Thul'kada, 1441 A.H.
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
 Sunday, 21.06.2020 A.D.	 Sunday, 28.06.2020 A.D.	 Sunday, 5.07.2020 A.D.	 Sunday, 12.07.2020 A.D.
06 h 41 m	08 h 16 m	04 h 44 m	23 h 29 m
First day	Last day	Length	
Monday, 22.06.2020 A.D.	Tuesday, 21.07.2020 A.D.	30 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	18	20	18	38	18	3.066	1.501 S
Toshka	18	39	18	58	19	3.207	1.583 S
Aswan	18	39	18	58	19	3.153	1.728 S
Qena	18	44	19	03	19	3.122	1.935 S
Al'kharga	18	53	19	12	19	3.208	1.895 S
Assiut	18	53	19	12	19	3.146	2.058 S
Sohag	18	49	19	08	19	3.144	1.987 S
Fayoum	18	59	19	18	19	3.104	2.278 S
Tur	18	45	19	04	19	3.051	2.127 S
Saint Catherine	18	45	19	04	19	3.034	2.153 S
Taba	18	43	19	02	19	2.985	2.231 S
Cairo	18	59	19	19	20	3.074	2.346 S
Tanta	19	02	19	22	20	3.061	2.424 S
Alexandria	19	07	19	27	20	3.077	2.486 S
Port Said	18	58	19	17	19	3.010	2.452 S
Salloum	19	27	19	48	21	3.201	2.600 S

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags
	h	m	h	m	m		h	m	h	m	m
Dakar	18	41	19	07	26	Makkah	19	05	19	23	18
Nouakchott	18	42	19	08	26	Jerusalem	18	48	19	07	19
Moroco	19	40	20	06	26	Baghdad	19	15	19	33	18
Fez	19	34	20	00	26	Aden	18	28	18	44	16
Lagos	19	02	19	24	22	Riyadh	18	45	19	02	17
Algeria	19	10	19	35	25	Kuwait	18	50	19	07	17
Tunisia	19	41	20	05	24	Manama	18	33	18	49	16
Tripoli - Libya	19	18	19	41	23	Tehran	19	23	19	40	17
Khartoum	18	23	18	41	18	Doha	18	27	18	43	16
Mogadishu	18	07	18	22	15	Abu Dhabi	19	14	19	30	16
Ankara	19	21	19	41	20	Dubai	19	12	19	27	15
Oman	18	45	19	04	19	Muscat	18	55	19	10	15
Damascus	18	47	19	07	20	Karachi	19	24	19	38	14
Jizan	18	45	19	02	17	Kuala Lumpur	19	24	19	30	06
Medina	19	13	19	31	18	Jakarta	17	47	17	52	05

(2) In some Western capitals

Washington	19	36	20	14	38	Cape Town	17	44	17	58	14
Ottawa	19	55	20	33	38	Brasilia	17	48	18	15	27
London	20	21	20	48	27	Santiago	17	42	18	09	27
Moscow	21	18	21	39	21	Lima	17	52	18	24	32

(D) Thul'kada, 1441 A.H.

The first day of Thul'kada 1441 A.H. is adopted to be Monday, 22.06.2020 A.D.

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



Thul'hejja





Birth day conditions of Thul'hejja - crescent,1441 A.H.

Thul'hejja's crescent is born immediately after the conjunction that occurs at five o'clock and 33 minutes p.m. (U.T.) on Monday, 29 Thul'kada 1441 A.H. , corresponding to 20/07/2020 A.D. (sight Day).

On the sight day (Monday, 20/07/2020 A.D.):

- In Cairo and in the majority of Arab and Islamic countries, the crescent phase will not exist after sunset on that day.
- On that day the crescent lags Sunset in the majority of Arab and Islamic countries despite the conjunction comes after sunset (This anomaly case that must be studied to interpret).
- Therefore, Tuesday, 21.07.2020 A.D. is shifted to complete the month of Thul'kada 1441 A.H.
- Consequently, The first day of Thul'hejja 1441 A.H. is adopted to be Wednesday, 22.07.2020 A.D. from the astronomical point of view.
- Consequently, a pause Arafat 1441 A.H. is adopted to be Thursday, 30.07.2020 A.D. from the astronomical point of view.
- Consequently, Eid al-Adha 1441 A.H. is adopted to be Friday, 31.07.2020 A.D. from the astronomical point of view.

