

The Rule of 29

A proposition that the “Geocentric New Moon” occurs at the 29th day of the Hijri month. Therefore, the first day of the Hijri month can be determined accordingly. This proposition agrees highly with Yallop and SAAO criteria.

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1# Summary

Rule 29 (R29 for short) propose that the “Geocentric New Moon” occurs at the 29th day of the Hijri month. Therefore, the first day of the Hijri month can be determined accordingly.

The results of this rule agree with 92% of Yallop criteria, 91% of SAAO criteria, and 74% of Odeh criteria for 1239 lunar months from the end of 1999 to the start of 2100 A.D.

Furthermore, In case of difference between R29 and the above criteria (Yallop, SAAO, and Odeh), then the result of R29 are more cautious; i.e. the day in R29 will be the next day of these criteria.

The determination of the first Hijri day in the month according to R29 is straightforward: If the New Moon occurs at Friday (for example), then the first day of the Hijri month will be the first Friday after the previous New Moon, or to be accurate: the first noon in the Hijri month will be at Friday GMT, Friday Solar Time, Friday Local Time, and Friday Arabic Day; as all these days agree at noon.

2# Introduction

This article is a brief translation of the author’s arabic book with the same name. This article follows a previous article in English: “The first sight of the Crescent on earth according to Yallop, SAAO and Odeh criteria,, and the introduction of the Hijri Date Line as the Sunset Terminator Line of the opposite point of Mecca from its latitude”. We will refer to this article as the “previous article”.

In the previous article we have discussed three major concepts: Sunset Terminator Line (STL for short), Hijri Date Line (HDL for short), and the Sight Line (SL for short).

We also have proposed a rule in the previous article, which we will call here: The Rule of 19 hours (R19h for short). All of these concepts will be discussed here in brief, then we will introduce the concept of R29.

It should be noted here that our data have been obtained through a VB6/VBA program that we have compiled. The algorithm for the Sun coordinates and the coordinate's transformation were taken from Duffett-Smith book: "Practical Astronomy with your calculator" (Ref: Duffett).

The Moon coordinates were taken from a VBA code for Keith Burnett (Ref: Burnett). The New Moon Timings were taken from another VBA code for Andreas Killer (Ref: Killer) which he has modified from a code for Michael Friedrich (Ref: Friedrich).

The results from our VB program were compared with data and tables available in different internet sites (as calsky.com, nasa.gov, etc.). The differences were very minimal and acceptable for this article. Furthermore, we have provided this program in our website.

3# Concepts:

3.1# Sunset Terminator Line (STL): This line represents the points on earth where the Sun sets at the same time. This line is important for determining the starting Hijri months as the Arabic day starts from sunset (in contrast to the Western days that start from midnight). Therefore, all point on earth that are in the same STL will enter the new Arabic day at the same time.

3.2# The Hijri Date Line (HDL): There should be a line were the Arabic day have started first time on earth. As the Arabic day sweep into earth through the Sunset Terminator Lines; then it is obvious that the first line of the Arabic day will be a Sunset Terminator Line. As we have discussed in the "previous article" this line should be the opposite line of the STL of Mecca. This STL passes through the opposite point to Mecca from its latitude. We have named this point: N.Kamma (NK for short) and it is located at 21.4225N 140.1738W.

3.3# The Sight Line (SL): The Sight Line is the STL of the first point on earth that observe the crescent (directly or by proven method of calculation).

We define SL by the difference of time between the sunset at SL and the geocentric New Moon. So, if the New Moon occurred at 15 GMT, and we determine SL to be 12 hours, then the Sunset at SL occurred at 27 GMT. Therefore, the crescent was seen (or calculated to be seen first time) at about 15 minutes after the sunset at SL.

The recent and widely accepted criteria for calculating the possibility of sighting the crescent are Yallop and SAAO (South African Astronomical Observatory). There is also the criteria of Odeh, which is recognized and accepted in many Islamic institutions.

We have calculated the SL for the lunar months from the end of 1999 to the first of 2100 A.D (1239 records) for Yallop, SAAO, and Odeh criteria.

We have discussed these criteria and its equations in the “previous article”, and explained the algorithm we used to obtain the data of SL.

3.4# The Start of the Hijri Month: The New Moon occurs at the end of the current Hijri month. However, this New Moon is also the indicator for the next Hijri month. Therefore, when we say: Ramadan New Moon: we refer to the New Moon that happen at the end of Ramadan. Also, this New Moon is Shawwal Indicator; as this New Moon is the indicator that Shawwal is arriving.

In the data table (at the appendix): column 2 gives the date of the New Moon, and column 6 gives the Hijri month indicated by the New Moon. For example, the first record in the table gives the date of the New Moon at 1999-12-07. This occurred at the end of Shaban, but it is also the indicator of Ramadan. Therefore, column 6 gives the order of Ramadan (which is the 9th month), and column 7 gives a short name of Ramadan (Rmd).

As we have discussed in the previous article, the start day of the Hijri month will be after one or two days from the New Moon. This will be determined by the Sun setting at SL first then HDL, or setting at HDL first then SL. In the first case the new Hijri month start after one day from the New Moon. In the second case the new Hijri month start after two days from the New Moon.

3.5# The Days of two New Moons (NN Days): This represent the days from the New Moon to the next New Moon, and it is either 30 or 31 days.

Note that the time difference between two New Moons is in the range of 29.27 to 29.82 days. But here we are not referring to the time difference but to the days itself from an event to the next event.

But why Using the NN days?

Because it is easier to be determined by using the order of the day:

The day at 29th of the month is the same day as the first day of the month. So, if the first day of the month is Friday, then the 29th day is Friday as well.

So, if the New Moon was at Friday, then if the next moon came on Saturday then NN is 30 days: from Friday to Friday is 29 days. Therefore from Friday to Saturday is 30 days.

But if the next moon came on Sunday then NN is 31 days: from Friday to Friday is 29 days. Therefore, from Friday to Sunday is 31 days.

For example: The New Moon occurred at Tuesday 1999-12-07, and the next New Moon occurred at Thursday 2000-1-06. How many days from the first to the next?

Answer: From Tuesday to Tuesday is 29 days. Therefore, from Tuesday to Thursday is 31 days.

Another example: The New Moon occurred at Monday 2000-03-06, and the next New Moon occurred at Tuesday 2000-04-04. How many days from the first to the next?

Answer: From Monday to Monday is 29 days. Therefore, from Monday to Tuesday is 30 days.

Column 8 in the data table gives the days from the New Moon to the next New Moon (NN).

3.6# R19h: This rule was the conclusion of the previous article, and we named this rule here as the “Rule of 19 hour” (R19h). This rule says that the crescent will be sighted at a point on earth after 19 hours from the New Moon. This rule has been obtained from analyzing the data of Yallop, SAAO, and Odeh criteria.

It should be noted that the crescent could be sighted before that, but the maximum limit is 19 hours. Therefore, we proposed that if the crescent has not been sighted directly then we could use R19h to determine the new Hijri date.

However, R29 is much more efficient than R19h, and it agrees more with the results of other criteria (Yallop, SAAO, Odeh). Also, it is much easier to apply.

3.7# R29: As mentioned before, this rule propose that the New Moon occurs at the 29th day of the Hijri month. Therefore, the first day could be determined accordingly.

4# Data Analysis

We have calculated the Hijri starting days according to R29. Also, we have calculated the SL for 1239 lunar months for three criteria (Yallop, SAAO, Odeh), then we determined the Hijri starting days according to these criteria. We have provided these data at the appendix of this article.

Through analyzing these data, we have noticed the following:

Note 4.1: The New Moon cannot occur at the 28th of the Hijri month.

However, there are two discrepancies in Yallop where the New Moon occurs at the 28th of the month (at 2002-05-12 and 2003-10-25), and one discrepancy in SAAO (at 2003-10-25).

Looking at the first discrepancy (for Yallop at 2002-05-12), we found that the sunset at HDL (Hijri Date Line) was at 27.8 GMT (column 5), The SL for Yallop (Sight Line, column 11) was 17.2 hours, and the New Moon time (column 4) was at 10.8 GMT.

Therefore, the sunset at the sight line = SL + New Moon time = 28 GMT.

Therefore, the Sun sets first at HDL then after 12 minutes sets at SL. So we could say here that the equations of Yallop have an approximation factor caused this incidence, specially that the time between SL and HDL is very short.

The same thing happened for the second discrepancy for Yallop (and the discrepancy of SAAO) as the Sun sets first at HDL, then after 6 minutes sets at SL.

As there are only two records from of a set of 1239 records (i.e. 0.16% of the dataset), then we could ignore this discrepancy especially that there is a valid explanation to it.

Therefore, our conclusion here is that the New Moon cannot occurs at the 28th of the Hijri month.

Note that we have highlighted the records of these discrepancies with green color in the data table at the appendix.

Note 4.2: As we have mentioned before, the days from the New Moon to the next New Moon (NN Days) will either be 30 or 31 days. There are 581 cases (from 1239 dataset) were NN are 30 days (47%), and 658 cases were NN are 31 days (53%).

Note 4.3: In all the cases were NN are 30 days, the New Moon occurred at the 29th of the Hijri month according to the three lunar criteria (Yallop, SAAO, and Odeh).

The difference between R29 and the three lunar criteria occurs **only** when NN are 31 days.

Note 4.4: In general, the difference between R29 and the lunar criteria are as the following:

Yallop: The percentage of agreement between R29 and Yallop criteria was 92%. The difference between them was in 97 cases from 1239 dataset (note that we have ignored the two discrepancies discussed in note 4.1).

SAAO: The percentage of agreement between R29 and SAAO criteria was 91%. The difference between them was in 107 cases from 1239 dataset (note that we have ignored the single discrepancy discussed in note 4.1).

Odeh: The percentage of agreement between R29 and Odeh criteria was 74%. The difference between them was in 322 cases from 1239 dataset.

Note that we have highlighted the records of differences with yellow color.

Note 4.5: In case of difference between R29 and the three lunar criteria, R29 was the most cautious (i.e. R29 comes at the next day of the lunar criteria). For example: if Yallop date was at Saturday, and it was in difference with R29, then R29 will be at Sunday.

Note 4.6: We could regard R29 more cautious than R19h, using the following argument:

The percentage of agreement between R29 and R19h rule was 85%. The difference between them was in 190 cases from 1239 dataset.

However, there are the following two notes:

4.6.1: There are 168 cases of difference when NN is 30 days.

4.6.2: There are 22 cases of difference when NN is 31 days.

But we concluded that R29 and the three lunar criteria agrees in all records when NN is 30 days (Note 4.3), therefore we could ignore note 4.6.1. This leads us to say that the difference between R29 and R19h is only 22 cases, and in all of these cases, R29 is more cautious than R19h (i.e. R29 comes at the next day of R19h).

Note that we highlighted the records of differences according to 4.6.1 with beige color, and according to 4.6.2 with yellow color.

5# Recommendations:

5.1 As we have discussed earlier, the results of R29 highly agrees with Yallop and SAAO. Furthermore, in case of difference then R29 is more cautious than these criteria. Also, the calculation of R29 is very easy and does not require complex arithmetic, as the New Moon dates have already been determined.

Therefore, we argue that R29 is a proper rule for creating a Civic Hijri Calendar.

5.2 For the same previous reasons, we could recommend the following: If the crescent for Ramadan and Shawwal have not been sighted directly, then we could use R29 to determine the official starting dates of these two months.

5.3 As we mentioned in the previous article, there is a well known argument between different schools in the Islamic world about the calculation of crescent. Many schools of thoughts don't accept the calculations of crescent for the starting days of Ramadan and Shawwal, and they only follow the conclusion of the direct sighting of the crescent.

But this argument can be put to rest (for both opposite schools) if the Islamic authorities have decided and collaborated to create a research vessel with proper equipment, and to be stationed just eastward of HDL (The Hijri Date Line).

Therefore, the crescent sighting calculation can be carried on, and the results can be verified and confirmed by this research vessel.

6# References:

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7# The Appendix

This dataset is related to the moon data and crescent sighting according to R29, Yallop, SAAO, Odeh, and R19h. The dataset contains 1239 records of lunar months from the end of 1999 to the start of 2100 A.D. It also contains 32 columns distributed into six categories: Moon Data, R29, Yallop, SAAO, Odeh, and R19h.

These columns are detailed as the following:

#	Group	Title	Long Title	Note
1	Moon Data	#	Number	Row Number
2		UDate	Universal Date	New Moon Date GMT
3		D	Day	New Moon Day GMT
4		UT	Universal Time	New Moon Timing GMT
5		HLS	Hijri Line Sunset	Sunset time at the Hijri Date Line GMT
6		MO	New Hijri Month Order	The order of the new Hijri month. Note that the New Moon comes at the end of the current Hijri month, but the New Moon is also an indicator for the new Hijri month, and the column is for the new Hijri month
7		MN	New Hijri Month Name	The name of the Hijri month, which is as the following: Muharram (Mhr), Safar (Sfr), Rabi Awal (Rb1), Rabi Thani (Rb2), Jumada Awal (Jm1), Jumada Thani (Jm2), Rajab (Rjb), Shaban (Shn), Ramadan (Rmd), Shawwal (Shl), Zul Qadah (Qdh), Zul Hijjah (Hjh).
8		NN	NewMoon to NewMoon	Number of days from the current New Moon to the next New Moon.
9		NT	NewMoon Time Difference	Time difference between the current New Moon to the next New Moon.
10	R29	HD	New Hijri Day	The first day of the new Hijri month according to R29.

#	Group	Title	Long Title	Note
11	Yallop	SL	Sight Line	Sight Line according to Yallop
12		SSL	Sunset at Sight Line	Sunset time at the sight line
13		HD	New Hijri Day	The first day of the new Hijri month
14		DM	Days of new Hijri Month	Number of days of the new Hijri month
15		ND	Next New Moon Day	The order of the New Moon in the new Hijri month
16		Lat	Latitude of the first point	Latitude and longitude of the first point to see the crescent according to Yallop
17		Long	Longitude of the first point	
18	SAAO	SL	Sight Line	Sight Line according to SAAO
19		SSL	Sunset at Sight Line	Sunset time at the sight line
20		HD	New Hijri Day	The first day of the new Hijri month
21		DM	Days of new Hijri Month	Number of days of the new Hijri month
22		ND	Next New Moon Day	The order of the New Moon in the new Hijri month
23		Lat	Latitude of the first point	Latitude and longitude of the first point to see the crescent according to SAAO
24		Long	Longitude of the first point	
25	Odeh	SL	Sight Line	Sight Line according to Odeh
26		SSL	Sunset at Sight Line	Sunset time at the sight line
27		HD	New Hijri Day	The first day of the new Hijri month
28		DM	Days of new Hijri Month	Number of days of the new Hijri month
29		ND	Next New Moon Day	The order of the New Moon in the new Hijri month
30		Lat	Latitude of the first point	Latitude and longitude of the first point to see the crescent according to Odeh
31		Long	Longitude of the first point	
32	R19h	HD	New Hijri Day	The first day of the new Hijri month

The method used to determine the first day of the New Hijri Month (HD) according to the three lunar criteria is as the following:

- Note the New Moon Day (column 3, D).
- Note the New Moon Time (column 4, UT).
- Note the sunset time at HDL (column 5, HLS).
- Note the Sight Line for the required criterion (For Yallop: column 11, SL).
- Obtain the sunset time of the Sight Line by adding SL to UT.
 - If $SL + UT < HLS$ then the first day (HD) is the next day of the New Moon Day.
 - If $SL + UT > HLS$ then the first day (HD) is after two days from the New Moon Day.

To reduce the size of the database, some fields (columns) have been omitted, but it could be obtained if needed:

1# The date of the Hijri month: Column 10 gives the day of the new Hijri month according to R29, the date of that day can be obtained from noting column 2 (New Moon date) and column 3 (New Moon day). For example, in row 1 (at 1999-12-07), R29 day was Thursday, New Moon date was Tuesday 1999-12-07, therefore we can conclude that R29 date is 1999-12-09.

2# The year of the Hijri month: The indicated Hijri month at Row 5 (2000-04-04) is Muharram, and its Hijri date is 1421-01-01. Therefore, the Hijri year for all rows can be obtained by the following formula: Hijri year = 1421 + Integer [(Row-5)/12].

For example: at row 100, the year will be:

$$1421 + \text{Integer} [(100-5)/12] = 1421 + \text{Integer} [7.92] = 1428.$$

And with column 6 (the indicated Hijri month order) we can obtain the date of the Hijri month. For example: In row 100 the Hijri date is 1428-12-01.

Colors:

There are four colors in the dataset:

Yellow: This identify the differences between R29 and other criteria.

Green: The same as above, but for rows that the New Moon occurs at the 28th of the Hijri month.

Beige: It highlight the difference between R29 and R19h when the NN days are 30.

Blue: This has been discussed in detail in the Arabic book, and we will discuss it here in brief:

We introduced a new term: “The point of the New Moon”, which is the point at the equator were the Sun is at noon at the moment of the New Moon.

Now ... suppose the New Moon was at Friday GMT, then the days at the New-Moon-Point are: Friday GMT, Friday Solar Time, Friday Local Time, and Friday Arabic Day. This is because the different types of days (i.e. GMT, Solar, Local and Arabic) agree at noon time.

However, this is true for about 90% of earth, and differ at the other 10%, which we named the Hawaii Belt (because Hawaii is in that area). The Hawaii Belt starts from longitude 140W to 180W.

Now ... suppose that it was Friday GMT at a point at noon in that belt, then the days at that point are: Friday GMT, Friday Solar, Friday Local, and **Saturday Arabic**. The reason is that the Arabic day at the west of the Hijri Date Line (HDL) will be one day more to the day in the east.

This might raise questions regarding the suitability of R29 when the New-Moon-Points occurs at the Hawaii Belt. However, we looked at the data at these times, and found that R29 totally agrees with the other criteria.

The rows that the New Moon Points occur at the Hawaii belt have been highlighted with blue color at column 4.

Note that the HDL is the Sunset Terminator Line (STL) at N.Kamma (as we have discussed in the introduction), but we could approximate HDL to be a longitude line at 140W.

As the noon occur always at 12 Solar time (plus or minus a variable that does not exceed 16 minutes. And for simplicity we will ignore this variable). And the relationship between Solar Time and GMT is: $\text{Solar} = \text{GMT} + \text{Longitude}/15$, and as we have identified the limits of Hawaii Belt to be 140W to 180W, then the times of New Moon where the New-Moon-Points are in the Hawaii Belt is between 21.33 to 24 GMT.

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
1	1999-12-07	Tue	22.5	26.6	9	Rmd	31	29.8	Thu	17.1	39.6	Thu	30	29	18	26.6	16.4	38.9	Thu	30	29	19.7	36.1	11.9	34.5	Thu	30	29	27.4	99.5	Thu
2	2000-01-06	Thu	18.2	26.9	10	Shl	31	29.8	Sat	18.3	36.6	Sat	30	29	13.6	78.2	17.8	36.0	Sat	30	29	12.9	87	14	32.2	Sat	29	29	18.6	141.7	Sat
3	2000-02-05	Sat	13.1	27.2	11	Qdh	31	29.7	Mon	17.2	30.2	Mon	29	29	6.3	179.2	16.7	29.8	Mon	29	29	5.7	-173.6	13.1	26.1	Sun	30	30	3.9	-118.4	Mon
4	2000-03-06	Mon	5.3	27.4	12	Hjh	30	29.5	Tue	14.6	19.9	Tue	30	29	-4	-24.3	14.2	19.5	Tue	30	29	-5.4	-18	10.3	15.6	Tue	29	29	-10.9	40.9	Tue
5	2000-04-04	Tue	18.2	27.6	1	Mhr	31	29.4	Thu	12.6	30.8	Thu	29	29	-13	168.7	12.2	30.4	Thu	29	29	-13.9	173.4	7.9	26.1	Wed	30	30	-25.1	-123	Thu
6	2000-05-04	Thu	4.2	27.8	2	Sfr	30	29.3	Fri	12.3	16.5	Fri	29	29	-16.7	17.2	12.2	16.4	Fri	29	29	-14.1	20.6	8	12.2	Fri	29	29	-27.6	78.7	Fri
7	2000-06-02	Fri	12.2	28	3	Rb1	30	29.3	Sat	13.3	25.5	Sat	30	29	-13	-117.8	13.2	25.5	Sat	30	29	-11.2	-116.1	9.8	22.0	Sat	30	29	-18.3	-67	Sun
8	2000-07-01	Sat	19.3	28.1	4	Rb2	31	29.3	Mon	14.0	33.3	Mon	29	29	-6.7	129.7	13.9	33.3	Mon	29	29	-7.5	129.9	10.8	30.2	Mon	29	29	-9.5	175.4	Mon
9	2000-07-31	Mon	2.4	28	5	Jm1	30	29.3	Tue	13.7	16.1	Tue	29	29	-2.4	30.5	13.6	16.0	Tue	29	29	1.3	32.4	10.5	12.9	Tue	29	29	3.7	79.6	Tue
10	2000-08-29	Tue	10.3	27.7	6	Jm2	30	29.4	Wed	12.8	23.1	Wed	30	29	7	-74.3	12.6	22.9	Wed	30	29	7.2	-71.7	9.1	19.4	Wed	30	29	16.4	-17	Thu
11	2000-09-27	Wed	19.9	27.2	7	Rjb	31	29.5	Fri	12.4	32.3	Fri	29	29	13.7	144	12.0	31.9	Fri	29	29	14.7	149.1	7.7	27.6	Fri	29	29	26	-146.6	Fri
12	2000-10-27	Fri	8.0	26.8	8	Shn	30	29.6	Sat	13.8	21.8	Sat	30	29	15.8	-63.2	13.3	21.3	Sat	30	29	15.6	-55.7	8.7	16.7	Sat	30	29	28.2	9.4	Sun
13	2000-11-25	Sat	23.2	26.6	9	Rmd	31	29.8	Mon	16.6	39.8	Mon	30	29	12.4	26	16.1	39.2	Mon	30	29	10.5	35.2	12	35.1	Mon	30	29	19.3	93	Mon
14	2000-12-25	Mon	17.4	26.8	10	Shl	31	29.8	Wed	18.5	35.9	Wed	30	29	5	91.1	18.0	35.3	Wed	30	29	0	101.3	14.1	31.5	Wed	29	29	7.3	155.4	Wed
15	2001-01-24	Wed	13.1	27.1	11	Qdh	31	29.8	Fri	17.9	31.0	Fri	29	29	0	168.4	17.3	30.4	Fri	29	29	-1.1	178.2	13.4	26.5	Thu	30	30	-4	-122.6	Fri
16	2001-02-23	Fri	8.4	27.4	12	Hjh	31	29.7	Sun	15.7	24.1	Sat	30	30	-6.6	-85.8	15.0	23.4	Sat	30	30	-10.1	-74.9	10.6	19.0	Sat	30	30	-17.7	-7.4	Sat
17	2001-03-25	Sun	1.4	27.6	1	Mhr	30	29.6	Mon	14.2	15.5	Mon	30	29	-11.8	39	13.5	14.9	Mon	30	29	-14	48.6	8.7	10.0	Mon	29	29	-26.9	121.4	Mon
18	2001-04-23	Mon	15.4	27.7	2	Sfr	31	29.5	Wed	14.4	29.8	Wed	29	29	-10.1	-178.8	13.9	29.3	Wed	29	29	-10.6	-172.2	9.6	25.0	Tue	30	30	-20.7	-109.5	Wed
19	2001-05-23	Wed	2.8	27.9	3	Rb1	30	29.4	Thu	15.0	17.8	Thu	29	29	-4.1	2	14.8	17.5	Thu	29	29	-2.9	5.9	11.2	14.0	Thu	29	29	-9.6	56.6	Thu
20	2001-06-21	Thu	12.0	28.1	4	Rb2	30	29.3	Fri	14.7	26.7	Fri	30	29	0.9	-128.2	14.6	26.6	Fri	30	29	2.8	-125.9	11.4	23.4	Fri	30	29	-0.2	-79.8	Sat
21	2001-07-20	Fri	19.7	28.1	5	Jm1	31	29.3	Sun	13.4	33.1	Sun	29	29	5.1	138	13.3	33.1	Sun	29	29	8.1	139.7	10.1	29.9	Sun	29	29	10.6	-171.6	Sun
22	2001-08-19	Sun	2.9	27.8	6	Jm2	30	29.3	Mon	11.8	14.7	Mon	29	29	13	54.4	11.7	14.6	Mon	29	29	13.5	55.7	8.1	11.0	Mon	29	29	20.6	111.5	Mon
23	2001-09-17	Mon	10.5	27.4	7	Rjb	30	29.4	Tue	11.2	21.6	Tue	30	29	14.5	-54.4	11.0	21.5	Tue	30	29	15.7	-52.4	6.9	17.3	Tue	30	29	27.8	10.6	Wed
24	2001-10-16	Tue	19.4	26.9	8	Shn	31	29.5	Thu	12.6	31.9	Thu	29	29	10.6	146.3	12.4	31.8	Thu	29	29	13.1	148.7	8.3	27.7	Thu	29	29	23.8	-152.6	Thu
25	2001-11-15	Thu	6.7	26.7	9	Rmd	30	29.6	Fri	15.1	21.7	Fri	30	29	4.6	-60.6	14.8	21.5	Fri	30	29	2	-55.6	11.2	17.9	Fri	30	29	9.7	-4.4	Fri
26	2001-12-14	Fri	20.8	26.7	10	Shl	31	29.7	Sun	16.8	37.6	Sun	30	29	-2.9	67.6	16.4	37.2	Sun	30	29	-4.4	73.7	12.9	33.7	Sun	29	29	-1.3	124.5	Sun
27	2002-01-13	Sun	13.5	27	11	Qdh	31	29.8	Tue	16.7	30.1	Tue	29	29	-7.3	-175.9	16.1	29.6	Tue	29	29	-7.9	-168.1	12.3	25.8	Mon	30	30	-13	-108.4	Tue
28	2002-02-12	Tue	7.7	27.3	12	Hjh	31	29.8	Thu	15.4	23.1	Wed	30	30	-12.2	-68.8	14.7	22.4	Wed	30	30	-12.8	-58	10.1	17.7	Wed	30	30	-22.7	14.2	Wed
29	2002-03-14	Thu	2.0	27.5	1	Mhr	30	29.7	Fri	15.1	17.1	Fri	30	29	-11.8	17.3	14.2	16.3	Fri	30	29	-13.2	29.7	9.1	11.1	Fri	30	29	-24.9	107.8	Fri
30	2002-04-12	Fri	19.4	27.6	2	Sfr	31	29.6	Sun	16.3	35.7	Sun	30	29	-5.3	94.8	15.7	35.0	Sun	29	29	-5	105.1	11.1	30.5	Sun	29	29	-14.5	171.4	Sun
31	2002-05-12	Sun	10.8	27.8	3	Rb1	30	29.5	Mon	17.2	28.0	Tue	29	28	3.8	-148.7	16.8	27.5	Mon	30	29	5.2	-141.2	13	23.8	Mon	30	29	0.5	-86.5	Tue
32	2002-06-10	Mon	23.8	28	4	Rb2	31	29.4	Wed	16.4	40.2	Wed	29	29	9	32.2	16.1	39.9	Wed	29	29	10.9	37.7	12.7	36.4	Wed	29	29	11.5	89.2	Wed
33	2002-07-10	Wed	10.4	28.1	5	Jm1	30	29.4	Thu	14.3	24.7	Thu	30	29	14	-92.3	14.1	24.5	Thu	30	29	15	-88.6	10.5	21.0	Thu	29	29	18.4	-34.5	Fri
34	2002-08-08	Thu	19.3	27.9	6	Jm2	31	29.3	Sat	12.1	31.4	Sat	29	29	16.6	166.7	11.9	31.2	Sat	29	29	16.8	169.3	8	27.3	Fri	30	30	26.6	-128.8	Sat
35	2002-09-07	Sat	3.2	27.5	7	Rjb	30	29.3	Sun	11.3	14.5	Sun	29	29	13.7	54.6	11.2	14.4	Sun	29	29	17.4	56.6	7	10.2	Sun	29	29	27.9	120.9	Sun
36	2002-10-06	Sun	11.3	27.1	8	Shn	30	29.4	Mon	12.4	23.7	Mon	30	29	7.2	-87.9	12.3	23.6	Mon	30	29	6.1	-86.3	8.6	19.9	Mon	30	29	16.6	-31.5	Tue
37	2002-11-04	Mon	20.6	26.7	9	Rmd	31	29.5	Wed	14.0	34.6	Wed	29	29	-3.3	109.1	13.9	34.5	Wed	29	29	-4.7	110.8	10.7	31.3	Wed	29	29	1.8	157.3	Wed
38	2002-12-04	Wed	7.6	26.6	10	Shl	30	29.5	Thu	14.7	22.3	Thu	30	29	-11.4	-60.9	14.6	22.2	Thu	30	29	-10.8	-59.6	11.4	19.0	Thu	30	29	-13.3	-10.4	Thu

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
39	2003-01-02	Thu	20.4	26.8	11	Qdh	31	29.6	Sat	14.3	34.6	Sat	29	29	-14.8	118.8	14.0	34.4	Sat	29	29	-16.1	123.3	10.4	30.8	Sat	29	29	-19.6	179.1	Sat
40	2003-02-01	Sat	10.8	27.2	12	Hjh	31	29.7	Mon	13.7	24.5	Sun	30	30	-14.6	-88.1	13.2	24.0	Sun	30	30	-17.3	-79.7	8.7	19.5	Sun	30	30	-27.2	-9	Mon
41	2003-03-03	Mon	2.6	27.4	1	Mhr	30	29.7	Tue	14.5	17.1	Tue	30	29	-9.5	18.5	13.8	16.4	Tue	30	29	-11.1	29	8.9	11.5	Tue	30	29	-23.7	104.7	Tue
42	2003-04-01	Tue	19.3	27.6	2	Sfr	31	29.7	Thu	16.9	36.2	Thu	30	29	1.2	88.4	16.2	35.5	Thu	30	29	-0.4	98.9	11.8	31.1	Thu	29	29	-8.7	164	Thu
43	2003-05-01	Thu	12.2	27.8	3	Rb1	31	29.7	Sat	18.6	30.8	Sat	29	29	11.7	171.4	18.0	30.2	Sat	29	29	10	179.9	14.1	26.3	Fri	30	30	8.9	-122.4	Sat
44	2003-05-31	Sat	4.3	28	4	Rb2	30	29.6	Sun	17.9	22.3	Sun	30	29	20	-54.9	17.4	21.7	Sun	30	29	19.2	-47.1	13.6	18.0	Sun	30	29	19.8	9.2	Sun
45	2003-06-29	Sun	18.6	28.1	5	Jm1	31	29.5	Tue	15.6	34.3	Tue	29	29	22	127.7	15.1	33.8	Tue	29	29	21	134.6	11.1	29.8	Tue	29	29	27.3	-162	Tue
46	2003-07-29	Tue	6.9	28	6	Jm2	30	29.4	Wed	13.4	20.3	Wed	30	29	19.1	-24.9	13.0	19.8	Wed	30	29	21	-17.7	8.5	15.4	Wed	29	29	30.7	53.3	Wed
47	2003-08-27	Wed	17.4	27.7	7	Rjb	31	29.4	Fri	12.7	30.2	Fri	29	29	14.1	-178.6	12.4	29.8	Fri	29	29	16.3	-173.6	8	25.4	Thu	30	30	26.2	-105.4	Fri
48	2003-09-26	Fri	3.2	27.2	8	Shn	30	29.4	Sat	13.5	16.6	Sat	30	29	1.6	19.5	13.3	16.4	Sat	30	29	1.4	22	9.6	12.8	Sat	29	29	10.9	76.8	Sat
49	2003-10-25	Sat	12.8	26.8	9	Rmd	30	29.4	Sun	14.1	27.0	Mon	29	28	-12.2	-134.9	14.1	26.9	Mon	29	28	-10.7	-134.6	11	23.8	Sun	30	29	-6.6	-88.5	Mon
50	2003-11-23	Sun	23.0	26.6	10	Shl	31	29.4	Tue	13.7	36.7	Tue	29	29	-18.7	84.7	13.7	36.7	Tue	29	29	-19.2	84.9	10.6	33.6	Tue	29	29	-20.6	131.9	Tue
51	2003-12-23	Tue	9.7	26.7	11	Qdh	30	29.5	Wed	12.5	22.2	Wed	30	29	-21.2	-52.1	12.4	22.1	Wed	30	29	-24.5	-49.3	8.9	18.6	Wed	30	29	-27.8	5	Thu
52	2004-01-21	Wed	21.1	27	12	Hjh	31	29.5	Fri	11.8	32.9	Fri	29	29	-19.5	148.2	11.6	32.7	Fri	29	29	-22.1	152.5	7.3	28.4	Fri	29	29	-31	-139.9	Fri
53	2004-02-20	Fri	9.3	27.3	1	Mhr	30	29.6	Sat	13.1	22.4	Sat	30	29	-8.4	-60.7	12.8	22.1	Sat	30	29	-10.8	-54.5	8.4	17.7	Sat	30	29	-22.9	13.9	Sun
54	2004-03-20	Sat	22.7	27.5	2	Sfr	31	29.6	Mon	15.9	38.6	Mon	30	29	6	53.8	15.4	38.1	Mon	30	29	4.6	60.8	11.5	34.2	Mon	29	29	-1.8	119.5	Mon
55	2004-04-19	Mon	13.4	27.7	3	Rb1	31	29.6	Wed	17.9	31.3	Wed	29	29	20	166.2	17.4	30.7	Wed	29	29	18.7	173.7	13.7	27.1	Tue	30	30	18.3	-131.3	Wed
56	2004-05-19	Wed	4.9	27.9	4	Rb2	30	29.6	Thu	17.8	22.7	Thu	30	29	27	-59.1	17.2	22.1	Thu	30	29	28.6	-49.9	13.4	18.2	Thu	30	29	29.6	8.6	Thu
57	2004-06-17	Thu	20.4	28.1	5	Jm1	31	29.6	Sat	16.1	36.6	Sat	29	29	27.6	96	15.5	35.9	Sat	29	29	29.1	106.7	11.1	31.5	Sat	29	29	35.6	177.1	Sat
58	2004-07-17	Sat	11.4	28.1	6	Jm2	31	29.6	Mon	14.7	26.1	Sun	30	30	23.5	-108.7	14.0	25.4	Sun	30	30	27.4	-96.3	8.9	20.3	Sun	30	30	36.6	-15.6	Mon
59	2004-08-16	Mon	1.4	27.8	7	Rjb	30	29.5	Tue	14.7	16.1	Tue	30	29	12.3	33	14.1	15.5	Tue	30	29	13.9	42.4	9.5	10.9	Tue	29	29	25	115.6	Tue
60	2004-09-14	Tue	14.5	27.4	8	Shn	31	29.5	Thu	15.6	30.0	Thu	29	29	-2.4	179	15.2	29.6	Thu	29	29	-1.5	-175.1	11.4	25.8	Wed	30	30	4.4	-117.6	Thu
61	2004-10-14	Thu	2.8	27	9	Rmd	30	29.5	Fri	15.5	18.3	Fri	30	29	-18.4	-3.8	15.3	18.1	Fri	30	29	-19.8	-0.6	12	14.8	Fri	29	29	-16.5	48.1	Fri
62	2004-11-12	Fri	14.5	26.7	10	Shl	31	29.5	Sun	14.0	28.5	Sun	29	29	-28.1	-149.9	14.0	28.4	Sun	29	29	-29.1	-148.6	10.7	25.2	Sat	30	30	-31.3	-98.9	Sun
63	2004-12-12	Sun	1.5	26.7	11	Qdh	30	29.4	Mon	12.0	13.5	Mon	29	29	-27.9	80	12.0	13.5	Mon	29	29	-30.9	82.3	8.3	9.8	Mon	29	29	-37	141.1	Mon
64	2005-01-10	Mon	12.0	26.9	12	Hjh	30	29.4	Tue	11.0	23.1	Tue	30	29	-22.3	-63.8	11.0	23.0	Tue	30	29	-24.7	-61.5	6.8	18.8	Tue	30	29	-36.4	7.9	Wed
65	2005-02-08	Tue	22.5	27.2	1	Mhr	31	29.4	Thu	12.2	34.7	Thu	29	29	-7.8	116.5	12.1	34.5	Thu	29	29	-12	119.9	8.1	30.6	Thu	29	29	-20.3	-178.9	Thu
66	2005-03-10	Thu	9.2	27.5	2	Sfr	30	29.5	Fri	14.4	23.6	Fri	30	29	9.5	-81	14.2	23.4	Fri	30	29	10	-78.3	10.8	19.9	Fri	30	29	2.9	-26.1	Sat
67	2005-04-08	Fri	20.5	27.6	3	Rb1	31	29.5	Sun	15.9	36.4	Sun	29	29	26	89.1	15.6	36.1	Sun	29	29	25.5	92.9	12.3	32.8	Sun	29	29	26.5	143.4	Sun
68	2005-05-08	Sun	8.8	27.8	4	Rb2	30	29.5	Mon	15.9	24.6	Mon	30	29	34.6	-86.6	15.5	24.3	Mon	30	29	37.1	-80	11.8	20.5	Mon	30	29	39.7	-22.6	Mon
69	2005-06-06	Mon	21.9	28	5	Jm1	31	29.6	Wed	15.0	36.9	Wed	29	29	33.6	93.9	14.4	36.3	Wed	29	29	36.4	104.1	9.9	31.8	Wed	29	29	44.5	177.9	Wed
70	2005-07-06	Wed	12.0	28.1	6	Jm2	31	29.6	Fri	14.7	26.7	Thu	30	30	26.4	-117.1	14.0	26.0	Thu	30	30	29.9	-103.9	8.8	20.8	Thu	30	30	39.2	-20	Fri
71	2005-08-05	Fri	3.1	28	7	Rjb	30	29.7	Sat	16.1	19.2	Sat	30	29	12.2	-11.4	15.3	18.4	Sat	30	29	15.3	0.9	10.6	13.6	Sat	30	29	24.5	75.7	Sat
72	2005-09-03	Sat	18.8	27.6	8	Shn	31	29.7	Mon	17.6	36.4	Mon	30	29	-7.6	84	17.0	35.8	Mon	30	29	-6	93.3	13	31.8	Mon	29	29	-2.2	153.5	Mon
73	2005-10-03	Mon	10.5	27.1	9	Rmd	31	29.6	Wed	17.4	27.9	Wed	29	29	-24.8	-147.7	17.0	27.4	Wed	29	29	-25.4	-141.2	13.4	23.9	Tue	30	30	-23	-88	Wed
74	2005-11-02	Wed	1.4	26.7	10	Shl	30	29.6	Thu	15.3	16.7	Thu	30	29	-35.3	26.8	15.1	16.5	Thu	30	29	-35.2	30.6	11.4	12.8	Thu	29	29	-39.2	87.1	Thu
75	2005-12-01	Thu	15.0	26.6	11	Qdh	31	29.5	Sat	12.8	27.9	Sat	29	29	-34.9	-133	12.7	27.7	Sat	29	29	-36.7	-129.2	8.6	23.6	Fri	30	30	-46	-60.3	Sat
76	2005-12-31	Sat	3.2	26.8	12	Hjh	30	29.5	Sun	11.7	14.9	Sun	29	29	-27.6	61.6	11.6	14.8	Sun	29	29	-28	63.6	7.2	10.4	Sun	29	29	-39.9	136.7	Sun

Moon Data									R29	Yalop							SAAO						Odeh						R19h		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
77	2006-01-29	Sun	14.2	27.1	1	Mhr	31	29.4	Tue	12.5	26.7	Mon	30	30	-7.5	-124.5	12.4	26.7	Mon	30	30	-9	-122.7	8.7	22.9	Mon	30	30	-18.8	-63.3	Tue
78	2006-02-28	Tue	0.5	27.4	2	Sfr	30	29.4	Wed	13.7	14.3	Wed	29	29	13.4	58.3	13.7	14.2	Wed	29	29	13.6	58.9	10.5	11.0	Wed	29	29	10.2	107.1	Wed
79	2006-03-29	Wed	10.3	27.6	3	Rb1	30	29.4	Thu	14.1	24.3	Thu	30	29	32.6	-90.6	14.1	24.3	Thu	30	29	33	-90	10.9	21.2	Thu	30	29	35	-42.9	Fri
80	2006-04-27	Thu	19.7	27.7	4	Rb2	31	29.4	Sat	13.5	33.2	Sat	29	29	43.4	146.2	13.4	33.1	Sat	29	29	42	147.2	9.8	29.5	Sat	29	29	48.8	-155.6	Sat
81	2006-05-27	Sat	5.4	27.9	5	Jm1	30	29.4	Sun	12.9	18.3	Sun	30	29	39.9	15.5	12.6	18.0	Sun	30	29	42.5	21.3	8.2	13.6	Sun	29	29	50	93.9	Sun
82	2006-06-25	Sun	16.1	28.1	6	Jm2	31	29.5	Tue	13.5	29.6	Tue	29	29	29.9	-158.2	13.1	29.1	Tue	29	29	33.4	-148.8	8.2	24.3	Mon	30	30	42.1	-69.5	Tue
83	2006-07-25	Tue	4.5	28.1	7	Rjb	30	29.6	Wed	15.9	20.4	Wed	30	29	10	-29.4	15.2	19.7	Wed	30	29	14	-18.4	10.8	15.3	Wed	30	29	22.1	51.2	Wed
84	2006-08-23	Wed	19.2	27.8	8	Shn	31	29.7	Fri	18.1	37.3	Fri	30	29	-10.6	70.1	17.5	36.7	Fri	30	29	-10	79.6	13.6	32.7	Fri	29	29	-5.5	139.2	Fri
85	2006-09-22	Fri	11.7	27.3	9	Rmd	31	29.7	Sun	18.4	30.2	Sun	29	29	-30.8	176.4	17.9	29.6	Sun	29	29	-30.5	-175	14.1	25.8	Sat	30	30	-30.2	-118.5	Sun
86	2006-10-22	Sun	5.2	26.9	10	Shl	30	29.7	Mon	16.6	21.8	Mon	30	29	-44	-48.5	16.1	21.3	Mon	30	29	-44.4	-40.8	12	17.2	Mon	30	29	-48.8	22.8	Mon
87	2006-11-20	Mon	22.3	26.6	11	Qdh	31	29.7	Wed	14.2	36.5	Wed	30	29	-41.4	98.5	13.8	36.1	Wed	30	29	-42.5	105.9	9	31.3	Wed	29	29	-52.8	-173.3	Wed
88	2006-12-20	Wed	14.0	26.7	12	Hjh	31	29.6	Fri	13.4	27.4	Fri	29	29	-29.5	-126.4	13.0	27.0	Fri	29	29	-31.4	-119.7	8.4	22.4	Thu	30	30	-40.2	-43.5	Fri
89	2007-01-19	Fri	4.0	27	1	Mhr	30	29.5	Sat	14.1	18.1	Sat	30	29	-7.9	5.6	13.8	17.8	Sat	30	29	-10.7	10	10.1	14.1	Sat	30	29	-16.5	69	Sat
90	2007-02-17	Sat	16.2	27.3	2	Sfr	31	29.4	Mon	14.4	30.6	Mon	29	29	16	171.3	14.3	30.6	Mon	29	29	14.8	172.9	11.1	27.4	Mon	29	29	13.4	-139.1	Mon
91	2007-03-19	Mon	2.7	27.5	3	Rb1	30	29.4	Tue	13.6	16.3	Tue	29	29	39.1	28.3	13.6	16.3	Tue	29	29	37.9	28.3	10.5	13.2	Tue	29	29	39	74.8	Tue
92	2007-04-17	Tue	11.6	27.7	4	Rb2	30	29.3	Wed	12.1	23.7	Wed	30	29	49.8	-71.2	12.2	23.8	Wed	30	29	51.1	-71.6	8.6	20.2	Wed	29	29	58.5	-13	Thu
93	2007-05-16	Wed	19.5	27.9	5	Jm1	31	29.3	Fri	11.3	30.7	Fri	29	29	47.1	-168	11.3	30.7	Fri	29	29	48.7	-166.5	6.9	26.4	Thu	30	30	57.5	-91.4	Fri
94	2007-06-15	Fri	3.2	28.1	6	Jm2	30	29.4	Sat	12.2	15.5	Sat	29	29	34	56.3	12.0	15.3	Sat	29	29	34.3	59.6	7.7	10.9	Sat	29	29	44.2	132.7	Sat
95	2007-07-14	Sat	12.1	28.1	7	Rjb	30	29.5	Sun	14.6	26.7	Sun	30	29	10	-123.6	14.3	26.3	Sun	30	29	12	-117.9	10.4	22.5	Sun	30	29	18	-57.3	Mon
96	2007-08-12	Sun	23.0	27.9	8	Shn	31	29.6	Tue	16.8	39.8	Tue	30	29	-12.3	31.2	16.4	39.4	Tue	30	29	-10	38	12.8	35.8	Tue	29	29	-8.3	92.3	Tue
97	2007-09-11	Tue	12.7	27.5	9	Rmd	31	29.7	Thu	17.4	30.2	Thu	29	29	-35	174.6	17.0	29.7	Thu	29	29	-33.4	-178.1	13.2	26.0	Wed	30	30	-36	-122.5	Thu
98	2007-10-11	Thu	5.0	27	10	Shl	30	29.8	Fri	16.3	21.3	Fri	30	29	-48.3	-44.1	15.8	20.8	Fri	30	29	-50	-35.3	11.4	16.4	Fri	30	29	-56.2	32.4	Fri
99	2007-11-09	Fri	23.1	26.7	11	Qdh	31	29.8	Sun	15.0	38.0	Sun	30	29	-48	77.2	14.4	37.4	Sun	30	29	-48.4	86.8	9.1	32.1	Sun	30	29	-59	177.1	Sun
100	2007-12-09	Sun	17.7	26.6	12	Hjh	31	29.7	Tue	15.3	32.9	Tue	30	29	-32.7	151.2	14.6	32.3	Tue	30	29	-35	162.2	9.6	27.3	Tue	29	29	-42.6	-117.1	Tue
101	2008-01-08	Tue	11.6	26.9	1	Mhr	31	29.7	Thu	16.4	28.0	Thu	29	29	-6.9	-144.2	15.9	27.5	Thu	29	29	-10	-135.9	11.9	23.5	Wed	30	30	-14.5	-74	Thu
102	2008-02-07	Thu	3.7	27.2	2	Sfr	30	29.6	Fri	16.2	19.9	Fri	30	29	18.9	-29.6	15.9	19.6	Fri	30	29	18.2	-25.2	12.5	16.2	Fri	30	29	18.4	25.6	Fri
103	2008-03-07	Fri	17.2	27.5	3	Rb1	31	29.4	Sun	14.4	31.6	Sun	29	29	43.8	154.8	14.3	31.5	Sun	29	29	41.6	157	10.9	28.1	Sun	29	29	47.5	-153.4	Sun
104	2008-04-06	Sun	3.9	27.6	4	Rb2	30	29.3	Mon	12.1	16.0	Mon	29	29	55.5	41.4	12.2	16.1	Mon	29	29	53.9	40.3	8.3	12.3	Mon	29	29	60	100.3	Mon
105	2008-05-05	Mon	12.3	27.8	5	Jm1	30	29.3	Tue	11.0	23.3	Tue	30	29	52.7	-55.8	11.1	23.4	Tue	30	29	52.7	-56.6	6.7	19.0	Tue	29	29	60	17.8	Wed
106	2008-06-03	Tue	19.4	28	6	Jm2	31	29.3	Thu	11.8	31.2	Thu	29	29	34.8	179.7	11.8	31.2	Thu	29	29	35.4	-179.6	7.8	27.1	Wed	30	30	45.6	-111.3	Thu
107	2008-07-03	Thu	2.3	28.1	7	Rjb	30	29.3	Fri	13.6	15.9	Fri	29	29	11.3	37.8	13.5	15.8	Fri	29	29	12.3	39.7	10.1	12.4	Fri	29	29	18.3	93.9	Fri
108	2008-08-01	Fri	10.2	28	8	Shn	30	29.4	Sat	15.0	25.2	Sat	30	29	-14.6	-109.7	14.8	25.0	Sat	30	29	-13.9	-107	11.6	21.8	Sat	30	29	-14.1	-58.6	Sun
109	2008-08-30	Sat	20.0	27.6	9	Rmd	31	29.5	Mon	15.1	35.1	Mon	29	29	-37.4	98.3	14.9	34.8	Mon	29	29	-37.6	101.9	11.4	31.3	Mon	29	29	-41.7	153.3	Mon
110	2008-09-29	Mon	8.2	27.2	10	Shl	30	29.6	Tue	14.4	22.6	Tue	30	29	-54.3	-66.3	14.1	22.3	Tue	30	29	-52.4	-61.8	9.8	18.0	Tue	30	29	-60	3.7	Wed
111	2008-10-28	Tue	23.2	26.8	11	Qdh	31	29.7	Thu	14.2	37.4	Thu	30	29	-52.8	84.5	13.7	36.9	Thu	30	29	-53.7	92.9	8.6	31.8	Thu	30	29	-60	175.8	Thu
112	2008-11-27	Thu	16.9	26.6	12	Hjh	31	29.8	Sat	16.0	32.9	Sat	30	29	-40	154	15.2	32.1	Sat	30	29	-37.8	163.9	10.3	27.2	Sat	29	29	-46.7	-114.7	Sat
113	2008-12-27	Sat	12.4	26.8	1	Mhr	31	29.8	Mon	18.0	30.4	Mon	29	29	-8.6	179	17.4	29.8	Mon	29	29	-10.6	-170.5	13.3	25.7	Sun	30	30	-15.4	-106.8	Mon
114	2009-01-26	Mon	7.9	27.1	2	Sfr	31	29.7	Wed	18.1	26.0	Tue	30	30	20.1	-122.9	17.6	25.5	Tue	30	30	20.3	-115.4	13.9	21.8	Tue	30	30	20	-59.9	Tue

