



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

برنامج التقويم الإسلامي العالمي

International Islamic Calendar Programme

فروكزيم كليندر إسلام أنتارابغسا

Founded 1395H / 1974C.E.: *Founder Convenor* MOHAMMAD ILYAS, Ph. D.

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Albiruni Environment and Science Development Centre

IIICP CIRCULAR

VOLUME

37

Intl. Adv. Committee: Dr Abdullah O Naseef o Dr M. M. Qurashi o Hj Abu Bakar Maidin o Dr M Z Kirmani o Dr Mehdi Golshani o Dr Yunahar Ilyas o Dr M. Al Suwaiyel o Sh Yakub I Qasmi o Dr Bambang Hidayat o Dr Shamim M Afzal o Dr M Al Aazami o Dr Ahmed Abaddi o Sh Ebrahim Senior: **Programme Committee:** Hj Jamil Ali o Dr M Soliman o Dr Jalil Sajid o Dr M Shaddad o Dr Jamal Mimouni o Dr Moedji Raharto o Dr Hamed A Ead o Dr Amin Usmani o Dr Ali Ahmad o Drs Abdu Aziz Alshamri o Dr M Helvaci o Dr Tajammul Hussain o Dr M. Nasiri o Dr R Zasarov o Dr M Hawari o Dr S Salman o Dr N Riazi o Dr Mangalathayil Ali Abdu o Dr Mohammad Ilyas (**Convenor**).

IICP PHASE 9: CONSOLIDATION

9 Sha'aban 1431 / 21 July 2010

Assalamualaikum

Allah subhanahu wa Taala in His infinite mercy tied up science and technology to our needs for discharging our duties to Him in the usage of TIME in such a way that it helped develop science and technology as an urgent need for the community.

Unity of TIME is so important that Allah uses Time as an element of 'Oath' in Surah Al-Asr. During the Last Pilgrimage the issue of the correct calendar basis was among the important messages delivered. It thus shows the critical nature of unity of correct Time and why we all are devoting our time and energy to try and handle this issue of development and re-establishment of correct Islamic calendar on globalised setting.

Accordingly, our primary focus under IICP is:

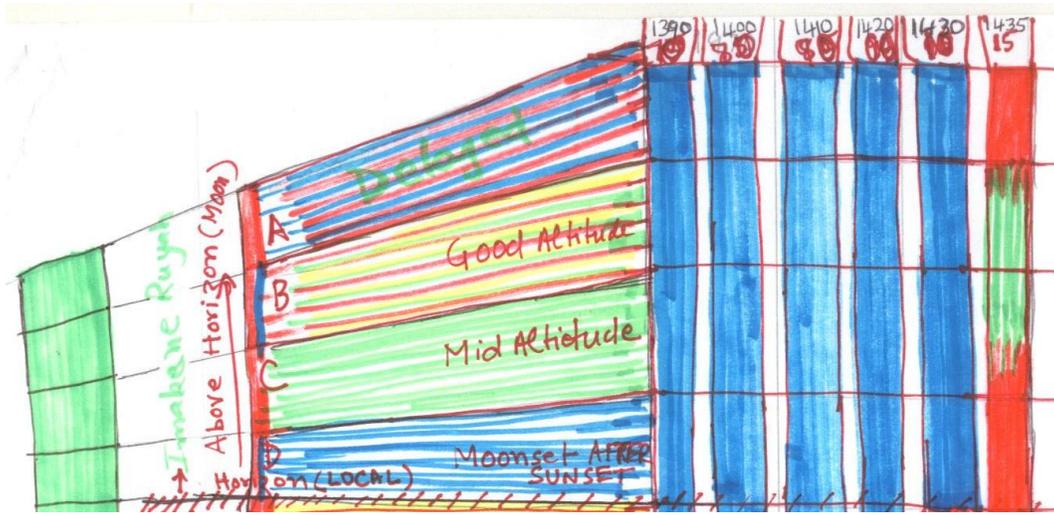
- i) To standardize the basis for calculating the beginning of each Islamic calendar month;
- ii) This basis to be imkane Ru'yah fil hilal or expected visibility of the new lunar crescent
- iii) Use of this information through the systematic use of International Lunar Date Lines (ILDL) in determining sighting reports and the beginning of all months but in particular the months of Ramadhan, Shawwal and Dhul Hijjah.