Ephemeris of
Thul'hejja, 1441 A.H.
(a) Phases of the Moon (U.T.)

Conjunction	First Quarter	Full Moon	Last Quarter
 Monday, 20.07.2020 A.D.	 Monday, 27.07.2020 A.D.	 Monday, 3.08.2020 A.D.	 Tuesday, 11.08.2020 A.D.
17 h 33 m	12 h 33 m	15 h 59 m	16 h 45 m
First day	Last day	Length	
Wednesday, 22.07.2020 A.D.	Wednesday, 19.08.2020 A.D.	29 days	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	Relative altitude (degree)	Relative azimuth (degree)
	h	m	h	m			
Halayib	18	18	18	18	Zero	Moon not new	
Toshka	18	38	18	38	Zero	Moon not new	
Aswan	18	37	18	38	01	Moon not new	
Qena	18	41	18	43	02	Moon not new	
Al'kharga	18	50	18	52	02	Moon not new	
Assiut	18	50	18	52	02	Moon not new	
Sohag	18	46	18	48	02	Moon not new	
Fayoum	18	55	18	58	03	Moon not new	
Tur	18	42	18	44	02	Moon not new	
Saint Catherine	18	41	18	43	02	Moon not new	
Taba	18	40	18	42	02	Moon not new	
Cairo	18	55	18	58	03	Moon not new	
Tanta	18	58	19	01	03	Moon not new	
Alexandria	19	03	19	07	04	Moon not new	
Port Said	18	54	18	57	03	Moon not new	
Salloum	19	23	19	27	04	Moon not new	

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

City	Sunset (Local time)		Moonset (Local time)		Crescent Lags	City	Sunset (Local time)		Moonset (Local time)		Crescent Lags
	h	m	h	m	m		h	m	h	m	m
Dakar	18	42	18	48	06	Makkah *	19	04	19	03	-01
Nouakchott	18	41	18	48	07	Jerusalem *	18	43	18	46	03
Moroco	19	36	19	45	09	Baghdad*	19	10	19	12	02
Fez	19	28	19	38	10	Aden *	18	29	18	25	-04
Lagos	19	05	19	06	01	Riyadh *	18	43	18	42	-01
Algeria	19	04	19	13	09	Kuwait *	18	47	18	47	Zero
Tunisia	19	35	19	43	08	Manama *	18	30	18	29	-01
Tripoli - Libya	19	14	19	21	07	Tehran *	19	17	19	19	02
Khartoum*	18	23	18	22	-01	Doha *	18	24	18	23	-01
Mogadishu*	18	11	18	04	-07	Abu Dhabi *	19	12	19	10	-02
Ankara*	19	13	19	19	06	Dubai *	19	09	19	07	-02
Amman *	18	40	18	43	03	Muscat *	18	53	18	50	-03
Damascus *	18	43	18	46	03	Karachi *	19	22	19	18	-04
Jazan *	18	45	18	43	-02	Kuala Lumpur*	19	28	19	12	-16
Medina *	19	11	19	11	Zero	Jakarta *	17	53	17	34	-19

(2) In some Western capitals

Washington	19	29	19	50	21	Cape Town*	17	59	17	43	16-
Ottawa	19	43	20	06	23	Brasilia	17	57	18	00	03
London	20	05	20	22	17	Santiago	17	56	17	56	Zero
Moscow	20	56	21	11	15	Lima	17	59	18	08	09

(D) Thul'hejja,1441 A.H.

The first day of Thul'hejja 1441 A.H. is adopted to be Wednesday, 22.07.2020A.D.

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

(*) Moon not new



Prepare and Design by Drawing and GIS unit