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
115	2009-02-25	Wed	1.6	27.4	3	Rb1	30	29.6	Thu	15.9	17.5	Thu	30	29	47.3	2	15.6	17.1	Thu	30	29	44.5	8.5	11.7	13.3	Thu	29	29	50.1	63.9	Thu
116	2009-03-26	Thu	16.1	27.6	4	Rb2	31	29.5	Sat	13.3	29.4	Sat	29	29	60	-162.9	13.1	29.2	Sat	29	29	59.4	-160.5	8.9	25.0	Fri	30	30	60	-97	Sat
117	2009-04-25	Sat	3.4	27.7	5	Jm1	30	29.4	Sun	12.1	15.4	Sun	29	29	54.9	59.2	12.0	15.4	Sun	29	29	55.4	60.8	7.4	10.8	Sun	29	29	60	133.6	Sun
118	2009-05-24	Sun	12.2	27.9	6	Jm2	30	29.3	Mon	12.7	24.9	Mon	30	29	36.2	-86.8	12.6	24.8	Mon	30	29	36.5	-85.6	8.7	20.9	Mon	30	29	45.1	-20.5	Tue
119	2009-06-22	Mon	19.6	28.1	7	Rjb	31	29.3	Wed	13.7	33.3	Wed	29	29	10.1	136.5	13.7	33.3	Wed	29	29	11.3	137.6	10.4	30.0	Wed	29	29	14	-172.6	Wed
120	2009-07-22	Wed	2.6	28.1	8	Shn	30	29.3	Thu	13.9	16.5	Thu	29	29	-15.4	19.4	13.9	16.4	Thu	29	29	-16.2	19.7	10.8	13.4	Thu	29	29	-16.1	65.5	Thu
121	2009-08-20	Thu	10.0	27.8	9	Rmd	30	29.4	Fri	13.1	23.2	Fri	30	29	-41.8	-86.7	13.1	23.1	Fri	30	29	-40.5	-85.8	9.8	19.8	Fri	29	29	-46.9	-38.2	Sat
122	2009-09-18	Fri	18.7	27.4	10	Shl	31	29.5	Sun	12.2	30.9	Sun	29	29	-57.4	163.8	12.2	30.9	Sun	29	29	-56.1	164.5	8.2	26.9	Sat	30	30	-59.7	-136	Sun
123	2009-10-18	Sun	5.5	26.9	11	Qdh	30	29.6	Mon	12.6	18.1	Mon	30	29	-56.2	11.3	12.4	17.9	Mon	30	29	-55.2	13.5	7.8	13.3	Mon	30	29	-60	86.1	Mon
124	2009-11-16	Mon	19.2	26.6	12	Hjh	31	29.7	Wed	15.0	34.3	Wed	30	29	-35.4	127.7	14.6	33.8	Wed	30	29	-38.9	136.6	10.1	29.3	Wed	29	29	-47.7	-150.1	Wed
125	2009-12-16	Wed	12.0	26.7	1	Mhr	31	29.8	Fri	17.8	29.8	Fri	29	29	-10	-173.2	17.2	29.3	Fri	29	29	-11	-164.3	13.3	25.4	Thu	30	30	-15.1	-103.9	Fri
126	2010-01-15	Fri	7.2	27	2	Sfr	31	29.8	Sun	18.5	25.7	Sat	30	30	20.9	-120.6	17.9	25.1	Sat	30	30	20	-111.5	14.2	21.3	Sat	30	30	21	-55.2	Sat
127	2010-02-14	Sun	2.9	27.3	3	Rb1	30	29.8	Mon	16.8	19.7	Mon	30	29	45.8	-33.7	16.3	19.1	Mon	30	29	46.5	-25.9	12	14.9	Mon	30	29	52.4	34.2	Mon
128	2010-03-15	Mon	21.0	27.5	4	Rb2	31	29.6	Wed	14.6	35.6	Wed	29	29	60	97.2	14.1	35.1	Wed	29	29	60	104.1	9.5	30.5	Wed	29	29	60	173.6	Wed
129	2010-04-14	Wed	12.5	27.7	5	Jm1	31	29.5	Fri	14.0	26.4	Thu	30	30	57.5	-109.4	13.6	26.1	Thu	30	30	56.8	-104	8.7	21.2	Thu	30	30	60	-29.3	Fri
130	2010-05-14	Fri	1.1	27.9	6	Jm2	30	29.4	Sat	14.7	15.8	Sat	29	29	35.4	47.5	14.4	15.5	Sat	29	29	36.5	52.2	10.4	11.5	Sat	29	29	46	118.3	Sat
131	2010-06-12	Sat	11.2	28.1	7	Rjb	30	29.4	Sun	15.0	26.3	Sun	30	29	10.2	-118.8	14.9	26.1	Sun	30	29	11.4	-115.8	11.6	22.8	Sun	30	29	12.8	-65.4	Mon
132	2010-07-11	Sun	19.7	28.1	8	Shn	31	29.3	Tue	14.2	33.8	Tue	29	29	-18.3	117.4	14.1	33.8	Tue	29	29	-16.7	119	11	30.6	Tue	29	29	-18.9	164.9	Tue
133	2010-08-10	Tue	3.1	27.9	9	Rmd	30	29.3	Wed	12.5	15.6	Wed	29	29	-42.7	23.8	12.5	15.6	Wed	29	29	-40.6	24.3	9.1	12.2	Wed	29	29	-48.5	71.3	Wed
134	2010-09-08	Wed	10.5	27.5	10	Shl	30	29.3	Thu	11.1	21.5	Thu	30	29	-58.9	-61.3	11.2	21.7	Thu	30	29	-56.6	-62.4	7.3	17.8	Thu	29	29	-60	-5.2	Fri
135	2010-10-07	Thu	18.7	27.1	11	Qdh	31	29.4	Sat	11.4	30.1	Sat	29	29	-58.5	-173.6	11.4	30.2	Sat	29	29	-57.4	-174.9	7.3	26.0	Fri	30	30	-60	-111.2	Sat
136	2010-11-06	Sat	4.9	26.7	12	Hjh	30	29.5	Sun	13.7	18.6	Sun	30	29	-36.3	0.9	13.5	18.4	Sun	30	29	-38.9	4.5	9.7	14.5	Sun	30	29	-45.4	66.4	Sun
137	2010-12-05	Sun	17.6	26.6	1	Mhr	31	29.6	Tue	16.1	33.7	Tue	29	29	-9.3	127.5	15.8	33.4	Tue	29	29	-11.2	132.8	12.3	29.9	Tue	29	29	-13	-174.1	Tue
138	2011-01-04	Tue	9.0	26.9	2	Sfr	31	29.7	Thu	16.9	25.9	Wed	30	30	19.5	-125.3	16.5	25.5	Wed	30	30	19.7	-119.2	12.9	21.9	Wed	30	30	22.4	-66.6	Thu
139	2011-02-03	Thu	2.5	27.2	3	Rb1	30	29.8	Fri	16.0	18.5	Fri	30	29	49.9	-23.5	15.4	17.9	Fri	30	29	44.1	-10.9	11.1	13.7	Fri	30	29	53.5	46.6	Fri
140	2011-03-04	Fri	20.8	27.4	4	Rb2	31	29.7	Sun	14.8	35.5	Sun	30	29	60	90.9	14.2	35.0	Sun	30	29	60	99.6	9.4	30.1	Sun	29	29	60	171.9	Sun
141	2011-04-03	Sun	14.5	27.6	5	Jm1	31	29.7	Tue	15.4	30.0	Tue	29	29	57.8	-168	14.8	29.4	Tue	29	29	58.6	-158.7	9.8	24.3	Mon	30	30	60	-82.8	Tue
142	2011-05-03	Tue	6.8	27.8	6	Jm2	30	29.6	Wed	16.9	23.8	Wed	30	29	35.5	-74.6	16.4	23.2	Wed	30	29	36.8	-66.1	12.2	19.1	Wed	30	29	43.9	0	Wed
143	2011-06-01	Wed	21.0	28	7	Rjb	31	29.5	Fri	17.1	38.1	Fri	29	29	8.7	62.2	16.7	37.7	Fri	29	29	9	68.2	13.1	34.2	Fri	29	29	11.2	122.3	Fri
144	2011-07-01	Fri	8.9	28.1	8	Shn	30	29.4	Sat	15.5	24.4	Sat	30	29	-19.2	-102	15.2	24.1	Sat	30	29	-16.6	-97	11.8	20.7	Sat	29	29	-21.3	-47.8	Sat
145	2011-07-30	Sat	18.7	28	9	Rmd	31	29.4	Mon	13.1	31.7	Mon	29	29	-42.5	139.2	13.0	31.6	Mon	29	29	-39.7	142.3	9.2	27.9	Sun	30	30	-50.1	-168.1	Mon
146	2011-08-29	Mon	3.1	27.7	10	Shl	30	29.3	Tue	11.3	14.4	Tue	29	29	-59.6	40.3	11.4	14.4	Tue	29	29	-56.9	40.9	7.3	10.4	Tue	29	29	-59.7	100	Tue
147	2011-09-27	Tue	11.1	27.2	11	Qdh	30	29.4	Wed	11.5	22.6	Wed	30	29	-57.9	-67.1	11.6	22.7	Wed	30	29	-56.9	-68.7	7.5	18.7	Wed	30	29	-60	-7.7	Thu
148	2011-10-26	Wed	19.9	26.8	12	Hjh	31	29.4	Fri	13.2	33.1	Fri	29	29	-37	140.6	13.2	33.1	Fri	29	29	-37.6	140.8	9.6	29.6	Fri	29	29	-45.9	-162.7	Fri
149	2011-11-25	Fri	6.2	26.6	1	Mhr	30	29.5	Sat	14.5	20.7	Sat	30	29	-10.4	-38.1	14.4	20.6	Sat	30	29	-8.8	-37.8	11.3	17.4	Sat	30	29	-11.3	10.7	Sat
150	2011-12-24	Sat	18.1	26.7	2	Sfr	31	29.6	Mon	14.6	32.7	Mon	29	29	19.6	132.1	14.4	32.5	Mon	29	29	18	135.5	11.1	29.2	Mon	29	29	21.9	-176.3	Mon
151	2012-01-23	Mon	7.7	27.1	3	Rb1	30	29.6	Tue	13.8	21.4	Tue	30	29	44.8	-67.3	13.5	21.1	Tue	30	29	44.2	-62.9	9.4	17.0	Tue	30	29	53.5	-9.3	Tue
152	2012-02-21	Tue	22.6	27.3	4	Rb2	31	29.7	Thu	13.6	36.2	Thu	30	29	60	74.3	13.2	35.8	Thu	30	29	59.5	80.5	8.5	31.0	Thu	29	29	60	151	Thu

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
153	2012-03-22	Thu	14.6	27.5	5	Jm1	31	29.7	Sat	15.5	30.1	Sat	29	29	57.2	-176.2	14.9	29.5	Sat	29	29	56.9	-167.8	10.1	24.7	Fri	30	30	60	-95.4	Sat
154	2012-04-21	Sat	7.3	27.7	6	Jm2	30	29.7	Sun	18.0	25.3	Sun	30	29	30	-101	17.3	24.6	Sun	30	29	36.1	-89.3	13.2	20.5	Sun	30	29	41	-25.4	Sun
155	2012-05-20	Sun	23.8	27.9	7	Rjb	31	29.6	Tue	18.6	42.3	Tue	30	29	7.8	-2.1	18.0	41.8	Tue	30	29	10	7.3	14.2	38.0	Tue	29	29	9.5	63.4	Tue
156	2012-06-19	Tue	15.0	28.1	8	Shn	31	29.6	Thu	16.9	32.0	Thu	29	29	-19.5	143	16.4	31.5	Thu	29	29	-17.2	151.7	12.6	27.6	Wed	30	30	-22.7	-153.6	Thu
157	2012-07-19	Thu	4.4	28.1	9	Rmd	30	29.5	Fri	14.4	18.8	Fri	30	29	-41.1	-28.2	14.0	18.4	Fri	30	29	-39.1	-21.1	9.7	14.1	Fri	29	29	-49.7	35.5	Fri
158	2012-08-17	Fri	15.9	27.8	10	Shl	31	29.4	Sun	12.7	28.6	Sun	29	29	-57	-177	12.5	28.4	Sun	29	29	-54.4	-172	8.1	24.0	Sat	30	30	-56.2	-108.1	Sun
159	2012-09-16	Sun	2.2	27.4	11	Qdh	30	29.4	Mon	12.9	15.0	Mon	29	29	-54.7	41.3	12.8	15.0	Mon	29	29	-53.8	42.6	8.6	10.8	Mon	29	29	-60	104.6	Mon
160	2012-10-15	Mon	12.0	26.9	12	Hjh	30	29.4	Tue	13.9	25.9	Tue	30	29	-36.2	-114.6	13.8	25.9	Tue	30	29	-35.8	-114	10.4	22.4	Tue	30	29	-42.6	-60.8	Wed
161	2012-11-13	Tue	22.1	26.7	1	Mhr	31	29.4	Thu	14.1	36.2	Thu	29	29	-8.2	86.4	14.1	36.2	Thu	29	29	-10.8	87.8	11	33.1	Thu	29	29	-10.4	133.4	Thu
162	2012-12-13	Thu	8.7	26.7	2	Sfr	30	29.5	Fri	13.1	21.8	Fri	30	29	19.3	-66	13.1	21.8	Fri	30	29	17.2	-64.5	9.9	18.5	Fri	30	29	22.9	-18.9	Sat
163	2013-01-11	Fri	19.7	26.9	3	Rb1	31	29.5	Sun	11.9	31.6	Sun	29	29	43.2	137.9	11.8	31.5	Sun	29	29	40.7	140.9	7.8	27.5	Sun	29	29	52.5	-170.6	Sun
164	2013-02-10	Sun	7.3	27.3	4	Rb2	30	29.5	Mon	12.0	19.3	Mon	30	29	58.5	-38.6	11.9	19.2	Mon	30	29	55.2	-33.8	7.4	14.7	Mon	30	29	60	29.2	Mon
165	2013-03-11	Mon	19.8	27.5	5	Jm1	31	29.6	Wed	14.3	34.2	Wed	29	29	53.5	117.3	14.0	33.9	Wed	29	29	52.9	121.7	9.7	29.6	Wed	29	29	60	-174.8	Wed
166	2013-04-10	Wed	9.6	27.6	6	Jm2	31	29.6	Fri	17.0	26.6	Thu	30	30	32.2	-122.6	16.6	26.2	Thu	30	30	34	-115.6	12.8	22.4	Thu	30	30	39.4	-57.6	Fri
167	2013-05-10	Fri	0.5	27.8	7	Rjb	30	29.6	Sat	18.1	18.6	Sat	30	29	7	-6.5	17.6	18.0	Sat	30	29	8	2.1	13.9	14.3	Sat	30	29	8.5	57.5	Sat
168	2013-06-08	Sat	15.9	28	8	Shn	31	29.6	Mon	17.1	33.0	Mon	29	29	-16.8	127.7	16.5	32.4	Mon	29	29	-17.8	136.9	12.4	28.4	Mon	29	29	-24.2	-165.4	Mon
169	2013-07-08	Mon	7.2	28.1	9	Rmd	30	29.6	Tue	15.2	22.5	Tue	30	29	-39.2	-83.9	14.6	21.8	Tue	30	29	-37.8	-73.3	9.8	17.0	Tue	30	29	-48.8	-10	Tue
170	2013-08-06	Tue	21.8	28	10	Shl	31	29.6	Thu	14.4	36.2	Thu	29	29	-52.7	67.2	13.8	35.7	Thu	29	29	-50.4	77	8.7	30.5	Thu	29	29	-59.9	145	Thu
171	2013-09-05	Thu	11.6	27.6	11	Qdh	31	29.5	Sat	15.1	26.7	Fri	30	30	-48.7	-136.7	14.7	26.3	Fri	30	30	-48.7	-130.9	10.3	21.9	Fri	30	30	-59.2	-67.9	Sat
172	2013-10-05	Sat	0.6	27.1	12	Hjh	30	29.5	Sun	15.7	16.3	Sun	30	29	-32.6	27.2	15.5	16.0	Sun	30	29	-31	30.5	11.9	12.5	Sun	29	29	-37.9	84.9	Sun
173	2013-11-03	Sun	12.8	26.7	1	Mhr	31	29.5	Tue	15.0	27.8	Tue	29	29	-6.4	-148.8	14.8	27.7	Tue	29	29	-8.1	-145.9	11.6	24.5	Mon	30	30	-6.2	-98.5	Tue
174	2013-12-03	Tue	0.4	26.6	2	Sfr	30	29.5	Wed	13.1	13.5	Wed	29	29	19.4	58.2	13.0	13.4	Wed	29	29	17.2	60.5	9.7	10.0	Wed	29	29	24.8	107.2	Wed
175	2014-01-01	Wed	11.2	26.8	3	Rb1	30	29.4	Thu	11.3	22.5	Thu	30	29	40.4	-86.4	11.3	22.5	Thu	30	29	37.9	-84.5	7.3	18.5	Thu	30	29	51.1	-36.5	Fri
176	2014-01-30	Thu	21.6	27.1	4	Rb2	31	29.4	Sat	11.2	32.8	Sat	29	29	51.6	118.9	11.3	32.9	Sat	29	29	50.6	119.1	6.9	28.6	Sat	29	29	60	174.1	Sat
177	2014-03-01	Sat	8.0	27.4	5	Jm1	30	29.4	Sun	13.2	21.2	Sun	30	29	50	-52.1	13.1	21.1	Sun	30	29	46.4	-50.1	9.3	17.3	Sun	30	29	56.9	3.2	Sun
178	2014-03-30	Sun	18.7	27.6	6	Jm2	31	29.5	Tue	15.3	34.0	Tue	29	29	30.8	124.5	15.1	33.8	Tue	29	29	31.4	127.3	11.7	30.4	Tue	29	29	33.9	178.3	Tue
179	2014-04-29	Tue	6.2	27.8	7	Rjb	30	29.5	Wed	16.0	22.3	Wed	30	29	5.5	-62.4	15.7	21.9	Wed	30	29	6.8	-57	12.3	18.5	Wed	30	29	4.6	-6	Wed
180	2014-05-28	Wed	18.7	28	8	Shn	31	29.6	Fri	15.5	34.1	Fri	29	29	-16.1	111.8	15.0	33.6	Fri	29	29	-16.5	119.2	11	29.6	Fri	29	29	-23.5	175.9	Fri
181	2014-06-27	Fri	8.1	28.1	9	Rmd	30	29.6	Sat	14.6	22.7	Sat	30	29	-35	-86.8	14.0	22.1	Sat	30	29	-34.4	-76.7	9	17.2	Sat	30	29	-47.5	-13.3	Sat
182	2014-07-26	Sat	22.7	28	10	Shl	31	29.6	Mon	15.1	37.8	Mon	30	29	-46.1	45.3	14.4	37.1	Mon	30	29	-45.6	55.9	9.1	31.8	Mon	29	29	-59	121.3	Mon
183	2014-08-25	Mon	14.2	27.7	11	Qdh	31	29.7	Wed	16.9	31.1	Wed	29	29	-44.5	155.1	16.3	30.5	Wed	29	29	-43.1	164.5	11.8	26.0	Tue	30	30	-54	-132.8	Wed
184	2014-09-24	Wed	6.2	27.3	12	Hjh	30	29.7	Thu	17.8	24.0	Thu	30	29	-27.5	-91.1	17.3	23.5	Thu	30	29	-27.9	-83.6	13.5	19.8	Thu	30	29	-31.8	-27.2	Thu
185	2014-10-23	Thu	21.9	26.8	1	Mhr	31	29.6	Sat	16.6	38.6	Sat	30	29	-6.5	49.6	16.3	38.2	Sat	29	29	-7.5	55.7	12.7	34.7	Sat	29	29	-4	107.8	Sat
186	2014-11-22	Sat	12.5	26.6	2	Sfr	31	29.5	Mon	14.2	26.7	Mon	29	29	18.2	-140.1	13.9	26.4	Sun	30	30	16.7	-135	10.1	22.6	Sun	30	30	24.4	-81.7	Mon
187	2014-12-22	Mon	1.6	26.7	3	Rb1	30	29.5	Tue	12.1	13.7	Tue	29	29	37.6	46.4	11.9	13.5	Tue	29	29	35.1	50.7	7.6	9.2	Tue	29	29	48.3	104.1	Tue
188	2015-01-20	Tue	13.2	27	4	Rb2	30	29.4	Wed	11.9	25.1	Wed	30	29	45.6	-123.9	11.8	25.0	Wed	30	29	44.5	-122.6	7.6	20.8	Wed	30	29	58.7	-74.3	Thu
189	2015-02-18	Wed	23.8	27.3	5	Jm1	31	29.4	Fri	13.1	36.9	Fri	29	29	42.5	70.6	13.1	36.9	Fri	29	29	40.6	71.2	9.6	33.4	Fri	29	29	49.5	119.9	Fri
190	2015-03-20	Fri	9.6	27.5	6	Jm2	30	29.4	Sat	14.1	23.7	Sat	30	29	25.5	-82.1	14.0	23.6	Sat	30	29	25.7	-81.5	10.9	20.5	Sat	30	29	26.9	-35	Sun

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
191	2015-04-18	Sat	18.9	27.7	7	Rjb	31	29.4	Mon	13.9	32.9	Mon	29	29	5	138.7	13.8	32.7	Mon	29	29	4.3	140.5	10.6	29.5	Mon	29	29	1.7	-171.8	Mon
192	2015-05-18	Mon	4.2	27.9	8	Shn	30	29.4	Tue	13.1	17.4	Tue	29	29	-17	3.4	12.9	17.1	Tue	29	29	-16	7.5	9.1	13.3	Tue	29	29	-25.9	60.7	Tue
193	2015-06-16	Tue	14.1	28.1	9	Rmd	31	29.5	Thu	12.9	27.0	Wed	30	30	-32	-149.8	12.5	26.6	Wed	30	30	-31	-143.2	7.9	22.0	Wed	30	30	-43.4	-82.4	Thu
194	2015-07-16	Thu	1.4	28.1	10	Shl	30	29.6	Fri	14.4	15.8	Fri	30	29	-40.1	16.4	13.9	15.3	Fri	30	29	-39.6	24.4	9.1	10.5	Fri	29	29	-51.6	85.9	Fri
195	2015-08-14	Fri	14.9	27.9	11	Qdh	31	29.7	Sun	17.0	31.9	Sun	29	29	-38	142.5	16.4	31.3	Sun	29	29	-36.5	151.6	12.2	27.1	Sat	30	30	-46	-149.4	Sun
196	2015-09-13	Sun	6.7	27.4	12	Hjh	31	29.7	Tue	18.6	25.3	Mon	30	30	-24.5	-110.8	18.0	24.7	Mon	30	30	-20.7	-102.1	14.2	20.9	Mon	30	30	-25	-44.9	Mon
197	2015-10-13	Tue	0.1	27	1	Mhr	30	29.7	Wed	17.8	17.9	Wed	30	29	-4.2	-0.6	17.2	17.3	Wed	30	29	-4.1	8.5	13.4	13.5	Wed	30	29	-0.6	65.5	Wed
198	2015-11-11	Wed	17.8	26.7	2	Sfr	31	29.7	Fri	15.5	33.3	Fri	29	29	16.7	122.5	14.9	32.7	Fri	29	29	18.2	130.7	10.6	28.4	Fri	29	29	27	-168.1	Fri
199	2015-12-11	Fri	10.5	26.7	3	Rb1	31	29.6	Sun	13.7	24.1	Sat	30	30	32.5	-108.4	13.2	23.7	Sat	30	30	32.8	-101.5	8.4	18.9	Sat	30	30	44.5	-38	Sun
200	2016-01-10	Sun	1.5	26.9	4	Rb2	30	29.5	Mon	13.7	15.2	Mon	30	29	39.9	25.9	13.4	14.9	Mon	30	29	39.1	30.4	9.1	10.6	Mon	29	29	48.5	87.7	Mon
201	2016-02-08	Mon	14.6	27.2	5	Jm1	31	29.5	Wed	14.4	29.0	Wed	29	29	34.8	-171.1	14.3	28.9	Wed	29	29	35.2	-169.8	10.8	25.4	Tue	30	30	42	-120.5	Wed
202	2016-03-09	Wed	1.9	27.5	6	Jm2	30	29.4	Thu	14.2	16.1	Thu	29	29	21.2	30.5	14.1	16.0	Thu	29	29	21.4	31.3	11.1	13.0	Thu	29	29	22.2	77.5	Thu
203	2016-04-07	Thu	11.4	27.6	7	Rjb	30	29.3	Fri	13.0	24.4	Fri	30	29	2.7	-93.8	12.9	24.3	Fri	30	29	1.5	-92.9	9.7	21.1	Fri	29	29	-2.5	-45.6	Sat
204	2016-05-06	Fri	19.5	27.8	8	Shn	31	29.3	Sun	11.6	31.1	Sun	29	29	-15.5	158.3	11.6	31.0	Sun	29	29	-14.7	159.8	7.8	27.3	Sat	30	30	-26.6	-147.8	Sun
205	2016-06-05	Sun	3.0	28	9	Rmd	30	29.3	Mon	11.5	14.5	Mon	29	29	-28.9	39.9	11.4	14.3	Mon	29	29	-28.4	42.5	7.4	10.4	Mon	29	29	-30	101.5	Mon
206	2016-07-04	Mon	11.0	28.1	10	Shl	30	29.4	Tue	13.2	24.2	Tue	30	29	-35	-108.4	13.0	24.0	Tue	30	29	-32.2	-103	8.9	19.9	Tue	30	29	-42.1	-47.8	Wed
207	2016-08-02	Tue	20.7	28	11	Qdh	31	29.5	Thu	15.7	36.5	Thu	29	29	-28.2	76	15.4	36.1	Thu	29	29	-28.8	80.9	11.7	32.4	Thu	29	29	-35.4	133.8	Thu
208	2016-09-01	Thu	9.1	27.6	12	Hjh	31	29.6	Sat	17.3	26.4	Fri	30	30	-17.4	-127.4	16.9	25.9	Fri	30	30	-18.2	-120.5	13.3	22.3	Fri	30	30	-18	-66.8	Sat
209	2016-10-01	Sat	0.2	27.1	1	Mhr	30	29.7	Sun	17.1	17.3	Sun	30	29	-2.2	8.6	16.5	16.7	Sun	30	29	-1.2	17.5	12.7	12.9	Sun	30	29	4.9	75	Sun
210	2016-10-30	Sun	17.6	26.8	2	Sfr	31	29.8	Tue	15.7	33.3	Tue	30	29	15.5	122.7	15.0	32.6	Tue	29	29	15.6	133.8	10.4	28.0	Tue	29	29	27.6	-160.5	Tue
211	2016-11-29	Tue	12.3	26.6	3	Rb1	31	29.8	Thu	15.0	27.3	Thu	29	29	28.4	-153.6	14.2	26.5	Wed	30	30	28.2	-142.1	9	21.3	Wed	30	30	40.4	-71.3	Thu
212	2016-12-29	Thu	6.9	26.8	4	Rb2	31	29.7	Sat	15.9	22.8	Fri	30	30	30	-84.3	15.3	22.2	Fri	30	30	30	-75.5	10.8	17.7	Fri	30	30	41.4	-15.9	Fri
213	2017-01-28	Sat	0.1	27.1	5	Jm1	30	29.6	Sun	16.5	16.6	Sun	30	29	26.7	15.3	16.2	16.3	Sun	30	29	26.6	20.6	12.5	12.6	Sun	29	29	31.5	73.4	Sun
214	2017-02-26	Sun	15.0	27.4	6	Jm2	31	29.5	Tue	15.6	30.5	Tue	29	29	16.9	173.7	15.3	30.3	Tue	29	29	15	177.7	12	27.0	Mon	30	30	14.2	-132.5	Tue
215	2017-03-28	Tue	2.9	27.6	7	Rjb	30	29.4	Wed	13.4	16.4	Wed	29	29	-0.9	26.6	13.3	16.2	Wed	29	29	1.1	28.8	9.8	12.8	Wed	29	29	-5.1	80	Wed
216	2017-04-26	Wed	12.3	27.7	8	Shn	30	29.3	Thu	11.6	23.8	Thu	30	29	-15	-90.7	11.4	23.7	Thu	30	29	-15.2	-89	7.5	19.8	Thu	29	29	-25.5	-33	Fri
217	2017-05-25	Thu	19.7	27.9	9	Rmd	31	29.3	Sat	11.3	31.0	Sat	29	29	-24.8	155	11.2	30.9	Sat	29	29	-22.1	157	7	26.8	Fri	30	30	-35.8	-147.5	Sat
218	2017-06-24	Sat	2.5	28.1	10	Shl	30	29.3	Sun	12.6	15.1	Sun	29	29	-26.2	32.1	12.6	15.1	Sun	29	29	-24.5	33.9	8.9	11.4	Sun	29	29	-33.7	84	Sun
219	2017-07-23	Sun	9.8	28.1	11	Qdh	30	29.4	Mon	14.3	24.1	Mon	30	29	-22.3	-97.1	14.2	24.0	Mon	30	29	-18.9	-94.3	10.9	20.7	Mon	30	29	-25.8	-47.7	Tue
220	2017-08-21	Mon	18.5	27.8	12	Hjh	31	29.5	Wed	15.2	33.7	Wed	29	29	-10.2	124.5	15.0	33.4	Wed	29	29	-9.2	127.9	11.7	30.2	Wed	29	29	-8.7	177	Wed
221	2017-09-20	Wed	5.5	27.3	1	Mhr	30	29.6	Thu	14.9	20.4	Thu	30	29	1	-36.5	14.5	20.0	Thu	30	29	3.9	-31	10.8	16.3	Thu	30	29	9.6	24.5	Thu
222	2017-10-19	Thu	19.2	26.9	2	Sfr	31	29.7	Sat	14.3	33.5	Sat	29	29	16.3	121.5	13.7	32.9	Sat	29	29	16.8	130.4	9.2	28.3	Sat	29	29	26.8	-163.4	Sat
223	2017-11-18	Sat	11.7	26.6	3	Rb1	31	29.8	Mon	14.9	26.6	Sun	30	30	22.5	-140.4	14.2	25.9	Sun	30	30	23.6	-129.8	9.1	20.8	Sun	30	30	36.6	-59.8	Mon
224	2017-12-18	Mon	6.5	26.7	4	Rb2	31	29.8	Wed	17.1	23.6	Tue	30	30	22.4	-94	16.4	22.9	Tue	30	30	22.2	-83.6	11.9	18.4	Tue	30	30	31.2	-21.2	Tue
225	2018-01-17	Wed	2.3	27	5	Jm1	30	29.8	Thu	18.4	20.7	Thu	30	29	17.9	-43.6	17.8	20.1	Thu	30	29	18.6	-35.5	14	16.3	Thu	30	29	21.2	21.1	Thu
226	2018-02-15	Thu	21.1	27.3	6	Jm2	31	29.7	Sat	17.3	38.4	Sat	30	29	8.6	57	16.8	37.9	Sat	29	29	8.5	64.3	13.1	34.2	Sat	29	29	6.6	119.5	Sat
227	2018-03-17	Sat	13.2	27.5	7	Rjb	31	29.5	Mon	14.7	27.9	Mon	29	29	-2.8	-146.1	14.3	27.5	Sun	30	30	-4.8	-139.6	10.4	23.6	Sun	30	30	-14	-80.8	Mon
228	2018-04-16	Mon	1.9	27.7	8	Shn	30	29.4	Tue	12.7	14.6	Tue	29	29	-14.1	48.8	12.3	14.3	Tue	29	29	-15.4	53.6	8	9.9	Tue	29	29	-26.4	116.6	Tue

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
229	2018-05-15	Tue	11.8	27.9	9	Rmd	30	29.3	Wed	12.4	24.2	Wed	30	29	-18.9	-99.2	12.2	24.0	Wed	30	29	-18.9	-96.2	8	19.8	Wed	30	29	-30.5	-38.2	Thu
230	2018-06-13	Wed	19.7	28.1	10	Shl	31	29.3	Fri	13.3	33.0	Fri	29	29	-17.1	128.6	13.2	32.9	Fri	29	29	-16.7	129.9	9.7	29.4	Fri	29	29	-24.8	178.7	Fri
231	2018-07-13	Fri	2.8	28.1	11	Qdh	30	29.3	Sat	13.9	16.7	Sat	29	29	-12.5	16.6	13.9	16.7	Sat	29	29	-11.7	17.3	10.8	13.6	Sat	29	29	-14.9	62.5	Sat
232	2018-08-11	Sat	10.0	27.9	12	Hjh	30	29.3	Sun	13.6	23.6	Sun	30	29	-5.2	-83.2	13.6	23.5	Sun	30	29	-3.2	-81.9	10.5	20.4	Sun	29	29	-5	-35.9	Mon
233	2018-09-09	Sun	18.0	27.5	1	Mhr	31	29.4	Tue	12.8	30.8	Tue	29	29	7.4	169.1	12.6	30.6	Tue	29	29	6.7	171.6	9.1	27.1	Mon	30	30	14.2	-134.9	Tue
234	2018-10-09	Tue	3.8	27	2	Sfr	30	29.5	Wed	12.3	16.1	Wed	30	29	16	24.3	12.0	15.8	Wed	30	29	15.5	29.2	7.7	11.5	Wed	29	29	26	92.4	Wed
235	2018-11-07	Wed	16.0	26.7	3	Rb1	31	29.6	Fri	13.7	29.7	Fri	29	29	18.8	175.1	13.2	29.3	Fri	29	29	19	-177.9	8.7	24.7	Thu	30	30	30.8	-113.8	Fri
236	2018-12-07	Fri	7.3	26.6	4	Rb2	31	29.8	Sun	16.5	23.9	Sat	30	30	15.8	-95.7	16.0	23.4	Sat	30	30	17.6	-89	11.9	19.2	Sat	30	30	24	-30.3	Sat
237	2019-01-06	Sun	1.5	26.9	5	Jm1	30	29.8	Mon	18.5	19.9	Mon	30	29	10.9	-31	17.9	19.4	Mon	30	29	10	-22.2	14.1	15.6	Mon	30	29	11.4	34.1	Mon
238	2019-02-04	Mon	21.1	27.2	6	Jm2	31	29.8	Wed	17.9	39.0	Wed	30	29	0	49.7	17.3	38.4	Wed	30	29	1.7	58.6	13.4	34.5	Wed	29	29	-1.2	117.6	Wed
239	2019-03-06	Wed	16.1	27.4	7	Rjb	31	29.7	Fri	15.8	31.8	Fri	29	29	-6.6	156.7	15.1	31.2	Fri	29	29	-8.2	167.1	10.7	26.8	Thu	30	30	-15.1	-126.2	Fri
240	2019-04-05	Fri	8.8	27.6	8	Shn	30	29.6	Sat	14.3	23.1	Sat	30	29	-11.8	-76.3	13.6	22.4	Sat	30	29	-14.8	-66.5	8.7	17.5	Sat	30	29	-27.1	5.5	Sun
241	2019-05-04	Sat	22.8	27.8	9	Rmd	31	29.5	Mon	14.4	37.2	Mon	29	29	-12.9	68.8	14.0	36.7	Mon	29	29	-12.6	75.7	9.6	32.3	Mon	29	29	-22.9	138.2	Mon
242	2019-06-03	Mon	10.0	28	10	Shl	30	29.4	Tue	15.0	25.1	Tue	30	29	-9	-109.2	14.8	24.8	Tue	30	29	-8	-105.2	11.2	21.2	Tue	30	29	-13.7	-53.8	Wed
243	2019-07-02	Tue	19.3	28.1	11	Qdh	31	29.3	Thu	14.8	34.0	Thu	29	29	-3.9	120.1	14.7	33.9	Thu	29	29	-1.5	122.6	11.5	30.7	Thu	29	29	-5.8	168.5	Thu
244	2019-08-01	Thu	3.2	28	12	Hjh	30	29.3	Fri	13.4	16.6	Fri	29	29	1.4	23.7	13.4	16.6	Fri	29	29	4.5	25.5	10.2	13.4	Fri	29	29	6.4	73.7	Fri
245	2019-08-30	Fri	10.6	27.7	1	Mhr	30	29.3	Sat	11.8	22.4	Sat	30	29	10.5	-63.7	11.7	22.3	Sat	30	29	11.2	-62.5	8.2	18.8	Sat	29	29	19.3	-7.4	Sun
246	2019-09-28	Sat	18.4	27.2	2	Sfr	31	29.4	Mon	11.2	29.6	Mon	29	29	15.4	-176.2	11.0	29.5	Mon	29	29	15.9	-174.3	6.9	25.3	Sun	30	30	29.7	-112.9	Mon
247	2019-10-28	Mon	3.6	26.8	3	Rb1	30	29.5	Tue	12.5	16.1	Tue	30	29	12.9	21.6	12.3	16.0	Tue	30	29	13.9	24.1	8.3	11.9	Tue	29	29	23.8	82.1	Tue
248	2019-11-26	Tue	15.1	26.6	4	Rb2	31	29.6	Thu	15.0	30.1	Thu	29	29	7.4	173.7	14.7	29.8	Thu	29	29	7.3	177.5	11.2	26.3	Wed	30	30	14.4	-131.7	Thu
249	2019-12-26	Thu	5.2	26.8	5	Jm1	30	29.7	Fri	16.7	21.9	Fri	30	29	1.8	-58	16.3	21.5	Fri	30	29	1.5	-52.8	12.9	18.1	Fri	30	29	2.4	-1	Fri
250	2020-01-24	Fri	21.7	27.1	6	Jm2	31	29.7	Sun	16.6	38.3	Sun	30	29	-2.8	60.8	16.1	37.8	Sun	30	29	-6.3	69.8	12.3	33.9	Sun	29	29	-8.7	127.7	Sun
251	2020-02-23	Sun	15.5	27.4	7	Rjb	31	29.7	Tue	15.4	30.9	Tue	29	29	-8.4	172	14.7	30.2	Tue	29	29	-11.7	-176.5	10.1	25.6	Mon	30	30	-21.7	-105.6	Tue
252	2020-03-24	Tue	9.5	27.5	8	Shn	31	29.7	Thu	15.0	24.5	Wed	30	30	-12.4	-95.6	14.2	23.7	Wed	30	30	-12.5	-83.3	9	18.5	Wed	30	30	-26	-5.9	Thu
253	2020-04-23	Thu	2.4	27.7	9	Rmd	30	29.6	Fri	16.3	18.8	Fri	30	29	-6.2	-12.4	15.6	18.1	Fri	30	29	-7.2	-2.1	11.1	13.5	Fri	30	29	-17.5	63.8	Fri
254	2020-05-22	Fri	17.6	27.9	10	Shl	31	29.5	Sun	17.3	34.9	Sun	29	29	0.9	106.4	16.8	34.4	Sun	29	29	0	113.5	13	30.7	Sun	29	29	-5.4	168.2	Sun
255	2020-06-21	Sun	6.7	28.1	11	Qdh	30	29.5	Mon	16.5	23.2	Mon	30	29	4	-74.5	16.2	22.9	Mon	30	29	6.7	-68.5	12.7	19.4	Mon	30	29	5	-17.7	Mon
256	2020-07-20	Mon	17.5	28.1	12	Hjh	31	29.4	Wed	14.4	31.9	Wed	29	29	9.8	157.2	14.2	31.7	Wed	29	29	10.6	161.1	10.7	28.2	Wed	29	29	14.7	-144.8	Wed
257	2020-08-19	Wed	2.7	27.8	1	Mhr	30	29.3	Thu	12.2	14.9	Thu	29	29	13.7	51.4	12.0	14.7	Thu	29	29	14.8	54.4	8.1	10.8	Thu	29	29	24.3	115.3	Thu
258	2020-09-17	Thu	11.0	27.4	2	Sfr	30	29.4	Fri	11.4	22.4	Fri	30	29	15.3	-65.8	11.2	22.2	Fri	30	29	14.4	-63.6	7.1	18.0	Fri	30	29	27.9	-0.3	Sat
259	2020-10-16	Fri	19.5	26.9	3	Rb1	31	29.4	Sun	12.4	31.9	Sun	29	29	8	147.5	12.3	31.8	Sun	29	29	8.4	148.7	8.6	28.1	Sun	29	29	18	-157	Sun
260	2020-11-15	Sun	5.1	26.6	4	Rb2	30	29.5	Mon	14.0	19.1	Mon	30	29	-0.4	-19.1	13.9	19.0	Mon	30	29	0.3	-18.5	10.7	15.8	Mon	30	29	3.5	29.1	Mon
261	2020-12-14	Mon	16.3	26.7	5	Jm1	31	29.5	Wed	14.7	30.9	Wed	29	29	-6.1	168.6	14.5	30.8	Wed	29	29	-7.8	171.1	11.4	27.6	Wed	29	29	-8.1	-141.1	Wed
262	2021-01-13	Wed	5.0	27	6	Jm2	30	29.6	Thu	14.2	19.2	Thu	30	29	-10.6	-10.3	13.9	18.9	Thu	30	29	-12.5	-5.6	10.3	15.3	Thu	30	29	-17.4	50.4	Thu
263	2021-02-11	Thu	19.1	27.3	7	Rjb	31	29.6	Sat	13.6	32.7	Sat	29	29	-12.7	147.6	13.1	32.2	Sat	29	29	-13.7	154.9	8.7	27.7	Sat	29	29	-25.5	-135	Sat
264	2021-03-13	Sat	10.3	27.5	8	Shn	31	29.7	Mon	14.4	24.8	Sun	30	30	-9.6	-98.1	13.7	24.1	Sun	30	30	-12.4	-87.7	8.9	19.2	Sun	30	30	-24.6	-13.5	Mon
265	2021-04-12	Mon	2.5	27.6	9	Rmd	30	29.7	Tue	16.8	19.3	Tue	30	29	-0.9	-19.2	16.1	18.7	Tue	30	29	-1	-8.9	11.7	14.3	Tue	30	29	-10.6	55.6	Tue
266	2021-05-11	Tue	19.0	27.8	10	Shl	31	29.7	Thu	18.5	37.5	Thu	30	29	7.7	69.7	17.9	36.9	Thu	30	29	10	79.5	14.1	33.0	Thu	29	29	4.3	135.8	Thu

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
267	2021-06-10	Thu	10.9	28	11	Qdh	31	29.6	Sat	18.0	28.9	Sat	29	29	10	-157.9	17.4	28.3	Sat	29	29	14.9	-147.3	13.7	24.6	Fri	30	30	16.5	-90.5	Sat
268	2021-07-10	Sat	1.3	28.1	12	Hjh	30	29.5	Sun	15.7	17.0	Sun	29	29	15	23.3	15.3	16.5	Sun	29	29	18.8	32.4	11.3	12.5	Sun	29	29	23.2	94.5	Sun
269	2021-08-08	Sun	13.8	27.9	1	Mhr	31	29.5	Tue	13.5	27.3	Mon	30	30	16	-133.2	13.1	26.9	Mon	30	30	19	-125.5	8.6	22.4	Mon	30	30	28.4	-55.4	Tue
270	2021-09-07	Tue	0.9	27.5	2	Sfr	30	29.4	Wed	12.8	13.7	Wed	29	29	14.4	67	12.5	13.3	Wed	29	29	15.1	72.2	8	8.9	Wed	29	29	25.8	140	Wed
271	2021-10-06	Wed	11.1	27.1	3	Rb1	30	29.4	Thu	13.5	24.6	Thu	30	29	3.4	-101.7	13.4	24.4	Thu	30	29	4.1	-99.2	9.7	20.7	Thu	30	29	12.3	-44.6	Fri
272	2021-11-04	Thu	21.2	26.7	4	Rb2	31	29.4	Sat	14.2	35.4	Sat	29	29	-8.6	97.9	14.1	35.4	Sat	29	29	-8.7	98.7	11	32.2	Sat	29	29	-3.2	144.2	Sat
273	2021-12-04	Sat	7.7	26.6	5	Jm1	30	29.5	Sun	13.7	21.4	Sun	30	29	-15.1	-46.5	13.7	21.4	Sun	30	29	-16.2	-45.8	10.6	18.3	Sun	30	29	-16.5	0.6	Mon
274	2022-01-02	Sun	18.6	26.8	6	Jm2	31	29.5	Tue	12.4	31.0	Tue	29	29	-17.6	175.1	12.4	30.9	Tue	29	29	-18.2	176.1	8.9	27.4	Tue	29	29	-25.4	-127.6	Tue
275	2022-02-01	Tue	5.8	27.2	7	Rjb	30	29.5	Wed	11.7	17.5	Wed	30	29	-17	17.3	11.5	17.3	Wed	30	29	-19.2	21.2	7.3	13.1	Wed	29	29	-29.2	88.1	Wed
276	2022-03-02	Wed	17.6	27.4	8	Shn	31	29.5	Fri	13.1	30.6	Fri	29	29	-7.8	175.3	12.7	30.3	Fri	29	29	-10.8	-178.7	8.3	25.9	Thu	30	30	-20.5	-112.3	Fri
277	2022-04-01	Fri	6.4	27.6	9	Rmd	30	29.6	Sat	15.8	22.2	Sat	30	29	4.6	-60.5	15.3	21.7	Sat	30	29	4.8	-53.9	11.4	17.8	Sat	30	29	-2.4	4.2	Sat
278	2022-04-30	Sat	20.5	27.8	10	Shl	31	29.6	Mon	17.8	38.2	Mon	30	29	15	60.9	17.3	37.7	Mon	30	29	15.8	68.7	13.6	34.1	Mon	29	29	13	122.9	Mon
279	2022-05-30	Mon	11.5	28	11	Qdh	31	29.6	Wed	17.7	29.2	Wed	29	29	21.6	-159.1	17.2	28.7	Wed	29	29	23.2	-149.9	13.4	24.9	Tue	30	30	26.2	-91	Wed
280	2022-06-29	Wed	2.9	28.1	12	Hjh	30	29.6	Thu	16.1	19.0	Thu	30	29	23.5	-2.5	15.5	18.3	Thu	30	29	25.4	8.6	11.1	14.0	Thu	29	29	31.7	77.9	Thu
281	2022-07-28	Thu	17.9	28	1	Mhr	31	29.6	Sat	14.7	32.6	Sat	29	29	21.6	151.3	14.0	31.9	Sat	29	29	24.3	163.3	8.9	26.9	Fri	30	30	33.9	-116.9	Sat
282	2022-08-27	Sat	8.3	27.7	2	Sfr	30	29.6	Sun	14.8	23.1	Sun	30	29	12.6	-72.4	14.1	22.4	Sun	30	29	13.8	-62.7	9.4	17.7	Sun	30	29	23.4	10.2	Sun
283	2022-09-25	Sun	21.9	27.2	3	Rb1	31	29.5	Tue	15.6	37.5	Tue	29	29	-1.7	65.6	15.2	37.1	Tue	29	29	-2.8	71.8	11.4	33.3	Tue	29	29	4.3	129.3	Tue
284	2022-10-25	Tue	10.8	26.8	4	Rb2	30	29.5	Wed	15.6	26.4	Wed	30	29	-15.4	-125.6	15.4	26.2	Wed	30	29	-16.3	-122.2	12.1	22.9	Wed	30	29	-14.5	-73	Thu
285	2022-11-23	Wed	22.9	26.6	5	Jm1	31	29.5	Fri	14.1	37.1	Fri	29	29	-23	80.7	14.1	37.0	Fri	29	29	-25.4	83.1	10.8	33.7	Fri	29	29	-28	133.1	Fri
286	2022-12-23	Fri	10.3	26.7	6	Jm2	30	29.4	Sat	12.1	22.4	Sat	30	29	-24.3	-53.2	12.0	22.3	Sat	30	29	-26.6	-51.3	8.4	18.7	Sat	30	29	-34.3	8.2	Sun
287	2023-01-21	Sat	20.9	27	7	Rjb	31	29.4	Mon	11.1	31.9	Mon	29	29	-19.7	162.2	11.0	31.9	Mon	29	29	-21.6	164.2	6.8	27.7	Mon	29	29	-32.1	-128.7	Mon
288	2023-02-20	Mon	7.1	27.3	8	Shn	30	29.4	Tue	12.2	19.2	Tue	30	29	-8.1	-12.9	12.0	19.1	Tue	30	29	-9.1	-10.8	8.1	15.2	Tue	30	29	-19.1	50	Tue
289	2023-03-21	Tue	17.4	27.5	9	Rmd	31	29.5	Thu	14.4	31.7	Thu	29	29	11.5	156.8	14.2	31.5	Thu	29	29	8.5	159.7	10.7	28.1	Thu	29	29	5.6	-149.1	Thu
290	2023-04-20	Thu	4.2	27.7	10	Shl	30	29.5	Fri	15.8	20.0	Fri	30	29	24.5	-23.5	15.5	19.7	Fri	30	29	24	-19.9	12.2	16.4	Fri	29	29	23.1	30	Fri
291	2023-05-19	Fri	15.9	27.9	11	Qdh	31	29.5	Sun	15.8	31.6	Sun	29	29	30	167.6	15.4	31.3	Sun	29	29	30.5	173.4	11.7	27.6	Sat	30	30	36.2	-128.5	Sun
292	2023-06-18	Sun	4.6	28.1	12	Hjh	30	29.6	Mon	14.9	19.5	Mon	30	29	28.7	-7.2	14.3	18.9	Mon	30	29	31.5	2.7	9.9	14.5	Mon	29	29	38.6	74.1	Mon
293	2023-07-17	Mon	18.5	28.1	1	Mhr	31	29.6	Wed	14.6	33.1	Wed	29	29	23.7	145.1	13.9	32.4	Wed	29	29	27.6	158.2	8.7	27.3	Tue	30	30	36.9	-119.3	Wed
294	2023-08-16	Wed	9.6	27.8	2	Sfr	31	29.7	Fri	16.0	25.6	Thu	30	30	11.1	-110.1	15.3	24.9	Thu	30	30	13.6	-97.9	10.5	20.1	Thu	30	30	18	-25.2	Fri
295	2023-09-15	Fri	1.7	27.4	3	Rb1	30	29.7	Sat	17.7	19.3	Sat	30	29	-7.8	-20.4	17.0	18.7	Sat	30	29	-7	-11.1	13	14.7	Sat	30	29	-1.5	49.2	Sat
296	2023-10-14	Sat	17.9	27	4	Rb2	31	29.6	Mon	17.5	35.4	Mon	29	29	-23.6	99.7	17.1	35.0	Mon	29	29	-23.4	106.2	13.5	31.4	Mon	29	29	-22.2	159.8	Mon
297	2023-11-13	Mon	9.5	26.7	5	Jm1	30	29.6	Tue	15.5	24.9	Tue	30	29	-32.5	-94.7	15.2	24.6	Tue	30	29	-33.1	-90	11.5	21.0	Tue	30	29	-37.5	-33	Wed
298	2023-12-12	Tue	23.5	26.7	6	Jm2	31	29.5	Thu	13.0	36.5	Thu	29	29	-31.9	97.9	12.8	36.3	Thu	29	29	-32	100.8	8.7	32.2	Thu	29	29	-40	167.8	Thu
299	2024-01-11	Thu	12.0	26.9	7	Rjb	30	29.5	Fri	11.8	23.7	Fri	30	29	-22.2	-73.5	11.6	23.6	Fri	30	29	-24.9	-69.7	7.3	19.3	Fri	30	29	-34.8	0.5	Sat
300	2024-02-09	Fri	23.0	27.2	8	Shn	31	29.4	Sun	12.5	35.5	Sun	29	29	-6.8	103.7	12.4	35.4	Sun	29	29	-7.2	105.1	8.7	31.7	Sun	29	29	-17.5	164	Sun
301	2024-03-10	Sun	9.0	27.5	9	Rmd	30	29.4	Mon	13.7	22.7	Mon	30	29	14.7	-68.8	13.7	22.7	Mon	30	29	15.2	-68.2	10.5	19.5	Mon	30	29	10.5	-20.2	Tue
302	2024-04-08	Mon	18.3	27.6	10	Shl	31	29.4	Wed	14.1	32.4	Wed	29	29	31.2	150.1	14.0	32.4	Wed	29	29	31.3	150.7	10.9	29.3	Wed	29	29	33.1	-162.3	Wed
303	2024-05-08	Wed	3.4	27.8	11	Qdh	30	29.4	Thu	13.4	16.8	Thu	29	29	39.3	33	13.3	16.7	Thu	29	29	38.9	34.5	9.8	13.2	Thu	29	29	44.6	90.8	Thu
304	2024-06-06	Thu	12.6	28	12	Hjh	30	29.4	Fri	12.8	25.4	Fri	30	29	35.9	-92.4	12.5	25.1	Fri	30	29	37.9	-87	8.2	20.8	Fri	30	29	45.8	-15.9	Sat

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
305	2024-07-05	Fri	23.0	28.1	1	Mhr	31	29.5	Sun	13.4	36.4	Sun	29	29	27.1	99.2	12.9	35.8	Sun	29	29	28.7	107.7	8.1	31.1	Sun	29	29	39	-173.9	Sun
306	2024-08-04	Sun	11.2	28	2	Sfr	31	29.6	Tue	15.7	26.9	Mon	30	30	9.5	-128.1	14.8	26.0	Mon	30	30	14	-117.8	10.7	21.9	Mon	30	30	20.9	-48.9	Tue
307	2024-09-03	Tue	1.9	27.6	3	Rb1	30	29.7	Wed	18.1	20.0	Wed	30	29	-12.7	-30.6	17.4	19.4	Wed	30	29	-10.3	-21	13.5	15.4	Wed	30	29	-7.4	38.2	Wed
308	2024-10-02	Wed	18.8	27.1	4	Rb2	31	29.7	Fri	18.5	37.3	Fri	30	29	-30	71.1	17.9	36.7	Fri	30	29	-30	79.5	14.1	33.0	Fri	29	29	-29.9	136.4	Fri
309	2024-11-01	Fri	12.8	26.7	5	Jm1	31	29.7	Sun	16.7	29.5	Sun	29	29	-39.6	-162.3	16.2	29.0	Sun	29	29	-39.5	-154.6	12.1	24.9	Sat	30	30	-44.3	-90.6	Sun
310	2024-12-01	Sun	6.4	26.6	6	Jm2	30	29.7	Mon	14.4	20.7	Mon	30	29	-36.6	-24.7	13.9	20.2	Mon	30	29	-38.1	-16.4	9.2	15.5	Mon	30	29	-47.5	62.4	Mon
311	2024-12-30	Mon	22.4	26.8	7	Rjb	31	29.6	Wed	13.5	36.0	Wed	29	29	-23.5	102.9	13.1	35.6	Wed	29	29	-26.8	111	8.4	30.9	Wed	29	29	-38.4	-171.4	Wed
312	2025-01-29	Wed	12.6	27.1	8	Shn	31	29.5	Fri	14.2	26.7	Thu	30	30	-5.2	-125.3	13.9	26.5	Thu	30	30	-5.6	-121.7	10.1	22.7	Thu	30	30	-14.3	-61.8	Fri
313	2025-02-28	Fri	0.7	27.4	9	Rmd	30	29.4	Sat	14.5	15.2	Sat	29	29	18.7	42.9	14.4	15.1	Sat	29	29	16.5	44.7	11.2	12.0	Sat	29	29	16.8	92.4	Sat
314	2025-03-29	Sat	11.0	27.6	10	Shl	30	29.4	Sun	13.7	24.6	Sun	30	29	38.8	-94	13.7	24.6	Sun	30	29	38.8	-94	10.5	21.5	Sun	30	29	39.1	-46.9	Mon
315	2025-04-27	Sun	19.5	27.7	11	Qdh	31	29.3	Tue	12.1	31.6	Tue	29	29	44.8	170.6	12.2	31.7	Tue	29	29	48.1	171.5	8.6	28.1	Tue	29	29	54.2	-130.7	Tue
316	2025-05-27	Tue	3.0	28	12	Hjh	30	29.3	Wed	11.3	14.3	Wed	29	29	43.5	78.2	11.2	14.2	Wed	29	29	43.3	78.6	7	10.0	Wed	29	29	54.1	153.3	Wed
317	2025-06-25	Wed	10.5	28.1	1	Mhr	30	29.4	Thu	12.1	22.6	Thu	30	29	27.9	-54.2	11.9	22.4	Thu	30	29	30.6	-49.8	7.6	18.1	Thu	30	29	41.4	22.6	Fri
318	2025-07-24	Thu	19.2	28.1	2	Sfr	31	29.5	Sat	14.4	33.6	Sat	29	29	9.5	131.7	14.1	33.3	Sat	29	29	10.3	136.9	10.3	29.4	Sat	29	29	18.4	-162.3	Sat
319	2025-08-23	Sat	6.1	27.8	3	Rb1	30	29.6	Sun	16.6	22.7	Sun	30	29	-14.9	-72.7	16.2	22.3	Sun	30	29	-13.2	-66.4	12.7	18.8	Sun	30	29	-10.8	-12.3	Sun
320	2025-09-21	Sun	19.9	27.3	4	Rb2	31	29.7	Tue	17.4	37.3	Tue	30	29	-35	70.1	16.9	36.8	Tue	30	29	-34.1	77.2	13.2	33.1	Tue	29	29	-37.6	132.9	Tue
321	2025-10-21	Tue	12.4	26.9	5	Jm1	31	29.8	Thu	16.3	28.8	Thu	29	29	-46.6	-151.9	15.8	28.2	Thu	29	29	-45.8	-144.3	11.5	23.9	Wed	30	30	-52.9	-75.7	Thu
322	2025-11-20	Thu	6.8	26.6	6	Jm2	31	29.8	Sat	15.0	21.8	Fri	30	30	-42.2	-40.3	14.4	21.1	Fri	30	30	-44.9	-28.2	9.2	15.9	Fri	30	30	-54.6	59.8	Fri
323	2025-12-20	Sat	1.7	26.7	7	Rjb	30	29.8	Sun	15.3	17.1	Sun	30	29	-26.8	27.4	14.7	16.4	Sun	30	29	-30.3	39.6	9.7	11.4	Sun	30	29	-39.8	121.2	Sun
324	2026-01-18	Sun	19.9	27	8	Shn	31	29.7	Tue	16.5	36.3	Tue	30	29	-3.8	90.1	16.0	35.9	Tue	30	29	-10	99.5	12	31.8	Tue	29	29	-10.4	159.8	Tue
325	2026-02-17	Tue	12.0	27.3	9	Rmd	31	29.6	Thu	16.3	28.3	Thu	29	29	22.1	-155.2	16.0	28.0	Thu	29	29	21.6	-150.8	12.6	24.6	Wed	30	30	21.1	-99.4	Thu
326	2026-03-19	Thu	1.4	27.5	10	Shl	30	29.4	Fri	14.5	15.9	Fri	29	29	42.5	34	14.4	15.8	Fri	29	29	42.2	35.8	11	12.4	Fri	29	29	45.8	86.7	Fri
327	2026-04-17	Fri	11.9	27.7	11	Qdh	30	29.3	Sat	12.3	24.1	Sat	30	29	52.8	-75.9	12.3	24.1	Sat	30	29	53.5	-75.9	8.4	20.3	Sat	29	29	60	-13.3	Sun
328	2026-05-16	Sat	20.0	27.9	12	Hjh	31	29.3	Mon	11.1	31.1	Mon	29	29	46.9	-173.3	11.1	31.1	Mon	29	29	48.9	-172.2	6.7	26.7	Sun	30	30	59.3	-93.5	Mon
329	2026-06-15	Mon	2.9	28.1	1	Mhr	30	29.3	Tue	11.8	14.7	Tue	29	29	31.6	66.6	11.7	14.6	Tue	29	29	32.1	67.6	7.7	10.6	Tue	29	29	40	133.2	Tue
330	2026-07-14	Tue	9.7	28.1	2	Sfr	30	29.3	Wed	13.5	23.2	Wed	30	29	7.2	-73.1	13.4	23.1	Wed	30	29	9.4	-70.9	10	19.7	Wed	30	29	13.8	-17.5	Thu
331	2026-08-12	Wed	17.6	27.9	3	Rb1	31	29.4	Fri	14.8	32.4	Fri	29	29	-16.9	141	14.7	32.3	Fri	29	29	-14.7	143.7	11.5	29.1	Fri	29	29	-14.2	-167.8	Fri
332	2026-09-11	Fri	3.4	27.5	4	Rb2	30	29.5	Sat	15.0	18.5	Sat	30	29	-38.5	-10.5	14.8	18.3	Sat	30	29	-37.1	-7.1	11.3	14.8	Sat	29	29	-41.8	44.6	Sat
333	2026-10-10	Sat	15.8	27	5	Jm1	31	29.6	Mon	14.4	30.2	Mon	29	29	-51.9	-175.6	14.1	29.9	Mon	29	29	-50.7	-171.4	9.8	25.6	Sun	30	30	-58.8	-104.3	Mon
334	2026-11-09	Mon	7.0	26.7	6	Jm2	31	29.7	Wed	14.2	21.2	Tue	30	30	-48.1	-31	13.7	20.7	Tue	30	30	-48.9	-22.5	8.5	15.5	Tue	30	30	-59.5	66.9	Tue
335	2026-12-09	Wed	0.9	26.6	7	Rjb	30	29.8	Thu	15.9	16.8	Thu	30	29	-30	31.9	15.2	16.1	Thu	30	29	-32.5	43.9	10.3	11.1	Thu	30	29	-41.3	124.1	Thu
336	2027-01-07	Thu	20.4	26.9	8	Shn	31	29.8	Sat	18.1	38.5	Sat	30	29	-4.2	57.4	17.4	37.8	Sat	30	29	-5.2	67.3	13.3	33.7	Sat	30	29	-10	131	Sat
337	2027-02-06	Sat	15.9	27.2	9	Rmd	31	29.7	Mon	18.2	34.1	Mon	29	29	23	116.5	17.6	33.6	Mon	29	29	22.4	124.4	13.9	29.9	Mon	29	29	22.5	179.9	Mon
338	2027-03-08	Mon	9.5	27.5	10	Shl	30	29.6	Tue	16.1	25.5	Tue	30	29	47.5	-114.2	15.7	25.2	Tue	30	29	46.6	-108.5	11.9	21.3	Tue	30	29	53	-52.3	Wed
339	2027-04-06	Tue	23.8	27.6	11	Qdh	31	29.5	Thu	13.4	37.3	Thu	29	29	57.9	84.3	13.2	37.1	Thu	29	29	56.8	86.9	8.9	32.8	Thu	29	29	60	152.8	Thu
340	2027-05-06	Thu	11.0	27.8	12	Hjh	30	29.4	Fri	12.2	23.1	Fri	30	29	50.3	-55.4	12.1	23.0	Fri	30	29	52.5	-51.9	7.4	18.4	Fri	30	29	60	27	Sat
341	2027-06-04	Fri	19.7	28	1	Mhr	31	29.3	Sun	12.7	32.4	Sun	29	29	31.6	159.6	12.6	32.3	Sun	29	29	32.9	161.7	8.7	28.4	Sun	29	29	42.1	-132.9	Sun
342	2027-07-04	Sun	3.0	28.1	2	Sfr	30	29.3	Mon	13.7	16.7	Mon	29	29	7.7	24.3	13.7	16.7	Mon	29	29	9.9	25.9	10.4	13.4	Mon	29	29	13.3	76.4	Mon

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
343	2027-08-02	Mon	10.1	28	3	Rb1	30	29.3	Tue	13.9	24.0	Tue	30	29	-19	-93.3	13.9	24.0	Tue	30	29	-16.7	-92.3	10.8	20.9	Tue	29	29	-16.8	-46.6	Wed
344	2027-08-31	Tue	17.7	27.6	4	Rb2	31	29.4	Thu	13.1	30.8	Thu	29	29	-44.5	160.9	13.1	30.8	Thu	29	29	-41.6	161.7	9.8	27.5	Wed	30	30	-46.8	-149.9	Thu
345	2027-09-30	Thu	2.6	27.2	5	Jm1	30	29.5	Fri	12.2	14.8	Fri	29	29	-56.8	52	12.2	14.8	Fri	29	29	-54.4	51.7	8.2	10.8	Fri	29	29	-59.4	112.6	Fri
346	2027-10-29	Fri	13.6	26.8	6	Jm2	31	29.6	Sun	12.5	26.1	Sat	30	30	-52.9	-105.7	12.3	25.9	Sat	30	30	-51.7	-103.6	7.6	21.2	Sat	30	30	-60	-25	Sun
347	2027-11-28	Sun	3.4	26.6	7	Rjb	30	29.7	Mon	15.0	18.4	Mon	30	29	-32.1	6.9	14.5	17.9	Mon	30	29	-34.1	14.7	10.1	13.5	Mon	30	29	-42.8	87.1	Mon
348	2027-12-27	Mon	20.2	26.8	8	Shn	31	29.8	Wed	17.7	37.9	Wed	30	29	-5.5	64.9	17.2	37.4	Wed	30	29	-6.3	73.3	13.3	33.5	Wed	30	29	-10.5	133.5	Wed
349	2028-01-26	Wed	15.2	27.1	9	Rmd	31	29.8	Fri	18.5	33.7	Fri	30	29	24.8	119.9	17.9	33.1	Fri	29	29	20	130.2	14.1	29.3	Fri	29	29	25.3	-175	Fri
350	2028-02-25	Fri	10.6	27.4	10	Shl	31	29.7	Sun	16.8	27.5	Sun	29	29	48.6	-147.7	16.3	26.9	Sat	30	30	48.7	-139.5	12.1	22.7	Sat	30	30	56.5	-79.5	Sun
351	2028-03-26	Sun	4.5	27.6	11	Qdh	30	29.6	Mon	14.7	19.2	Mon	30	29	60	-9.9	14.2	18.7	Mon	30	29	60	-2.8	9.5	14.0	Mon	30	29	60	67.3	Mon
352	2028-04-24	Mon	19.8	27.7	12	Hjh	31	29.5	Wed	14.1	33.8	Wed	29	29	53.2	142.3	13.6	33.4	Wed	29	29	53.7	148.9	8.6	28.4	Wed	29	29	60	-130.6	Wed
353	2028-05-24	Wed	8.3	27.9	1	Mhr	30	29.4	Thu	14.8	23.0	Thu	30	29	32.1	-61.4	14.5	22.7	Thu	30	29	33.7	-55.9	10.4	18.7	Thu	30	29	39	8	Thu
354	2028-06-22	Thu	18.5	28.1	2	Sfr	31	29.4	Sat	15.1	33.5	Sat	29	29	5.5	130.7	14.9	33.4	Sat	29	29	6.6	133.8	11.6	30.1	Sat	29	29	11.6	-174.1	Sat
355	2028-07-22	Sat	3.0	28.1	3	Rb1	30	29.3	Sun	14.2	17.2	Sun	29	29	-22.5	5.3	14.2	17.2	Sun	29	29	-18.1	7.8	11	14.1	Sun	29	29	-19.8	54.1	Sun
356	2028-08-20	Sun	10.7	27.8	4	Rb2	30	29.3	Mon	12.5	23.3	Mon	30	29	-45	-89.3	12.6	23.3	Mon	30	29	-46	-90	9.2	19.9	Mon	29	29	-50.4	-40.9	Tue
357	2028-09-18	Mon	18.4	27.3	5	Jm1	31	29.4	Wed	11.1	29.5	Wed	29	29	-58.4	-174.1	11.2	29.6	Wed	29	29	-60	-175.8	7.3	25.7	Tue	30	30	-59.8	-118.2	Wed
358	2028-10-18	Wed	2.9	26.9	6	Jm2	30	29.4	Thu	11.5	14.4	Thu	30	29	-49.7	63.4	11.4	14.4	Thu	30	29	-53.9	66.2	7.7	10.6	Thu	29	29	-50	120.2	Thu
359	2028-11-16	Thu	13.3	26.6	7	Rjb	31	29.5	Sat	13.6	26.9	Sat	29	29	-33.6	-123.2	13.5	26.8	Sat	29	29	-33.8	-120.9	9.6	22.9	Fri	30	30	-42.1	-58	Sat
360	2028-12-16	Sat	2.1	26.7	8	Shn	30	29.6	Sun	16.0	18.1	Sun	30	29	-2.1	-0.9	15.7	17.8	Sun	30	29	-7.1	6.2	12.2	14.3	Sun	30	29	-10.6	59.8	Sun
361	2029-01-14	Sun	17.4	27	9	Rmd	31	29.7	Tue	16.8	34.2	Tue	29	29	24.2	110.7	16.4	33.8	Tue	29	29	24.1	116.6	12.8	30.2	Tue	29	29	27	169.1	Tue
362	2029-02-13	Tue	10.5	27.3	10	Shl	31	29.7	Thu	15.9	26.4	Wed	30	30	50	-136.8	15.4	25.9	Wed	30	30	49.2	-129.1	11.1	21.6	Wed	30	30	57.9	-70.6	Thu
363	2029-03-15	Thu	4.3	27.5	11	Qdh	30	29.7	Fri	14.8	19.1	Fri	30	29	60	-15.3	14.2	18.5	Fri	30	29	60	-6.8	9.4	13.7	Fri	30	29	60	64.8	Fri
364	2029-04-13	Fri	21.7	27.7	12	Hjh	31	29.7	Sun	15.4	37.1	Sun	30	29	54.9	89.2	14.8	36.5	Sun	30	29	55.2	98.8	9.7	31.3	Sun	29	29	60	178.7	Sun
365	2029-05-13	Sun	13.7	27.9	1	Mhr	31	29.6	Tue	17.0	30.7	Tue	29	29	31	-178.1	16.4	30.1	Tue	29	29	33.1	-168.9	12.2	25.9	Mon	30	30	40.9	-101.7	Tue
366	2029-06-12	Tue	3.8	28.1	2	Sfr	30	29.5	Wed	17.2	21.0	Wed	30	29	3.9	-42.6	16.8	20.6	Wed	30	29	6.7	-35.4	13.2	17.0	Wed	29	29	6	17.9	Wed
367	2029-07-11	Wed	15.8	28.1	3	Rb1	31	29.4	Fri	15.6	31.5	Fri	29	29	-21.8	151.4	15.3	31.2	Fri	29	29	-20.9	155.8	11.9	27.7	Thu	30	30	-23.8	-154	Fri
368	2029-08-10	Fri	1.9	27.9	4	Rb2	30	29.4	Sat	13.2	15.1	Sat	29	29	-45.5	29.7	13.1	15.0	Sat	29	29	-44.3	32	9.3	11.2	Sat	29	29	-53.5	82.8	Sat
369	2029-09-08	Sat	10.7	27.5	5	Jm1	30	29.4	Sun	11.4	22.1	Sun	30	29	-59.3	-69.8	11.4	22.2	Sun	30	29	-57.9	-70.2	7.4	18.2	Sun	29	29	-59.8	-10.8	Mon
370	2029-10-07	Sun	19.2	27.1	6	Jm2	31	29.4	Tue	11.5	30.7	Tue	29	29	-56.4	176.4	11.6	30.8	Tue	29	29	-55.5	174.7	7.5	26.7	Mon	30	30	-60	-121.8	Tue
371	2029-11-06	Tue	4.4	26.7	7	Rjb	30	29.4	Wed	13.2	17.6	Wed	30	29	-33.9	15	13.2	17.6	Wed	30	29	-34.1	15.1	9.6	14.0	Wed	29	29	-42.2	72	Wed
372	2029-12-05	Wed	14.9	26.6	8	Shn	31	29.5	Fri	14.4	29.3	Fri	29	29	-5.1	-168.8	14.4	29.2	Fri	29	29	-6.8	-166.9	11.2	26.1	Thu	30	30	-7.9	-119.3	Fri
373	2030-01-04	Fri	2.8	26.9	9	Rmd	30	29.6	Sat	14.5	17.3	Sat	30	29	26.2	1.1	14.3	17.1	Sat	30	29	22.3	5.6	11	13.8	Sat	29	29	26.9	53.2	Sat
374	2030-02-02	Sat	16.1	27.2	10	Shl	31	29.6	Mon	13.6	29.8	Mon	29	29	48.8	168.7	13.4	29.5	Mon	29	29	48.1	172.7	9.3	25.4	Sun	30	30	57.7	-133.7	Mon
375	2030-03-04	Mon	6.6	27.4	11	Qdh	30	29.6	Tue	13.5	20.1	Tue	30	29	60	-37.1	13.1	19.7	Tue	30	29	60	-31.6	8.5	15.1	Tue	30	29	60	37.3	Tue
376	2030-04-02	Tue	22.0	27.6	12	Hjh	31	29.7	Thu	15.4	37.4	Thu	30	29	54.8	79.3	14.8	36.9	Thu	30	29	56.3	87.7	10	32.0	Thu	29	29	60	161.9	Thu
377	2030-05-02	Thu	14.2	27.8	1	Mhr	31	29.7	Sat	17.8	32.0	Sat	29	29	30	159.1	17.2	31.4	Sat	29	29	34.1	169.8	13.1	27.3	Fri	30	30	40.3	-125.3	Sat
378	2030-06-01	Sat	6.4	28	2	Sfr	30	29.6	Sun	18.6	24.9	Sun	30	29	4	-101.6	18.0	24.4	Sun	30	29	8.5	-91.6	14.2	20.6	Sun	30	29	6	-35.9	Sun
379	2030-06-30	Sun	21.6	28.1	3	Rb1	31	29.6	Tue	17.0	38.6	Tue	29	29	-22.3	43	16.5	38.1	Tue	29	29	-20.5	51.5	12.7	34.2	Tue	29	29	-25.4	106.6	Tue
380	2030-07-30	Tue	11.2	28	4	Rb2	30	29.5	Wed	14.5	25.7	Wed	30	29	-46.4	-132.2	14.1	25.3	Wed	30	29	-43.4	-124.4	9.8	20.9	Wed	30	29	-53.3	-67.1	Thu

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
381	2030-08-28	Wed	23.1	27.7	5	Jm1	31	29.4	Fri	12.8	35.9	Fri	29	29	-58.2	78.5	12.5	35.7	Fri	29	29	-57.2	82.3	8.1	31.2	Fri	29	29	-60	147.4	Fri
382	2030-09-27	Fri	9.9	27.2	6	Jm2	30	29.4	Sat	12.9	22.8	Sat	30	29	-55	-70.6	12.8	22.7	Sat	30	29	-53.1	-69.6	8.6	18.5	Sat	30	29	-59.5	-5.5	Sun
383	2030-10-26	Sat	20.3	26.8	7	Rjb	31	29.4	Mon	14.0	34.2	Mon	29	29	-31.9	121.6	13.9	34.2	Mon	29	29	-34.3	123.5	10.5	30.8	Mon	29	29	-39	176.4	Mon
384	2030-11-25	Mon	6.8	26.6	8	Shn	30	29.4	Tue	14.1	20.9	Tue	30	29	-5.1	-43.8	14.1	20.9	Tue	30	29	-6.6	-42.8	11.1	17.8	Tue	30	29	-5.4	2.5	Tue
385	2030-12-24	Tue	17.5	26.8	9	Rmd	31	29.5	Thu	13.1	30.6	Thu	29	29	25.2	159.8	13.1	30.6	Thu	29	29	22.6	161.7	9.8	27.4	Thu	29	29	27.9	-152.7	Thu
386	2031-01-23	Thu	4.5	27.1	10	Shl	30	29.5	Fri	11.8	16.3	Fri	30	29	48.5	6.8	11.7	16.2	Fri	30	29	45.7	9.5	7.8	12.3	Fri	29	29	59.3	54.5	Fri
387	2031-02-21	Fri	15.8	27.4	11	Qdh	31	29.5	Sun	11.9	27.7	Sun	29	29	60	-158.3	11.8	27.6	Sun	29	29	58.2	-155.9	7.4	23.2	Sat	30	30	60	-92	Sun
388	2031-03-23	Sun	3.8	27.5	12	Hjh	30	29.5	Mon	14.2	18.0	Mon	30	29	53.1	4.8	13.9	17.7	Mon	30	29	54.4	8.7	9.6	13.4	Mon	30	29	60	73.7	Mon
389	2031-04-21	Mon	16.9	27.7	1	Mhr	31	29.6	Wed	16.9	33.8	Wed	29	29	31.8	130.8	16.5	33.4	Wed	29	29	32.2	137.5	12.7	29.6	Wed	29	29	36.5	-164.4	Wed
390	2031-05-21	Wed	7.3	27.9	2	Sfr	30	29.6	Thu	18.0	25.3	Thu	30	29	5.4	-107.4	17.5	24.7	Thu	30	29	5.4	-99.2	13.8	21.1	Thu	30	29	5.1	-44.1	Thu
391	2031-06-19	Thu	22.4	28.1	3	Rb1	31	29.6	Sat	17.1	39.5	Sat	30	29	-20.7	29.7	16.5	38.9	Sat	30	29	-20.6	39.1	12.4	34.8	Sat	29	29	-26.4	96.7	Sat
392	2031-07-19	Sat	13.7	28.1	4	Rb2	31	29.6	Mon	15.2	28.9	Mon	29	29	-43.6	178.6	14.6	28.2	Mon	29	29	-43.4	-171.7	9.8	23.4	Sun	30	30	-53.5	-108.6	Mon
393	2031-08-18	Mon	4.5	27.8	5	Jm1	30	29.6	Tue	14.4	18.9	Tue	30	29	-54	-29.9	13.8	18.4	Tue	30	29	-53.7	-21.5	8.8	13.3	Tue	30	29	-59.9	49	Tue
394	2031-09-16	Tue	18.8	27.4	6	Jm2	31	29.6	Thu	15.1	33.9	Thu	29	29	-50.4	118.5	14.7	33.5	Thu	29	29	-49.8	124.4	10.3	29.1	Thu	29	29	-59.8	-169.6	Thu
395	2031-10-16	Thu	8.3	26.9	7	Rjb	30	29.5	Fri	15.8	24.2	Fri	30	29	-31.6	-89.4	15.6	23.9	Fri	30	29	-31	-85.6	12	20.3	Fri	30	29	-36.4	-30.7	Sat
396	2031-11-14	Fri	21.2	26.7	8	Shn	31	29.5	Sun	15.1	36.2	Sun	29	29	-5	85.1	15.0	36.1	Sun	29	29	-3.8	86.8	11.7	32.9	Sun	29	29	-3.2	134.9	Sun
397	2031-12-14	Sun	9.1	26.7	9	Rmd	30	29.5	Mon	13.1	22.2	Mon	30	29	23.8	-74.7	13.1	22.2	Mon	30	29	21.9	-72.6	9.7	18.8	Mon	30	29	27.6	-24.8	Tue
398	2032-01-12	Mon	20.1	26.9	10	Shl	31	29.4	Wed	11.3	31.4	Wed	29	29	45.4	139.6	11.3	31.4	Wed	29	29	42.9	141.3	7.2	27.3	Wed	29	29	55.4	-170.9	Wed
399	2032-02-11	Wed	6.4	27.3	11	Qdh	30	29.4	Thu	11.2	17.6	Thu	30	29	57.9	-11.6	11.2	17.6	Thu	30	29	54.6	-9.7	7	13.4	Thu	29	29	60	48.8	Thu
400	2032-03-11	Thu	16.4	27.5	12	Hjh	31	29.4	Sat	13.1	29.5	Sat	29	29	50.8	-172.7	13.1	29.5	Sat	29	29	49.8	-171.9	9.3	25.7	Fri	30	30	60	-116.6	Sat
401	2032-04-10	Sat	2.7	27.6	1	Mhr	30	29.5	Sun	15.1	17.8	Sun	30	29	28.2	9	15.0	17.6	Sun	30	29	29.8	11.9	11.6	14.3	Sun	29	29	33.3	62.9	Sun
402	2032-05-09	Sun	13.6	27.8	2	Sfr	31	29.5	Tue	15.9	29.5	Tue	29	29	0	-172.9	15.6	29.2	Tue	29	29	4.8	-166.2	12.2	25.8	Mon	30	30	1.4	-115.9	Tue
403	2032-06-08	Tue	1.5	28	3	Rb1	30	29.5	Wed	15.4	16.9	Wed	30	29	-20.1	8.8	14.9	16.4	Wed	30	29	-20.1	15.8	10.9	12.4	Wed	29	29	-28.1	71.2	Wed
404	2032-07-07	Wed	14.7	28.1	4	Rb2	31	29.6	Fri	14.5	29.2	Fri	29	29	-40.6	174.2	13.9	28.6	Fri	29	29	-40.2	-176.3	9	23.7	Thu	30	30	-51.1	-112.8	Fri
405	2032-08-06	Fri	5.2	28	5	Jm1	30	29.7	Sat	15.0	20.2	Sat	30	29	-51	-50.7	14.3	19.5	Sat	30	29	-49	-39.5	9.1	14.2	Sat	30	29	-59.4	29.7	Sat
406	2032-09-04	Sat	20.9	27.6	6	Jm2	31	29.7	Mon	16.9	37.8	Mon	30	29	-45.4	57.2	16.3	37.2	Mon	30	29	-46.1	66.2	11.7	32.7	Mon	29	29	-55.3	131.4	Mon
407	2032-10-04	Mon	13.4	27.1	7	Rjb	31	29.7	Wed	17.9	31.3	Wed	29	29	-30	160.8	17.4	30.8	Wed	29	29	-28.5	168.3	13.6	27.1	Tue	30	30	-32.2	-134.6	Wed
408	2032-11-03	Wed	5.7	26.7	8	Shn	30	29.6	Thu	16.8	22.5	Thu	30	29	-3.2	-70.5	16.4	22.1	Thu	30	29	-3.9	-64.2	12.9	18.6	Thu	30	29	-0.7	-12	Thu
409	2032-12-02	Thu	20.9	26.6	9	Rmd	31	29.6	Sat	14.3	35.1	Sat	29	29	20.8	92.4	14.0	34.9	Sat	29	29	20.2	97.1	10.2	31.1	Sat	29	29	28.5	149.8	Sat
410	2033-01-01	Sat	10.3	26.8	10	Shl	30	29.5	Sun	12.1	22.4	Sun	30	29	41.8	-85.7	12.0	22.2	Sun	30	29	39.6	-81.8	7.6	17.9	Sun	30	29	53	-29.7	Mon
411	2033-01-30	Sun	22.0	27.2	11	Qdh	31	29.4	Tue	11.9	33.9	Tue	29	29	49.5	105.7	11.9	33.8	Tue	29	29	48.8	106.3	7.6	29.6	Tue	29	29	60	159.3	Tue
412	2033-03-01	Tue	8.4	27.4	12	Hjh	30	29.4	Wed	13.1	21.5	Wed	30	29	43.3	-55.1	13.1	21.5	Wed	30	29	42	-55	9.6	18.0	Wed	30	29	52.2	-5.3	Wed
413	2033-03-30	Wed	17.9	27.6	1	Mhr	31	29.4	Fri	14.1	31.9	Fri	29	29	27.1	155.7	14.0	31.9	Fri	29	29	26.6	156.3	10.9	28.8	Fri	29	29	28.2	-157.2	Fri
414	2033-04-29	Fri	2.8	27.8	2	Sfr	30	29.4	Sat	13.9	16.6	Sat	29	29	0.8	21.2	13.7	16.5	Sat	29	29	2.5	23.2	10.5	13.3	Sat	29	29	-1.2	70.3	Sat
415	2033-05-28	Sat	11.6	28	3	Rb1	30	29.4	Sun	13.1	24.7	Sun	30	29	-19.2	-107.5	12.8	24.4	Sun	30	29	-20	-104.3	9	20.6	Sun	30	29	-28.3	-51.5	Mon
416	2033-06-26	Sun	21.1	28.1	4	Rb2	31	29.5	Tue	12.8	33.9	Tue	29	29	-36.6	105	12.4	33.5	Tue	29	29	-35.6	111.1	7.8	28.9	Tue	29	29	-47.8	170.5	Tue
417	2033-07-26	Tue	8.2	28	5	Jm1	30	29.6	Wed	14.2	22.4	Wed	30	29	-45.4	-83.7	13.7	21.9	Wed	30	29	-44	-75.6	8.9	17.1	Wed	30	29	-56.2	-14.7	Wed
418	2033-08-24	Wed	21.7	27.7	6	Jm2	31	29.7	Fri	16.9	38.5	Fri	30	29	-39.8	44.9	16.3	38.0	Fri	30	29	-39.3	53.4	12.1	33.7	Fri	30	29	-47.4	114	Fri

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
419	2033-09-23	Fri	13.7	27.3	7	Rjb	31	29.7	Sun	18.6	32.2	Sun	29	29	-23.2	145.6	18.0	31.7	Sun	29	29	-21.3	154	14.2	27.8	Sun	29	29	-25.7	-148.3	Sun
420	2033-10-23	Sun	7.5	26.8	8	Shn	31	29.8	Tue	17.9	25.4	Mon	30	30	0	-114	17.3	24.8	Mon	30	30	-1.1	-104.4	13.5	20.9	Mon	30	30	1.5	-47.3	Mon
421	2033-11-22	Tue	1.7	26.6	9	Rmd	30	29.7	Wed	15.6	17.2	Wed	30	29	21.4	0.6	15.0	16.6	Wed	30	29	20.5	10	10.7	12.3	Wed	30	29	28.1	71.5	Wed
422	2033-12-21	Wed	18.8	26.7	10	Shl	31	29.6	Fri	13.7	32.5	Fri	29	29	37.3	123.9	13.3	32.0	Fri	29	29	36.6	131.4	8.4	27.2	Fri	29	29	48.7	-166.1	Fri
423	2034-01-20	Fri	10.0	27	11	Qdh	30	29.5	Sat	13.7	23.8	Sat	30	29	44.5	-103.3	13.5	23.5	Sat	30	29	41.2	-96.8	9.1	19.1	Sat	30	29	54.4	-42.9	Sun
424	2034-02-18	Sat	23.2	27.3	12	Hjh	31	29.5	Mon	14.4	37.6	Mon	29	29	37.7	61.7	14.3	37.5	Mon	29	29	35.6	64.1	10.8	34.0	Mon	29	29	44.6	113.4	Mon
425	2034-03-20	Mon	10.2	27.5	1	Mhr	30	29.4	Tue	14.3	24.5	Tue	30	29	21.9	-94.7	14.2	24.4	Tue	30	29	20.6	-93.6	11.1	21.4	Tue	30	29	23.9	-47.6	Wed
426	2034-04-18	Tue	19.4	27.7	2	Sfr	31	29.3	Thu	13.0	32.4	Thu	29	29	0.9	144.2	13.0	32.4	Thu	29	29	2.1	145.1	9.8	29.2	Thu	29	29	-4.5	-168.1	Thu
427	2034-05-18	Thu	3.2	27.9	3	Rb1	30	29.3	Fri	11.6	14.8	Fri	29	29	-20	40.3	11.6	14.8	Fri	29	29	-17.1	42.4	7.8	11.0	Fri	29	29	-27.3	94.2	Fri
428	2034-06-16	Fri	10.4	28.1	4	Rb2	30	29.3	Sat	11.4	21.8	Sat	30	29	-33.3	-72.3	11.3	21.7	Sat	30	29	-31.2	-69.2	6.9	17.3	Sat	29	29	-45.1	-14.3	Sun
429	2034-07-15	Sat	18.2	28.1	5	Jm1	31	29.4	Mon	13.0	31.3	Mon	29	29	-36.7	146.8	12.8	31.1	Mon	29	29	-36.2	150.1	8.6	26.9	Sun	30	30	-48.5	-156.5	Mon
430	2034-08-14	Mon	3.9	27.9	6	Jm2	30	29.5	Tue	15.5	19.4	Tue	30	29	-32.4	-28	15.2	19.1	Tue	30	29	-32.2	-23.3	11.5	15.4	Tue	30	29	-39.6	29.7	Tue
431	2034-09-12	Tue	16.2	27.5	7	Rjb	31	29.6	Thu	17.2	33.4	Thu	29	29	-19	127	16.8	33.0	Thu	29	29	-19.7	133.7	13.2	29.4	Thu	29	29	-20.4	-172.8	Thu
432	2034-10-12	Thu	7.5	27	8	Shn	31	29.7	Sat	17.1	24.6	Fri	30	30	-0.4	-102.2	16.5	24.1	Fri	30	30	0.3	-93.6	12.7	20.2	Fri	30	30	4.9	-36.4	Fri
433	2034-11-11	Sat	1.3	26.7	9	Rmd	30	29.8	Sun	15.7	17.0	Sun	30	29	18.6	6.1	15.0	16.3	Sun	30	29	18.5	17	10.4	11.6	Sun	30	29	28.1	82.9	Sun
434	2034-12-10	Sun	20.2	26.7	10	Shl	31	29.8	Tue	15.0	35.2	Tue	30	29	31.3	85.7	14.3	34.5	Tue	30	29	31	97.2	9	29.3	Tue	29	29	43.9	166.5	Tue
435	2035-01-09	Tue	15.0	26.9	11	Qdh	31	29.7	Thu	16.0	31.1	Thu	29	29	39.2	147.9	15.4	30.4	Thu	29	29	35.1	160	10.8	25.9	Wed	30	30	43.7	-137.9	Thu
436	2035-02-08	Thu	8.4	27.2	12	Hjh	30	29.6	Fri	16.6	25.0	Fri	30	29	31	-109.7	16.3	24.6	Fri	30	29	29.4	-103.5	12.6	20.9	Fri	30	29	34.9	-50.3	Sat
437	2035-03-09	Fri	23.2	27.5	1	Mhr	31	29.5	Sun	15.7	38.8	Sun	29	29	16.1	50.2	15.4	38.6	Sun	29	29	17.1	53.6	12.1	35.2	Sun	29	29	15.3	103.8	Sun
438	2035-04-08	Sun	11.0	27.6	2	Sfr	30	29.4	Mon	13.5	24.5	Mon	30	29	-0.6	-96.1	13.4	24.3	Mon	30	29	-0.5	-93.5	9.9	20.9	Mon	29	29	-6.2	-42.7	Tue
439	2035-05-07	Mon	20.1	27.8	3	Rb1	31	29.3	Wed	11.6	31.7	Wed	29	29	-18.1	149.5	11.5	31.5	Wed	29	29	-18.6	151.1	7.6	27.6	Tue	30	30	-28.4	-153.6	Wed
440	2035-06-06	Wed	3.3	28	4	Rb2	30	29.3	Thu	11.2	14.5	Thu	29	29	-28	39.7	11.1	14.5	Thu	29	29	-28	40.7	7	10.3	Thu	29	29	-40.1	95.8	Thu
441	2035-07-05	Thu	10.0	28.1	5	Jm1	30	29.3	Fri	12.5	22.5	Fri	30	29	-29.9	-79.1	12.5	22.4	Fri	30	29	-28.7	-77.8	8.7	18.7	Fri	30	29	-39.5	-28.6	Sat
442	2035-08-03	Fri	17.2	28	6	Jm2	31	29.4	Sun	14.2	31.4	Sun	29	29	-25.8	153.2	14.1	31.3	Sun	29	29	-23.9	155.2	10.8	28.0	Sun	29	29	-30.5	-157.9	Sun
443	2035-09-02	Sun	2.0	27.6	7	Rjb	30	29.5	Mon	15.1	17.0	Mon	30	29	-14.8	13.1	14.9	16.8	Mon	30	29	-12.5	16.3	11.6	13.6	Mon	29	29	-12.1	65.2	Mon
444	2035-10-01	Mon	13.1	27.2	8	Shn	31	29.6	Wed	14.8	27.9	Wed	29	29	1.9	-151	14.5	27.6	Wed	29	29	3.7	-145.8	10.8	23.9	Tue	30	30	7.4	-90.8	Wed
445	2035-10-31	Wed	3.0	26.8	9	Rmd	30	29.7	Thu	14.3	17.2	Thu	30	29	18	3.6	13.7	16.6	Thu	30	29	17.9	12.4	9.2	12.1	Thu	30	29	28.4	77.3	Thu
446	2035-11-29	Thu	19.6	26.6	10	Shl	31	29.8	Sat	14.9	34.5	Sat	30	29	28	98.2	14.2	33.8	Sat	30	29	27	109.6	9.1	28.7	Sat	29	29	38.8	179.3	Sat
447	2035-12-29	Sat	14.5	26.8	11	Qdh	31	29.8	Mon	17.1	31.6	Mon	30	29	27.9	144.5	16.4	30.9	Mon	30	29	28.5	154.2	11.9	26.4	Sun	30	30	35.7	-142.5	Mon
448	2036-01-28	Mon	10.3	27.1	12	Hjh	31	29.8	Wed	18.5	28.7	Wed	29	29	22.9	-164.8	17.9	28.2	Wed	29	29	20	-154.9	14	24.3	Tue	30	30	25	-99.1	Wed
449	2036-02-27	Wed	5.0	27.4	1	Mhr	30	29.7	Thu	17.4	22.4	Thu	30	29	9.9	-63.1	16.9	21.9	Thu	30	29	9.1	-55.5	13.2	18.2	Thu	30	29	8.2	-0.4	Thu
450	2036-03-27	Thu	20.9	27.6	2	Sfr	31	29.5	Sat	14.9	35.8	Sat	29	29	-3.9	94.6	14.4	35.4	Sat	29	29	-3.9	101.1	10.5	31.5	Sat	29	29	-11.4	159.5	Sat
451	2036-04-26	Sat	9.5	27.7	3	Rb1	30	29.4	Sun	12.8	22.3	Sun	30	29	-17.2	-68.9	12.4	22.0	Sun	30	29	-17.6	-63.9	8.1	17.6	Sun	29	29	-27.9	-1.4	Mon
452	2036-05-25	Sun	19.3	27.9	4	Rb2	31	29.3	Tue	12.4	31.7	Tue	29	29	-23	145.8	12.2	31.5	Tue	29	29	-21.2	149.5	8	27.2	Mon	30	30	-35.1	-153.9	Tue
453	2036-06-24	Tue	3.2	28.1	5	Jm1	30	29.3	Wed	13.3	16.4	Wed	29	29	-26	13.5	13.2	16.3	Wed	29	29	-21.4	17.1	9.6	12.8	Wed	29	29	-28	66.8	Wed
454	2036-07-23	Wed	10.3	28.1	6	Jm2	30	29.3	Thu	13.9	24.2	Thu	30	29	-16.9	-96.1	13.9	24.1	Thu	30	29	-14.3	-95	10.8	21.0	Thu	30	29	-20.2	-50.4	Fri
455	2036-08-21	Thu	17.6	27.8	7	Rjb	31	29.3	Sat	13.6	31.2	Sat	29	29	-6.6	162.1	13.6	31.2	Sat	29	29	-5.5	163.1	10.5	28.1	Sat	29	29	-1.9	-150.4	Sat
456	2036-09-20	Sat	1.9	27.3	8	Shn	30	29.4	Sun	12.7	14.6	Sun	29	29	6	50.5	12.6	14.4	Sun	29	29	7.4	52.7	9.1	10.9	Sun	29	29	14	105.5	Sun

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
457	2036-10-19	Sun	11.8	26.9	9	Rmd	31	29.5	Tue	12.3	24.1	Mon	30	30	16.3	-97.3	12.0	23.8	Mon	30	30	15.6	-92.7	7.7	19.5	Mon	30	30	29.4	-31.6	Tue
458	2036-11-18	Tue	0.2	26.6	10	Shl	30	29.6	Wed	13.6	13.9	Wed	30	29	22.5	51.2	13.2	13.4	Wed	30	29	20.6	58.8	8.6	8.9	Wed	30	29	34.7	120.4	Wed
459	2036-12-17	Wed	15.6	26.7	11	Qdh	31	29.8	Fri	16.4	32.0	Fri	30	29	19.2	141.6	15.9	31.5	Fri	30	29	20	148.6	11.8	27.4	Fri	29	29	26.5	-153.1	Fri
460	2037-01-16	Fri	9.6	27	12	Hjh	31	29.8	Sun	18.4	28.0	Sun	29	29	13.9	-151.3	17.8	27.4	Sun	29	29	13.8	-143	14.1	23.6	Sat	30	30	16.2	-87.4	Sun
461	2037-02-15	Sun	4.9	27.3	1	Mhr	30	29.8	Mon	18.0	22.9	Mon	30	29	0	-68.9	17.3	22.2	Mon	30	29	3.6	-59.5	13.4	18.3	Mon	30	29	1.4	-1	Mon
462	2037-03-16	Mon	23.6	27.5	2	Sfr	31	29.7	Wed	15.9	39.5	Wed	30	29	-6.4	41.1	15.2	38.8	Wed	30	29	-8.7	51.6	10.8	34.4	Wed	29	29	-17	118	Wed
463	2037-04-15	Wed	16.1	27.7	3	Rb1	31	29.6	Fri	14.4	30.5	Fri	29	29	-13.7	171.2	13.7	29.8	Fri	29	29	-15.7	-179.1	8.8	24.9	Thu	30	30	-27.6	-107.7	Fri
464	2037-05-15	Fri	5.9	27.9	4	Rb2	30	29.5	Sat	14.5	20.4	Sat	30	29	-15.8	-41.2	14.0	19.9	Sat	30	29	-16.6	-34.4	9.6	15.5	Sat	30	29	-26.1	28.2	Sat
465	2037-06-13	Sat	17.2	28.1	5	Jm1	31	29.4	Mon	15.1	32.3	Mon	29	29	-13.4	141.4	14.8	32.0	Mon	29	29	-12.1	145.7	11.2	28.4	Mon	29	29	-18.9	-163.1	Mon
466	2037-07-13	Mon	2.5	28.1	6	Jm2	30	29.3	Tue	14.8	17.3	Tue	29	29	-8.1	9	14.7	17.2	Tue	29	29	-6.4	11.4	11.5	14.0	Tue	29	29	-9.5	58	Tue
467	2037-08-11	Tue	10.7	27.9	7	Rjb	30	29.3	Wed	13.5	24.2	Wed	30	29	-1.6	-91.1	13.4	24.1	Wed	30	29	2.5	-89.2	10.3	20.9	Wed	29	29	2.9	-41.4	Thu
468	2037-09-09	Wed	18.4	27.5	8	Shn	31	29.3	Fri	11.9	30.3	Fri	29	29	8	176.7	11.8	30.2	Fri	29	29	9.9	178	8.2	26.6	Thu	30	30	18	-127.8	Fri
469	2037-10-09	Fri	2.6	27	9	Rmd	30	29.4	Sat	11.2	13.7	Sat	29	29	15.8	59.8	11.0	13.6	Sat	29	29	17	61.6	6.9	9.5	Sat	29	29	30.3	121.8	Sat
470	2037-11-07	Sat	12.0	26.7	10	Shl	30	29.5	Sun	12.5	24.5	Sun	30	29	16.8	-105.8	12.3	24.3	Sun	30	29	16.8	-103.2	8.2	20.3	Sun	30	29	27.2	-46.2	Mon
471	2037-12-06	Sun	23.6	26.6	11	Qdh	31	29.6	Tue	14.9	38.5	Tue	30	29	12.5	45.5	14.7	38.3	Tue	30	29	10.8	49.8	11.1	34.7	Tue	29	29	17.7	100.4	Tue
472	2038-01-05	Tue	13.7	26.9	12	Hjh	31	29.7	Thu	16.6	30.3	Thu	29	29	7.3	175.4	16.2	29.9	Thu	29	29	5.6	-178.8	12.8	26.5	Wed	30	30	6.2	-127.1	Thu
473	2038-02-04	Thu	5.9	27.2	1	Mhr	30	29.7	Fri	16.5	22.4	Fri	30	29	-2.4	-60.4	16.0	21.9	Fri	30	29	-0.5	-53.7	12.2	18.1	Fri	30	29	-5.4	4.8	Fri
474	2038-03-05	Fri	23.2	27.4	2	Sfr	31	29.7	Sun	15.4	38.6	Sun	30	29	-9	55.6	14.7	37.9	Sun	30	29	-9.7	66.2	10.1	33.3	Sun	29	29	-20.6	136.2	Sun
475	2038-04-04	Sun	16.7	27.6	3	Rb1	31	29.7	Tue	15.0	31.7	Tue	29	29	-12.5	154	14.2	30.9	Tue	29	29	-13.5	166.1	9	25.7	Mon	30	30	-27.8	-117.7	Tue
476	2038-05-04	Tue	9.3	27.8	4	Rb2	31	29.6	Thu	16.3	25.6	Wed	30	30	-9.9	-117.6	15.6	25.0	Wed	30	30	-9.2	-107	11	20.4	Wed	30	30	-20.3	-41.4	Thu
477	2038-06-03	Thu	0.4	28	5	Jm1	30	29.5	Fri	17.3	17.7	Fri	30	29	-4.6	2.7	16.8	17.2	Fri	30	29	-4.1	10.4	13	13.4	Fri	29	29	-8.9	65.6	Fri
478	2038-07-02	Fri	13.5	28.1	6	Jm2	31	29.5	Sun	16.6	30.1	Sun	29	29	-0.6	179.9	16.3	29.8	Sun	29	29	3.4	-173.5	12.8	26.3	Sat	30	30	1.2	-122.5	Sun
479	2038-08-01	Sun	0.7	28	7	Rjb	30	29.4	Mon	14.5	15.2	Mon	29	29	7	47	14.3	14.9	Mon	29	29	8.4	51.3	10.8	11.4	Mon	29	29	11.8	105	Mon
480	2038-08-30	Mon	10.2	27.7	8	Shn	30	29.4	Tue	12.3	22.5	Tue	30	29	11.4	-64.9	12.1	22.3	Tue	30	29	13.5	-61.7	8.2	18.4	Tue	29	29	23	-1.6	Wed
481	2038-09-28	Tue	19.0	27.2	9	Rmd	31	29.4	Thu	11.4	30.4	Thu	29	29	15.8	172.1	11.3	30.2	Thu	29	29	15.4	174.5	7.1	26.0	Wed	30	30	28.9	-123.3	Thu
482	2038-10-28	Thu	3.9	26.8	10	Shl	30	29.4	Fri	12.4	16.3	Fri	30	29	10.7	20.4	12.3	16.2	Fri	30	29	10.2	21.8	8.6	12.4	Fri	29	29	19.6	75.6	Fri
483	2038-11-26	Fri	13.8	26.6	11	Qdh	31	29.5	Sun	13.9	27.7	Sun	29	29	3	-149	13.9	27.7	Sun	29	29	3.1	-148.2	10.7	24.4	Sat	30	30	8.6	-101.9	Sun
484	2038-12-26	Sun	1.0	26.8	12	Hjh	30	29.5	Mon	14.6	15.6	Mon	30	29	-2.6	38.1	14.5	15.5	Mon	30	29	-3.1	39.9	11.3	12.3	Mon	29	29	-3	87.4	Mon
485	2039-01-24	Mon	13.6	27.1	1	Mhr	31	29.6	Wed	14.1	27.7	Wed	29	29	-7.8	-138.6	13.8	27.4	Wed	29	29	-9	-134.5	10.3	23.9	Tue	30	30	-12.7	-79.7	Wed
486	2039-02-23	Wed	3.3	27.4	2	Sfr	30	29.6	Thu	13.5	16.8	Thu	30	29	-11.2	24.3	13.0	16.3	Thu	30	29	-13	31.7	8.6	11.9	Thu	29	29	-22.8	99.6	Thu
487	2039-03-24	Thu	18.0	27.5	3	Rb1	31	29.6	Sat	14.4	32.3	Sat	29	29	-9.7	147	13.7	31.7	Sat	29	29	-12.5	157	8.8	26.8	Fri	30	30	-24	-130.2	Sat
488	2039-04-23	Sat	9.6	27.7	4	Rb2	31	29.7	Mon	16.7	26.3	Sun	30	30	-4.6	-125	16.0	25.6	Sun	30	30	-5.2	-114.8	11.6	21.2	Sun	30	30	-13.2	-50.8	Mon
489	2039-05-23	Mon	1.6	27.9	5	Jm1	30	29.7	Tue	18.5	20.1	Tue	30	29	4	-30.1	17.9	19.5	Tue	30	29	5	-20.5	14	15.6	Tue	30	29	2.1	36.4	Tue
490	2039-06-21	Tue	17.4	28.1	6	Jm2	31	29.6	Thu	18.1	35.4	Thu	29	29	10.3	105	17.5	34.8	Thu	29	29	10.8	113.6	13.7	31.1	Thu	29	29	11.7	170.1	Thu
491	2039-07-21	Thu	7.9	28.1	7	Rjb	30	29.5	Fri	15.9	23.8	Fri	30	29	10	-80.2	15.4	23.2	Fri	30	29	15.3	-70.3	11.4	19.2	Fri	30	29	19.2	-8.8	Fri
492	2039-08-19	Fri	20.8	27.8	8	Shn	31	29.5	Sun	13.6	34.5	Sun	29	29	14.3	118.2	13.1	34.0	Sun	29	29	16.6	125.8	8.7	29.5	Sun	29	29	27.1	-164.6	Sun
493	2039-09-18	Sun	8.4	27.4	9	Rmd	30	29.4	Mon	12.9	21.2	Mon	30	29	11.8	-48.8	12.5	20.9	Mon	30	29	14.1	-43.5	8.1	16.4	Mon	30	29	27.2	23.6	Tue
494	2039-10-17	Mon	19.1	26.9	10	Shl	31	29.4	Wed	13.6	32.7	Wed	29	29	3.6	135.6	13.4	32.6	Wed	29	29	5.1	138	9.7	28.8	Wed	29	29	14.9	-168.1	Wed

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
495	2039-11-16	Wed	5.8	26.6	11	Qdh	30	29.4	Thu	14.2	20.0	Thu	30	29	-4.8	-31.2	14.2	19.9	Thu	30	29	-5.6	-30	11	16.8	Thu	30	29	-2.3	16.3	Thu
496	2039-12-15	Thu	16.5	26.7	12	Hjh	31	29.5	Sat	13.7	30.2	Sat	29	29	-10.7	-179.1	13.7	30.2	Sat	29	29	-10.8	-178.9	10.6	27.1	Sat	29	29	-12.5	-131.9	Sat
497	2040-01-14	Sat	3.4	27	1	Mhr	30	29.5	Sun	12.4	15.8	Sun	29	29	-13.9	41.8	12.3	15.7	Sun	29	29	-14.3	42.8	8.9	12.3	Sun	29	29	-20.1	97.5	Sun
498	2040-02-12	Sun	14.4	27.3	2	Sfr	31	29.5	Tue	11.7	26.1	Mon	30	30	-15.4	-112.7	11.5	25.9	Mon	30	30	-14.9	-109.9	7.3	21.7	Mon	30	30	-27.5	-43.4	Tue
499	2040-03-13	Tue	1.8	27.5	3	Rb1	30	29.5	Wed	12.9	14.7	Wed	30	29	-8.4	52.9	12.6	14.4	Wed	30	29	-10.6	58.3	8.3	10.0	Wed	29	29	-21.7	123.9	Wed
500	2040-04-11	Wed	14.0	27.6	4	Rb2	31	29.6	Fri	15.6	29.6	Fri	29	29	3.4	-172.9	15.2	29.2	Fri	29	29	3.7	-166.5	11.3	25.3	Thu	30	30	-4.4	-109.2	Fri
501	2040-05-11	Fri	3.5	27.8	5	Jm1	30	29.6	Sat	17.6	21.1	Sat	30	29	12	-42.5	17.2	20.6	Sat	30	29	12.6	-35	13.5	17.0	Sat	30	29	11	19.3	Sat
502	2040-06-09	Sat	18.0	28	6	Jm2	31	29.6	Mon	17.7	35.8	Mon	29	29	16.8	102	17.1	35.2	Mon	29	29	17.7	110.9	13.3	31.4	Mon	29	29	19.9	169	Mon
503	2040-07-09	Mon	9.2	28.1	7	Rjb	31	29.6	Wed	16.2	25.4	Tue	30	30	19.4	-100.8	15.5	24.7	Tue	30	30	21.1	-89.8	11.2	20.4	Tue	30	30	27	-21.7	Wed
504	2040-08-08	Wed	0.4	27.9	8	Shn	30	29.6	Thu	14.7	15.2	Thu	30	29	18.4	50.2	14.0	14.4	Thu	30	29	19.9	62	9	9.4	Thu	29	29	31	141	Thu
505	2040-09-06	Thu	15.2	27.5	9	Rmd	31	29.6	Sat	14.8	30.0	Sat	29	29	9.7	-179.3	14.2	29.4	Sat	29	29	11.2	-169.5	9.4	24.6	Fri	30	30	23.1	-96.7	Sat
506	2040-10-06	Sat	5.4	27.1	10	Shl	30	29.6	Sun	15.7	21.2	Sun	30	29	-2.3	-49.4	15.3	20.8	Sun	30	29	0.4	-43.7	11.4	16.9	Sun	30	29	5.8	14.3	Sun
507	2040-11-04	Sun	18.9	26.7	11	Qdh	31	29.5	Tue	15.7	34.6	Tue	29	29	-14	111.5	15.5	34.4	Tue	29	29	-15	115.1	12.2	31.1	Tue	29	29	-10	163.3	Tue
508	2040-12-04	Tue	7.5	26.6	12	Hjh	30	29.5	Wed	14.2	21.8	Wed	30	29	-17.8	-50.2	14.1	21.7	Wed	30	29	-18.3	-48.7	10.9	18.4	Wed	30	29	-21.5	1.8	Wed
509	2041-01-02	Wed	19.1	26.8	1	Mhr	31	29.4	Fri	12.1	31.2	Fri	29	29	-20.3	172.5	12.1	31.2	Fri	29	29	-20.3	173.2	8.4	27.5	Fri	29	29	-29.4	-127.2	Fri
510	2041-02-01	Fri	5.7	27.2	2	Sfr	30	29.4	Sat	11.0	16.7	Sat	30	29	-17.4	28.6	11.0	16.7	Sat	30	29	-19.4	30.6	6.8	12.5	Sat	29	29	-29.4	96.2	Sat
511	2041-03-02	Sat	15.6	27.4	3	Rb1	31	29.4	Mon	12.1	27.8	Mon	29	29	-5.7	-141.9	12.0	27.6	Mon	29	29	-7.1	-139.8	8.1	23.7	Sun	30	30	-17.8	-79.9	Mon
512	2041-04-01	Mon	1.5	27.6	4	Rb2	30	29.4	Tue	14.2	15.7	Tue	29	29	8.4	36.7	14.1	15.6	Tue	29	29	10.6	39.1	10.7	12.1	Tue	29	29	3.1	90	Tue
513	2041-04-30	Tue	11.8	27.8	5	Jm1	30	29.5	Wed	15.7	27.4	Wed	30	29	20.8	-135.1	15.4	27.2	Wed	30	29	22.2	-131.2	12.1	23.9	Wed	30	29	19.4	-82.1	Thu
514	2041-05-29	Wed	22.9	28	6	Jm2	31	29.5	Fri	15.7	38.6	Fri	29	29	24.4	62.2	15.3	38.2	Fri	29	29	25	67.7	11.7	34.6	Fri	29	29	29.2	124.6	Fri
515	2041-06-28	Fri	11.3	28.1	7	Rjb	31	29.6	Sun	14.8	26.1	Sat	30	30	25.7	-107.6	14.3	25.5	Sat	30	30	27.6	-98.2	9.9	21.2	Sat	30	30	34.6	-28.3	Sun
516	2041-07-28	Sun	1.0	28	8	Shn	30	29.6	Mon	14.5	15.6	Mon	30	29	19.9	46.1	13.8	14.8	Mon	30	29	23.1	58.6	8.7	9.7	Mon	29	29	33.9	140.2	Mon
517	2041-08-26	Mon	16.3	27.7	9	Rmd	31	29.7	Wed	16.0	32.2	Wed	29	29	10	149.4	15.2	31.4	Wed	29	29	11.1	161.6	10.4	26.6	Tue	30	30	20.7	-124.3	Wed
518	2041-09-25	Wed	8.7	27.2	10	Shl	31	29.7	Fri	17.7	26.4	Thu	30	30	-6.2	-127	17.1	25.7	Thu	30	30	-7.7	-117.3	13.1	21.7	Thu	30	30	0.3	-57.4	Fri
519	2041-10-25	Fri	1.5	26.8	11	Qdh	30	29.7	Sat	17.6	19.1	Sat	30	29	-21.6	-15.2	17.2	18.7	Sat	30	29	-19.9	-9	13.6	15.1	Sat	30	29	-19.6	45.2	Sat
520	2041-11-23	Sat	17.6	26.6	12	Hjh	31	29.6	Mon	15.6	33.2	Mon	29	29	-27.3	140.8	15.3	32.9	Mon	29	29	-29.2	146.5	11.6	29.2	Mon	29	29	-31.3	-157.6	Mon
521	2041-12-23	Mon	8.1	26.7	1	Mhr	30	29.5	Tue	13.1	21.2	Tue	30	29	-25.7	-34.4	12.8	20.9	Tue	30	29	-28.3	-29.3	8.7	16.8	Tue	30	29	-36.9	37.6	Wed
522	2042-01-21	Tue	20.7	27.1	2	Sfr	31	29.5	Thu	11.8	32.5	Thu	29	29	-20.3	153.7	11.7	32.3	Thu	29	29	-21.1	156.6	7.3	28.0	Thu	29	29	-31.8	-133.8	Thu
523	2042-02-20	Thu	7.6	27.3	3	Rb1	30	29.4	Fri	12.6	20.2	Fri	30	29	-3.9	-27.9	12.5	20.1	Fri	30	29	-4.3	-26.4	8.7	16.4	Fri	30	29	-14.8	31.8	Fri
524	2042-03-21	Fri	17.4	27.5	4	Rb2	31	29.4	Sun	13.7	31.1	Sun	29	29	15.2	166	13.7	31.1	Sun	29	29	15.2	166.6	10.5	27.9	Sun	29	29	11.3	-145.8	Sun
525	2042-04-20	Sun	2.3	27.7	5	Jm1	30	29.4	Mon	14.1	16.4	Mon	29	29	30.1	32.2	14.0	16.3	Mon	29	29	30	32.8	10.9	13.2	Mon	29	29	28.9	79.3	Mon
526	2042-05-19	Mon	10.9	27.9	6	Jm2	30	29.4	Tue	13.4	24.3	Tue	30	29	33.2	-80.3	13.3	24.2	Tue	30	29	35	-77.9	9.8	20.7	Tue	29	29	39.2	-23.1	Wed
527	2042-06-17	Tue	19.8	28.1	7	Rjb	31	29.4	Thu	12.7	32.5	Thu	29	29	31.4	159.6	12.4	32.2	Thu	29	29	33.9	165.1	8.2	28.0	Wed	30	30	41.8	-125.6	Thu
528	2042-07-17	Thu	5.9	28.1	8	Shn	30	29.5	Fri	13.2	19.1	Fri	30	29	20	-5.9	12.8	18.6	Fri	30	29	25.9	4.1	8	13.9	Fri	30	29	35.6	80.8	Fri
529	2042-08-15	Fri	18.0	27.9	9	Rmd	31	29.6	Sun	15.5	33.5	Sun	29	29	7.9	130.9	14.9	32.9	Sun	29	29	9.7	140.5	10.5	28.5	Sun	29	29	19	-150.9	Sun
530	2042-09-14	Sun	8.8	27.4	10	Shl	31	29.7	Tue	18.0	26.8	Mon	30	30	-10	-133.3	17.4	26.2	Mon	30	30	-10.4	-123.9	13.4	22.3	Mon	30	30	-6.1	-64.8	Tue
531	2042-10-14	Tue	2.0	27	11	Qdh	30	29.8	Wed	18.6	20.6	Wed	30	29	-27.1	-37.1	18.0	20.0	Wed	30	29	-30	-27.7	14.2	16.2	Wed	30	29	-28.1	28.7	Wed
532	2042-11-12	Wed	20.5	26.7	12	Hjh	31	29.8	Fri	16.8	37.3	Fri	30	29	-35.2	81.5	16.3	36.7	Fri	30	29	-35.4	89.6	12.2	32.6	Fri	29	29	-40.5	154.1	Fri

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
533	2042-12-12	Fri	14.5	26.7	1	Mhr	31	29.7	Sun	14.5	29.0	Sun	29	29	-31.3	-149.7	14.0	28.4	Sun	29	29	-33.4	-140.6	9.2	23.7	Sat	30	30	-43.6	-61.9	Sun
534	2043-01-11	Sun	6.9	26.9	2	Sfr	30	29.6	Mon	13.6	20.5	Mon	30	29	-20.6	-25.8	13.2	20.1	Mon	30	29	-22.2	-18.6	8.5	15.4	Mon	30	29	-33.6	57.7	Mon
535	2043-02-09	Mon	21.1	27.2	3	Rb1	31	29.5	Wed	14.2	35.3	Wed	29	29	-2.2	104.8	14.0	35.1	Wed	29	29	-3.7	109	10.2	31.3	Wed	29	29	-9.2	167.3	Wed
536	2043-03-11	Wed	9.1	27.5	4	Rb2	30	29.4	Thu	14.6	23.7	Thu	30	29	21.1	-83.6	14.4	23.6	Thu	30	29	19.3	-81.7	11.3	20.4	Thu	30	29	17.7	-33.8	Fri
537	2043-04-09	Thu	19.1	27.6	5	Jm1	31	29.3	Sat	13.7	32.8	Sat	29	29	37.5	145.5	13.7	32.8	Sat	29	29	34.7	145.2	10.6	29.7	Sat	29	29	38.4	-167.2	Sat
538	2043-05-09	Sat	3.3	27.8	6	Jm2	30	29.3	Sun	12.2	15.5	Sun	29	29	42.5	54.4	12.2	15.5	Sun	29	29	43.2	54.4	8.7	12.0	Sun	29	29	48.9	111.3	Sun
539	2043-06-07	Sun	10.6	28	7	Rjb	30	29.3	Mon	11.2	21.8	Mon	30	29	38.5	-36.3	11.2	21.7	Mon	30	29	40.2	-34.3	7	17.6	Mon	29	29	48.5	36	Tue
540	2043-07-06	Mon	17.8	28.1	8	Shn	31	29.4	Wed	12.0	29.8	Wed	29	29	25.4	-163.3	11.8	29.6	Wed	29	29	27.5	-159.4	7.5	25.3	Tue	30	30	37.3	-88.8	Wed
541	2043-08-05	Wed	2.4	28	9	Rmd	30	29.5	Thu	14.2	16.6	Thu	30	29	5.5	24.9	13.9	16.3	Thu	30	29	7.1	29.9	10.1	12.5	Thu	29	29	15.3	90.2	Thu
542	2043-09-03	Thu	13.3	27.6	10	Shl	31	29.6	Sat	16.5	29.8	Sat	29	29	-16.2	-178.5	16.1	29.4	Sat	29	29	-13.6	-172.5	12.6	25.9	Fri	30	30	-10.5	-118.7	Sat
543	2043-10-03	Sat	3.2	27.1	11	Qdh	30	29.7	Sun	17.3	20.5	Sun	30	29	-35	-36.7	16.9	20.1	Sun	30	29	-33.8	-30	13.2	16.4	Sun	30	29	-36	25.5	Sun
544	2043-11-01	Sun	20.0	26.8	12	Hjh	31	29.8	Tue	16.4	36.3	Tue	30	29	-41.2	95.3	15.8	35.8	Tue	30	29	-44	105.3	11.5	31.5	Tue	29	29	-49.9	173.5	Tue
545	2043-12-01	Tue	14.6	26.6	1	Mhr	31	29.8	Thu	15.1	29.7	Thu	29	29	-38.9	-157.9	14.4	29.0	Thu	29	29	-41	-146.1	9.2	23.8	Wed	30	30	-50.1	-60	Thu
546	2043-12-31	Thu	9.8	26.8	2	Sfr	31	29.8	Sat	15.4	25.2	Fri	30	30	-23.8	-95.2	14.7	24.5	Fri	30	30	-26.4	-83.4	9.7	19.5	Fri	30	30	-35.2	-3.2	Sat
547	2044-01-30	Sat	4.1	27.1	3	Rb1	30	29.7	Sun	16.6	20.6	Sun	30	29	-0.8	-34.8	16.1	20.1	Sun	30	29	-1.5	-27.1	12	16.1	Sun	30	29	-8.6	35.5	Sun
548	2044-02-28	Sun	20.2	27.4	4	Rb2	31	29.6	Tue	16.4	36.6	Tue	29	29	23.3	81.7	16.1	36.3	Tue	29	29	21.5	86.6	12.7	32.9	Tue	29	29	23	137.7	Tue
549	2044-03-29	Tue	9.4	27.6	5	Jm1	30	29.4	Wed	14.7	24.1	Wed	30	29	43.2	-85.1	14.5	23.9	Wed	30	29	40.6	-83.2	11.1	20.5	Wed	30	29	44.7	-31.7	Thu
550	2044-04-27	Wed	19.7	27.7	6	Jm2	31	29.3	Fri	12.4	32.1	Fri	29	29	50.3	167.8	12.3	32.0	Fri	29	29	48.4	167	8.5	28.2	Fri	29	29	58.5	-127.3	Fri
551	2044-05-27	Fri	3.7	28	7	Rjb	30	29.3	Sat	11.1	14.7	Sat	29	29	42.2	70.5	11.1	14.7	Sat	29	29	44.4	72.2	6.8	10.4	Sat	29	29	54.1	147.4	Sat
552	2044-06-25	Sat	10.4	28.1	8	Shn	30	29.3	Sun	11.7	22.1	Sun	30	29	27.5	-46.6	11.7	22.0	Sun	30	29	29.4	-44.9	7.6	18.0	Sun	29	29	38.6	21.5	Mon
553	2044-07-24	Sun	17.2	28.1	9	Rmd	31	29.3	Tue	13.4	30.6	Tue	29	29	6.4	176.3	13.3	30.5	Tue	29	29	5.4	177.5	9.9	27.0	Mon	30	30	12.8	-128.5	Tue
554	2044-08-23	Tue	1.1	27.7	10	Shl	30	29.4	Wed	14.7	15.8	Wed	29	29	-19.1	30.2	14.6	15.7	Wed	29	29	-16.8	32.6	11.4	12.5	Wed	29	29	-16.1	81	Wed
555	2044-09-21	Wed	11.1	27.3	11	Qdh	30	29.5	Thu	15.0	26.0	Thu	30	29	-40	-121	14.8	25.8	Thu	30	29	-36.9	-118.3	11.3	22.4	Thu	30	29	-43.4	-66.2	Fri
556	2044-10-20	Thu	23.6	26.9	12	Hjh	31	29.6	Sat	14.3	37.9	Sat	30	29	-49.5	71.9	14.0	37.6	Sat	30	29	-49	76.3	9.8	33.4	Sat	29	29	-57.1	144.4	Sat
557	2044-11-19	Sat	15.0	26.6	1	Mhr	31	29.7	Mon	14.2	29.1	Mon	29	29	-43.2	-149.5	13.7	28.6	Mon	29	29	-43.6	-141.4	8.5	23.5	Sun	30	30	-55.3	-52.5	Mon
558	2044-12-19	Mon	8.9	26.7	2	Sfr	31	29.8	Wed	15.9	24.8	Tue	30	30	-30	-87.2	15.2	24.1	Tue	30	30	-28.1	-77	10.3	19.2	Tue	30	30	-37.2	2.5	Wed
559	2045-01-18	Wed	4.4	27	3	Rb1	30	29.8	Thu	18.1	22.5	Thu	30	29	0.5	-64.1	17.4	21.8	Thu	30	29	-2	-53.3	13.3	17.7	Thu	30	29	-6	9.6	Thu
560	2045-02-16	Thu	23.8	27.3	4	Rb2	31	29.7	Sat	18.2	42.1	Sat	30	29	26.8	-2.7	17.7	41.5	Sat	30	29	25.4	5.6	14	37.8	Sat	30	29	27.2	60.6	Sat
561	2045-03-18	Sat	17.2	27.5	5	Jm1	31	29.6	Mon	16.2	33.4	Mon	29	29	47.8	131.6	15.8	33.0	Mon	29	29	46.2	137.5	11.9	29.2	Mon	29	29	52.8	-164.9	Mon
562	2045-04-17	Mon	7.4	27.7	6	Jm2	30	29.5	Tue	13.6	21.0	Tue	30	29	53.9	-28.3	13.3	20.8	Tue	30	29	53.9	-24.7	8.9	16.4	Tue	29	29	60	45.2	Tue
563	2045-05-16	Tue	18.4	27.9	7	Rjb	31	29.4	Thu	12.3	30.7	Thu	29	29	46.9	-168.1	12.1	30.5	Thu	29	29	47.6	-165	7.5	25.9	Wed	30	30	58.9	-81.6	Thu
564	2045-06-15	Thu	3.1	28.1	8	Shn	30	29.3	Fri	12.7	15.8	Fri	29	29	27.4	47.1	12.6	15.7	Fri	29	29	29.8	50	8.7	11.8	Fri	29	29	37.8	114.5	Fri
565	2045-07-14	Fri	10.5	28.1	9	Rmd	30	29.3	Sat	13.7	24.1	Sat	30	29	3.6	-88.2	13.6	24.1	Sat	30	29	5.3	-86.8	10.4	20.8	Sat	30	29	10.1	-35.8	Sun
566	2045-08-12	Sat	17.6	27.9	10	Shl	31	29.3	Mon	13.9	31.5	Mon	29	29	-21.5	153.5	13.9	31.5	Mon	29	29	-20.7	154.1	10.8	28.4	Mon	29	29	-21.5	-160.4	Mon
567	2045-09-11	Mon	1.5	27.5	11	Qdh	30	29.4	Tue	13.1	14.6	Tue	29	29	-45	47.5	13.1	14.6	Tue	29	29	-42.6	47.8	9.8	11.2	Tue	29	29	-49.9	96.6	Tue
568	2045-10-10	Tue	10.6	27	12	Hjh	30	29.5	Wed	12.2	22.8	Wed	30	29	-53.7	-63.6	12.1	22.7	Wed	30	29	-54	-63	8.1	18.7	Wed	30	29	-60	0.2	Thu
569	2045-11-08	Wed	21.8	26.7	1	Mhr	31	29.6	Fri	12.5	34.3	Fri	29	29	-47	131.9	12.3	34.1	Fri	29	29	-47.7	135.7	7.5	29.3	Fri	29	29	-60	-139.2	Fri
570	2045-12-08	Fri	11.7	26.6	2	Sfr	31	29.7	Sun	14.9	26.6	Sat	30	30	-27	-117.3	14.5	26.1	Sat	30	30	-30.2	-108.6	10.1	21.8	Sat	30	30	-38.3	-37.5	Sun

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
571	2046-01-07	Sun	4.4	26.9	3	Rb1	30	29.8	Mon	17.7	22.0	Mon	30	29	-0.7	-57.9	17.1	21.5	Mon	30	29	-3.3	-48.7	13.3	17.7	Mon	30	29	-3.7	9.1	Mon
572	2046-02-05	Mon	23.2	27.2	4	Rb2	31	29.8	Wed	18.5	41.6	Wed	30	29	28.1	1.9	17.9	41.0	Wed	30	29	27.6	10.5	14.1	37.3	Wed	30	29	28	67.1	Wed
573	2046-03-07	Wed	18.3	27.5	5	Jm1	31	29.7	Fri	16.9	35.1	Fri	29	29	51.5	100.9	16.3	34.6	Fri	29	29	49.6	109.7	12.1	30.4	Fri	29	29	57.8	171.2	Fri
574	2046-04-06	Fri	11.9	27.6	6	Jm2	31	29.6	Sun	14.7	26.6	Sat	30	30	59.5	-114.8	14.2	26.1	Sat	30	30	59.1	-107.5	9.5	21.3	Sat	30	30	60	-35.6	Sun
575	2046-05-06	Sun	2.9	27.8	7	Rjb	30	29.5	Mon	14.3	17.2	Mon	30	29	40	26.5	13.7	16.6	Mon	30	29	49.8	42.7	9.7	12.6	Mon	29	29	40	95.3	Mon
576	2046-06-04	Mon	15.4	28	8	Shn	31	29.4	Wed	14.8	30.2	Wed	29	29	28.7	-168.9	14.5	29.8	Wed	29	29	29.6	-163.3	10.4	25.8	Tue	30	30	36.6	-97.8	Wed
577	2046-07-04	Wed	1.6	28.1	9	Rmd	30	29.4	Thu	15.1	16.8	Thu	29	29	1.3	21.2	15.0	16.6	Thu	29	29	4.8	25.2	11.6	13.2	Thu	29	29	5.5	76.2	Thu
578	2046-08-02	Thu	10.4	28	10	Shl	30	29.3	Fri	14.3	24.7	Fri	30	29	-25	-106.3	14.2	24.6	Fri	30	29	-20.8	-103.9	11.1	21.5	Fri	29	29	-25.2	-58.1	Sat
579	2046-08-31	Fri	18.4	27.6	11	Qdh	31	29.3	Sun	11.9	30.3	Sun	29	29	-33	0	11.9	30.3	Sun	29	29	-33	0	9.2	27.6	Sat	30	30	-53.1	-153.8	Sun
580	2046-09-30	Sun	2.4	27.2	12	Hjh	30	29.4	Mon	11.1	13.5	Mon	29	29	-59	71.5	11.2	13.6	Mon	29	29	-57.9	69.3	7.3	9.8	Mon	29	29	-59.8	127.8	Mon
581	2046-10-29	Mon	11.3	26.8	1	Mhr	30	29.4	Tue	11.4	22.7	Tue	30	29	-50.5	-55.2	11.4	22.7	Tue	30	29	-52.3	-54.2	7	18.3	Tue	30	29	-60	18.7	Wed
582	2046-11-27	Tue	21.8	26.6	2	Sfr	31	29.5	Thu	13.6	35.4	Thu	29	29	-29.6	109.8	13.4	35.3	Thu	29	29	-30.3	112.3	9.6	31.4	Thu	29	29	-36.6	173.4	Thu
583	2046-12-27	Thu	10.6	26.8	3	Rb1	31	29.6	Sat	15.9	26.5	Fri	30	30	0	-126.9	15.6	26.3	Fri	30	30	-0.6	-122.6	12.2	22.8	Fri	30	30	-4.3	-69.1	Sat
584	2047-01-26	Sat	1.7	27.1	4	Rb2	30	29.7	Sun	16.7	18.4	Sun	30	29	27.8	-12.2	16.3	18.0	Sun	30	29	27	-6.2	12.7	14.5	Sun	30	29	30.2	46.1	Sun
585	2047-02-24	Sun	18.4	27.4	5	Jm1	31	29.7	Tue	15.8	34.2	Tue	29	29	50	110.2	15.3	33.8	Tue	29	29	51.5	116.7	11.1	29.5	Tue	29	29	60	176.7	Tue
586	2047-03-26	Tue	11.7	27.6	6	Jm2	31	29.7	Thu	14.7	26.5	Wed	30	30	60	-119.5	14.2	25.9	Wed	30	30	60	-111.2	9.4	21.1	Wed	30	30	60	-39.1	Thu
587	2047-04-25	Thu	4.7	27.7	7	Rjb	30	29.7	Fri	15.4	20.1	Fri	30	29	50	-13.4	14.8	19.4	Fri	30	29	54.4	-1.1	9.5	14.2	Fri	30	29	60	82.7	Fri
588	2047-05-24	Fri	20.5	27.9	8	Shn	31	29.6	Sun	17.0	37.4	Sun	29	29	27	80.4	16.4	36.9	Sun	29	29	30.2	90.4	12.2	32.6	Sun	29	29	35.6	156.9	Sun
589	2047-06-23	Sun	10.6	28.1	9	Rmd	30	29.5	Mon	17.2	27.8	Mon	30	29	1.6	-145.2	16.8	27.4	Mon	30	29	2.3	-138.4	13.2	23.8	Mon	30	29	5.4	-83.4	Tue
590	2047-07-22	Mon	22.8	28.1	10	Shl	31	29.4	Wed	15.7	38.5	Wed	29	29	-26.1	44.7	15.4	38.2	Wed	29	29	-24.8	49.4	12	34.8	Wed	29	29	-28.5	99.6	Wed
591	2047-08-21	Wed	9.3	27.8	11	Qdh	30	29.4	Thu	13.3	22.5	Thu	30	29	-48.4	-79.9	13.2	22.5	Thu	30	29	-45	-77	9.4	18.6	Thu	29	29	-57	-26	Fri
592	2047-09-19	Thu	18.5	27.3	12	Hjh	31	29.4	Sat	11.5	30.0	Sat	29	29	-60	178.7	11.5	30.0	Sat	29	29	-57.8	177.8	7.5	26.0	Fri	30	30	-59.6	-122.4	Sat
593	2047-10-19	Sat	3.5	26.9	1	Mhr	30	29.4	Sun	11.6	15.0	Sun	29	29	-52.9	56	11.6	15.1	Sun	29	29	-52.1	54.5	7.4	10.9	Sun	29	29	-59.7	122.4	Sun
594	2047-11-17	Sun	13.0	26.6	2	Sfr	30	29.4	Mon	13.2	26.1	Mon	30	29	-30.4	-112.9	13.2	26.1	Mon	30	29	-30.8	-112.6	9.7	22.6	Mon	30	29	-35.8	-57.6	Tue
595	2047-12-16	Mon	23.6	26.7	3	Rb1	31	29.5	Wed	14.4	38.0	Wed	29	29	-0.5	59.7	14.4	38.0	Wed	29	29	-0.5	60.6	11.2	34.8	Wed	29	29	-0.9	107.8	Wed
596	2048-01-15	Wed	11.5	27	4	Rb2	31	29.5	Fri	14.4	25.9	Thu	30	30	28.2	-126.9	14.2	25.8	Thu	30	30	26.4	-124	10.9	22.4	Thu	30	30	31.8	-76.9	Fri
597	2048-02-14	Fri	0.5	27.3	5	Jm1	30	29.6	Sat	13.5	14.0	Sat	30	29	52.1	47	13.3	13.8	Sat	30	29	50.5	51.2	9.2	9.7	Sat	29	29	60	105.9	Sat
598	2048-03-14	Sat	14.5	27.5	6	Jm2	31	29.6	Mon	13.4	27.9	Mon	29	29	60	-147.3	13.1	27.5	Mon	29	29	60	-142.1	8.5	23.0	Sun	30	30	60	-74.1	Mon
599	2048-04-13	Mon	5.3	27.7	7	Rjb	30	29.7	Tue	15.3	20.6	Tue	30	29	52.2	-24.6	14.7	20.0	Tue	30	29	53.6	-15.7	9.8	15.1	Tue	30	29	60	61.7	Tue
600	2048-05-12	Tue	21.0	27.8	8	Shn	31	29.7	Thu	17.7	38.7	Thu	30	29	28.1	59.9	17.1	38.1	Thu	30	29	31.2	70.3	13	33.9	Thu	29	29	34.9	134.6	Thu
601	2048-06-11	Thu	12.8	28	9	Rmd	31	29.6	Sat	18.6	31.4	Sat	29	29	0.3	160.3	18.0	30.8	Sat	29	29	0	168.7	14.2	27.0	Fri	30	30	3.4	-133.3	Sat
602	2048-07-11	Sat	4.1	28.1	10	Shl	30	29.6	Sun	17.1	21.2	Sun	30	29	-25.6	-56.3	16.6	20.6	Sun	30	29	-25	-48.1	12.8	16.8	Sun	29	29	-28.4	7.6	Sun
603	2048-08-09	Sun	18.0	27.9	11	Qdh	31	29.5	Tue	14.6	32.6	Tue	29	29	-49.7	125.5	14.2	32.2	Tue	29	29	-47	133	9.8	27.8	Mon	30	30	-59.1	-170.9	Tue
604	2048-09-08	Tue	6.4	27.5	12	Hjh	30	29.5	Wed	12.8	19.2	Wed	30	29	-59.9	-26.8	12.6	19.0	Wed	30	29	-58.9	-23.2	8.2	14.6	Wed	29	29	-59.7	42.2	Wed
605	2048-10-07	Wed	17.7	27.1	1	Mhr	31	29.5	Fri	13.0	30.8	Fri	29	29	-52.2	174.7	12.9	30.7	Fri	29	29	-53.6	176.9	8.6	26.4	Thu	30	30	-59.5	-116.7	Fri
606	2048-11-06	Fri	4.6	26.7	2	Sfr	30	29.5	Sat	14.1	18.7	Sat	30	29	-28.3	-4.2	14.0	18.6	Sat	30	29	-30.9	-1.8	10.5	15.2	Sat	29	29	-35.3	51.7	Sat
607	2048-12-05	Sat	15.5	26.6	3	Rb1	31	29.5	Mon	14.2	29.7	Mon	29	29	1	-176.7	14.1	29.6	Mon	29	29	-2	-174.8	11.1	26.6	Sun	30	30	-0.1	-129.9	Mon
608	2049-01-04	Mon	2.4	26.9	4	Rb2	30	29.5	Tue	13.1	15.5	Tue	29	29	28.2	27.6	13.1	15.5	Tue	29	29	27.9	27.8	9.8	12.2	Tue	29	29	31.2	74.7	Tue

Moon Data									R29	Yalop							SAAO						Odeh						R19h		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
609	2049-02-02	Tue	13.3	27.2	5	Jm1	31	29.5	Thu	11.7	24.9	Wed	30	30	52.7	-122	11.7	24.9	Wed	30	30	49.3	-119.4	7.7	21.0	Wed	30	30	60	-69.7	Thu
610	2049-03-04	Thu	0.2	27.4	6	Jm2	30	29.5	Fri	11.8	12.0	Fri	29	29	60	84.3	11.7	11.9	Fri	29	29	60	85.2	7.5	7.7	Fri	29	29	60	148.6	Fri
611	2049-04-02	Fri	11.6	27.6	7	Rjb	31	29.5	Sun	14.1	25.7	Sat	30	30	51.7	-106.4	13.8	25.4	Sat	30	30	51.5	-102.6	9.5	21.1	Sat	30	30	60	-35.3	Sun
612	2049-05-02	Sun	0.2	27.8	8	Shn	30	29.6	Mon	16.7	16.9	Mon	30	29	27.4	24.9	16.3	16.5	Mon	30	29	30.5	32.2	12.6	12.7	Mon	29	29	33.7	90.1	Mon
613	2049-05-31	Mon	14.0	28	9	Rmd	31	29.6	Wed	17.9	31.9	Wed	29	29	0	152	17.4	31.4	Wed	29	29	1	160.2	13.7	27.7	Tue	30	30	0.5	-144.9	Wed
614	2049-06-30	Wed	4.8	28.1	10	Shl	30	29.6	Thu	17.1	21.9	Thu	30	29	-24.9	-67.6	16.4	21.3	Thu	30	29	-25.1	-58.6	12.4	17.2	Thu	30	29	-30.1	-1	Thu
615	2049-07-29	Thu	20.1	28	11	Qdh	31	29.6	Sat	15.2	35.3	Sat	29	29	-47.4	81.8	14.6	34.7	Sat	29	29	-46.5	91.7	9.8	29.9	Sat	29	29	-58.2	153.2	Sat
616	2049-08-28	Sat	11.3	27.7	12	Hjh	31	29.6	Mon	14.4	25.7	Sun	30	30	-57.5	-128.4	13.9	25.2	Sun	30	30	-57.3	-120.2	8.9	20.2	Sun	30	30	-60	-48.2	Mon
617	2049-09-27	Mon	2.1	27.2	1	Mhr	30	29.6	Tue	15.2	17.3	Tue	30	29	-50.2	12.2	14.8	16.9	Tue	30	29	-50.6	18.4	10.3	12.4	Tue	30	29	-58.8	86.7	Tue
618	2049-10-26	Tue	16.2	26.8	2	Sfr	31	29.6	Thu	15.9	32.2	Thu	29	29	-30	151.9	15.7	31.9	Thu	29	29	-30	156.1	12.1	28.3	Thu	29	29	-32.4	-149.3	Thu
619	2049-11-25	Thu	5.6	26.6	3	Rb1	30	29.5	Fri	15.2	20.8	Fri	30	29	1.1	-44.6	15.0	20.6	Fri	30	29	-0.3	-41.5	11.8	17.4	Fri	30	29	1.3	6.2	Fri
620	2049-12-24	Fri	17.9	26.8	4	Rb2	31	29.5	Sun	13.2	31.0	Sun	29	29	26	153.3	13.1	31.0	Sun	29	29	25.6	154.7	9.7	27.6	Sun	29	29	33.3	-158.8	Sun
621	2050-01-23	Sun	4.9	27.1	5	Jm1	30	29.4	Mon	11.3	16.2	Mon	29	29	51.2	5.2	11.3	16.3	Mon	29	29	48.7	6.8	7.2	12.2	Mon	29	29	60	55.2	Mon
622	2050-02-21	Mon	15.0	27.4	6	Jm2	31	29.4	Wed	11.2	26.2	Tue	30	30	60	-136.2	11.3	26.3	Tue	30	30	57.7	-136	7.1	22.2	Tue	30	30	60	-75.7	Wed
623	2050-03-23	Wed	0.7	27.5	7	Rjb	30	29.4	Thu	13.1	13.7	Thu	29	29	49.2	68.2	13.0	13.7	Thu	29	29	48.2	68.7	9.3	9.9	Thu	29	29	60	126.1	Thu
624	2050-04-21	Thu	10.4	27.7	8	Shn	30	29.4	Fri	15.1	25.5	Fri	30	29	26.9	-105.5	14.9	25.3	Fri	30	29	27.4	-102.8	11.6	22.0	Fri	30	29	30.2	-51.9	Sat
625	2050-05-20	Fri	20.8	27.9	9	Rmd	31	29.5	Sun	15.8	36.7	Sun	29	29	0	80.1	15.5	36.4	Sun	29	29	1.1	85	12.1	33.0	Sun	29	29	-0.7	135.3	Sun
626	2050-06-19	Sun	8.4	28.1	10	Shl	30	29.5	Mon	15.3	23.6	Mon	30	29	-24.6	-94.4	14.8	23.2	Mon	30	29	-23.2	-87.1	10.9	19.3	Mon	30	29	-28.9	-31.4	Mon
627	2050-07-18	Mon	21.3	28.1	11	Qdh	31	29.6	Wed	14.4	35.7	Wed	29	29	-44.9	75.5	13.8	35.1	Wed	29	29	-42.9	85.5	8.9	30.2	Wed	29	29	-56.5	145.4	Wed
628	2050-08-17	Wed	11.8	27.8	12	Hjh	31	29.7	Fri	14.9	26.7	Thu	30	30	-52.9	-145.8	14.3	26.0	Thu	30	30	-53	-136.1	9.1	20.9	Thu	30	30	-60	-64.4	Fri
629	2050-09-16	Fri	3.8	27.4	1	Mhr	30	29.7	Sat	16.9	20.7	Sat	30	29	-47	-42.9	16.3	20.1	Sat	30	29	-46	-33.8	11.7	15.5	Sat	30	29	-55.5	33.6	Sat
630	2050-10-15	Sat	20.8	26.9	2	Sfr	31	29.7	Mon	18.0	38.8	Mon	30	29	-26.6	49.5	17.5	38.3	Mon	30	29	-25.4	56.9	13.7	34.5	Mon	30	29	-30	114.9	Mon
631	2050-11-14	Mon	13.7	26.7	3	Rb1	31	29.7	Wed	17.0	30.6	Wed	29	29	-0.7	167.7	16.6	30.2	Wed	29	29	-0.2	173.7	13	26.7	Wed	29	29	2.3	-133.7	Wed
632	2050-12-14	Wed	5.3	26.7	4	Rb2	30	29.6	Thu	14.4	19.7	Thu	30	29	25.6	-37.5	14.1	19.4	Thu	30	29	24.6	-32.5	10.3	15.6	Thu	29	29	32.3	20.5	Thu
633	2051-01-12	Thu	19.0	26.9	5	Jm1	31	29.5	Sat	12.2	31.1	Sat	29	29	45.4	142.9	12.0	31.0	Sat	29	29	44.9	145.2	7.6	26.6	Fri	30	30	57.9	-163.6	Sat
634	2051-02-11	Sat	6.7	27.3	6	Jm2	30	29.4	Sun	11.9	18.6	Sun	30	29	55.2	-24.8	11.9	18.6	Sun	30	29	52.6	-22.9	7.7	14.4	Sun	29	29	60	34.5	Sun
635	2051-03-12	Sun	16.9	27.5	7	Rjb	31	29.4	Tue	13.1	30.0	Tue	29	29	47.2	179.9	13.1	30.0	Tue	29	29	44.8	-179.9	9.6	26.5	Mon	30	30	52.9	-128.1	Tue
636	2051-04-11	Tue	2.0	27.6	8	Shn	30	29.4	Wed	14.0	16.0	Wed	29	29	23.7	34.6	14.0	16.0	Wed	29	29	23	35	10.9	12.9	Wed	29	29	28.4	82.1	Wed
637	2051-05-10	Wed	10.5	27.8	9	Rmd	30	29.4	Thu	13.8	24.3	Thu	30	29	-1.7	-95.2	13.7	24.2	Thu	30	29	0.7	-93.1	10.5	21.0	Thu	29	29	-3.6	-46.6	Fri
638	2051-06-08	Thu	19.0	28	10	Shl	31	29.4	Sat	13.0	31.9	Sat	29	29	-22.6	141.7	12.8	31.7	Sat	29	29	-21.7	145.2	9	28.0	Fri	30	30	-29.7	-162.8	Sat
639	2051-07-08	Sat	4.2	28.1	11	Qdh	30	29.5	Sun	12.6	16.8	Sun	30	29	-40.7	-0.3	12.3	16.5	Sun	30	29	-40	5.2	7.7	11.9	Sun	29	29	-51.6	63.6	Sun
640	2051-08-06	Sun	15.1	28	12	Hjh	31	29.6	Tue	14.0	29.1	Tue	29	29	-48.8	176.4	13.6	28.7	Tue	29	29	-47.6	-176.2	8.7	23.8	Mon	30	30	-59.9	-114.9	Tue
641	2051-09-05	Tue	4.6	27.6	1	Mhr	30	29.7	Wed	16.7	21.3	Wed	30	29	-42.6	-55.1	16.2	20.8	Wed	30	29	-42	-46.9	12	16.6	Wed	30	29	-48.8	14.9	Wed
642	2051-10-04	Wed	20.8	27.1	2	Sfr	31	29.8	Fri	18.6	39.4	Fri	30	29	-22.8	39.2	18.0	38.8	Fri	30	29	-21.2	47.6	14.2	35.0	Fri	30	29	-25	105.5	Fri
643	2051-11-03	Fri	15.0	26.7	3	Rb1	31	29.8	Sun	18.0	33.0	Sun	29	29	0	131.7	17.4	32.4	Sun	29	29	-1	141.3	13.5	28.6	Sun	29	29	4	-162.6	Sun
644	2051-12-03	Sun	9.6	26.6	4	Rb2	31	29.7	Tue	15.7	25.3	Mon	30	30	24.5	-121.9	15.1	24.7	Mon	30	30	23	-112.1	10.7	20.4	Mon	30	30	32.4	-52	Tue
645	2052-01-02	Tue	3.1	26.8	5	Jm1	30	29.6	Wed	13.8	16.9	Wed	30	29	40.4	-2.6	13.3	16.4	Wed	30	29	39.6	5.1	8.4	11.5	Wed	30	29	52.7	66	Wed
646	2052-01-31	Wed	18.5	27.2	6	Jm2	31	29.5	Fri	13.8	32.3	Fri	29	29	46.7	130.8	13.5	32.1	Fri	29	29	46	135.1	9.1	27.6	Fri	29	29	57.6	-168.7	Fri

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
647	2052-03-01	Fri	7.6	27.4	7	Rjb	30	29.5	Sat	14.5	22.1	Sat	30	29	39.9	-63.9	14.4	22.0	Sat	30	29	38	-61.6	10.9	18.5	Sat	30	29	45.7	-10.5	Sat
648	2052-03-30	Sat	18.5	27.6	8	Shn	31	29.4	Mon	14.3	32.8	Mon	29	29	20.2	141.7	14.3	32.7	Mon	29	29	21.7	142.7	11.2	29.6	Mon	29	29	22.5	-170.8	Mon
649	2052-04-29	Mon	3.4	27.8	9	Rmd	30	29.3	Tue	13.1	16.4	Tue	29	29	-1.6	23.4	13.0	16.4	Tue	29	29	-0.2	24.4	9.8	13.2	Tue	29	29	-4.8	70.9	Tue
650	2052-05-28	Tue	10.9	28	10	Shl	30	29.3	Wed	11.6	22.5	Wed	30	29	-22.9	-76.3	11.6	22.4	Wed	30	29	-21.3	-74.7	7.8	18.7	Wed	29	29	-32.5	-24.3	Thu
651	2052-06-26	Wed	17.9	28.1	11	Qdh	31	29.3	Fri	11.3	29.1	Fri	29	29	-38	175.5	11.2	29.0	Fri	29	29	-37	177.5	6.8	24.7	Thu	30	30	-48.9	-127.6	Fri
652	2052-07-26	Fri	1.5	28	12	Hjh	30	29.4	Sat	12.8	14.4	Sat	29	29	-41.4	39.3	12.7	14.2	Sat	29	29	-39.9	42.8	8.5	10.0	Sat	29	29	-52	96.6	Sat
653	2052-08-24	Sat	11.1	27.7	1	Mhr	30	29.5	Sun	15.4	26.5	Sun	30	29	-34.2	-133.5	15.1	26.2	Sun	30	29	-35.1	-129.2	11.4	22.5	Sun	30	29	-42.8	-75.7	Mon
654	2052-09-22	Sun	23.6	27.3	2	Sfr	31	29.6	Tue	17.1	40.7	Tue	30	29	-19.1	18.5	16.7	40.3	Tue	30	29	-20.3	25	13.2	36.7	Tue	30	29	-20	78.3	Tue
655	2052-10-22	Tue	15.1	26.8	3	Rb1	31	29.7	Thu	17.1	32.2	Thu	29	29	0.3	144.3	16.5	31.6	Thu	29	29	1.8	152.5	12.7	27.8	Thu	29	29	6.5	-150.8	Thu
656	2052-11-21	Thu	9.1	26.6	4	Rb2	31	29.8	Sat	15.7	24.8	Fri	30	30	22.1	-113	15.0	24.1	Fri	30	30	21.4	-101.9	10.4	19.5	Fri	30	30	31.9	-37.5	Sat
657	2052-12-21	Sat	4.3	26.7	5	Jm1	30	29.8	Sun	15.0	19.3	Sun	30	29	37.1	-37.8	14.3	18.6	Sun	30	29	37	-26.8	9	13.3	Sun	30	29	49.2	41.6	Sun
658	2053-01-19	Sun	23.2	27	6	Jm2	31	29.7	Tue	16.0	39.2	Tue	30	29	40	27.9	15.4	38.7	Tue	30	29	39	37	10.9	34.1	Tue	30	29	50.4	96.8	Tue
659	2053-02-18	Tue	16.5	27.3	7	Rjb	31	29.6	Thu	16.7	33.3	Thu	29	29	32.8	128	16.4	32.9	Thu	29	29	32.6	133.7	12.7	29.2	Thu	29	29	36.6	-171.8	Thu
660	2053-03-20	Thu	7.2	27.5	8	Shn	30	29.5	Fri	15.8	23.0	Fri	30	29	16.6	-72.1	15.5	22.7	Fri	30	29	16.2	-68.3	12.2	19.4	Fri	30	29	16.8	-18.4	Fri
661	2053-04-18	Fri	18.8	27.7	9	Rmd	31	29.4	Sun	13.7	32.5	Sun	29	29	-1.9	143	13.5	32.3	Sun	29	29	-4	145.5	10	28.8	Sun	29	29	-9.4	-163.9	Sun
662	2053-05-18	Sun	3.7	27.9	10	Shl	30	29.3	Mon	11.7	15.4	Mon	29	29	-20	31.3	11.6	15.3	Mon	29	29	-21.2	32.7	7.6	11.4	Mon	29	29	-32.6	86.7	Mon
663	2053-06-16	Mon	10.9	28.1	11	Qdh	30	29.3	Tue	11.2	22.1	Tue	30	29	-33.4	-76	11.1	22.0	Tue	30	29	-31.1	-74	6.9	17.8	Tue	29	29	-45.4	-21.3	Wed
664	2053-07-15	Tue	17.5	28.1	12	Hjh	31	29.3	Thu	12.4	29.9	Thu	29	29	-34.5	169	12.4	29.8	Thu	29	29	-33.9	169.8	8.6	26.1	Wed	30	30	-43.5	-140.3	Thu
665	2053-08-14	Thu	0.7	27.9	1	Mhr	30	29.4	Fri	14.1	14.8	Fri	29	29	-29.6	42	14.0	14.7	Fri	29	29	-27.8	43.7	10.7	11.4	Fri	29	29	-34.2	91	Fri
666	2053-09-12	Fri	9.6	27.4	2	Sfr	30	29.5	Sat	15.0	24.6	Sat	30	29	-14.4	-100.4	14.8	24.4	Sat	30	29	-16	-97.6	11.6	21.2	Sat	30	29	-15	-49	Sun
667	2053-10-11	Sat	20.9	27	3	Rb1	31	29.6	Mon	14.8	35.7	Mon	29	29	2.7	91.7	14.4	35.3	Mon	29	29	3.5	96.7	10.8	31.7	Mon	29	29	9.4	150.6	Mon
668	2053-11-10	Mon	10.9	26.7	4	Rb2	31	29.7	Wed	14.2	25.1	Tue	30	30	19.2	-116.4	13.6	24.6	Tue	30	30	19.2	-108.1	9.2	20.1	Tue	30	30	32.6	-45.9	Wed
669	2053-12-10	Wed	3.7	26.7	5	Jm1	30	29.8	Thu	14.8	18.5	Thu	30	29	30.6	-23.1	14.1	17.8	Thu	30	29	30.4	-12.5	9	12.7	Thu	30	29	42.8	55.5	Thu
670	2054-01-08	Thu	22.6	26.9	6	Jm2	31	29.8	Sat	17.1	39.6	Sat	30	29	32.4	23.3	16.4	39.0	Sat	30	29	31.9	33.7	11.9	34.5	Sat	30	29	39.6	96.5	Sat
671	2054-02-07	Sat	18.3	27.2	7	Rjb	31	29.8	Mon	18.5	36.7	Mon	30	29	25.6	76.1	17.9	36.2	Mon	30	29	24.2	85.3	14.1	32.3	Mon	29	29	29.3	141.4	Mon
672	2054-03-09	Mon	12.8	27.5	8	Shn	31	29.7	Wed	17.5	30.3	Wed	29	29	11.4	178.4	17.0	29.8	Wed	29	29	10	-173.9	13.3	26.1	Tue	30	30	10	-118.8	Wed
673	2054-04-08	Wed	4.6	27.6	9	Rmd	30	29.5	Thu	15.0	19.6	Thu	30	29	-5	-22.9	14.6	19.1	Thu	30	29	-5	-16.3	10.6	15.2	Thu	29	29	-13.1	41.8	Thu
674	2054-05-07	Thu	17.0	27.8	10	Shl	31	29.4	Sat	12.9	29.9	Sat	29	29	-18	175.5	12.5	29.5	Sat	29	29	-19.5	-179.4	8.1	25.2	Fri	30	30	-31	-117.9	Sat
675	2054-06-06	Sat	2.7	28	11	Qdh	30	29.3	Sun	12.4	15.1	Sun	29	29	-25.5	32.6	12.2	14.9	Sun	29	29	-26.4	35.3	7.9	10.6	Sun	29	29	-38.2	92.5	Sun
676	2054-07-05	Sun	10.6	28.1	12	Hjh	30	29.3	Mon	13.2	23.8	Mon	30	29	-26.9	-96.8	13.1	23.7	Mon	30	29	-23.8	-94.5	9.5	20.1	Mon	30	29	-35	-46.6	Tue
677	2054-08-03	Mon	17.8	28	1	Mhr	31	29.3	Wed	13.9	31.7	Wed	29	29	-20.1	150.5	13.8	31.7	Wed	29	29	-19.4	151.2	10.7	28.6	Wed	29	29	-21.2	-162.8	Wed
678	2054-09-02	Wed	1.3	27.6	2	Sfr	30	29.4	Thu	13.6	15.0	Thu	29	29	-8.9	45.2	13.6	14.9	Thu	29	29	-8.9	46	10.5	11.8	Thu	29	29	-5	92.3	Thu
679	2054-10-01	Thu	9.8	27.1	3	Rb1	30	29.4	Fri	12.7	22.6	Fri	30	29	5.7	-70.6	12.6	22.4	Fri	30	29	7.4	-68.7	9.1	19.0	Fri	30	29	14	-16.9	Sat
680	2054-10-30	Fri	20.0	26.8	4	Rb2	31	29.5	Sun	12.2	32.3	Sun	29	29	18.2	138.1	11.9	32.0	Sun	29	29	18.5	142.2	7.7	27.7	Sun	29	29	30.9	-157.8	Sun
681	2054-11-29	Sun	8.6	26.6	5	Jm1	30	29.6	Mon	13.5	22.1	Mon	30	29	25.5	-74.5	13.1	21.7	Mon	30	29	24	-67.4	8.6	17.2	Mon	30	29	37.8	-7.1	Tue
682	2054-12-28	Mon	23.9	26.8	6	Jm2	31	29.7	Wed	16.3	40.2	Wed	30	29	24.1	17.2	15.9	39.7	Wed	30	29	23.9	24.6	11.8	35.7	Wed	30	29	31.6	81.5	Wed
683	2055-01-27	Wed	17.7	27.1	7	Rjb	31	29.8	Fri	18.3	36.0	Fri	30	29	18.7	87.6	17.8	35.5	Fri	30	29	17.1	96.5	14	31.7	Fri	29	29	19.7	152	Fri
684	2055-02-26	Fri	12.7	27.4	8	Shn	31	29.8	Sun	18.0	30.7	Sun	29	29	10	172.6	17.3	30.0	Sun	29	29	4.8	-176.4	13.5	26.1	Sat	30	30	4	-118.5	Sun

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
685	2055-03-28	Sun	7.0	27.6	9	Rmd	30	29.7	Mon	15.9	23.0	Mon	30	29	-10	-73.1	15.2	22.3	Mon	30	29	-8.2	-62.2	10.8	17.9	Mon	30	29	-15.7	3.3	Mon
686	2055-04-26	Mon	23.3	27.7	10	Shl	31	29.6	Wed	14.4	37.7	Wed	29	29	-16.9	60.5	13.7	37.0	Wed	29	29	-17.9	70.4	8.8	32.1	Wed	29	29	-30.1	140.9	Wed
687	2055-05-26	Wed	13.0	27.9	11	Qdh	31	29.5	Fri	14.5	27.5	Thu	30	30	-20.4	-150	14.0	27.0	Thu	30	30	-18.9	-142.3	9.5	22.5	Thu	30	30	-29.5	-80	Fri
688	2055-06-25	Fri	0.3	28.1	12	Hjh	30	29.4	Sat	15.1	15.4	Sat	29	29	-16.5	33.2	14.8	15.1	Sat	29	29	-18	36.7	11.2	11.5	Sat	29	29	-24.8	88.2	Sat
689	2055-07-24	Sat	9.8	28.1	1	Mhr	30	29.4	Sun	14.9	24.7	Sun	30	29	-13.1	-102.7	14.7	24.6	Sun	30	29	-11.2	-100.1	11.6	21.4	Sun	30	29	-11.9	-52.4	Mon
690	2055-08-22	Sun	18.3	27.8	2	Sfr	31	29.3	Tue	13.6	31.9	Tue	29	29	-3.2	153	13.5	31.8	Tue	29	29	-2.4	154.4	10.4	28.6	Tue	29	29	2.2	-157.4	Tue
691	2055-09-21	Tue	2.4	27.3	3	Rb1	30	29.4	Wed	11.9	14.3	Wed	29	29	8	55.2	11.9	14.2	Wed	29	29	8	56.1	8.3	10.6	Wed	29	29	18.3	109.6	Wed
692	2055-10-20	Wed	10.9	26.9	4	Rb2	30	29.4	Thu	11.2	22.0	Thu	30	29	17.4	-66.5	11.1	21.9	Thu	30	29	17.1	-64.7	6.9	17.8	Thu	30	29	30.8	-5.8	Fri
693	2055-11-18	Thu	20.6	26.6	5	Jm1	31	29.5	Sat	12.4	33.0	Sat	29	29	20.8	124.5	12.2	32.8	Sat	29	29	17.8	128.3	8.2	28.8	Sat	29	29	30.7	-176.8	Sat
694	2055-12-18	Sat	8.3	26.7	6	Jm2	30	29.6	Sun	14.8	23.1	Sun	30	29	17.1	-84	14.6	22.9	Sun	30	29	14	-79.3	11	19.3	Sun	30	29	22.7	-30	Mon
695	2056-01-16	Sun	22.2	27	7	Rjb	31	29.7	Tue	16.5	38.7	Tue	30	29	10.8	49.3	16.1	38.3	Tue	30	29	10.3	54.4	12.7	34.9	Tue	29	29	13.1	104.7	Tue
696	2056-02-15	Tue	14.0	27.3	8	Shn	31	29.7	Thu	16.4	30.4	Thu	29	29	1.4	177.7	15.9	29.9	Thu	29	29	0	-174.5	12.2	26.2	Wed	30	30	-2.5	-117.7	Thu
697	2056-03-16	Thu	6.9	27.5	9	Rmd	30	29.7	Fri	15.3	22.2	Fri	30	29	-8	-59.9	14.6	21.5	Fri	30	29	-10	-49.4	10.1	16.9	Fri	30	29	-19.1	19.2	Fri
698	2056-04-14	Fri	23.9	27.7	10	Shl	31	29.7	Sun	15.0	38.9	Sun	30	29	-14.2	45.4	14.2	38.0	Sun	30	29	-14.8	57.5	9	32.9	Sun	29	29	-28.9	132.4	Sun
699	2056-05-14	Sun	16.1	27.9	11	Qdh	31	29.6	Tue	16.3	32.4	Tue	29	29	-13.7	139.1	15.6	31.7	Tue	29	29	-14.5	149.4	11	27.1	Mon	30	30	-23.3	-144.7	Tue
700	2056-06-13	Tue	7.1	28.1	12	Hjh	30	29.6	Wed	17.4	24.5	Wed	30	29	-8.1	-99.3	16.8	23.9	Wed	30	29	-8.8	-91.7	13	20.1	Wed	30	29	-14.2	-36.4	Wed
701	2056-07-12	Wed	20.4	28.1	1	Mhr	31	29.5	Fri	16.7	37.1	Fri	29	29	-4.4	74.7	16.3	36.7	Fri	29	29	-2.9	80.7	12.9	33.2	Fri	29	29	-1.5	133.1	Fri
702	2056-08-11	Fri	7.8	27.9	2	Sfr	30	29.4	Sat	14.7	22.5	Sat	30	29	3.7	-64.2	14.4	22.2	Sat	30	29	5.6	-59.7	10.9	18.7	Sat	29	29	8.5	-6.2	Sat
703	2056-09-09	Sat	17.8	27.5	3	Rb1	31	29.4	Mon	12.4	30.2	Mon	29	29	10.8	177.3	12.2	30.0	Mon	29	29	10.3	-179.6	8.3	26.1	Sun	30	30	21.7	-120.2	Mon
704	2056-10-09	Mon	3.0	27	4	Rb2	30	29.4	Tue	11.5	14.5	Tue	29	29	15.3	48.1	11.3	14.4	Tue	29	29	16.2	50.1	7.1	10.2	Tue	29	29	29.7	111.4	Tue
705	2056-11-07	Tue	12.4	26.7	5	Jm1	30	29.4	Wed	12.4	24.8	Wed	30	29	13.8	-109.1	12.3	24.7	Wed	30	29	13.7	-107.9	8.6	21.0	Wed	30	29	24.7	-55.4	Thu
706	2056-12-06	Wed	22.5	26.6	6	Jm2	31	29.5	Fri	13.9	36.5	Fri	29	29	8	78.6	13.9	36.4	Fri	29	29	7.8	79.4	10.6	33.2	Fri	29	29	11.2	126.6	Fri
707	2057-01-05	Fri	9.8	26.9	7	Rjb	30	29.5	Sat	14.5	24.4	Sat	30	29	3	-94.3	14.4	24.3	Sat	30	29	0.8	-91.7	11.3	21.1	Sat	30	29	0.1	-44.2	Sun
708	2057-02-03	Sat	22.2	27.2	8	Shn	31	29.6	Mon	14.0	36.2	Mon	29	29	-4.6	92.7	13.8	36.0	Mon	29	29	-6.4	96.9	10.2	32.4	Mon	29	29	-9.3	150.8	Mon
709	2057-03-05	Mon	11.4	27.4	9	Rmd	31	29.6	Wed	13.4	24.8	Tue	30	30	-9.9	-98.1	12.9	24.4	Tue	30	30	-12	-90.9	8.6	20.0	Tue	30	30	-21.7	-24.4	Wed
710	2057-04-04	Wed	1.5	27.6	10	Shl	30	29.6	Thu	14.2	15.8	Thu	30	29	-11.6	33.7	13.6	15.1	Thu	30	29	-12.5	43.2	8.7	10.3	Thu	30	29	-24.6	114.7	Thu
711	2057-05-03	Thu	16.6	27.8	11	Qdh	31	29.7	Sat	16.6	33.1	Sat	29	29	-6.6	131	15.9	32.5	Sat	29	29	-10	140.1	11.5	28.1	Sat	29	29	-15.5	-155.6	Sat
712	2057-06-02	Sat	8.2	28	12	Hjh	30	29.7	Sun	18.4	26.6	Sun	30	29	-1	-129.1	17.8	26.0	Sun	30	29	0	-119.7	13.9	22.1	Sun	30	29	-2.6	-62.5	Sun
713	2057-07-01	Sun	23.8	28.1	1	Mhr	31	29.6	Tue	18.1	41.9	Tue	30	29	4.4	5.4	17.5	41.3	Tue	30	29	6.4	14.7	13.8	37.6	Tue	29	29	7.9	71.3	Tue
714	2057-07-31	Tue	14.6	28	2	Sfr	31	29.6	Thu	16.0	30.5	Thu	29	29	10	177.5	15.4	30.0	Thu	29	29	11.3	-173.8	11.5	26.0	Wed	30	30	17.7	-112	Thu
715	2057-08-30	Thu	3.9	27.6	3	Rb1	30	29.5	Fri	13.7	17.7	Fri	30	29	14.5	8	13.2	17.2	Fri	30	29	16	15.8	8.8	12.7	Fri	29	29	24.8	84.4	Fri
716	2057-09-28	Fri	16.0	27.2	4	Rb2	31	29.5	Sun	13.0	29.0	Sun	29	29	12.1	-166.8	12.6	28.6	Sun	29	29	14.5	-161.5	8.1	24.1	Sat	30	30	27.6	-95	Sun
717	2057-10-28	Sun	3.3	26.8	5	Jm1	30	29.5	Mon	13.7	17.0	Mon	30	29	6.5	10.1	13.5	16.8	Mon	30	29	7	12.7	9.8	13.1	Mon	29	29	16.9	66.3	Mon
718	2057-11-26	Mon	14.4	26.6	6	Jm2	31	29.5	Wed	14.3	28.7	Wed	29	29	0.6	-162.9	14.2	28.6	Wed	29	29	-1.7	-160.9	11.1	25.5	Tue	30	30	2.2	-114.9	Wed
719	2057-12-26	Wed	1.4	26.8	7	Rjb	30	29.5	Thu	13.7	15.1	Thu	29	29	-7.2	47.4	13.7	15.1	Thu	29	29	-8.2	48.2	10.6	12.0	Thu	29	29	-8.7	94.6	Thu
720	2058-01-24	Thu	12.3	27.1	8	Shn	30	29.4	Fri	12.4	24.6	Fri	30	29	-9.8	-92.1	12.3	24.6	Fri	30	29	-11.6	-90.4	8.8	21.1	Fri	30	29	-19.4	-35.3	Sat
721	2058-02-22	Fri	23.0	27.4	9	Rmd	31	29.5	Sun	11.6	34.6	Sun	29	29	-13.3	117.7	11.4	34.4	Sun	29	29	-13.6	120.6	7.3	30.2	Sun	29	29	-26.2	-174.3	Sun
722	2058-03-24	Sun	9.9	27.5	10	Shl	30	29.5	Mon	12.9	22.7	Mon	30	29	-8.1	-68.5	12.5	22.4	Mon	30	29	-10.3	-63.5	8.2	18.1	Mon	30	29	-21.7	0.9	Tue

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
723	2058-04-22	Mon	21.5	27.7	11	Qdh	31	29.5	Wed	15.5	37.0	Wed	29	29	0.2	75.7	15.1	36.6	Wed	29	29	-0.8	81.8	11.2	32.7	Wed	29	29	-6.8	138.6	Wed
724	2058-05-22	Wed	10.4	27.9	12	Hjh	31	29.6	Fri	17.5	27.9	Thu	30	30	7.6	-145.5	17.0	27.4	Thu	30	30	9.5	-137.7	13.4	23.8	Thu	30	30	5	-84.6	Fri
725	2058-06-21	Fri	0.6	28.1	1	Mhr	30	29.6	Sat	17.6	18.3	Sat	30	29	13.4	3.6	17.1	17.7	Sat	30	29	14.5	12.5	13.3	13.9	Sat	29	29	15.3	69.8	Sat
726	2058-07-20	Sat	15.7	28.1	2	Sfr	31	29.6	Mon	16.2	31.9	Mon	29	29	15	160.1	15.5	31.2	Mon	29	29	18.2	171.5	11.2	26.9	Sun	30	30	24.9	-120.9	Mon
727	2058-08-19	Mon	7.1	27.8	3	Rb1	30	29.6	Tue	14.8	21.8	Tue	30	29	14.9	-52.4	14.0	21.1	Tue	30	29	19.1	-40.1	9	16.1	Tue	30	29	29.9	37.7	Tue
728	2058-09-17	Tue	22.3	27.4	4	Rb2	31	29.6	Thu	14.9	37.2	Thu	30	29	10.1	71.8	14.2	36.5	Thu	30	29	12.5	81.7	9.4	31.7	Thu	29	29	23.1	154.2	Thu
729	2058-10-17	Thu	13.1	26.9	5	Jm1	31	29.6	Sat	15.9	29.0	Sat	29	29	0	-167.2	15.4	28.5	Sat	29	29	1.8	-161.1	11.5	24.6	Fri	30	30	8.9	-103.6	Sat
730	2058-11-16	Sat	3.2	26.6	6	Jm2	30	29.5	Sun	15.8	19.0	Sun	30	29	-10	-14.5	15.6	18.8	Sun	30	29	-9.2	-11.4	12.3	15.4	Sun	30	29	-7.5	38.2	Sun
731	2058-12-15	Sun	16.2	26.7	7	Rjb	31	29.5	Tue	14.3	30.5	Tue	29	29	-14.1	178.2	14.2	30.4	Tue	29	29	-16.5	-178.9	10.9	27.1	Tue	29	29	-18.1	-129.2	Tue
732	2059-01-14	Tue	4.0	27	8	Shn	30	29.4	Wed	12.2	16.1	Wed	29	29	-17.6	38.3	12.1	16.1	Wed	29	29	-18.2	39.6	8.5	12.4	Wed	29	29	-25	97.1	Wed
733	2059-02-12	Wed	14.5	27.3	9	Rmd	31	29.4	Fri	11.1	25.5	Thu	30	30	-15.8	-104.7	11.0	25.4	Thu	30	30	-15.5	-103.4	6.8	21.3	Thu	30	30	-29.2	-37.4	Fri
734	2059-03-14	Fri	0.1	27.5	10	Shl	30	29.4	Sat	12.1	12.2	Sat	29	29	-5.8	90.6	11.9	12.1	Sat	29	29	-7.3	92.6	8.1	8.2	Sat	29	29	-17.3	151.5	Sat
735	2059-04-12	Sat	9.5	27.6	11	Qdh	30	29.4	Sun	14.1	23.6	Sun	30	29	7	-82.4	14.0	23.5	Sun	30	29	6.1	-80.1	10.6	20.1	Sun	30	29	1.4	-29.8	Mon
736	2059-05-11	Sun	19.3	27.8	12	Hjh	31	29.4	Tue	15.5	34.8	Tue	29	29	16.7	113.9	15.3	34.6	Tue	29	29	18	117.6	12	31.3	Tue	29	29	16.5	166.6	Tue
737	2059-06-10	Tue	6.0	28	1	Mhr	30	29.5	Wed	15.6	21.5	Wed	30	29	22.2	-42	15.2	21.2	Wed	30	29	23.8	-36	11.6	17.6	Wed	29	29	26.4	19.5	Wed
738	2059-07-09	Wed	18.0	28.1	2	Sfr	31	29.6	Fri	14.7	32.7	Fri	29	29	22.2	150.9	14.2	32.2	Fri	29	29	23	159.6	9.9	27.9	Thu	30	30	31.7	-131.2	Fri
739	2059-08-08	Fri	7.7	27.9	3	Rb1	30	29.6	Sat	14.5	22.1	Sat	30	29	19.1	-54	13.7	21.4	Sat	30	29	21.1	-41.9	8.6	16.3	Sat	30	29	31.8	38.2	Sat
740	2059-09-06	Sat	23.0	27.5	4	Rb2	31	29.7	Mon	15.9	39.0	Mon	30	29	10	46.7	15.1	38.2	Mon	30	29	10.1	59	10.3	33.3	Mon	30	29	21.8	132.6	Mon
741	2059-10-06	Mon	15.9	27.1	5	Jm1	31	29.7	Wed	17.8	33.6	Wed	30	29	-7	124.4	17.1	33.0	Wed	29	29	-6.3	133.9	13.1	28.9	Wed	29	29	0.5	-166.1	Wed
742	2059-11-05	Wed	9.2	26.7	6	Jm2	31	29.7	Fri	17.8	27.0	Fri	29	29	-18.5	-132.6	17.3	26.5	Thu	30	30	-17.3	-126.2	13.7	22.9	Thu	30	30	-15.6	-72.4	Fri
743	2059-12-05	Fri	1.8	26.6	7	Rjb	30	29.6	Sat	15.8	17.6	Sat	30	29	-21.4	13.9	15.4	17.3	Sat	30	29	-23.6	20.1	11.7	13.6	Sat	29	29	-27.5	77.3	Sat
744	2060-01-03	Sat	16.7	26.8	8	Shn	31	29.5	Mon	13.2	29.9	Mon	29	29	-22.3	-165.8	12.9	29.6	Mon	29	29	-24.1	-160.9	8.8	25.5	Sun	30	30	-32.1	-95.2	Mon
745	2060-02-02	Mon	5.4	27.2	9	Rmd	30	29.5	Tue	11.9	17.3	Tue	30	29	-17.6	20.3	11.7	17.1	Tue	30	29	-19.2	23.8	7.4	12.8	Tue	29	29	-30.1	92.7	Tue
746	2060-03-02	Tue	16.2	27.4	10	Shl	31	29.4	Thu	12.6	28.8	Thu	29	29	-3.2	-157.9	12.5	28.7	Thu	29	29	-4.1	-156.1	8.7	25.0	Wed	30	30	-14.2	-98.8	Thu
747	2060-04-01	Thu	1.7	27.6	11	Qdh	30	29.4	Fri	13.7	15.4	Fri	29	29	15	42.1	13.7	15.3	Fri	29	29	12	42.8	10.5	12.2	Fri	29	29	6	90	Fri
748	2060-04-30	Fri	10.2	27.8	12	Hjh	30	29.3	Sat	14.0	24.2	Sat	30	29	25.8	-85.4	14.0	24.2	Sat	30	29	26.4	-84.5	10.9	21.1	Sat	30	29	26.1	-38.2	Sun
749	2060-05-29	Sat	18.4	28	1	Mhr	31	29.4	Mon	13.3	31.7	Mon	29	29	29.8	167.7	13.2	31.6	Mon	29	29	30	169.2	9.8	28.2	Mon	29	29	36.3	-135.4	Mon
750	2060-06-28	Mon	3.0	28.1	2	Sfr	30	29.4	Tue	12.7	15.7	Tue	29	29	20	45.2	12.3	15.3	Tue	29	29	29.2	56.1	8.8	11.8	Tue	29	29	20	103.9	Tue
751	2060-07-27	Tue	12.9	28	3	Rb1	31	29.5	Thu	13.1	26.0	Wed	30	30	20.9	-109.3	12.6	25.5	Wed	30	30	21.7	-101.5	7.9	20.8	Wed	30	30	33.7	-25.6	Thu
752	2060-08-26	Thu	1.0	27.7	4	Rb2	30	29.6	Fri	15.4	16.3	Fri	30	29	7.1	27.4	14.8	15.7	Fri	30	29	9.1	36.8	10.4	11.3	Fri	30	29	16	104.5	Fri
753	2060-09-24	Fri	15.9	27.2	5	Jm1	31	29.7	Sun	17.9	33.8	Sun	30	29	-10	121.2	17.3	33.2	Sun	30	29	-10.5	130.6	13.4	29.3	Sun	29	29	-4.4	-171	Sun
754	2060-10-24	Sun	9.5	26.8	6	Jm2	31	29.8	Tue	18.6	28.0	Tue	29	29	-24.4	-147.9	18.0	27.5	Tue	29	29	-24	-139.5	14.2	23.7	Mon	30	30	-25.6	-82.1	Tue
755	2060-11-23	Tue	4.3	26.6	7	Rjb	30	29.8	Wed	16.9	21.2	Wed	30	29	-30.5	-37.3	16.3	20.6	Wed	30	29	-32.4	-27.8	12.2	16.5	Wed	30	29	-36.4	36	Wed
756	2060-12-22	Wed	22.7	26.7	8	Shn	31	29.7	Fri	14.6	37.3	Fri	30	29	-27.6	85.2	14.0	36.7	Fri	30	29	-30	94.9	9.3	32.0	Fri	29	29	-38.4	171.1	Fri
757	2061-01-21	Fri	15.3	27.1	9	Rmd	31	29.6	Sun	13.7	29.0	Sun	29	29	-17.9	-154.7	13.3	28.5	Sun	29	29	-20	-146.9	8.6	23.9	Sat	30	30	-31.1	-71.6	Sun
758	2061-02-20	Sun	5.6	27.3	10	Shl	30	29.5	Mon	14.3	19.9	Mon	30	29	-1	-23.7	14.1	19.6	Mon	30	29	-2.9	-19.2	10.2	15.8	Mon	30	29	-8.7	39.1	Mon
759	2061-03-21	Mon	17.4	27.5	11	Qdh	31	29.4	Wed	14.7	32.1	Wed	29	29	20.5	152	14.5	31.9	Wed	29	29	18.7	153.9	11.3	28.7	Wed	29	29	16.8	-158	Wed
760	2061-04-20	Wed	3.1	27.7	12	Hjh	30	29.3	Thu	13.8	16.9	Thu	29	29	31.8	25.2	13.8	16.9	Thu	29	29	33.6	25.8	10.6	13.7	Thu	29	29	33.8	72.8	Thu

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
761	2061-05-19	Thu	11.1	27.9	1	Mhr	30	29.3	Fri	12.2	23.3	Fri	30	29	36	-63.7	12.2	23.3	Fri	30	29	38.5	-62.5	8.8	19.8	Fri	29	29	45.4	-5.3	Sat
762	2061-06-17	Fri	18.1	28.1	2	Sfr	31	29.3	Sun	11.2	29.3	Sun	29	29	33.4	-150.8	11.1	29.2	Sun	29	29	34.8	-149.1	7	25.1	Sat	30	30	44.8	-79.6	Sun
763	2061-07-17	Sun	1.2	28.1	3	Rb1	30	29.4	Mon	11.8	13.0	Mon	29	29	22	86.1	11.6	12.8	Mon	29	29	23.3	89.5	7.4	8.6	Mon	29	29	35.7	159.9	Mon
764	2061-08-15	Mon	9.7	27.9	4	Rb2	30	29.5	Tue	14.1	23.8	Tue	30	29	5.4	-83.4	13.8	23.5	Tue	30	29	6.5	-78.6	9.9	19.6	Tue	30	29	12.8	-19.3	Wed
765	2061-09-13	Tue	20.7	27.4	5	Jm1	31	29.6	Thu	16.4	37.0	Thu	30	29	-16.5	73.2	16.0	36.7	Thu	30	29	-16.1	78.8	12.5	33.1	Thu	29	29	-12	132.2	Thu
766	2061-10-13	Thu	10.7	27	6	Jm2	31	29.7	Sat	17.3	28.0	Sat	29	29	-32	-147.2	16.8	27.5	Sat	29	29	-32.2	-140.4	13.2	23.9	Fri	30	30	-33.6	-85.1	Sat
767	2061-11-12	Sat	3.7	26.7	7	Rjb	30	29.8	Sun	16.4	20.1	Sun	30	29	-37.6	-19.5	15.8	19.5	Sun	30	29	-40	-9.7	11.6	15.2	Sun	30	29	-45.9	58.3	Sun
768	2061-12-11	Sun	22.6	26.7	8	Shn	31	29.8	Tue	15.1	37.7	Tue	30	29	-33.3	80.4	14.4	37.0	Tue	30	29	-37.1	93.9	9.3	31.9	Tue	30	29	-45.6	177.9	Tue
769	2062-01-10	Tue	17.9	26.9	9	Rmd	31	29.8	Thu	15.5	33.4	Thu	30	29	-19	140.4	14.7	32.6	Thu	30	29	-21.6	152.4	9.8	27.7	Thu	29	29	-32.6	-126.9	Thu
770	2062-02-09	Thu	12.2	27.3	10	Shl	31	29.7	Sat	16.6	28.8	Sat	29	29	2	-158.8	16.1	28.3	Sat	29	29	-0.1	-150.3	12.1	24.3	Fri	30	30	-6.5	-88.3	Sat
771	2062-03-11	Sat	4.2	27.5	11	Qdh	30	29.5	Sun	16.5	20.8	Sun	30	29	24.1	-39.7	16.2	20.5	Sun	30	29	23.3	-34.9	12.8	17.0	Sun	30	29	22.7	16.9	Sun
772	2062-04-09	Sun	17.3	27.6	12	Hjh	31	29.4	Tue	14.8	32.1	Tue	29	29	40.7	157.2	14.6	31.9	Tue	29	29	40	159.4	11.2	28.5	Tue	29	29	43.2	-148.7	Tue
773	2062-05-09	Tue	3.4	27.8	1	Mhr	30	29.3	Wed	12.5	15.9	Wed	29	29	44.2	50.2	12.4	15.8	Wed	29	29	44.9	51.3	8.6	12.0	Wed	29	29	52.8	114.7	Wed
774	2062-06-07	Wed	11.2	28	2	Sfr	30	29.3	Thu	11.1	22.4	Thu	30	29	37.8	-45.2	11.1	22.3	Thu	30	29	39.3	-43.7	6.8	18.1	Thu	29	29	49.3	29.6	Fri
775	2062-07-06	Thu	17.9	28.1	3	Rb1	31	29.3	Sat	11.6	29.5	Sat	29	29	22.7	-160.7	11.6	29.5	Sat	29	29	25.2	-158.6	7.6	25.5	Fri	30	30	34.6	-93	Sat
776	2062-08-05	Sat	0.7	28	4	Rb2	30	29.3	Sun	13.3	14.0	Sun	29	29	2.4	63.5	13.2	13.9	Sun	29	29	3.6	65.1	9.8	10.5	Sun	29	29	10.7	118.7	Sun
777	2062-09-03	Sun	8.7	27.6	5	Jm1	30	29.4	Mon	14.7	23.4	Mon	30	29	-19.2	-82.6	14.5	23.3	Mon	30	29	-17.9	-80.5	11.3	20.0	Mon	30	29	-18.2	-32.4	Tue
778	2062-10-02	Mon	18.9	27.1	6	Jm2	31	29.5	Wed	14.9	33.8	Wed	29	29	-36.7	125	14.7	33.6	Wed	29	29	-37.6	128.1	11.3	30.1	Wed	29	29	-42.9	-179.7	Wed
779	2062-11-01	Wed	7.6	26.7	7	Rjb	30	29.6	Thu	14.3	21.9	Thu	30	29	-43.4	-46.6	14.0	21.5	Thu	30	29	-45.6	-40.4	9.8	17.4	Thu	30	29	-55	29	Thu
780	2062-11-30	Thu	23.0	26.6	8	Shn	31	29.7	Sat	14.2	37.2	Sat	30	29	-37.3	88.1	13.6	36.7	Sat	30	29	-39.8	98.2	8.6	31.6	Sat	30	29	-51	-175.2	Sat
781	2062-12-30	Sat	17.0	26.8	9	Rmd	31	29.8	Mon	15.9	32.9	Mon	30	29	-20	147.6	15.2	32.1	Mon	30	29	-22.9	160.1	10.3	27.3	Mon	29	29	-32.9	-121	Mon
782	2063-01-29	Mon	12.4	27.1	10	Shl	31	29.8	Wed	18.1	30.5	Wed	29	29	2.5	176	17.4	29.8	Wed	29	29	1.5	-173.9	13.3	25.7	Tue	30	30	-3.4	-110.8	Wed
783	2063-02-28	Wed	7.7	27.4	11	Qdh	31	29.7	Fri	18.3	26.0	Thu	30	30	27.3	-119.3	17.8	25.4	Thu	30	30	27.2	-111.3	14.1	21.7	Thu	30	30	27.1	-55.5	Thu
784	2063-03-30	Fri	0.9	27.6	12	Hjh	30	29.6	Sat	16.3	17.1	Sat	30	29	44.7	19.1	15.9	16.8	Sat	30	29	45.9	25.2	12	12.9	Sat	29	29	51.4	84	Sat
785	2063-04-28	Sat	14.9	27.7	1	Mhr	31	29.5	Mon	13.7	28.6	Mon	29	29	51.2	-139.4	13.4	28.3	Mon	29	29	49.9	-136.1	9.2	24.0	Sun	30	30	60	-62.9	Mon
786	2063-05-28	Mon	1.8	28	2	Sfr	30	29.4	Tue	12.3	14.2	Tue	29	29	40.8	78.2	12.2	14.0	Tue	29	29	43.9	83.5	7.5	9.3	Tue	29	29	52.9	162.3	Tue
787	2063-06-26	Tue	10.5	28.1	3	Rb1	30	29.3	Wed	12.7	23.2	Wed	30	29	23.7	-65.1	12.6	23.1	Wed	30	29	25.7	-62.1	8.6	19.1	Wed	30	29	34.2	2.5	Thu
788	2063-07-25	Wed	17.9	28.1	4	Rb2	31	29.3	Fri	13.7	31.6	Fri	29	29	2.2	159.2	13.6	31.5	Fri	29	29	2.2	160.3	10.3	28.3	Fri	29	29	7.6	-148.6	Fri
789	2063-08-24	Fri	1.3	27.7	5	Jm1	30	29.3	Sat	13.9	15.2	Sat	29	29	-22.6	39	13.8	15.2	Sat	29	29	-22.3	39.5	10.8	12.1	Sat	29	29	-23	85.1	Sat
790	2063-09-22	Sat	9.4	27.3	6	Jm2	30	29.4	Sun	13.1	22.5	Sun	30	29	-44	-68.2	13.1	22.5	Sun	30	29	-43.1	-68.3	9.8	19.2	Sun	29	29	-49.1	-18.6	Mon
791	2063-10-21	Sun	18.8	26.9	7	Rjb	31	29.5	Tue	12.1	30.9	Tue	29	29	-52.2	178.4	12.1	30.9	Tue	29	29	-50.6	177.6	8	26.8	Mon	30	30	-59.9	-115	Tue
792	2063-11-20	Tue	6.2	26.6	8	Shn	30	29.6	Wed	12.5	18.6	Wed	30	29	-42	7	12.2	18.4	Wed	30	29	-44.6	12.6	7.5	13.7	Wed	30	29	-56.2	95.8	Wed
793	2063-12-19	Wed	20.1	26.7	9	Rmd	31	29.7	Fri	14.8	34.9	Fri	30	29	-22.5	117.1	14.4	34.5	Fri	30	29	-27	126.3	10	30.1	Fri	29	29	-33.9	-164.3	Fri
794	2064-01-18	Fri	12.6	27	10	Shl	31	29.8	Sun	17.6	30.2	Sun	29	29	3.4	179.3	17.0	29.7	Sun	29	29	1.9	-172.2	13.2	25.8	Sat	30	30	-0.6	-113.7	Sun
795	2064-02-17	Sun	7.1	27.3	11	Qdh	31	29.8	Tue	18.4	25.5	Mon	30	30	29.9	-114.4	17.8	24.9	Mon	30	30	29	-105.8	14.1	21.1	Mon	30	30	31.1	-49.8	Mon
796	2064-03-18	Tue	1.8	27.5	12	Hjh	30	29.7	Wed	16.9	18.7	Wed	30	29	50.4	-7.5	16.4	18.1	Wed	30	29	51.4	0.6	12.1	13.9	Wed	30	29	56.5	64	Wed
797	2064-04-16	Wed	19.1	27.7	1	Mhr	31	29.6	Fri	14.8	33.9	Fri	29	29	56.6	140.2	14.3	33.3	Fri	29	29	55.5	147.5	9.4	28.4	Fri	29	29	60	-135.7	Fri
798	2064-05-16	Fri	9.9	27.9	2	Sfr	30	29.5	Sat	14.2	24.1	Sat	30	29	44.5	-71.1	13.7	23.6	Sat	30	29	47.7	-61.4	8.6	18.6	Sat	30	29	56.3	24.3	Sun

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
799	2064-06-14	Sat	22.4	28.1	3	Rb1	31	29.4	Mon	14.9	37.2	Mon	29	29	25	84.3	14.5	36.9	Mon	29	29	26.2	90.5	10.4	32.8	Mon	29	29	32.9	156	Mon
800	2064-07-14	Mon	8.8	28.1	4	Rb2	30	29.4	Tue	15.2	24.0	Tue	30	29	-1.9	-88	15.0	23.8	Tue	30	29	1.2	-83.9	11.6	20.4	Tue	30	29	3	-32.3	Tue
801	2064-08-12	Tue	17.8	27.9	5	Jm1	31	29.3	Thu	14.4	32.2	Thu	29	29	-27.9	141.3	14.3	32.1	Thu	29	29	-27.5	142.6	11.1	29.0	Thu	29	29	-27.7	-170.2	Thu
802	2064-09-11	Thu	2.2	27.5	6	Jm2	30	29.3	Fri	12.7	14.9	Fri	29	29	-47	42.7	12.7	14.9	Fri	29	29	-45.1	42.3	9.3	11.5	Fri	29	29	-53.7	92.6	Fri
803	2064-10-10	Fri	10.6	27	7	Rjb	30	29.4	Sat	11.1	21.7	Sat	30	29	-57.7	-46.1	11.3	21.9	Sat	30	29	-55.2	-49.2	7.3	17.9	Sat	30	29	-59.9	12.3	Sun
804	2064-11-08	Sat	19.8	26.7	8	Shn	31	29.4	Mon	11.4	31.2	Mon	29	29	-45.9	178.5	11.4	31.2	Mon	29	29	-48.2	-179.8	6.9	26.7	Mon	29	29	-59.9	-100.6	Mon
805	2064-12-08	Mon	6.5	26.6	9	Rmd	30	29.5	Tue	13.5	20.0	Tue	30	29	-23.5	-20.8	13.4	19.9	Tue	30	29	-27	-16.6	9.6	16.1	Tue	30	29	-32	43.2	Tue
806	2065-01-06	Tue	19.3	26.9	10	Shl	31	29.6	Thu	15.8	35.1	Thu	29	29	3.2	105.4	15.5	34.8	Thu	29	29	2.5	109.6	12.1	31.4	Thu	29	29	0.4	161.9	Thu
807	2065-02-05	Thu	10.1	27.2	11	Qdh	31	29.7	Sat	16.6	26.6	Fri	30	30	31.3	-134.5	16.2	26.3	Fri	30	30	31.4	-129.2	12.6	22.7	Fri	30	30	32.6	-76	Sat
808	2065-03-07	Sat	2.3	27.5	12	Hjh	30	29.7	Sun	15.7	18.0	Sun	30	29	53.8	-2.6	15.3	17.5	Sun	30	29	52.4	4.6	11	13.3	Sun	30	29	60	66.5	Sun
809	2065-04-05	Sun	19.0	27.6	1	Mhr	31	29.7	Tue	14.7	33.7	Tue	29	29	59.3	137.7	14.1	33.2	Tue	29	29	60	146.4	9.2	28.3	Tue	29	29	60	-140.2	Tue
810	2065-05-05	Tue	11.5	27.8	2	Sfr	31	29.6	Thu	15.4	26.9	Wed	30	30	47.8	-113.8	14.7	26.2	Wed	30	30	49.2	-102.7	9.5	21.0	Wed	30	30	59.7	-12.9	Thu
811	2065-06-04	Thu	3.1	28	3	Rb1	30	29.6	Fri	17.0	20.1	Fri	30	29	24.4	-19.4	16.4	19.5	Fri	30	29	25.8	-9.8	12.1	15.2	Fri	30	29	31.1	56.9	Fri
812	2065-07-03	Fri	17.3	28.1	4	Rb2	31	29.5	Sun	17.3	34.6	Sun	29	29	-1.6	112.5	16.9	34.2	Sun	29	29	-0.1	119.7	13.2	30.5	Sun	29	29	0	174	Sun
813	2065-08-02	Sun	5.8	28	5	Jm1	30	29.5	Mon	15.8	21.6	Mon	30	29	-30	-62.2	15.5	21.3	Mon	30	29	-27.6	-56.8	12.1	17.8	Mon	29	29	-32.8	-6.8	Mon
814	2065-08-31	Mon	16.7	27.6	6	Jm2	31	29.4	Wed	13.4	30.1	Wed	29	29	-50.3	170.1	13.3	30.0	Wed	29	29	-49	172.4	9.5	26.1	Tue	30	30	-58.9	-134.2	Wed
815	2065-09-30	Wed	2.4	27.2	7	Rjb	30	29.4	Thu	11.5	14.0	Thu	29	29	-60	65.3	11.6	14.0	Thu	29	29	-59.3	64.4	7.5	10.0	Thu	29	29	-59.8	125.1	Thu
816	2065-10-29	Thu	11.8	26.8	8	Shn	30	29.4	Fri	11.6	23.4	Fri	30	29	-50.1	-67.1	11.7	23.5	Fri	30	29	-50.1	-67.8	7.4	19.2	Fri	30	29	-59.8	4.9	Sat
817	2065-11-27	Fri	21.7	26.6	9	Rmd	31	29.4	Sun	13.2	34.9	Sun	29	29	-26	116.3	13.1	34.8	Sun	29	29	-27	117.1	9.7	31.4	Sun	29	29	-31.8	171.9	Sun
818	2065-12-27	Sun	8.5	26.8	10	Shl	30	29.5	Mon	14.4	22.8	Mon	30	29	4.6	-73.2	14.3	22.8	Mon	30	29	2	-70.9	11.1	19.6	Mon	30	29	0.9	-23.5	Tue
819	2066-01-25	Mon	20.3	27.1	11	Qdh	31	29.5	Wed	14.3	34.5	Wed	29	29	32.4	104	14.1	34.4	Wed	29	29	31.4	106.3	10.8	31.1	Wed	29	29	35.6	154	Wed
820	2066-02-24	Wed	8.9	27.4	12	Hjh	30	29.6	Thu	13.4	22.3	Thu	30	29	55.6	-73.1	13.2	22.1	Thu	30	29	52	-68.7	9.2	18.0	Thu	30	29	60	-11.5	Fri
821	2066-03-25	Thu	22.3	27.6	1	Mhr	31	29.6	Sat	13.3	35.5	Sat	29	29	60	104.1	13.0	35.2	Sat	29	29	60	108.8	8.4	30.7	Sat	29	29	60	177.1	Sat
822	2066-04-24	Sat	12.5	27.7	2	Sfr	31	29.6	Mon	15.1	27.6	Sun	30	30	49.4	-127.8	14.6	27.1	Sun	30	30	50.7	-118.9	9.7	22.2	Sun	30	30	60	-37.4	Mon
823	2066-05-24	Mon	3.7	27.9	3	Rb1	30	29.7	Tue	17.6	21.3	Tue	30	29	25	-38.8	17.0	20.7	Tue	30	29	25	-29.5	12.9	16.5	Tue	30	29	32	36.3	Tue
824	2066-06-22	Tue	19.3	28.1	4	Rb2	31	29.6	Thu	18.5	37.8	Thu	29	29	-3.1	63	18.0	37.2	Thu	29	29	0	72.9	14.2	33.5	Thu	29	29	-0.3	129.5	Thu
825	2066-07-22	Thu	10.6	28.1	5	Jm1	31	29.6	Sat	17.2	27.8	Fri	30	30	-29.5	-155.7	16.7	27.2	Fri	30	30	-28.7	-147.5	12.8	23.4	Fri	30	30	-33.4	-92.1	Sat
826	2066-08-21	Sat	0.9	27.8	6	Jm2	30	29.5	Sun	14.7	15.6	Sun	29	29	-50.3	24.1	14.3	15.2	Sun	29	29	-48.6	30.8	9.9	10.8	Sun	29	29	-59.9	89.9	Sun
827	2066-09-19	Sun	13.8	27.3	7	Rjb	31	29.5	Tue	12.9	26.8	Mon	30	30	-59.6	-133.1	12.7	26.5	Mon	30	30	-58.7	-129.8	8.3	22.1	Mon	30	30	-60	-63.7	Tue
828	2066-10-19	Tue	1.7	26.9	8	Shn	30	29.5	Wed	13.1	14.9	Wed	30	29	-50.2	57.3	13.0	14.7	Wed	30	29	-49.6	59	8.6	10.4	Wed	29	29	-60	130.9	Wed
829	2066-11-17	Wed	13.1	26.6	9	Rmd	31	29.5	Fri	14.1	27.2	Fri	29	29	-25.6	-131.5	14.0	27.2	Fri	29	29	-26.8	-129.7	10.6	23.7	Thu	30	30	-31.9	-75.5	Fri
830	2066-12-17	Fri	0.3	26.7	10	Shl	30	29.5	Sat	14.2	14.5	Sat	29	29	3.5	51	14.1	14.5	Sat	29	29	2.5	52	11.1	11.4	Sat	29	29	3.1	97.6	Sat
831	2067-01-15	Sat	11.3	27	11	Qdh	30	29.4	Sun	13.0	24.3	Sun	30	29	33.1	-105.8	13.0	24.3	Sun	30	29	31.3	-104.9	9.8	21.1	Sun	30	29	36	-58.8	Mon
832	2067-02-13	Sun	22.0	27.3	12	Hjh	31	29.4	Tue	11.6	33.6	Tue	29	29	55	112.3	11.6	33.6	Tue	29	29	54.2	112.1	7.7	29.7	Tue	29	29	60	167.1	Tue
833	2067-03-15	Tue	8.5	27.5	1	Mhr	30	29.5	Wed	11.7	20.2	Wed	30	29	60	-32.3	11.6	20.2	Wed	30	29	60	-31.6	7.5	16.0	Wed	30	29	60	30.8	Thu
834	2067-04-13	Wed	19.4	27.7	2	Sfr	31	29.5	Fri	13.9	33.3	Fri	29	29	48.7	142.7	13.7	33.1	Fri	29	29	51.5	147.4	9.4	28.8	Fri	29	29	60	-143.2	Fri
835	2067-05-13	Fri	7.4	27.8	3	Rb1	30	29.6	Sat	16.6	24.0	Sat	30	29	29.5	-79.1	16.1	23.5	Sat	30	29	27.1	-72.7	12.4	19.8	Sat	30	29	30.6	-14.7	Sat
836	2067-06-11	Sat	20.7	28	4	Rb2	31	29.6	Mon	17.8	38.5	Mon	30	29	-3.2	52.6	17.2	38.0	Mon	29	29	-0.9	61.1	13.6	34.3	Mon	29	29	-2.2	115.5	Mon

Moon Data									R29	Yalop							SAAO						Odeh						R19h		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
837	2067-07-11	Mon	11.3	28.1	5	Jm1	31	29.6	Wed	17.0	28.3	Wed	29	29	-28.8	-164.8	16.4	27.7	Tue	30	30	-28.7	-155.9	12.4	23.7	Tue	30	30	-34.5	-98.9	Wed
838	2067-08-10	Wed	2.6	27.9	6	Jm2	30	29.6	Thu	15.2	17.9	Thu	30	29	-51.7	-15.6	14.6	17.3	Thu	30	29	-51	-6.1	9.8	12.4	Thu	29	29	-59.3	59	Thu
839	2067-09-08	Thu	18.2	27.5	7	Rjb	31	29.6	Sat	14.4	32.6	Sat	29	29	-60	133	13.9	32.1	Sat	29	29	-58.9	141.2	9.1	27.2	Fri	30	30	-60	-146.9	Sat
840	2067-10-08	Sat	9.5	27	8	Shn	31	29.6	Mon	15.3	24.8	Sun	30	30	-48.8	-96.7	14.9	24.4	Sun	30	30	-49.3	-90.2	10.3	19.8	Sun	30	30	-59.5	-18.3	Mon
841	2067-11-07	Mon	0.3	26.7	9	Rmd	30	29.6	Tue	16.1	16.3	Tue	30	29	-24	29.3	15.8	16.0	Tue	30	29	-26	34.6	12.2	12.4	Tue	29	29	-29.6	90.1	Tue
842	2067-12-06	Tue	14.1	26.6	10	Shl	31	29.5	Thu	15.3	29.4	Thu	29	29	4.1	-174	15.1	29.2	Thu	29	29	2.7	-170.8	11.9	26.0	Wed	30	30	4.8	-123	Thu
843	2068-01-05	Thu	2.7	26.9	11	Qdh	30	29.5	Fri	13.2	15.9	Fri	29	29	33.5	18.1	13.2	15.8	Fri	29	29	30.8	20.8	9.7	12.4	Fri	29	29	36.3	69	Fri
844	2068-02-03	Fri	13.8	27.2	12	Hjh	30	29.4	Sat	11.2	25.0	Sat	30	29	54.1	-123.7	11.3	25.1	Sat	30	29	52.5	-123.5	7.2	21.0	Sat	30	29	60	-69.6	Sun
845	2068-03-03	Sat	23.7	27.4	1	Mhr	31	29.4	Mon	11.1	34.7	Mon	29	29	60	102.9	11.2	34.8	Mon	29	29	60	101.5	7.1	30.8	Mon	29	29	60	162	Mon
846	2068-04-02	Mon	8.9	27.6	2	Sfr	30	29.4	Tue	12.9	21.8	Tue	30	29	48.7	-49	12.9	21.8	Tue	30	29	47	-48.9	9.2	18.0	Tue	30	29	59.3	11.2	Wed
847	2068-05-01	Tue	18.1	27.8	3	Rb1	31	29.4	Thu	14.9	33.0	Thu	29	29	22.8	141.5	14.7	32.9	Thu	29	29	24.9	144.5	11.4	29.5	Thu	29	29	26.5	-165	Thu
848	2068-05-31	Thu	4.1	28	4	Rb2	30	29.5	Fri	15.6	19.7	Fri	30	29	-2.2	-26.4	15.4	19.4	Fri	30	29	-2	-22	12	16.1	Fri	29	29	-2.8	28.2	Fri
849	2068-06-29	Fri	15.2	28.1	5	Jm1	31	29.5	Sun	15.1	30.3	Sun	29	29	-29.2	163.5	14.7	29.9	Sun	29	29	-26.7	170.9	10.8	26.0	Sat	30	30	-34.4	-135	Sun
850	2068-07-29	Sun	3.9	28	6	Jm2	30	29.6	Mon	14.3	18.2	Mon	30	29	-48.4	-22.1	13.7	17.7	Mon	30	29	-47.8	-13.6	8.8	12.8	Mon	29	29	-59.9	47	Mon
851	2068-08-27	Mon	18.5	27.7	7	Rjb	31	29.7	Wed	14.8	33.3	Wed	30	29	-57.6	117.9	14.1	32.6	Wed	29	29	-56.8	127.5	9.2	27.7	Tue	30	30	-59.7	-159.3	Wed
852	2068-09-26	Wed	10.8	27.2	8	Shn	31	29.7	Fri	16.8	27.7	Fri	29	29	-47.1	-144	16.2	27.1	Thu	30	30	-47.4	-134.7	11.6	22.5	Thu	30	30	-57	-65	Fri
853	2068-10-26	Fri	4.3	26.8	9	Rmd	30	29.7	Sat	18.1	22.4	Sat	30	29	-24.1	-63.3	17.6	21.9	Sat	30	29	-25.3	-54.9	13.8	18.1	Sat	30	29	-26.5	2.5	Sat
854	2068-11-24	Sat	21.7	26.6	10	Shl	31	29.7	Mon	17.1	38.8	Mon	30	29	4.2	44.4	16.6	38.4	Mon	30	29	2.4	51.5	13	34.8	Mon	29	29	4.8	104.4	Mon
855	2068-12-24	Mon	13.8	26.8	11	Qdh	31	29.6	Wed	14.4	28.2	Wed	29	29	29.7	-166.3	14.1	27.9	Wed	29	29	28.6	-161.2	10.3	24.1	Tue	30	30	38.3	-109.8	Wed
856	2069-01-23	Wed	3.6	27.1	12	Hjh	30	29.5	Thu	12.2	15.8	Thu	29	29	51.6	11	12.1	15.7	Thu	29	29	49.3	15	7.6	11.2	Thu	29	29	60	69.5	Thu
857	2069-02-21	Thu	15.3	27.4	1	Mhr	31	29.4	Sat	11.9	27.2	Fri	30	30	58.7	-150.1	11.9	27.2	Fri	30	30	55	-148.1	7.7	23.1	Fri	30	30	60	-88.6	Sat
858	2069-03-23	Sat	1.3	27.5	2	Sfr	30	29.4	Sun	13.1	14.4	Sun	29	29	44.9	58.6	13.1	14.4	Sun	29	29	46.3	58.4	9.6	10.9	Sun	29	29	54.5	111.9	Sun
859	2069-04-21	Sun	10.0	27.7	3	Rb1	30	29.3	Mon	14.0	24.0	Mon	30	29	22	-84.2	14.0	24.0	Mon	30	29	24.3	-83.3	10.9	20.9	Mon	30	29	25.1	-36.7	Tue
860	2069-05-20	Mon	18.1	27.9	4	Rb2	31	29.3	Wed	13.7	31.9	Wed	29	29	-3.1	150.8	13.7	31.8	Wed	29	29	-1.7	152.6	10.5	28.6	Wed	29	29	-5	-161.1	Wed
861	2069-06-19	Wed	2.3	28.1	5	Jm1	30	29.4	Thu	12.8	15.1	Thu	29	29	-27.8	31.6	12.7	14.9	Thu	29	29	-27.2	34.6	8.9	11.2	Thu	29	29	-34.4	86.2	Thu
862	2069-07-18	Thu	11.3	28.1	6	Jm2	30	29.5	Fri	12.5	23.7	Fri	30	29	-44.9	-104.9	12.2	23.4	Fri	30	29	-44	-99.9	7.6	18.8	Fri	30	29	-55.8	-42.7	Sat
863	2069-08-16	Fri	22.1	27.8	7	Rjb	31	29.6	Sun	13.8	35.9	Sun	30	29	-51	76.9	13.4	35.5	Sun	30	29	-51.6	82.8	8.6	30.7	Sun	29	29	-59.9	148	Sun
864	2069-09-15	Sun	11.6	27.4	8	Shn	31	29.7	Tue	16.6	28.2	Tue	29	29	-43.1	-156.1	16.1	27.7	Tue	29	29	-43	-148.2	11.9	23.5	Mon	30	30	-50.9	-85.2	Tue
865	2069-10-15	Tue	4.1	26.9	9	Rmd	30	29.8	Wed	18.6	22.7	Wed	30	29	-23	-68.6	18.0	22.1	Wed	30	29	-19.5	-61.1	14.2	18.3	Wed	30	29	-23.2	-2.7	Wed
866	2069-11-13	Wed	22.7	26.7	10	Shl	31	29.8	Fri	18.1	40.7	Fri	30	29	3.7	15.2	17.4	40.1	Fri	30	29	3.1	24.6	13.6	36.2	Fri	30	29	6.4	81.2	Fri
867	2069-12-13	Fri	17.7	26.7	11	Qdh	31	29.7	Sun	15.7	33.4	Sun	29	29	28	115.6	15.1	32.8	Sun	29	29	26.7	125.3	10.8	28.4	Sun	29	29	37.3	-175.8	Sun
868	2070-01-12	Sun	11.4	27	12	Hjh	31	29.6	Tue	13.9	25.3	Mon	30	30	47	-130.6	13.4	24.8	Mon	30	30	45.5	-122.1	8.4	19.8	Mon	30	30	57.5	-61.3	Tue
869	2070-02-11	Tue	2.9	27.3	1	Mhr	30	29.5	Wed	13.9	16.8	Wed	30	29	50	6.3	13.6	16.5	Wed	30	29	51	9.6	9.4	12.3	Wed	29	29	50	72.9	Wed
870	2070-03-12	Wed	15.9	27.5	2	Sfr	31	29.4	Fri	14.6	30.5	Fri	29	29	40	173.9	14.4	30.3	Fri	29	29	39	176	10.9	26.8	Thu	30	30	47.9	-131.8	Fri
871	2070-04-11	Fri	2.5	27.6	3	Rb1	30	29.4	Sat	14.4	16.9	Sat	29	29	18.3	20.4	14.3	16.8	Sat	29	29	20.8	21.8	11.2	13.7	Sat	29	29	19.5	68.3	Sat
872	2070-05-10	Sat	11.2	27.8	4	Rb2	30	29.3	Sun	13.1	24.2	Sun	30	29	-4.9	-95.2	13.0	24.2	Sun	30	29	-3.7	-94.2	9.8	21.0	Sun	29	29	-9.6	-48.3	Mon
873	2070-06-08	Sun	18.4	28	5	Jm1	31	29.3	Tue	11.6	30.0	Tue	29	29	-27.1	168.5	11.5	29.9	Tue	29	29	-25.8	169.8	7.8	26.2	Mon	30	30	-35.8	-140.3	Tue
874	2070-07-08	Tue	1.3	28.1	6	Jm2	30	29.3	Wed	11.1	12.4	Wed	29	29	-42.1	64.7	11.1	12.4	Wed	29	29	-38.5	68	6.7	8.0	Wed	29	29	-53.6	119.4	Wed

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
875	2070-08-06	Wed	8.9	28	7	Rjb	30	29.4	Thu	12.6	21.5	Thu	30	29	-45.7	-67.6	12.5	21.4	Thu	30	29	-43.4	-64.4	8.3	17.1	Thu	30	29	-57.8	-11.9	Thu
876	2070-09-04	Thu	18.5	27.6	8	Shn	31	29.5	Sat	15.2	33.7	Sat	29	29	-36.3	120	14.9	33.4	Sat	29	29	-37.6	124.1	11.2	29.7	Sat	29	29	-43.9	178.5	Sat
877	2070-10-04	Sat	7.1	27.1	9	Rmd	30	29.7	Sun	17.1	24.1	Sun	30	29	-18.3	-92	16.6	23.7	Sun	30	29	-20	-85.4	13.1	20.1	Sun	30	29	-21.2	-32.1	Sun
878	2070-11-02	Sun	22.7	26.7	10	Shl	31	29.8	Tue	17.1	39.8	Tue	30	29	3.4	28.8	16.5	39.2	Tue	30	29	2	37.6	12.7	35.4	Tue	30	29	8.3	93.3	Tue
879	2070-12-02	Tue	16.9	26.6	11	Qdh	31	29.8	Thu	15.7	32.6	Thu	30	29	25	127.8	15.0	32.0	Thu	29	29	26.6	137.3	10.4	27.3	Thu	29	29	35.4	-158	Thu
880	2071-01-01	Thu	12.3	26.8	12	Hjh	31	29.8	Sat	15.0	27.3	Sat	29	29	41	-159.1	14.3	26.6	Fri	30	30	40.4	-147.9	9	21.3	Fri	30	30	54.1	-82.5	Sat
881	2071-01-31	Sat	7.3	27.2	1	Mhr	31	29.7	Mon	16.1	23.3	Sun	30	30	44.1	-92.9	15.5	22.8	Sun	30	30	42.4	-83.5	10.9	18.2	Sun	30	30	54.3	-22.9	Sun
882	2071-03-02	Mon	0.6	27.4	2	Sfr	30	29.6	Tue	16.8	17.4	Tue	30	29	34.7	8.3	16.4	17.0	Tue	30	29	34	14.4	12.7	13.3	Tue	29	29	39.7	69.1	Tue
883	2071-03-31	Tue	15.1	27.6	3	Rb1	31	29.5	Thu	15.9	31.0	Thu	29	29	16.6	168.5	15.6	30.7	Thu	29	29	17.2	172.4	12.3	27.4	Wed	30	30	17.3	-137.3	Thu
884	2071-04-30	Thu	2.5	27.8	4	Rb2	30	29.4	Fri	13.7	16.3	Fri	29	29	-4.7	24.7	13.6	16.1	Fri	29	29	-6.2	27.3	10.1	12.6	Fri	29	29	-10.9	77.8	Fri
885	2071-05-29	Fri	11.3	28	5	Jm1	30	29.3	Sat	11.7	23.0	Sat	30	29	-24.9	-85.4	11.6	22.9	Sat	30	29	-22.8	-82.9	7.6	19.0	Sat	29	29	-34.8	-29.9	Sun
886	2071-06-27	Sat	18.4	28.1	6	Jm2	31	29.3	Mon	11.1	29.5	Mon	29	29	-37.5	170.6	11.1	29.5	Mon	29	29	-34.2	173.1	6.8	25.2	Sun	30	30	-47.6	-133.9	Mon
887	2071-07-27	Mon	1.0	28	7	Rjb	30	29.3	Tue	12.3	13.3	Tue	29	29	-37.8	58.4	12.3	13.2	Tue	29	29	-38.6	58.3	8.5	9.4	Tue	29	29	-48.5	108.3	Tue
888	2071-08-25	Tue	8.3	27.7	8	Shn	30	29.4	Wed	14.0	22.3	Wed	30	29	-31.8	-69.3	13.9	22.2	Wed	30	29	-30	-68.1	10.6	18.9	Wed	30	29	-36	-20	Wed
889	2071-09-23	Wed	17.4	27.3	9	Rmd	31	29.5	Fri	14.9	32.3	Fri	29	29	-15.1	144.6	14.7	32.1	Fri	29	29	-13.8	147.2	11.5	28.9	Fri	29	29	-14.5	-164.5	Fri
890	2071-10-23	Fri	4.9	26.8	10	Shl	30	29.6	Sat	14.7	19.6	Sat	30	29	4.7	-27.5	14.4	19.2	Sat	30	29	6.1	-23.1	10.8	15.6	Sat	30	29	10.2	30.7	Sat
891	2071-11-21	Sat	19.0	26.6	11	Qdh	31	29.7	Mon	14.1	33.2	Mon	29	29	24.5	120.5	13.6	32.6	Mon	29	29	23	129.3	9.1	28.1	Mon	29	29	34.4	-168.9	Mon
892	2071-12-21	Mon	11.8	26.7	12	Hjh	31	29.8	Wed	14.8	26.6	Tue	30	30	35.1	-145.4	14.1	25.9	Tue	30	30	35.4	-135.7	9	20.8	Tue	30	30	46.7	-68.1	Wed
893	2072-01-20	Wed	6.6	27	1	Mhr	31	29.8	Fri	17.0	23.6	Thu	30	30	37.7	-96.9	16.4	23.0	Thu	30	30	36.6	-86.4	11.8	18.4	Thu	30	30	45.6	-24.4	Thu
894	2072-02-19	Fri	2.1	27.3	2	Sfr	30	29.8	Sat	18.5	20.6	Sat	30	29	27.8	-40.4	17.9	20.0	Sat	30	29	30	-32.6	14.1	16.1	Sat	30	29	31.6	25.4	Sat
895	2072-03-19	Sat	20.4	27.5	3	Rb1	31	29.6	Mon	17.6	38.0	Mon	29	29	11	63.1	17.1	37.5	Mon	29	29	10.8	71	13.4	33.8	Mon	29	29	9.5	126.2	Mon
896	2072-04-18	Mon	12.0	27.7	4	Rb2	31	29.5	Wed	15.1	27.1	Tue	30	30	-6.2	-137.2	14.7	26.6	Tue	30	30	-6.4	-130.3	10.7	22.7	Tue	30	30	-14.8	-72.8	Wed
897	2072-05-18	Wed	0.3	27.9	5	Jm1	30	29.4	Thu	12.9	13.3	Thu	29	29	-22.2	62.4	12.6	12.9	Thu	29	29	-22.1	67.8	8.2	8.5	Thu	29	29	-34.5	128.3	Thu
898	2072-06-16	Thu	10.0	28.1	6	Jm2	30	29.3	Fri	12.4	22.4	Fri	30	29	-31.5	-79.7	12.2	22.2	Fri	30	29	-29.7	-75.7	7.9	17.8	Fri	29	29	-43	-19.9	Sat
899	2072-07-15	Fri	18.0	28.1	7	Rjb	31	29.3	Sun	13.1	31.0	Sun	29	29	-34.2	0	13.1	31.1	Sun	29	29	-29.1	154.1	9.5	27.4	Sat	30	30	-39.2	-157.1	Sun
900	2072-08-14	Sun	1.4	27.9	8	Shn	30	29.3	Mon	13.9	15.2	Mon	29	29	-24.2	37.2	13.8	15.2	Mon	29	29	-22.5	37.9	10.7	12.1	Mon	29	29	-27	83.6	Mon
901	2072-09-12	Mon	9.1	27.4	9	Rmd	30	29.4	Tue	13.6	22.8	Tue	30	29	-9.9	-72.5	13.6	22.7	Tue	30	29	-8.5	-71.7	10.5	19.7	Tue	30	29	-6.4	-25.7	Wed
902	2072-10-11	Tue	18.0	27	10	Shl	31	29.4	Thu	12.7	30.6	Thu	29	29	6.5	166.9	12.6	30.5	Thu	29	29	5	169	9.1	27.1	Thu	29	29	14	-140.3	Thu
903	2072-11-10	Thu	4.4	26.7	11	Qdh	30	29.5	Fri	12.2	16.5	Fri	30	29	22.8	11.2	11.9	16.3	Fri	30	29	22.1	15.4	7.7	12.0	Fri	29	29	34.3	74.1	Fri
904	2072-12-09	Fri	17.0	26.7	12	Hjh	31	29.6	Sun	13.4	30.4	Sun	29	29	28.8	159.4	13.0	30.0	Sun	29	29	28.2	165.5	8.5	25.5	Sat	30	30	41.4	-135.2	Sun
905	2073-01-08	Sun	8.2	26.9	1	Mhr	31	29.7	Tue	16.2	24.4	Mon	30	30	28.5	-106.4	15.8	24.0	Mon	30	30	29.2	-99.9	11.7	19.9	Mon	30	30	36.6	-43.1	Tue
906	2073-02-07	Tue	1.7	27.2	2	Sfr	30	29.8	Wed	18.3	20.0	Wed	30	29	21	-30.8	17.7	19.4	Wed	30	29	20.7	-22.5	14	15.7	Wed	30	29	24.1	32.6	Wed
907	2073-03-08	Wed	20.3	27.5	3	Rb1	31	29.7	Fri	18.0	38.2	Fri	30	29	10	59	17.3	37.6	Fri	30	29	5.8	69.1	13.5	33.7	Fri	29	29	5.1	126.8	Fri
908	2073-04-07	Fri	14.3	27.6	4	Rb2	31	29.7	Sun	16.0	30.2	Sun	29	29	-10	176.3	15.3	29.5	Sun	29	29	-9.2	-172.8	10.9	25.1	Sat	30	30	-16.7	-107.9	Sun
909	2073-05-07	Sun	6.3	27.8	5	Jm1	30	29.6	Mon	14.4	20.7	Mon	30	29	-19.4	-47	13.8	20.0	Mon	30	29	-19.5	-36.9	8.8	15.1	Mon	30	29	-31.5	32.9	Mon
910	2073-06-05	Mon	19.9	28	6	Jm2	31	29.5	Wed	14.5	34.4	Wed	29	29	-24.4	104.1	14.0	33.9	Wed	29	29	-24	111.6	9.5	29.3	Wed	29	29	-34.8	173.7	Wed
911	2073-07-05	Wed	7.3	28.1	7	Rjb	30	29.4	Thu	15.1	22.4	Thu	30	29	-22.9	-74.4	14.9	22.2	Thu	30	29	-20.2	-69.2	11.1	18.4	Thu	30	29	-28.1	-17.3	Thu
912	2073-08-03	Thu	17.1	28	8	Shn	31	29.4	Sat	14.9	32.0	Sat	29	29	-17.2	146.6	14.8	31.9	Sat	29	29	-14.5	149.5	11.6	28.7	Sat	29	29	-16.9	-163	Sat

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
913	2073-09-02	Sat	1.9	27.6	9	Rmd	30	29.4	Sun	13.7	15.6	Sun	29	29	-4.5	36.6	13.6	15.5	Sun	29	29	-3.5	38	10.4	12.3	Sun	29	29	-0.6	85.9	Sun
914	2073-10-01	Sun	10.4	27.1	10	Shl	30	29.4	Mon	12.0	22.3	Mon	30	29	8.2	-67.6	11.9	22.3	Mon	30	29	10.6	-66.8	8.3	18.7	Mon	29	29	18.2	-14	Tue
915	2073-10-30	Mon	19.3	26.8	11	Qdh	31	29.4	Wed	11.1	30.4	Wed	29	29	19.9	165.7	11.0	30.3	Wed	29	29	19	167.5	6.9	26.2	Tue	30	30	33.4	-135.3	Wed
916	2073-11-29	Wed	5.2	26.6	12	Hjh	30	29.5	Thu	12.3	17.6	Thu	30	29	23.5	-5.2	12.2	17.4	Thu	30	29	23.5	-3.2	8.2	13.4	Thu	30	29	34.4	51.7	Thu
917	2073-12-28	Thu	17.0	26.8	1	Mhr	31	29.6	Sat	14.7	31.7	Sat	29	29	20.7	147.4	14.5	31.5	Sat	29	29	20.9	150	11	27.9	Sat	29	29	26.8	-159.5	Sat
918	2074-01-27	Sat	6.7	27.1	2	Sfr	30	29.6	Sun	16.3	23.0	Sun	30	29	13.4	-75.3	16.0	22.7	Sun	30	29	13	-70.5	12.6	19.3	Sun	30	29	14.3	-19.7	Sun
919	2074-02-25	Sun	22.0	27.4	3	Rb1	31	29.7	Tue	16.3	38.3	Tue	30	29	2.7	58.4	15.8	37.9	Tue	30	29	1.4	65.9	12.1	34.1	Tue	29	29	-1.9	122.5	Tue
920	2074-03-27	Tue	14.4	27.6	4	Rb2	31	29.7	Thu	15.3	29.6	Thu	29	29	-9	-172.6	14.6	28.9	Thu	29	29	-9.5	-162.3	10.1	24.4	Wed	30	30	-18.4	-95.1	Thu
921	2074-04-26	Thu	6.8	27.7	5	Jm1	30	29.7	Fri	15.0	21.8	Fri	30	29	-15.7	-60.3	14.1	21.0	Fri	30	29	-16.7	-48.3	9	15.8	Fri	30	29	-30.3	25.5	Fri
922	2074-05-25	Fri	22.8	27.9	6	Jm2	31	29.6	Sun	16.2	39.0	Sun	30	29	-18	38.2	15.5	38.3	Sun	30	29	-16.9	49.3	10.8	33.6	Sun	29	29	-27.2	114.6	Sun
923	2074-06-24	Sun	13.7	28.1	7	Rjb	31	29.6	Tue	17.3	31.0	Tue	29	29	-14.6	159.9	16.8	30.5	Tue	29	29	-12.3	168.6	12.9	26.6	Mon	30	30	-18.5	-136	Tue
924	2074-07-24	Tue	3.2	28.1	8	Shn	30	29.5	Wed	16.8	19.9	Wed	30	29	-7.2	-29.3	16.4	19.6	Wed	30	29	-7.1	-23.4	12.9	16.1	Wed	29	29	-6.6	29	Wed
925	2074-08-22	Wed	15.0	27.8	9	Rmd	31	29.4	Fri	14.8	29.8	Fri	29	29	1.7	-175.2	14.5	29.5	Fri	29	29	2.4	-170.7	11	26.0	Thu	30	30	5.5	-117.3	Fri
926	2074-09-21	Fri	1.5	27.3	10	Shl	30	29.4	Sat	12.5	14.1	Sat	29	29	12	58.3	12.3	13.8	Sat	29	29	11.7	62	8.4	9.9	Sat	29	29	21.9	120.4	Sat
927	2074-10-20	Sat	11.2	26.9	11	Qdh	30	29.4	Sun	11.5	22.8	Sun	30	29	16.7	-77.5	11.4	22.6	Sun	30	29	18.3	-75.7	7.2	18.4	Sun	30	29	31.7	-15.5	Mon
928	2074-11-18	Sun	21.0	26.6	12	Hjh	31	29.4	Tue	12.4	33.4	Tue	29	29	18.2	119.9	12.3	33.3	Tue	29	29	15.6	122.2	8.6	29.5	Tue	29	29	26	174.6	Tue
929	2074-12-18	Tue	7.4	26.7	1	Mhr	30	29.5	Wed	13.9	21.2	Wed	30	29	13.7	-54.4	13.8	21.2	Wed	30	29	12	-53	10.6	17.9	Wed	30	29	16.1	-6.2	Wed
930	2075-01-16	Wed	18.6	27	2	Sfr	31	29.5	Fri	14.4	33.1	Fri	29	29	7.4	134.4	14.3	33.0	Fri	29	29	4.9	137.1	11.2	29.8	Fri	29	29	4	-175.5	Fri
931	2075-02-15	Fri	6.7	27.3	3	Rb1	30	29.5	Sat	13.9	20.6	Sat	30	29	-2.6	-34.1	13.7	20.4	Sat	30	29	-3.2	-30.5	10.1	16.8	Sat	30	29	-7.9	23.4	Sat
932	2075-03-16	Sat	19.5	27.5	4	Rb2	31	29.6	Mon	13.3	32.7	Mon	29	29	-11	142	12.9	32.3	Mon	29	29	-11.2	148.6	8.5	28.0	Mon	29	29	-23	-145.9	Mon
933	2075-04-15	Mon	9.0	27.7	5	Jm1	30	29.6	Tue	14.1	23.0	Tue	30	29	-12.9	-77.2	13.5	22.4	Tue	30	29	-13.9	-68	8.6	17.6	Tue	30	29	-25.7	2.2	Wed
934	2075-05-14	Tue	23.4	27.9	6	Jm2	31	29.6	Thu	16.4	39.8	Thu	30	29	-11	29	15.7	39.2	Thu	30	29	-11.4	38.7	11.3	34.7	Thu	30	29	-18.9	102.1	Thu
935	2075-06-13	Thu	14.7	28.1	7	Rjb	31	29.6	Sat	18.3	33.0	Sat	29	29	-5.9	133.7	17.7	32.4	Sat	29	29	-4.6	143.4	13.8	28.5	Sat	29	29	-8.3	-159.7	Sat
936	2075-07-13	Sat	6.2	28.1	8	Shn	30	29.6	Sun	18.1	24.3	Sun	30	29	0.7	-92.4	17.5	23.8	Sun	30	29	1.4	-83.4	13.8	20.0	Sun	30	29	1.9	-27.1	Sun
937	2075-08-11	Sun	21.2	27.9	9	Rmd	31	29.6	Tue	16.1	37.3	Tue	29	29	6.3	74.3	15.5	36.7	Tue	29	29	7	82.8	11.6	32.8	Tue	29	29	12.9	144.1	Tue
938	2075-09-10	Tue	11.1	27.5	10	Shl	30	29.5	Wed	13.9	24.9	Wed	30	29	12.2	-102.9	13.3	24.4	Wed	30	29	14.2	-94.9	8.9	19.9	Wed	30	29	24.1	-26.9	Thu
939	2075-10-09	Wed	23.8	27	11	Qdh	31	29.5	Fri	13.1	36.8	Fri	29	29	14.8	73.7	12.7	36.4	Fri	29	29	15.8	79.3	8.2	31.9	Fri	29	29	27.9	145.4	Fri
940	2075-11-08	Fri	11.6	26.7	12	Hjh	30	29.5	Sat	13.7	25.4	Sat	30	29	10	-116.7	13.6	25.2	Sat	30	29	8.8	-113.4	9.8	21.4	Sat	30	29	20.1	-60.7	Sun
941	2075-12-07	Sat	23.1	26.6	1	Mhr	31	29.5	Mon	14.3	37.4	Mon	29	29	2.8	66.5	14.3	37.4	Mon	29	29	2.4	67.6	11.1	34.2	Mon	29	29	6.9	113.4	Mon
942	2076-01-06	Mon	10.3	26.9	2	Sfr	30	29.4	Tue	13.7	24.0	Tue	30	29	0.9	-88.3	13.7	24.0	Tue	30	29	-3.8	-85.4	10.6	20.9	Tue	30	29	-4.7	-38.9	Wed
943	2076-02-04	Tue	21.1	27.2	3	Rb1	31	29.4	Thu	12.3	33.4	Thu	29	29	-8.6	136.4	12.2	33.3	Thu	29	29	-8.1	137.2	8.8	29.9	Thu	29	29	-13.6	-169.6	Thu
944	2076-03-05	Thu	7.4	27.4	4	Rb2	30	29.4	Fri	11.6	19.0	Fri	30	29	-10.1	-10.3	11.4	18.8	Fri	30	29	-12.7	-7	7.2	14.7	Fri	29	29	-24	56.4	Fri
945	2076-04-03	Fri	17.8	27.6	5	Jm1	31	29.5	Sun	12.7	30.5	Sun	29	29	-9.4	172.5	12.4	30.2	Sun	29	29	-9.1	177.1	8.1	25.9	Sat	30	30	-24.4	-119.8	Sun
946	2076-05-03	Sun	4.9	27.8	6	Jm2	30	29.5	Mon	15.3	20.2	Mon	30	29	-2	-33.4	14.9	19.8	Mon	30	29	-3.5	-27.6	11	15.9	Mon	30	29	-10.1	28.6	Mon
947	2076-06-01	Mon	17.3	28	7	Rjb	31	29.6	Wed	17.3	34.6	Wed	29	29	3.1	113.1	16.8	34.1	Wed	29	29	3.7	120.3	13.2	30.5	Wed	29	29	0	173.3	Wed
948	2076-07-01	Wed	7.1	28.1	8	Shn	30	29.6	Thu	17.6	24.7	Thu	30	29	7.2	-94.9	17.0	24.1	Thu	30	29	8	-86.3	13.2	20.4	Thu	30	29	10	-29.1	Thu
949	2076-07-30	Thu	22.1	28	9	Rmd	31	29.7	Sat	16.2	38.3	Sat	30	29	12.2	61.5	15.5	37.6	Sat	30	29	13.3	72.2	11.3	33.4	Sat	29	29	21.7	139.2	Sat
950	2076-08-29	Sat	13.8	27.7	10	Shl	31	29.7	Mon	14.8	28.6	Mon	29	29	13.2	-155.4	14.0	27.8	Mon	29	29	16.2	-143.3	9.1	22.8	Sun	30	30	29.4	-66.3	Mon

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
951	2076-09-28	Mon	5.5	27.2	11	Qdh	30	29.6	Tue	14.9	20.4	Tue	30	29	9.8	-38.3	14.3	19.7	Tue	30	29	13.4	-28.4	9.4	14.9	Tue	30	29	23.7	43.8	Tue
952	2076-10-27	Tue	20.9	26.8	12	Hjh	31	29.6	Thu	16.0	36.8	Thu	30	29	0	74.5	15.5	36.4	Thu	30	29	4.1	80.1	11.6	32.4	Thu	29	29	10.1	137.9	Thu
953	2076-11-26	Thu	11.5	26.6	1	Mhr	31	29.6	Sat	16.0	27.5	Sat	29	29	-10	-140.1	15.7	27.2	Sat	29	29	-5	-138.2	12.3	23.8	Fri	30	30	-2	-88.9	Sat
954	2076-12-26	Sat	0.9	26.8	2	Sfr	30	29.5	Sun	14.4	15.3	Sun	29	29	-9.9	46.3	14.2	15.2	Sun	29	29	-12	49.2	11	11.9	Sun	29	29	-13.2	98.7	Sun
955	2077-01-24	Sun	12.8	27.1	3	Rb1	30	29.4	Mon	12.2	25.0	Mon	30	29	-14.3	-95.5	12.1	24.9	Mon	30	29	-15.8	-93.5	8.5	21.3	Mon	30	29	-22.7	-36.5	Tue
956	2077-02-22	Mon	23.2	27.4	4	Rb2	31	29.4	Wed	11.0	34.2	Wed	29	29	-13.6	123.7	11.0	34.1	Wed	29	29	-13.3	124.9	6.8	30.0	Wed	29	29	-26	-170.7	Wed
957	2077-03-24	Wed	8.4	27.6	5	Jm1	30	29.4	Thu	12.0	20.4	Thu	30	29	-7.3	-34.6	11.9	20.3	Thu	30	29	-5.5	-33	8	16.4	Thu	30	29	-18.5	25.3	Thu
958	2077-04-22	Thu	17.4	27.7	6	Jm2	31	29.4	Sat	14.0	31.4	Sat	29	29	5	160.8	13.9	31.2	Sat	29	29	5.2	162.9	10.5	27.8	Sat	29	29	-4	-147.9	Sat
959	2077-05-22	Sat	2.7	27.9	7	Rjb	30	29.4	Sun	15.4	18.0	Sun	30	29	13.5	4.6	15.2	17.8	Sun	29	29	14.2	8.1	11.9	14.5	Sun	29	29	10	55.9	Sun
960	2077-06-20	Sun	13.0	28.1	8	Shn	31	29.5	Tue	15.4	28.4	Tue	29	29	16.9	-146.6	15.1	28.0	Mon	30	30	18.7	-140.8	11.5	24.5	Mon	30	30	19.5	-86.7	Tue
961	2077-07-20	Tue	0.7	28.1	9	Rmd	30	29.6	Wed	14.7	15.4	Wed	30	29	18.9	49.3	14.1	14.8	Wed	30	29	19.8	57.9	9.9	10.6	Wed	29	29	26.5	124.8	Wed
962	2077-08-18	Wed	14.3	27.8	10	Shl	31	29.6	Fri	14.4	28.7	Fri	29	29	16.3	-155.3	13.6	28.0	Fri	29	29	18.2	-143.5	8.6	22.9	Thu	30	30	29.8	-64.8	Fri
963	2077-09-17	Fri	5.9	27.4	11	Qdh	30	29.7	Sat	15.9	21.8	Sat	30	29	7.3	-57	15.1	21.0	Sat	30	29	11	-45.2	10.2	16.2	Sat	30	29	21.3	27.9	Sat
964	2077-10-16	Sat	23.2	26.9	12	Hjh	31	29.7	Mon	17.8	41.0	Mon	30	29	-3.5	13.5	17.2	40.3	Mon	30	29	-3.9	23.3	13.1	36.2	Mon	30	29	1.2	83.5	Mon
965	2077-11-15	Mon	17.0	26.6	1	Mhr	31	29.7	Wed	17.9	34.9	Wed	29	29	-13.6	108	17.4	34.5	Wed	29	29	-13.4	115	13.8	30.8	Wed	29	29	-14.3	170.1	Wed
966	2077-12-15	Wed	10.1	26.7	2	Sfr	31	29.6	Fri	15.9	26.0	Thu	30	30	-20	-111.1	15.5	25.6	Thu	30	30	-18.7	-106.4	11.8	22.0	Thu	30	30	-22	-49.5	Fri
967	2078-01-14	Fri	1.3	27	3	Rb1	30	29.5	Sat	13.2	14.5	Sat	29	29	-20	63.8	12.9	14.2	Sat	29	29	-20.8	68.6	8.9	10.1	Sat	29	29	-29.3	134	Sat
968	2078-02-12	Sat	14.0	27.3	4	Rb2	31	29.4	Mon	11.9	26.0	Sun	30	30	-15.5	-111.2	11.7	25.7	Sun	30	30	-16.4	-107.8	7.4	21.4	Sun	30	30	-29	-39.3	Mon
969	2078-03-14	Mon	0.7	27.5	5	Jm1	30	29.4	Tue	12.6	13.2	Tue	29	29	-3.9	74.5	12.5	13.1	Tue	29	29	-3.5	76.2	8.7	9.4	Tue	29	29	-12.5	132.8	Tue
970	2078-04-12	Tue	9.8	27.7	6	Jm2	30	29.3	Wed	13.7	23.5	Wed	30	29	12.1	-79.4	13.7	23.4	Wed	30	29	13.4	-78.5	10.5	20.2	Wed	30	29	5.8	-31.6	Thu
971	2078-05-11	Wed	18.0	27.8	7	Rjb	31	29.3	Fri	13.9	31.9	Fri	29	29	20	158.3	13.9	31.9	Fri	29	29	21.3	159.4	10.8	28.8	Fri	29	29	23.1	-153.9	Fri
972	2078-06-10	Fri	1.9	28	8	Shn	30	29.3	Sat	13.3	15.1	Sat	29	29	26	56.3	13.1	15.0	Sat	29	29	26.6	58.2	9.8	11.6	Sat	29	29	31.7	112.1	Sat
973	2078-07-09	Sat	10.2	28.1	9	Rmd	30	29.4	Sun	12.5	22.6	Sun	30	29	22.8	-57.6	12.2	22.4	Sun	30	29	24.5	-52.9	8.1	18.3	Sun	29	29	33.1	13.4	Mon
974	2078-08-07	Sun	19.9	27.9	10	Shl	31	29.5	Tue	12.9	32.8	Tue	29	29	17.6	145	12.5	32.4	Tue	29	29	20.7	152.9	7.8	27.7	Mon	30	30	30.1	-133.5	Tue
975	2078-09-06	Tue	8.0	27.5	11	Qdh	30	29.6	Wed	15.2	23.2	Wed	30	29	5.3	-77.6	14.7	22.7	Wed	30	29	9	-68.7	10.2	18.2	Wed	30	29	16.5	-1.4	Wed
976	2078-10-05	Wed	23.1	27.1	12	Hjh	31	29.7	Fri	17.9	41.0	Fri	30	29	-10	13.9	17.3	40.4	Fri	30	29	-10	23.1	13.3	36.5	Fri	30	29	-4.8	81.3	Fri
977	2078-11-04	Fri	17.0	26.7	1	Mhr	31	29.8	Sun	18.6	35.6	Sun	30	29	-21.6	99.5	18.0	35.0	Sun	30	29	-22.9	108.7	14.3	31.2	Sun	29	29	-21.5	164.7	Sun
978	2078-12-04	Sun	12.2	26.6	2	Sfr	31	29.8	Tue	17.0	29.2	Tue	29	29	-25.3	-157.5	16.4	28.6	Tue	29	29	-27.9	-147.3	12.3	24.5	Mon	30	30	-33	-82.8	Tue
979	2079-01-03	Tue	6.9	26.9	3	Rb1	30	29.7	Wed	14.7	21.5	Wed	30	29	-23.5	-40.3	14.1	20.9	Wed	30	29	-26.9	-29.5	9.4	16.2	Wed	30	29	-34.8	45.6	Wed
980	2079-02-01	Wed	23.6	27.2	4	Rb2	31	29.6	Fri	13.8	37.4	Fri	30	29	-15	77.7	13.3	36.9	Fri	30	29	-18.4	86.2	8.6	32.2	Fri	29	29	-28.4	160.3	Fri
981	2079-03-03	Fri	13.9	27.4	5	Jm1	31	29.5	Sun	14.4	28.2	Sun	29	29	1.2	-150	14.1	28.0	Sun	29	29	0.3	-145.5	10.3	24.1	Sat	30	30	-7.2	-87.1	Sun
982	2079-04-02	Sun	1.5	27.6	6	Jm2	30	29.4	Mon	14.7	16.2	Mon	29	29	19.6	30.2	14.6	16.1	Mon	29	29	19.2	32.1	11.3	12.9	Mon	29	29	13.7	80.2	Mon
983	2079-05-01	Mon	11.0	27.8	7	Rjb	30	29.3	Tue	13.8	24.8	Tue	30	29	30	-92.4	13.8	24.8	Tue	30	29	31.6	-91.6	10.7	21.6	Tue	29	29	31.3	-44.7	Wed
984	2079-05-30	Tue	18.7	28	8	Shn	31	29.3	Thu	12.2	30.9	Thu	29	29	32.2	-178.9	12.2	31.0	Thu	29	29	35.3	-177.3	8.8	27.5	Wed	30	30	39.8	-122.3	Thu
985	2079-06-29	Thu	1.6	28.1	9	Rmd	30	29.3	Fri	11.1	12.7	Fri	29	29	30	96.1	11.1	12.6	Fri	29	29	31	97.7	7	8.6	Fri	29	29	40.5	165.1	Fri
986	2079-07-28	Fri	8.6	28	10	Shl	30	29.4	Sat	11.7	20.3	Sat	30	29	19.6	-24.7	11.5	20.1	Sat	30	29	22.1	-21.1	7.3	15.9	Sat	29	29	32.9	47.7	Sat
987	2079-08-26	Sat	17.1	27.7	11	Qdh	31	29.5	Mon	13.9	31.0	Mon	29	29	3	166.8	13.6	30.7	Mon	29	29	3.9	171.3	9.8	26.9	Sun	30	30	12.8	-129.7	Mon
988	2079-09-25	Mon	4.1	27.2	12	Hjh	30	29.6	Tue	16.3	20.4	Tue	30	29	-16	-37.1	15.9	20.1	Tue	30	29	-16.1	-31.7	12.4	16.5	Tue	30	29	-12	21.2	Tue

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
989	2079-10-24	Tue	18.4	26.8	1	Mhr	31	29.7	Thu	17.2	35.6	Thu	30	29	-28	99.6	16.8	35.1	Thu	30	29	-30.4	107.2	13.1	31.5	Thu	29	29	-29.5	161.4	Thu
990	2079-11-23	Thu	11.5	26.6	2	Sfr	31	29.8	Sat	16.4	27.9	Sat	29	29	-32.8	-137	15.8	27.3	Sat	29	29	-35.2	-127	11.6	23.1	Fri	30	30	-41.1	-59.5	Sat
991	2079-12-23	Sat	6.6	26.7	3	Rb1	31	29.8	Mon	15.1	21.7	Sun	30	30	-30	-40.1	14.4	21.0	Sun	30	30	-32.4	-27.6	9.3	15.9	Sun	30	30	-41.1	55.1	Sun
992	2080-01-22	Mon	2.0	27.1	4	Rb2	30	29.8	Tue	15.5	17.4	Tue	30	29	-16.2	18.1	14.7	16.7	Tue	30	29	-18.7	30.1	9.8	11.7	Tue	30	29	-28.4	109.2	Tue
993	2080-02-20	Tue	20.2	27.3	5	Jm1	31	29.7	Thu	16.7	36.9	Thu	30	29	4.8	79.4	16.2	36.4	Thu	30	29	2.1	88.2	12.1	32.3	Thu	29	29	-3.3	149.8	Thu
994	2080-03-21	Thu	12.1	27.5	6	Jm2	31	29.5	Sat	16.6	28.7	Sat	29	29	24.5	-158.2	16.3	28.4	Sat	29	29	24.1	-153.2	12.8	24.9	Fri	30	30	22.2	-101.1	Sat
995	2080-04-20	Sat	1.0	27.7	7	Rjb	30	29.4	Sun	14.9	15.9	Sun	29	29	35.6	41	14.7	15.7	Sun	29	29	37.8	44.2	11.3	12.3	Sun	29	29	41.5	96.6	Sun
996	2080-05-19	Sun	11.0	27.9	8	Shn	30	29.3	Mon	12.6	23.5	Mon	30	29	38.4	-65.9	12.5	23.5	Mon	30	29	41.8	-62.7	8.7	19.7	Mon	29	29	47.6	-1.3	Tue
997	2080-06-17	Mon	18.7	28.1	9	Rmd	31	29.3	Wed	11.1	29.9	Wed	29	29	33.4	-159.8	11.1	29.8	Wed	29	29	35.3	-157.7	6.9	25.6	Tue	30	30	45.7	-85.9	Wed
998	2080-07-17	Wed	1.4	28.1	10	Shl	30	29.3	Thu	11.6	12.9	Thu	29	29	20.3	86.6	11.5	12.9	Thu	29	29	21.2	88.1	7.5	8.9	Thu	29	29	31.2	153.2	Thu
999	2080-08-15	Thu	8.3	27.8	11	Qdh	30	29.3	Fri	13.2	21.4	Fri	30	29	1.3	-49.5	13.1	21.4	Fri	30	29	2.4	-48	9.7	17.9	Fri	30	29	9	5.2	Fri
1000	2080-09-13	Fri	16.5	27.4	12	Hjh	31	29.4	Sun	14.6	31.0	Sun	29	29	-20	163.4	14.4	30.9	Sun	29	29	-19.5	165.2	11.3	27.7	Sun	29	29	-18.6	-147	Sun
1001	2080-10-13	Sun	2.8	27	1	Mhr	30	29.5	Mon	14.8	17.6	Mon	30	29	-36.5	9.6	14.7	17.4	Mon	30	29	-36.6	12.3	11.3	14.0	Mon	29	29	-39.7	64.1	Mon
1002	2080-11-11	Mon	15.7	26.7	2	Sfr	31	29.6	Wed	14.2	29.9	Wed	29	29	-41.1	-164.7	13.9	29.6	Wed	29	29	-42	-159.5	9.8	25.5	Tue	30	30	-50.4	-91.2	Wed
1003	2080-12-11	Wed	7.2	26.7	3	Rb1	31	29.7	Fri	14.1	21.3	Thu	30	30	-35.2	-32.5	13.6	20.7	Thu	30	30	-36.3	-23.3	8.6	15.8	Thu	30	30	-45.9	59.6	Thu
1004	2081-01-10	Fri	1.1	26.9	4	Rb2	30	29.8	Sat	15.8	16.9	Sat	30	29	-20	27.9	15.1	16.2	Sat	30	29	-21	39.3	10.3	11.3	Sat	30	29	-28.2	115.3	Sat
1005	2081-02-08	Sat	20.3	27.2	5	Jm1	31	29.8	Mon	18.1	38.4	Mon	30	29	5.7	57.3	17.4	37.7	Mon	30	29	4	67.7	13.3	33.6	Mon	30	29	-1.6	130.6	Mon
1006	2081-03-10	Mon	15.3	27.5	6	Jm2	31	29.7	Wed	18.3	33.7	Wed	29	29	27.7	126.8	17.8	33.1	Wed	29	29	27.8	134.9	14.1	29.4	Wed	29	29	27.6	-169.2	Wed
1007	2081-04-09	Wed	8.3	27.6	7	Rjb	30	29.6	Thu	16.4	24.7	Thu	30	29	44.3	-90.7	16.0	24.3	Thu	30	29	40	-85.9	12.1	20.4	Thu	30	29	48.5	-25.2	Thu
1008	2081-05-08	Thu	22.2	27.8	8	Shn	31	29.5	Sat	13.8	36.0	Sat	29	29	45.1	109.3	13.5	35.7	Sat	29	29	46.9	115.1	9.2	31.3	Sat	29	29	56.7	-170.3	Sat
1009	2081-06-07	Sat	9.1	28	9	Rmd	30	29.4	Sun	12.4	21.5	Sun	30	29	38.5	-31.6	12.2	21.2	Sun	30	29	39.7	-27	7.6	16.6	Sun	29	29	49.2	51	Mon
1010	2081-07-06	Sun	17.8	28.1	10	Shl	31	29.3	Tue	12.7	30.5	Tue	29	29	20.9	-176.1	12.6	30.3	Tue	29	29	22	-173.1	8.6	26.4	Mon	30	30	32.3	-108	Tue
1011	2081-08-05	Tue	1.4	28	11	Qdh	30	29.3	Wed	13.6	15.1	Wed	29	29	-1.7	46	13.5	15.0	Wed	29	29	0	47.6	10.2	11.7	Wed	29	29	2.9	98.1	Wed
1012	2081-09-03	Wed	9.1	27.6	12	Hjh	30	29.3	Thu	13.8	22.9	Thu	30	29	-25.6	-76.3	13.8	22.9	Thu	30	29	-23.8	-75.9	10.8	19.8	Thu	30	29	-23.5	-30.1	Fri
1013	2081-10-02	Thu	17.4	27.1	1	Mhr	31	29.4	Sat	13.1	30.5	Sat	29	29	-42.6	174.4	13.1	30.5	Sat	29	29	-42	174.1	9.8	27.3	Sat	29	29	-46.1	-136.1	Sat
1014	2081-11-01	Sat	3.1	26.7	2	Sfr	30	29.5	Sun	12.1	15.2	Sun	30	29	-46.8	55.3	12.1	15.2	Sun	30	29	-47.8	56.5	8	11.1	Sun	29	29	-58.6	126.2	Sun
1015	2081-11-30	Sun	14.6	26.6	3	Rb1	31	29.6	Tue	12.4	27.0	Tue	29	29	-38.6	-118.1	12.2	26.8	Tue	29	29	-39.8	-113.8	7.5	22.2	Mon	30	30	-50.4	-34.4	Tue
1016	2081-12-30	Tue	4.5	26.8	4	Rb2	30	29.7	Wed	14.7	19.2	Wed	30	29	-17.9	-9.1	14.3	18.8	Wed	30	29	-20.1	-1.5	10	14.5	Wed	30	29	-29.4	68.4	Wed
1017	2082-01-28	Wed	20.8	27.1	5	Jm1	31	29.8	Fri	17.5	38.3	Fri	30	29	7.2	57.7	16.9	37.8	Fri	30	29	5.3	66.2	13.1	33.9	Fri	30	29	2.3	124.5	Fri
1018	2082-02-27	Fri	14.8	27.4	6	Jm2	31	29.8	Sun	18.3	33.2	Sun	29	29	32	131.5	17.8	32.6	Sun	29	29	30.3	140.1	14	28.9	Sun	29	29	32.5	-163.9	Sun
1019	2082-03-29	Sun	9.1	27.6	7	Rjb	31	29.7	Tue	16.9	26.0	Mon	30	30	49.4	-113.7	16.4	25.5	Mon	30	30	49.7	-105.3	12.2	21.3	Mon	30	30	56.5	-40.9	Tue
1020	2082-04-28	Tue	2.1	27.7	8	Shn	30	29.6	Wed	14.9	16.9	Wed	30	29	51.8	35.7	14.3	16.4	Wed	30	29	53	45	9.3	11.4	Wed	29	29	60	126.6	Wed
1021	2082-05-27	Wed	16.8	28	9	Rmd	31	29.5	Fri	14.2	31.0	Fri	29	29	38.9	-176.2	13.7	30.5	Fri	29	29	42	-166	8.6	25.5	Thu	30	30	51.8	-80.8	Fri
1022	2082-06-26	Fri	5.3	28.1	10	Shl	30	29.4	Sat	14.8	20.1	Sat	30	29	19.2	-21.8	14.5	19.8	Sat	30	29	24	-13.9	10.3	15.6	Sat	29	29	29	51.2	Sat
1023	2082-07-25	Sat	15.9	28.1	11	Qdh	31	29.4	Mon	15.2	31.2	Mon	29	29	-4.4	163.7	15.0	30.9	Mon	29	29	-2	167.8	11.6	27.5	Sun	30	30	0.1	-140.2	Mon
1024	2082-08-24	Mon	1.3	27.7	12	Hjh	30	29.4	Tue	14.4	15.8	Tue	29	29	-26.8	29.4	14.4	15.7	Tue	29	29	-25.6	30.9	11.2	12.5	Tue	29	29	-28	78.1	Tue
1025	2082-09-22	Tue	10.1	27.3	1	Mhr	30	29.4	Wed	12.7	22.8	Wed	30	29	-47	-72.9	12.8	22.9	Wed	30	29	-46.1	-73.5	9.3	19.4	Wed	29	29	-53.8	-21.9	Thu
1026	2082-10-21	Wed	18.9	26.9	2	Sfr	31	29.4	Fri	11.2	30.1	Fri	29	29	-53.7	-167.6	11.3	30.2	Fri	29	29	-52	-170.4	7.3	26.1	Thu	30	30	-59.5	-104.6	Fri

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
1027	2082-11-20	Fri	4.4	26.6	3	Rb1	30	29.5	Sat	11.4	15.7	Sat	30	29	-43.2	51.8	11.4	15.7	Sat	30	29	-43.7	52.2	7	11.3	Sat	29	29	-55.5	129.9	Sat
1028	2082-12-19	Sat	15.2	26.7	4	Rb2	31	29.5	Mon	13.5	28.7	Mon	29	29	-19.8	-150.7	13.3	28.5	Mon	29	29	-21.1	-148	9.5	24.8	Sun	30	30	-28.1	-87.5	Mon
1029	2083-01-18	Mon	3.9	27	5	Jm1	30	29.6	Tue	15.7	19.6	Tue	30	29	9.3	-23.2	15.4	19.3	Tue	30	29	7.6	-18.7	12	15.9	Tue	30	29	4.3	33.8	Tue
1030	2083-02-16	Tue	18.3	27.3	6	Jm2	31	29.7	Thu	16.4	34.7	Thu	29	29	34.7	105.3	16.1	34.4	Thu	29	29	32.3	111.2	12.5	30.8	Thu	29	29	36	163.2	Thu
1031	2083-03-18	Thu	10.0	27.5	7	Rjb	31	29.7	Sat	15.6	25.6	Fri	30	30	54.8	-111.7	15.2	25.2	Fri	30	30	52.7	-104.9	11	20.9	Fri	30	30	60	-41.5	Sat
1032	2083-04-17	Sat	2.2	27.7	8	Shn	30	29.7	Sun	14.7	16.8	Sun	30	29	57.1	35.8	14.1	16.3	Sun	30	29	58.7	45.4	9	11.2	Sun	29	29	60	122.1	Sun
1033	2083-05-16	Sun	18.3	27.9	9	Rmd	31	29.6	Tue	15.3	33.6	Tue	29	29	43.6	146.6	14.6	32.9	Tue	29	29	45	158	9.4	27.6	Mon	30	30	54.7	-114.1	Tue
1034	2083-06-15	Tue	9.7	28.1	10	Shl	30	29.6	Wed	16.9	26.6	Wed	30	29	19.9	-118.2	16.3	25.9	Wed	30	29	22.1	-108	12	21.7	Wed	30	29	30.1	-39.7	Thu
1035	2083-07-14	Wed	23.9	28.1	11	Qdh	31	29.5	Fri	17.3	41.3	Fri	30	29	-5.5	11.1	16.9	40.8	Fri	30	29	-4.2	18.5	13.2	37.2	Fri	29	29	-4	73.1	Fri
1036	2083-08-13	Fri	12.8	27.9	12	Hjh	31	29.5	Sun	15.9	28.7	Sun	29	29	-30	-167.2	15.6	28.4	Sun	29	29	-28.6	-162.3	12.1	24.9	Sat	30	30	-33.6	-111.3	Sun
1037	2083-09-12	Sun	0.2	27.5	1	Mhr	30	29.4	Mon	13.5	13.7	Mon	29	29	-50.4	60.2	13.4	13.6	Mon	29	29	-48.9	62.3	9.6	9.7	Mon	29	29	-57.6	118.2	Mon
1038	2083-10-11	Mon	10.4	27	2	Sfr	30	29.4	Tue	11.6	22.0	Tue	30	29	-59.2	-49.8	11.7	22.1	Tue	30	29	-57.1	-51.5	7.5	17.9	Tue	30	29	-60	12.4	Wed
1039	2083-11-09	Tue	20.3	26.7	3	Rb1	31	29.4	Thu	11.7	32.0	Thu	29	29	-44.7	165.6	11.7	32.0	Thu	29	29	-46.2	166.5	7.4	27.7	Thu	29	29	-58.7	-116.5	Thu
1040	2083-12-09	Thu	6.5	26.7	4	Rb2	30	29.5	Fri	13.2	19.6	Fri	30	29	-22	-15.2	13.1	19.6	Fri	30	29	-21.8	-15.1	9.7	16.1	Fri	30	29	-27.3	40	Fri
1041	2084-01-07	Fri	17.3	26.9	5	Jm1	31	29.5	Sun	14.3	31.6	Sun	29	29	8	155.3	14.2	31.5	Sun	29	29	6.6	156.7	11.1	28.4	Sun	29	29	5.7	-156.1	Sun
1042	2084-02-06	Sun	4.9	27.2	6	Jm2	30	29.5	Mon	14.2	19.1	Mon	30	29	37.9	-24.2	14.1	19.0	Mon	30	29	35	-21.2	10.8	15.7	Mon	29	29	40.3	26.1	Mon
1043	2084-03-06	Mon	17.1	27.5	7	Rjb	31	29.5	Wed	13.3	30.4	Wed	29	29	58.5	170	13.1	30.2	Wed	29	29	55.4	173.4	9.1	26.2	Tue	30	30	60	-127.3	Wed
1044	2084-04-05	Wed	5.9	27.6	8	Shn	30	29.6	Thu	13.2	19.1	Thu	30	29	60	-2.5	12.9	18.8	Thu	30	29	60	2.4	8.2	14.2	Thu	30	29	60	71.5	Thu
1045	2084-05-04	Thu	19.6	27.8	9	Rmd	31	29.6	Sat	15.0	34.5	Sat	29	29	45.2	129.8	14.4	34.0	Sat	29	29	48.3	139.9	9.5	29.1	Sat	29	29	57.1	-138.7	Sat
1046	2084-06-03	Sat	10.3	28	10	Shl	31	29.6	Mon	17.5	27.7	Sun	30	30	21	-136.2	16.8	27.1	Sun	30	30	22.4	-126.1	12.7	23.0	Sun	30	30	27.4	-61.3	Mon
1047	2084-07-03	Mon	1.7	28.1	11	Qdh	30	29.6	Tue	18.5	20.2	Tue	30	29	-6	-33	17.9	19.6	Tue	30	29	-4.1	-23.2	14.1	15.8	Tue	30	29	-5	33.2	Tue
1048	2084-08-01	Tue	17.1	28	12	Hjh	31	29.6	Thu	17.2	34.3	Thu	29	29	-33	105.6	16.7	33.8	Thu	29	29	-31.4	114.2	12.9	30.0	Thu	29	29	-35.5	170.2	Thu
1049	2084-08-31	Thu	7.8	27.6	1	Mhr	30	29.6	Fri	14.8	22.6	Fri	30	29	-53	-78.1	14.4	22.2	Fri	30	29	-51.4	-71.5	10	17.8	Fri	30	29	-59.9	-9.5	Fri
1050	2084-09-29	Fri	21.3	27.2	2	Sfr	31	29.5	Sun	13.0	34.3	Sun	29	29	-60	119.6	12.8	34.1	Sun	29	29	-57.9	122.5	8.3	29.6	Sun	29	29	-59.7	-170.1	Sun
1051	2084-10-29	Sun	9.8	26.8	3	Rb1	30	29.5	Mon	13.2	23.0	Mon	30	29	-47	-62.6	13.1	22.9	Mon	30	29	-46	-61	8.6	18.5	Mon	30	29	-59.3	15.6	Tue
1052	2084-11-27	Mon	21.7	26.6	4	Rb2	31	29.5	Wed	14.2	35.9	Wed	29	29	-20.2	98.4	14.1	35.8	Wed	29	29	-23.1	101.4	10.6	32.3	Wed	29	29	-27.6	155.5	Wed
1053	2084-12-27	Wed	9.2	26.8	5	Jm1	30	29.5	Thu	14.2	23.3	Thu	30	29	8.3	-82.4	14.2	23.3	Thu	30	29	6.4	-80.9	11.1	20.2	Thu	30	29	7.1	-35.3	Fri
1054	2085-01-25	Thu	20.2	27.1	6	Jm2	31	29.4	Sat	13.0	33.1	Sat	29	29	36.7	123	13.0	33.1	Sat	29	29	34.9	123.8	9.8	29.9	Sat	29	29	43.4	167.4	Sat
1055	2085-02-24	Sat	6.6	27.4	7	Rjb	30	29.4	Sun	11.5	18.1	Sun	30	29	58.5	-11.7	11.6	18.2	Sun	30	29	56.5	-11.7	7.7	14.3	Sun	29	29	60	44.8	Sun
1056	2085-03-25	Sun	16.7	27.6	8	Shn	31	29.4	Tue	11.6	28.3	Tue	29	29	60	-146.5	11.6	28.2	Tue	29	29	60	-146	7.4	24.0	Mon	30	30	60	-83.5	Tue
1057	2085-04-24	Tue	3.0	27.7	9	Rmd	30	29.5	Wed	13.8	16.8	Wed	30	29	46.6	33.5	13.5	16.5	Wed	30	29	46.5	37.1	9.3	12.4	Wed	29	29	50	101.6	Wed
1058	2085-05-23	Wed	14.4	27.9	10	Shl	31	29.5	Fri	16.4	30.8	Fri	29	29	21.8	177.1	16.0	30.4	Fri	29	29	20	-178	12.2	26.6	Thu	30	30	26	-118.7	Fri
1059	2085-06-22	Fri	3.3	28.1	11	Qdh	30	29.6	Sat	17.6	21.0	Sat	30	29	-6.9	-45.9	17.1	20.5	Sat	30	29	-4.4	-37.4	13.5	16.8	Sat	30	29	-4.3	17.1	Sat
1060	2085-07-21	Sat	17.8	28.1	12	Hjh	31	29.6	Mon	16.9	34.7	Mon	29	29	-33.8	98.1	16.4	34.1	Mon	29	29	-32	107.6	12.4	30.1	Mon	29	29	-37.6	164.5	Mon
1061	2085-08-20	Mon	9.2	27.8	1	Mhr	31	29.7	Wed	15.3	24.5	Tue	30	30	-52.4	-110.8	14.7	23.9	Tue	30	30	-52.8	-102	9.9	19.1	Tue	30	30	-59.6	-35.1	Wed
1062	2085-09-19	Wed	1.2	27.3	2	Sfr	30	29.7	Thu	14.4	15.6	Thu	30	29	-59.8	34.3	13.9	15.1	Thu	30	29	-58.7	42.2	9.1	10.3	Thu	30	29	-60	114.2	Thu
1063	2085-10-18	Thu	17.0	26.9	3	Rb1	31	29.6	Sat	15.4	32.4	Sat	29	29	-47.2	152.6	14.9	32.0	Sat	29	29	-48.2	159.8	10.4	27.4	Sat	29	29	-58	-126.1	Sat
1064	2085-11-17	Sat	8.4	26.6	4	Rb2	30	29.6	Sun	16.2	24.6	Sun	30	29	-20.9	-93.5	15.9	24.2	Sun	30	29	-22.9	-87.9	12.2	20.6	Sun	30	29	-25.5	-32.5	Mon

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
1065	2085-12-16	Sun	22.7	26.7	5	Jm1	31	29.5	Tue	15.4	38.1	Tue	29	29	9.5	55.1	15.2	37.9	Tue	29	29	6.3	59.5	11.9	34.6	Tue	29	29	10.4	106.3	Tue
1066	2086-01-15	Tue	11.4	27	6	Jm2	30	29.5	Wed	13.2	24.7	Wed	30	29	36	-112.7	12.6	24.0	Wed	30	29	36	-102.2	9.7	21.2	Wed	30	29	40.4	-62.8	Thu
1067	2086-02-13	Wed	22.5	27.3	7	Rjb	31	29.4	Fri	11.2	33.7	Fri	29	29	58.3	108.2	11.3	33.8	Fri	29	29	55.5	109	7.3	29.8	Fri	29	29	60	165.7	Fri
1068	2086-03-15	Fri	8.1	27.5	8	Shn	30	29.4	Sat	11.1	19.2	Sat	30	29	60	-16.5	11.2	19.3	Sat	30	29	60	-18.3	7.2	15.3	Sat	29	29	60	41.9	Sat
1069	2086-04-13	Sat	16.9	27.7	9	Rmd	31	29.4	Mon	12.9	29.8	Mon	29	29	46.9	-165	12.8	29.8	Mon	29	29	48.2	-164.3	9.1	26.0	Sun	30	30	54.8	-104.5	Mon
1070	2086-05-13	Mon	1.7	27.9	10	Shl	30	29.4	Tue	14.7	16.5	Tue	29	29	20.3	30.1	14.6	16.3	Tue	29	29	22.4	33	11.3	13.0	Tue	29	29	25.5	84	Tue
1071	2086-06-11	Tue	11.2	28	11	Qdh	30	29.5	Wed	15.5	26.7	Wed	30	29	-6.4	-132.7	15.2	26.5	Wed	30	29	-4.9	-128.2	11.9	23.1	Wed	30	29	-8.5	-79.3	Thu
1072	2086-07-10	Wed	22.1	28.1	12	Hjh	31	29.5	Fri	15.0	37.0	Fri	29	29	-32.7	62	14.6	36.7	Fri	29	29	-31	68.6	10.7	32.8	Fri	29	29	-37.4	122.9	Fri
1073	2086-08-09	Fri	10.7	27.9	1	Mhr	31	29.6	Sun	14.1	24.8	Sat	30	30	-52	-120.2	13.7	24.3	Sat	30	30	-49	-110.9	8.8	19.5	Sat	30	30	-59.9	-47.7	Sun
1074	2086-09-08	Sun	1.3	27.5	2	Sfr	30	29.7	Mon	14.7	16.0	Mon	30	29	-59.4	22.1	14.1	15.4	Mon	30	29	-56.9	31.3	9.2	10.5	Mon	30	29	-60	104.3	Mon
1075	2086-10-07	Mon	18.0	27.1	3	Rb1	31	29.7	Wed	16.8	34.8	Wed	30	29	-45.1	112.1	16.2	34.2	Wed	30	29	-46.5	121.8	11.6	29.6	Wed	29	29	-55.6	-166.5	Wed
1076	2086-11-06	Wed	11.9	26.7	4	Rb2	31	29.7	Fri	18.2	30.1	Fri	29	29	-20.3	-178.6	17.6	29.6	Fri	29	29	-21	-170.3	13.8	25.7	Thu	30	30	-24.5	-111.5	Fri
1077	2086-12-06	Fri	5.8	26.6	5	Jm1	30	29.7	Sat	17.2	23.0	Sat	30	29	7.9	-79.3	16.7	22.6	Sat	30	29	6.6	-72.3	13.1	19.0	Sat	30	29	9.9	-19.7	Sat
1078	2087-01-04	Sat	22.2	26.9	6	Jm2	31	29.6	Mon	14.5	36.7	Mon	29	29	34.7	64.7	14.2	36.4	Mon	29	29	33.5	69.9	10.3	32.6	Mon	29	29	40.4	123.7	Mon
1079	2087-02-03	Mon	12.2	27.2	7	Rjb	30	29.5	Tue	12.2	24.4	Tue	30	29	54.8	-115.7	12.1	24.3	Tue	30	29	53.1	-112.7	7.7	19.9	Tue	30	29	60	-53.1	Wed
1080	2087-03-04	Tue	23.8	27.4	8	Shn	31	29.4	Thu	11.9	35.7	Thu	29	29	60	88.3	11.9	35.7	Thu	29	29	57.4	89.1	7.8	31.6	Thu	29	29	60	150	Thu
1081	2087-04-03	Thu	9.5	27.6	9	Rmd	30	29.4	Fri	13.1	22.6	Fri	30	29	44.5	-61.3	13.1	22.6	Fri	30	29	43.5	-61.6	9.6	19.1	Fri	30	29	52.4	-6.5	Sat
1082	2087-05-02	Fri	17.9	27.8	10	Shl	31	29.3	Sun	13.9	31.8	Sun	29	29	17.5	157.9	13.9	31.8	Sun	29	29	21	159.2	10.8	28.7	Sun	29	29	22.9	-153.7	Sun
1083	2087-06-01	Sun	1.7	28	11	Qdh	30	29.3	Mon	13.7	15.3	Mon	29	29	-7.4	37.2	13.6	15.3	Mon	29	29	-6.2	38.8	10.4	12.1	Mon	29	29	-8.2	85.2	Mon
1084	2087-06-30	Mon	9.6	28.1	12	Hjh	30	29.4	Tue	12.7	22.3	Tue	30	29	-31.8	-77.6	12.6	22.2	Tue	30	29	-29.2	-74.1	8.9	18.4	Tue	29	29	-37.1	-23.4	Wed
1085	2087-07-29	Tue	18.4	28	1	Mhr	31	29.4	Thu	12.3	30.7	Thu	29	29	-50.6	149.2	12.1	30.5	Thu	29	29	-46.3	155.8	7.4	25.8	Wed	30	30	-59.7	-148.5	Thu
1086	2087-08-28	Thu	5.2	27.7	2	Sfr	30	29.6	Fri	13.7	18.8	Fri	30	29	-53.7	-23.9	13.3	18.5	Fri	30	29	-53	-18	8.6	13.8	Fri	30	29	-60	48.4	Fri
1087	2087-09-26	Fri	18.8	27.2	3	Rb1	31	29.7	Sun	16.5	35.3	Sun	30	29	-42.3	100.4	16.0	34.8	Sun	30	29	-41.1	107.8	11.7	30.6	Sun	29	29	-52.7	172.9	Sun
1088	2087-10-26	Sun	11.5	26.8	4	Rb2	31	29.8	Tue	18.6	30.1	Tue	29	29	-20	-179.5	18.0	29.5	Tue	29	29	-20	-170.8	14.2	25.7	Mon	30	30	-23	-112.8	Tue
1089	2087-11-25	Tue	6.4	26.6	5	Jm1	31	29.8	Thu	18.1	24.5	Wed	30	30	7.9	-103.1	17.5	23.9	Wed	30	30	8	-94.2	13.6	20.1	Wed	30	30	10.5	-37.1	Wed
1090	2087-12-25	Thu	1.8	26.8	6	Jm2	30	29.7	Fri	15.8	17.5	Fri	30	29	33.4	-8.2	15.2	16.9	Fri	30	29	31.9	1.6	10.8	12.5	Fri	30	29	41.3	61.1	Fri
1091	2088-01-23	Fri	19.7	27.1	7	Rjb	31	29.6	Sun	13.9	33.6	Sun	29	29	50.6	106	13.4	33.1	Sun	29	29	50.4	112.8	8.4	28.1	Sun	29	29	60	177	Sun
1092	2088-02-22	Sun	11.2	27.4	8	Shn	31	29.5	Tue	13.9	25.1	Mon	30	30	55.2	-116.3	13.7	24.9	Mon	30	30	53.9	-111.9	9.2	20.4	Mon	30	30	60	-48.4	Tue
1093	2088-03-23	Tue	0.1	27.5	9	Rmd	30	29.4	Wed	14.7	14.7	Wed	29	29	41.3	53.6	14.5	14.5	Wed	29	29	40.1	55.9	11	11.0	Wed	29	29	49	109.6	Wed
1094	2088-04-21	Wed	10.5	27.7	10	Shl	30	29.3	Thu	14.4	24.9	Thu	30	29	18.7	-98.5	14.4	24.8	Thu	30	29	18.8	-97.2	11.2	21.7	Thu	30	29	17.4	-50.7	Fri
1095	2088-05-20	Thu	18.9	27.9	11	Qdh	31	29.3	Sat	13.1	32.0	Sat	29	29	-8.1	147.7	13.1	31.9	Sat	29	29	-6.7	148.9	9.9	28.7	Sat	29	29	-11	-165.1	Sat
1096	2088-06-19	Sat	1.9	28.1	12	Hjh	30	29.3	Sun	11.5	13.5	Sun	29	29	-32.4	53.5	11.5	13.5	Sun	29	29	-29	55.8	7.8	9.7	Sun	29	29	-39.7	104.6	Sun
1097	2088-07-18	Sun	8.7	28.1	1	Mhr	30	29.3	Mon	11.0	19.7	Mon	30	29	-46.8	-46.3	11.0	19.7	Mon	30	29	-43.5	-43.4	6.6	15.3	Mon	29	29	-59	5.6	Mon
1098	2088-08-16	Mon	16.3	27.8	2	Sfr	31	29.4	Wed	12.5	28.8	Wed	29	29	-50.3	-175.4	12.4	28.7	Wed	29	29	-47.7	-172.6	8.1	24.4	Tue	30	30	-59.4	-116.9	Wed
1099	2088-09-15	Wed	2.0	27.4	3	Rb1	30	29.5	Thu	15.1	17.1	Thu	30	29	-37.7	11.6	14.8	16.8	Thu	30	29	-37.4	15.5	11.1	13.1	Thu	30	29	-46.6	70.6	Thu
1100	2088-10-14	Thu	14.7	26.9	4	Rb2	31	29.7	Sat	17.0	31.7	Sat	29	29	-17.6	155.3	16.6	31.3	Sat	29	29	-18	161.4	13	27.7	Sat	29	29	-20	-145.3	Sat
1101	2088-11-13	Sat	6.6	26.7	5	Jm1	31	29.8	Mon	17.0	23.6	Sun	30	30	7.4	-89.3	16.5	23.0	Sun	30	30	6.3	-80.6	12.6	19.2	Sun	30	30	11.4	-25	Sun
1102	2088-12-13	Mon	0.9	26.7	6	Jm2	30	29.8	Tue	15.7	16.6	Tue	30	29	29.3	7.1	15.0	15.9	Tue	30	29	30	16.8	10.4	11.3	Tue	30	29	39	80.6	Tue

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
1103	2089-01-11	Tue	20.3	26.9	7	Rjb	31	29.8	Thu	15.0	35.3	Thu	30	29	46	79.4	14.3	34.6	Thu	30	29	45.6	90.3	8.9	29.3	Thu	29	29	57.9	156.3	Thu
1104	2089-02-10	Thu	15.3	27.3	8	Shn	31	29.7	Sat	16.1	31.4	Sat	29	29	46.9	149.2	15.5	30.8	Sat	29	29	47.8	157	10.8	26.1	Fri	30	30	58.5	-140.6	Sat
1105	2089-03-12	Sat	8.4	27.5	9	Rmd	30	29.6	Sun	16.9	25.3	Sun	30	29	35.9	-108.8	16.5	24.9	Sun	30	29	34.8	-102.6	12.8	21.2	Sun	30	29	41.8	-47	Sun
1106	2089-04-10	Sun	22.8	27.6	10	Shl	31	29.5	Tue	16.0	38.8	Tue	29	29	16.9	51.5	15.7	38.5	Tue	29	29	16.4	55.8	12.4	35.2	Tue	29	29	16.3	106.3	Tue
1107	2089-05-10	Tue	10.1	27.8	11	Qdh	30	29.4	Wed	13.8	23.9	Wed	30	29	-8	-91.6	13.6	23.7	Wed	30	29	-8.4	-88.8	10.2	20.3	Wed	29	29	-12.6	-38.4	Thu
1108	2089-06-08	Wed	18.8	28	12	Hjh	31	29.3	Fri	11.7	30.5	Fri	29	29	-29.6	159.3	11.6	30.4	Fri	29	29	-26	162.6	7.7	26.5	Thu	30	30	-38.4	-145.6	Fri
1109	2089-07-08	Fri	1.8	28.1	1	Mhr	30	29.3	Sat	11.0	12.9	Sat	29	29	-42.7	57.2	11.0	12.9	Sat	29	29	-39.4	59.7	6.7	8.6	Sat	29	29	-52.5	112	Sat
1110	2089-08-06	Sat	8.5	27.9	2	Sfr	30	29.3	Sun	12.2	20.7	Sun	30	29	-43.1	-53.4	12.2	20.7	Sun	30	29	-41.8	-52.8	8.3	16.9	Sun	29	29	-53.2	-2.9	Sun
1111	2089-09-04	Sun	16.0	27.6	3	Rb1	31	29.4	Tue	13.9	29.9	Tue	29	29	-32.9	178	13.8	29.8	Tue	29	29	-32.3	178.9	10.5	26.5	Mon	30	30	-37.5	-132.5	Tue
1112	2089-10-04	Tue	1.3	27.1	4	Rb2	30	29.5	Wed	14.8	16.1	Wed	30	29	-15.3	27.4	14.7	16.0	Wed	30	29	-15.3	29.9	11.5	12.8	Wed	29	29	-14	77.8	Wed
1113	2089-11-02	Wed	13.0	26.7	5	Jm1	31	29.6	Fri	14.7	27.6	Fri	29	29	8.9	-149.8	14.3	27.3	Fri	29	29	7.3	-144.4	10.7	23.7	Thu	30	30	12.7	-91.8	Fri
1114	2089-12-02	Fri	3.2	26.6	6	Jm2	30	29.7	Sat	14.0	17.3	Sat	30	29	26.9	-2.3	13.5	16.8	Sat	30	29	27.3	4.9	9	12.3	Sat	30	29	37.8	66.3	Sat
1115	2089-12-31	Sat	20.0	26.8	7	Rjb	31	29.8	Mon	14.7	34.6	Mon	30	29	40.6	91.3	14.0	34.0	Mon	30	29	38.7	102.3	8.9	28.9	Mon	29	29	52.1	166.4	Mon
1116	2090-01-30	Mon	14.6	27.2	8	Shn	31	29.8	Wed	16.9	31.6	Wed	30	29	40.3	146.1	16.3	30.9	Wed	30	29	39.7	156	11.8	26.4	Tue	30	30	50.7	-143.2	Wed
1117	2090-03-01	Wed	9.8	27.4	9	Rmd	31	29.8	Fri	18.5	28.3	Fri	29	29	29.6	-154.8	17.9	27.7	Fri	29	29	30	-146.2	14.1	23.9	Thu	30	30	35.1	-88.9	Fri
1118	2090-03-31	Fri	3.8	27.6	10	Shl	30	29.6	Sat	17.7	21.5	Sat	30	29	11.2	-49.8	17.1	21.0	Sat	30	29	10.3	-41.8	13.4	17.3	Sat	30	29	10.8	13.3	Sat
1119	2090-04-29	Sat	19.2	27.8	11	Qdh	31	29.5	Mon	15.2	34.5	Mon	29	29	-8.6	110.9	14.7	34.0	Mon	29	29	-9	117.9	10.8	30.0	Mon	29	29	-16.3	175.2	Mon
1120	2090-05-29	Mon	7.5	28	12	Hjh	30	29.4	Tue	13.0	20.6	Tue	30	29	-24.2	-48.2	12.6	20.2	Tue	30	29	-25.2	-43.1	8.2	15.7	Tue	29	29	-36.7	17.2	Tue
1121	2090-06-27	Tue	17.2	28.1	1	Mhr	31	29.3	Thu	12.4	29.6	Thu	29	29	-36	169.8	12.2	29.4	Thu	29	29	-34.5	173.7	7.8	25.0	Wed	30	30	-46.7	-130	Thu
1122	2090-07-27	Thu	1.4	28	2	Sfr	30	29.3	Fri	13.1	14.5	Fri	29	29	-36.6	40.8	13.1	14.4	Fri	29	29	-33.6	43.2	9.4	10.7	Fri	29	29	-43.5	92.7	Fri
1123	2090-08-25	Fri	9.0	27.7	3	Rb1	30	29.3	Sat	13.8	22.9	Sat	30	29	-28.2	-77	13.8	22.8	Sat	30	29	-27	-76.4	10.7	19.7	Sat	30	29	-30.9	-30.1	Sun
1124	2090-09-23	Sat	17.1	27.3	4	Rb2	31	29.4	Mon	13.6	30.7	Mon	29	29	-11.5	168.2	13.6	30.7	Mon	29	29	-10.5	168.8	10.5	27.6	Mon	29	29	-9.7	-145.3	Mon
1125	2090-10-23	Mon	2.2	26.8	5	Jm1	30	29.4	Tue	12.7	14.9	Tue	29	29	9.2	41.9	12.6	14.8	Tue	29	29	7.8	44	9.1	11.3	Tue	29	29	16.8	93.8	Tue
1126	2090-11-21	Tue	12.9	26.6	6	Jm2	31	29.5	Thu	12.1	24.9	Wed	30	30	24.8	-116.1	11.9	24.7	Wed	30	30	25.8	-113.3	7.6	20.5	Wed	30	30	36.3	-54.8	Thu
1127	2090-12-21	Thu	1.5	26.7	7	Rjb	30	29.6	Fri	13.3	14.8	Fri	30	29	34.7	30.6	13.0	14.5	Fri	30	29	32.6	37.5	8.4	9.9	Fri	30	29	45.6	95.6	Fri
1128	2091-01-19	Fri	16.6	27	8	Shn	31	29.7	Sun	16.1	32.6	Sun	30	29	33.3	130.3	15.7	32.2	Sun	29	29	33.2	137	11.6	28.1	Sun	29	29	40	-165.8	Sun
1129	2091-02-18	Sun	9.7	27.3	9	Rmd	31	29.8	Tue	18.1	27.8	Tue	29	29	25.2	-148.3	17.6	27.3	Mon	30	30	23.2	-139.7	13.9	23.6	Mon	30	30	27.8	-85	Tue
1130	2091-03-20	Tue	3.8	27.5	10	Shl	30	29.7	Wed	17.9	21.7	Wed	30	29	9.4	-52.8	17.3	21.1	Wed	30	29	8.9	-43.4	13.4	17.2	Wed	30	29	4.7	14.4	Wed
1131	2091-04-18	Wed	21.4	27.7	11	Qdh	31	29.7	Fri	16.0	37.4	Fri	29	29	-10	68.3	15.3	36.6	Fri	29	29	-10.6	78.9	10.9	32.3	Fri	29	29	-18.3	143.1	Fri
1132	2091-05-18	Fri	13.2	27.9	12	Hjh	31	29.6	Sun	14.4	27.6	Sat	30	30	-22	-152.1	13.7	26.9	Sat	30	30	-22.4	-142	8.8	21.9	Sat	30	30	-35.4	-73.3	Sun
1133	2091-06-17	Sun	2.7	28.1	1	Mhr	30	29.5	Mon	14.5	17.2	Mon	30	29	-27.5	0.3	14.0	16.7	Mon	30	29	-27.6	7.8	9.4	12.1	Mon	29	29	-38.8	69.8	Mon
1134	2091-07-16	Mon	14.3	28.1	2	Sfr	31	29.4	Wed	15.1	29.4	Wed	29	29	-26.6	179.9	14.8	29.1	Wed	29	29	-26.6	-175.8	11.1	25.4	Tue	30	30	-33.4	-123	Wed
1135	2091-08-15	Wed	0.4	27.9	3	Rb1	30	29.4	Thu	15.0	15.4	Thu	29	29	-18.9	36	14.8	15.2	Thu	29	29	-19.3	38.3	11.6	12.0	Thu	29	29	-21	86.5	Thu
1136	2091-09-13	Thu	9.6	27.4	4	Rb2	30	29.4	Fri	13.8	23.4	Fri	30	29	-5.1	-81.2	13.7	23.3	Fri	30	29	-5.2	-79.8	10.5	20.1	Fri	29	29	1.2	-32.3	Sat
1137	2091-10-12	Fri	18.5	27	5	Jm1	31	29.4	Sun	12.0	30.6	Sun	29	29	10.9	167.5	12.0	30.5	Sun	29	29	10.1	168.9	8.4	26.9	Sat	30	30	19.3	-139.4	Sun
1138	2091-11-11	Sun	3.7	26.7	6	Jm2	30	29.4	Mon	11.1	14.9	Mon	29	29	22.6	36	11.1	14.8	Mon	29	29	22.3	37.5	6.9	10.7	Mon	29	29	35.5	93.9	Mon
1139	2091-12-10	Mon	13.9	26.7	7	Rjb	31	29.5	Wed	12.3	26.2	Tue	30	30	26.9	-136.2	12.2	26.1	Tue	30	30	26.8	-134.5	8.1	22.1	Tue	30	30	38.9	-81.4	Wed
1140	2092-01-09	Wed	1.7	26.9	8	Shn	30	29.6	Thu	14.6	16.3	Thu	30	29	26.8	17.1	14.4	16.1	Thu	30	29	23.5	21.7	10.9	12.5	Thu	30	29	31.5	70.6	Thu

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
1141	2092-02-07	Thu	15.1	27.2	9	Rmd	31	29.6	Sat	16.2	31.3	Sat	29	29	17.4	160.2	15.9	31.0	Sat	29	29	16.8	164.9	12.5	27.6	Sat	29	29	18	-144.4	Sat
1142	2092-03-08	Sat	6.0	27.5	10	Shl	30	29.7	Sun	16.2	22.2	Sun	30	29	3.5	-59.4	15.7	21.7	Sun	30	29	4.2	-52.5	12	18.0	Sun	30	29	-1	3.9	Sun
1143	2092-04-06	Sun	21.7	27.6	11	Qdh	31	29.7	Tue	15.2	36.9	Tue	30	29	-9.4	76.7	14.5	36.2	Tue	29	29	-10.1	86.7	10	31.7	Tue	29	29	-18.9	152.8	Tue
1144	2092-05-06	Tue	13.7	27.8	12	Hjh	31	29.7	Thu	14.8	28.5	Thu	29	29	-20	-164.2	14.1	27.7	Wed	30	30	-18.5	-151.9	8.9	22.6	Wed	30	30	-33	-79.5	Thu
1145	2092-06-05	Thu	5.3	28	1	Mhr	30	29.6	Fri	16.1	21.4	Fri	30	29	-21.2	-60.4	15.4	20.7	Fri	30	29	-21.4	-49.8	10.7	16.0	Fri	30	29	-31	15.7	Fri
1146	2092-07-04	Fri	20.2	28.1	2	Sfr	31	29.6	Sun	17.3	37.6	Sun	29	29	-17.9	61.1	16.8	37.0	Sun	29	29	-17.2	69.4	12.9	33.1	Sun	29	29	-21.9	125.9	Sun
1147	2092-08-03	Sun	10.0	28	3	Rb1	30	29.5	Mon	16.9	26.8	Mon	30	29	-12.1	-133.7	16.5	26.4	Mon	30	29	-9.8	-127.2	13	22.9	Mon	30	29	-11.1	-74.9	Tue
1148	2092-09-01	Mon	22.3	27.6	4	Rb2	31	29.5	Wed	14.9	37.2	Wed	29	29	-2	72.7	14.6	36.9	Wed	29	29	0	77.4	11.1	33.4	Wed	29	29	3.1	130.7	Wed
1149	2092-10-01	Wed	9.3	27.1	5	Jm1	30	29.4	Thu	12.6	21.9	Thu	30	29	11.1	-61.8	12.4	21.7	Thu	30	29	12.1	-58.4	8.5	17.8	Thu	29	29	22.3	-0.6	Fri
1150	2092-10-30	Thu	19.5	26.8	6	Jm2	31	29.4	Sat	11.6	31.1	Sat	29	29	20.6	154.5	11.4	31.0	Sat	29	29	19.9	157.1	7.2	26.7	Fri	30	30	34.2	-144.1	Sat
1151	2092-11-29	Sat	5.6	26.6	7	Rjb	30	29.4	Sun	12.4	18.1	Sun	30	29	21.1	-11.5	12.3	18.0	Sun	30	29	19.7	-9.9	8.6	14.2	Sun	29	29	30.4	41.7	Sun
1152	2092-12-28	Sun	16.2	26.8	8	Shn	31	29.5	Tue	13.8	30.1	Tue	29	29	17.6	173	13.8	30.0	Tue	29	29	16.1	174.3	10.6	26.8	Mon	30	30	22.9	-140.6	Tue
1153	2093-01-27	Tue	3.4	27.1	9	Rmd	30	29.5	Wed	14.4	17.8	Wed	30	29	11.1	4	14.2	17.7	Wed	30	29	7.7	6.8	11.1	14.5	Wed	29	29	9.9	52.7	Wed
1154	2093-02-25	Wed	15.1	27.4	10	Shl	31	29.5	Fri	13.8	28.9	Fri	29	29	0.2	-160.1	13.6	28.7	Fri	29	29	-0.5	-156.6	10.1	25.2	Thu	30	30	-7	-102.9	Fri
1155	2093-03-27	Fri	3.3	27.6	11	Qdh	30	29.5	Sat	13.2	16.5	Sat	30	29	-10.5	23.5	12.8	16.1	Sat	30	29	-10.8	29.8	8.5	11.8	Sat	29	29	-22.1	93.8	Sat
1156	2093-04-25	Sat	16.3	27.7	12	Hjh	31	29.6	Mon	13.9	30.2	Mon	29	29	-16	173.6	13.3	29.6	Mon	29	29	-16.2	-177.5	8.5	24.8	Sun	30	30	-28.3	-108.5	Mon
1157	2093-05-25	Mon	6.2	27.9	1	Mhr	30	29.6	Tue	16.2	22.4	Tue	30	29	-14.9	-71.4	15.6	21.7	Tue	30	29	-14.6	-61.6	11.1	17.3	Tue	30	29	-23.9	0.7	Tue
1158	2093-06-23	Tue	21.1	28.1	2	Sfr	31	29.6	Thu	18.2	39.3	Thu	30	29	-9.9	37.7	17.6	38.7	Thu	30	29	-10	46.9	13.7	34.8	Thu	29	29	-13.3	104	Thu
1159	2093-07-23	Thu	12.6	28.1	3	Rb1	31	29.6	Sat	18.1	30.8	Sat	29	29	-4.8	169.3	17.6	30.2	Sat	29	29	-1.3	179.1	13.8	26.4	Fri	30	30	-3.2	-125.2	Sat
1160	2093-08-22	Sat	3.9	27.8	4	Rb2	30	29.6	Sun	16.2	20.1	Sun	30	29	5.3	-29.6	15.6	19.6	Sun	30	29	7.3	-20.7	11.7	15.6	Sun	29	29	11.7	40	Sun
1161	2093-09-20	Sun	18.3	27.3	5	Jm1	31	29.6	Tue	14.0	32.3	Tue	29	29	12.9	144.7	13.4	31.8	Tue	29	29	15	152.7	9	27.3	Mon	30	30	23.9	-139.8	Tue
1162	2093-10-20	Tue	7.6	26.9	6	Jm2	30	29.5	Wed	13.1	20.7	Wed	30	29	16	-47.2	12.8	20.4	Wed	30	29	18.1	-41.9	8.2	15.8	Wed	30	29	29	24.1	Wed
1163	2093-11-18	Wed	20.0	26.6	7	Rjb	31	29.5	Fri	13.8	33.8	Fri	29	29	14.2	114.6	13.6	33.6	Fri	29	29	12.3	118.5	9.8	29.8	Fri	29	29	23	171	Fri
1164	2093-12-18	Fri	7.8	26.7	8	Shn	30	29.5	Sat	14.4	22.2	Sat	30	29	8	-66.3	14.3	22.1	Sat	30	29	7.8	-65.3	11.1	19.0	Sat	30	29	13.3	-20.1	Sun
1165	2094-01-16	Sat	19.1	27	9	Rmd	31	29.4	Mon	13.7	32.9	Mon	29	29	2.5	139.7	13.7	32.8	Mon	29	29	0.3	141.1	10.6	29.7	Mon	29	29	0.3	-172.9	Mon
1166	2094-02-15	Mon	5.8	27.3	10	Shl	30	29.4	Tue	12.3	18.1	Tue	29	29	-4.8	4.6	12.2	18.0	Tue	29	29	-7.5	6.5	8.8	14.5	Tue	29	29	-12.6	59.1	Tue
1167	2094-03-16	Tue	15.8	27.5	11	Qdh	31	29.4	Thu	11.5	27.3	Wed	30	30	-11.8	-135.7	11.3	27.1	Wed	30	30	-11	-133.1	7.2	23.0	Wed	30	30	-23.8	-70.9	Thu
1168	2094-04-15	Thu	1.7	27.7	12	Hjh	30	29.4	Fri	12.6	14.2	Fri	29	29	-13	55	12.3	14.0	Fri	29	29	-10.2	59.7	8	9.7	Fri	29	29	-23	121.7	Fri
1169	2094-05-14	Fri	12.2	27.9	1	Mhr	31	29.5	Sun	15.1	27.3	Sat	30	30	-7.4	-141.4	14.7	26.9	Sat	30	30	-5.2	-135.3	10.8	23.0	Sat	30	30	-14.7	-80.3	Sun
1170	2094-06-13	Sun	0.1	28.1	2	Sfr	30	29.6	Mon	17.1	17.2	Mon	30	29	-2	12.2	16.7	16.8	Mon	30	29	-0.4	19.5	13	13.1	Mon	29	29	-2.6	72.9	Mon
1171	2094-07-12	Mon	13.7	28.1	3	Rb1	31	29.6	Wed	17.4	31.1	Wed	29	29	3	167.1	16.9	30.6	Wed	29	29	5.4	176.2	13.2	26.8	Tue	30	30	6.8	-127.1	Wed
1172	2094-08-11	Wed	4.7	27.9	4	Rb2	30	29.7	Thu	16.2	20.8	Thu	30	29	8.4	-38.3	15.5	20.2	Thu	30	29	11	-27.4	11.3	15.9	Thu	30	29	17.9	38.3	Thu
1173	2094-09-09	Thu	20.6	27.5	5	Jm1	31	29.7	Sat	14.8	35.4	Sat	30	29	13.3	100.2	14.1	34.6	Sat	30	29	14.9	112.1	9.1	29.6	Sat	29	29	26.6	-172.1	Sat
1174	2094-10-09	Sat	12.8	27	6	Jm2	31	29.7	Mon	15.0	27.8	Mon	29	29	11.5	-150.4	14.3	27.1	Mon	29	29	14.1	-140.4	9.5	22.2	Sun	30	30	25.9	-69.1	Mon
1175	2094-11-08	Mon	4.8	26.7	7	Rjb	30	29.6	Tue	16.1	20.8	Tue	30	29	5.6	-46.8	15.6	20.3	Tue	30	29	5.6	-40	11.6	16.4	Tue	30	29	15	16.4	Tue
1176	2094-12-07	Tue	19.9	26.6	8	Shn	31	29.6	Thu	16.1	35.9	Thu	29	29	-0.1	90	15.8	35.7	Thu	29	29	-2.2	94.8	12.4	32.3	Thu	29	29	1.9	143.6	Thu
1177	2095-01-06	Thu	9.6	26.9	9	Rmd	30	29.5	Fri	14.4	24.0	Fri	30	29	-5	-86.2	14.3	23.9	Fri	30	29	-6.5	-83.5	11	20.6	Fri	30	29	-7.2	-34.2	Sat
1178	2095-02-04	Fri	21.5	27.2	10	Shl	31	29.4	Sun	12.2	33.7	Sun	29	29	-12	131.7	12.1	33.6	Sun	29	29	-11.2	132.9	8.5	30.0	Sun	29	29	-18.3	-170.6	Sun

Moon Data									R29	Yalop							SAAO						Odeh						R19h		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
1179	2095-03-06	Sun	7.7	27.4	11	Qdh	30	29.4	Mon	11.1	18.7	Mon	30	29	-12.1	-6.4	11.0	18.7	Mon	30	29	-12.5	-5	6.8	14.5	Mon	29	29	-26	58.5	Mon
1180	2095-04-04	Mon	16.6	27.6	12	Hjh	31	29.4	Wed	11.9	28.6	Wed	29	29	-6.9	-158	11.8	28.5	Wed	29	29	-8	-156.4	7.9	24.6	Tue	30	30	-19.6	-99.1	Wed
1181	2095-05-04	Wed	1.1	27.8	1	Mhr	30	29.4	Thu	13.9	15.0	Thu	29	29	2.2	45.4	13.7	14.9	Thu	29	29	2.9	47.5	10.3	11.5	Thu	29	29	-4.5	96.7	Thu
1182	2095-06-02	Thu	10.0	28	2	Sfr	30	29.4	Fri	15.2	25.2	Fri	30	29	7.1	-104.6	15.0	25.0	Fri	30	29	8.3	-101.2	11.7	21.7	Fri	30	29	7.5	-52.6	Sat
1183	2095-07-01	Fri	20.0	28.1	3	Rb1	31	29.5	Sun	15.3	35.2	Sun	29	29	11.8	108.7	15.0	34.9	Sun	29	29	13.9	114.4	11.4	31.4	Sun	29	29	17	168.7	Sun
1184	2095-07-31	Sun	7.5	28	4	Rb2	30	29.6	Mon	14.5	22.1	Mon	30	29	14.4	-53.6	14.0	21.5	Mon	30	29	16.1	-45.1	9.8	17.3	Mon	30	29	23.7	20.8	Mon
1185	2095-08-29	Mon	21.1	27.7	5	Jm1	31	29.7	Wed	14.3	35.4	Wed	30	29	14.4	101.6	13.6	34.7	Wed	30	29	18.1	113.2	8.6	29.7	Wed	29	29	28.4	-169.6	Wed
1186	2095-09-28	Wed	13.0	27.2	6	Jm2	31	29.7	Fri	15.8	28.8	Fri	29	29	8.5	-163.3	15.0	28.0	Fri	29	29	11.4	-151.9	10.2	23.1	Thu	30	30	22.3	-79.4	Fri
1187	2095-10-28	Fri	6.6	26.8	7	Rjb	31	29.8	Sun	17.8	24.4	Sat	30	30	-1.8	-99.2	17.2	23.8	Sat	30	30	-1.7	-89.4	13.1	19.7	Sat	30	30	4.9	-29.7	Sat
1188	2095-11-27	Sun	1.0	26.6	8	Shn	30	29.7	Mon	18.0	18.9	Mon	30	29	-10	-12.4	17.5	18.5	Mon	30	29	-9.2	-5.5	13.9	14.8	Mon	30	29	-8.9	49.4	Mon
1189	2095-12-26	Mon	18.5	26.8	9	Rmd	31	29.6	Wed	16.0	34.5	Wed	29	29	-10.6	118.8	15.6	34.0	Wed	29	29	-14.2	126.8	11.9	30.4	Wed	29	29	-18	-176	Wed
1190	2096-01-25	Wed	9.8	27.1	10	Shl	30	29.5	Thu	13.3	23.1	Thu	30	29	-15.2	-67.4	13.0	22.8	Thu	30	29	-15.9	-62.6	8.9	18.7	Thu	30	29	-26.3	3.2	Fri
1191	2096-02-23	Thu	22.5	27.4	11	Qdh	31	29.4	Sat	12.0	34.5	Sat	29	29	-13.4	118.6	11.8	34.3	Sat	29	29	-14.4	122.2	7.4	30.0	Sat	29	29	-26.5	-170.4	Sat
1192	2096-03-24	Sat	9.0	27.6	12	Hjh	30	29.4	Sun	12.6	21.6	Sun	30	29	-3.4	-51.3	12.5	21.4	Sun	30	29	-4.8	-49.4	8.7	17.7	Sun	30	29	-13.8	6.7	Mon
1193	2096-04-22	Sun	17.8	27.7	1	Mhr	31	29.3	Tue	13.7	31.4	Tue	29	29	8.8	160.8	13.6	31.4	Tue	29	29	7.8	161.4	10.4	28.2	Tue	29	29	5.6	-151.5	Tue
1194	2096-05-22	Tue	1.6	27.9	2	Sfr	30	29.3	Wed	13.9	15.5	Wed	29	29	16.1	43.7	13.8	15.5	Wed	29	29	17.2	44.6	10.8	12.4	Wed	29	29	18.6	91.1	Wed
1195	2096-06-20	Wed	9.2	28.1	3	Rb1	30	29.3	Thu	13.2	22.4	Thu	30	29	20	-56	13.1	22.3	Thu	30	29	21.2	-53.7	9.7	19.0	Thu	29	29	25.2	-1.1	Fri
1196	2096-07-19	Thu	17.4	28.1	4	Rb2	31	29.4	Sat	12.4	29.8	Sat	29	29	20.4	-166.1	12.1	29.5	Sat	29	29	21.6	-161.7	8.1	25.5	Fri	30	30	30.1	-97	Sat
1197	2096-08-18	Sat	3.1	27.8	5	Jm1	30	29.5	Sun	12.8	15.9	Sun	30	29	16.4	37.8	12.3	15.4	Sun	30	29	17.2	44.9	7.7	10.8	Sun	29	29	28.6	117.5	Sun
1198	2096-09-16	Sun	15.2	27.4	6	Jm2	31	29.6	Tue	15.1	30.3	Tue	29	29	5.6	174.9	14.5	29.7	Tue	29	29	7.8	-176.5	10.1	25.3	Mon	30	30	15.8	-110	Tue
1199	2096-10-16	Tue	6.5	26.9	7	Rjb	31	29.8	Thu	17.8	24.3	Wed	30	30	-10	-95.9	17.2	23.7	Wed	30	30	-6.9	-87.6	13.3	19.8	Wed	30	30	-2.2	-29.5	Wed
1200	2096-11-15	Thu	0.6	26.6	8	Shn	30	29.8	Fri	18.6	19.3	Fri	30	29	-16.9	-16.2	18.1	18.7	Fri	30	29	-18.2	-6.9	14.3	14.9	Fri	30	29	-18.1	49.8	Fri
1201	2096-12-14	Fri	20.1	26.7	9	Rmd	31	29.8	Sun	17.1	37.2	Sun	30	29	-20.6	81.4	16.4	36.6	Sun	30	29	-24.5	92.6	12.4	32.5	Sun	29	29	-28.3	156.1	Sun
1202	2097-01-13	Sun	15.1	27	10	Shl	31	29.7	Tue	14.7	29.8	Tue	29	29	-19.1	-165.8	14.1	29.2	Tue	29	29	-23.6	-154.3	9.4	24.5	Mon	30	30	-31.6	-79.9	Tue
1203	2097-02-12	Tue	7.9	27.3	11	Qdh	30	29.6	Wed	13.9	21.7	Wed	30	29	-12.1	-48.8	13.4	21.2	Wed	30	29	-13.7	-40.7	8.6	16.5	Wed	30	29	-26.4	33.6	Wed
1204	2097-03-13	Wed	22.0	27.5	12	Hjh	31	29.5	Fri	14.5	36.5	Fri	29	29	2.3	86	14.2	36.1	Fri	29	29	-0.8	90.9	10.3	32.3	Fri	29	29	-6.5	148.8	Fri
1205	2097-04-12	Fri	9.5	27.7	1	Mhr	30	29.4	Sat	14.7	24.2	Sat	30	29	16.5	-89.7	14.6	24.1	Sat	30	29	15	-87.9	11.4	20.8	Sat	30	29	12.1	-39.6	Sun
1206	2097-05-11	Sat	18.7	27.8	2	Sfr	31	29.3	Mon	13.9	32.6	Mon	29	29	25.3	150.7	13.8	32.5	Mon	29	29	27.6	151.9	10.7	29.4	Mon	29	29	26.9	-161.4	Mon
1207	2097-06-10	Mon	2.3	28	3	Rb1	30	29.3	Tue	12.2	14.5	Tue	29	29	26.7	65.6	12.2	14.5	Tue	29	29	29.7	67.3	8.8	11.1	Tue	29	29	34.5	121.6	Tue
1208	2097-07-09	Tue	9.0	28.1	4	Rb2	30	29.3	Wed	11.1	20.1	Wed	29	29	26.3	-17.5	11.0	20.0	Wed	29	29	27.2	-15.9	7	16.0	Wed	29	29	37.1	50.1	Wed
1209	2097-08-07	Wed	16.0	27.9	5	Jm1	31	29.4	Fri	11.6	27.6	Thu	30	30	16.6	-136.9	11.4	27.4	Thu	30	30	19.5	-133.3	7.1	23.2	Thu	30	30	29.3	-66.2	Fri
1210	2097-09-06	Fri	0.6	27.5	6	Jm2	30	29.5	Sat	13.8	14.4	Sat	30	29	1.6	55	13.5	14.1	Sat	30	29	3	59.2	9.7	10.3	Sat	29	29	11.8	117.5	Sat
1211	2097-10-05	Sat	11.8	27.1	7	Rjb	31	29.6	Mon	16.2	28.0	Mon	29	29	-14.9	-150	15.8	27.6	Mon	29	29	-14.4	-144.9	12.3	24.1	Sun	30	30	-9.5	-92.7	Mon
1212	2097-11-04	Mon	2.2	26.7	8	Shn	30	29.7	Tue	17.2	19.3	Tue	30	29	-26.2	-15.2	16.7	18.9	Tue	30	29	-27.1	-8.4	13.1	15.3	Tue	30	29	-25.8	45.4	Tue
1213	2097-12-03	Tue	19.5	26.6	9	Rmd	31	29.8	Thu	16.4	35.9	Thu	30	29	-28.4	103.8	15.8	35.3	Thu	30	29	-31	114	11.6	31.1	Thu	29	29	-36.1	-179.6	Thu
1214	2098-01-02	Thu	14.6	26.8	10	Shl	31	29.8	Sat	15.1	29.7	Sat	29	29	-26	-161.9	14.4	29.0	Sat	29	29	-28.2	-149.5	9.3	23.9	Fri	30	30	-37.3	-67.8	Sat
1215	2098-02-01	Sat	10.0	27.2	11	Qdh	31	29.8	Mon	15.5	25.5	Sun	30	30	-13.5	-103.4	14.8	24.7	Sun	30	30	-16.1	-91.3	9.8	19.7	Sun	30	30	-27.3	-12.4	Mon
1216	2098-03-03	Mon	4.1	27.4	12	Hjh	30	29.7	Tue	16.8	20.9	Tue	30	29	5.9	-39.8	16.2	20.3	Tue	30	29	4	-31.1	12.2	16.2	Tue	30	29	-1.2	30.2	Tue

Moon Data									R29	Yalop							SAAO							Odeh							R19h
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
#	UDate	D	UT	HLS	MO	MN	NN	NT	HD	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	SL	SSL	HD	DM	ND	Lat	Long	HD
1217	2098-04-01	Tue	19.8	27.6	1	Mhr	31	29.5	Thu	16.7	36.5	Thu	29	29	22.8	85.7	16.4	36.2	Thu	29	29	22.1	90.9	12.9	32.7	Thu	29	29	22.8	143.1	Thu
1218	2098-05-01	Thu	8.6	27.8	2	Sfr	30	29.4	Fri	15.0	23.6	Fri	30	29	33.7	-72.6	14.8	23.4	Fri	30	29	33.3	-69.9	11.4	20.0	Fri	29	29	36.7	-17.2	Fri
1219	2098-05-30	Fri	18.4	28	3	Rb1	31	29.3	Sun	12.7	31.1	Sun	29	29	35.6	-179.1	12.6	31.0	Sun	29	29	36	-177.2	8.8	27.2	Sat	30	30	42.7	-116.1	Sun
1220	2098-06-29	Sun	2.2	28.1	4	Rb2	30	29.3	Mon	11.2	13.3	Mon	29	29	30.2	86.7	11.1	13.2	Mon	29	29	31.8	88.8	6.9	9.1	Mon	29	29	42.3	159.2	Mon
1221	2098-07-28	Mon	8.9	28	5	Jm1	30	29.3	Tue	11.5	20.4	Tue	30	29	16.5	-27.4	11.4	20.3	Tue	30	29	18.7	-25.4	7.4	16.3	Tue	29	29	30.4	39.7	Tue
1222	2098-08-26	Tue	15.9	27.7	6	Jm2	31	29.4	Thu	13.1	29.0	Thu	29	29	-2.2	-164.3	13.0	28.9	Thu	29	29	1.8	-162.6	9.6	25.5	Wed	30	30	6	-110	Thu
1223	2098-09-25	Thu	0.3	27.2	7	Rjb	30	29.4	Fri	14.5	14.8	Fri	29	29	-20.5	47.1	14.4	14.7	Fri	29	29	-20.4	48.7	11.2	11.5	Fri	29	29	-20	96.4	Fri
1224	2098-10-24	Fri	10.9	26.8	8	Shn	30	29.5	Sat	14.8	25.6	Sat	30	29	-32.1	-109.8	14.6	25.5	Sat	30	29	-34	-106.6	11.2	22.1	Sat	30	29	-37.2	-54.6	Sun
1225	2098-11-22	Sat	23.9	26.6	9	Rmd	31	29.6	Mon	14.2	38.1	Mon	30	29	-35.8	72.4	13.9	37.7	Mon	30	29	-38.4	78.9	9.8	33.7	Mon	29	29	-44.8	144.8	Mon
1226	2098-12-22	Mon	15.5	26.7	10	Shl	31	29.7	Wed	14.1	29.5	Wed	29	29	-29.2	-157.6	13.5	28.9	Wed	29	29	-30.7	-148.3	8.6	24.0	Tue	30	30	-41	-66.8	Wed
1227	2099-01-21	Wed	9.2	27.1	11	Qdh	31	29.8	Fri	15.7	24.9	Thu	30	30	-14.8	-94.4	15.0	24.2	Thu	30	30	-17.1	-82.7	10.2	19.4	Thu	30	30	-26.6	-6.3	Fri
1228	2099-02-20	Fri	4.1	27.3	12	Hjh	30	29.8	Sat	18.0	22.2	Sat	30	29	8	-59.7	17.3	21.5	Sat	30	29	5.7	-49.1	13.3	17.4	Sat	30	29	0	13.4	Sat
1229	2099-03-21	Sat	22.8	27.5	1	Mhr	31	29.7	Mon	18.4	41.2	Mon	30	29	28.4	15.2	17.8	40.7	Mon	30	29	29.4	23.3	14.1	36.9	Mon	30	29	29.1	79.4	Mon
1230	2099-04-20	Mon	15.5	27.7	2	Sfr	31	29.6	Wed	16.5	32.0	Wed	29	29	41	161	16.1	31.6	Wed	29	29	41	167.5	12.2	27.7	Wed	29	29	46.3	-132.5	Wed
1231	2099-05-20	Wed	5.3	27.9	3	Rb1	30	29.5	Thu	13.9	19.2	Thu	30	29	41.4	0.6	13.6	18.9	Thu	30	29	43.2	7.1	9.2	14.6	Thu	29	29	50.5	78.6	Thu
1232	2099-06-18	Thu	16.2	28.1	4	Rb2	31	29.4	Sat	12.5	28.7	Sat	29	29	33.3	-142.2	12.2	28.4	Sat	29	29	34.4	-137.2	7.6	23.8	Fri	30	30	45.6	-59.5	Sat
1233	2099-07-18	Sat	1.1	28.1	5	Jm1	30	29.3	Sun	12.7	13.8	Sun	29	29	18.3	73.1	12.5	13.6	Sun	29	29	20.8	76.8	8.5	9.6	Sun	29	29	27.6	140.4	Sun
1234	2099-08-16	Sun	9.0	27.8	6	Jm2	30	29.3	Mon	13.6	22.6	Mon	30	29	-2.9	-67.5	13.5	22.5	Mon	30	29	-2.2	-66	10.2	19.2	Mon	30	29	4.4	-14.8	Tue
1235	2099-09-14	Mon	16.9	27.4	7	Rjb	31	29.4	Wed	13.9	30.8	Wed	29	29	-24.5	166.9	13.8	30.7	Wed	29	29	-25.4	167.3	10.8	27.7	Wed	29	29	-25	-146.9	Wed
1236	2099-10-14	Wed	1.6	27	8	Shn	30	29.4	Thu	13.1	14.7	Thu	29	29	-40.5	54.4	13.1	14.7	Thu	29	29	-41	54.4	9.9	11.4	Thu	29	29	-45	104.6	Thu
1237	2099-11-12	Thu	11.5	26.7	9	Rmd	30	29.5	Fri	12.1	23.6	Fri	30	29	-43.5	-69	12.0	23.6	Fri	30	29	-44.1	-68	8.1	19.6	Fri	30	29	-51.7	-2.4	Sat
1238	2099-12-11	Fri	23.2	26.7	10	Shl	31	29.6	Sun	12.3	35.5	Sun	30	29	-33.6	113.2	12.1	35.3	Sun	30	29	-35.8	118.4	7.5	30.7	Sun	29	29	-46.9	-163.4	Sun
1239	2100-01-10	Sun	13.0	26.9	11	Qdh	31	29.7	Tue	14.6	27.6	Tue	29	29	-15	-134.9	14.2	27.2	Tue	29	29	-16.5	-127.8	9.9	22.9	Mon	30	30	-24.3	-60.2	Tue
1240	2100-02-09	Tue	5.0								22.3	Wed						21.8	Wed						18.0	Wed					