We need to implement 'same expected visibility criterion' for every place or region but simplified in usage with *ikhtalafe matale sharia* consideration. It is easy to ascertain sighting reports against moonset after sunset and expected visibility considerations (OIC Jeddah RESOLUTION, PENANG DECLARATION, Saudi Arabia Decree, Islamabad Resolution, Delhi Resolution, Comstech Pakistan Resolution 32- 83, Virginia Declaration, ..and many other similar agreements over many years) with the help of global visibility ILDL data and regional calendar data using "one sighting sufficient for the region sharing same night" consideration (refer to Islamic Lunar Date Line -- ILDL—plots ; inside the curve).

Alhamdulillah with the re-affirmation of moonset after sunset as a minimum basis in the Middle East region after many years of work by individuals in these regions helps us greatly in moving towards our objective and moving to the positive half of the 'fan of criterion range' involving a family of about 50 different versions. We can all be proud and grateful to Allah for making this progress possible. I should think that about 70% of our task is done in approaching the convergence of the criterion. I have done a quick sketch on the broad progress in a schematic way which is shown below (a better version to be done). The last column's green is the target we like to reach inshaAllah. This also means that some regions are using delayed sighting of sorts which needs to be worked on.

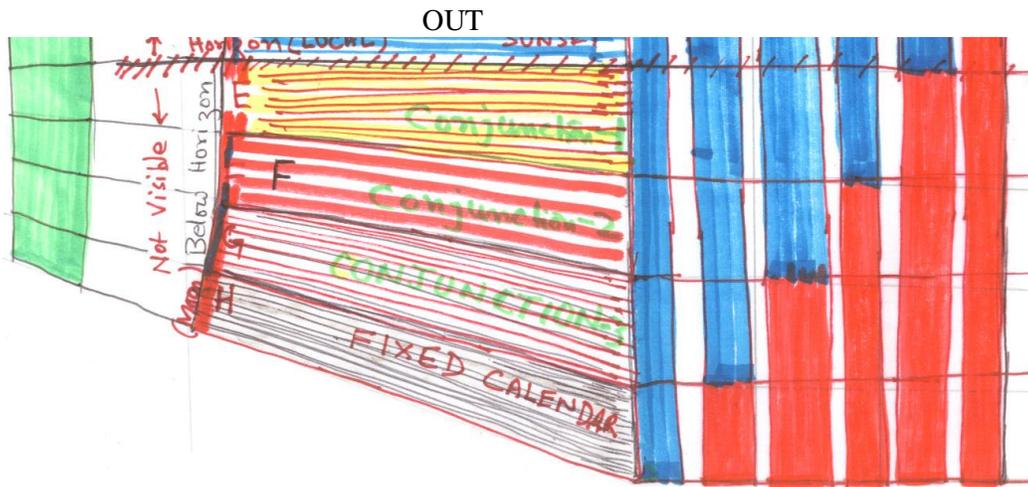
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Needs convergence



Key blue colour : progression of criterion in use with time
 green colour between red and blue at the end left side need to narrow the
 criterion use globally

The above part of criteria needs our attention in the coming years to bring it to
 converge on green part in the red section at the right side.



Key blue colour : progression of criterion in use with time
 Red colour : series of wrong criteria being abandoned through education
 This set of wrong criteria have been put in to the history, alhamdolillah.

There is some confusion because some people are presenting presenting slightly altered forms of the basic physics based ‘altitude-azimuth’ (or its other forms) criterion by tinkering some minor adjustments and putting numerous zones. This micro tuning is generally undesirable and unnecessary since the practical use of the criterion on global scale, in view of sharia’ consideration mentioned above, makes things much simpler.

Accordingly, a criterion and resultant ILDL are a good starting point for practical simplification for a unified calendar as illustrated through these dispatches. There have also been some visibility zones added based on optical aids although there is very little physical basis and limited localized observations and the Sharis ‘s ikhtalafe Matale takes care of much of this. In any case optical aids have marginal effect due to moon being an extended object we could achieve much of this by using a long hollow tube to observe the new crescent which provide focus and cut outside distraction.

Some extracts on technical aspects are incorporated to respond to many queries which I have received but have been unable to respond to them individually. The best course of action is for individuals to get hold of the publications and skim through. The key publications are given exposure in the following input for such action.

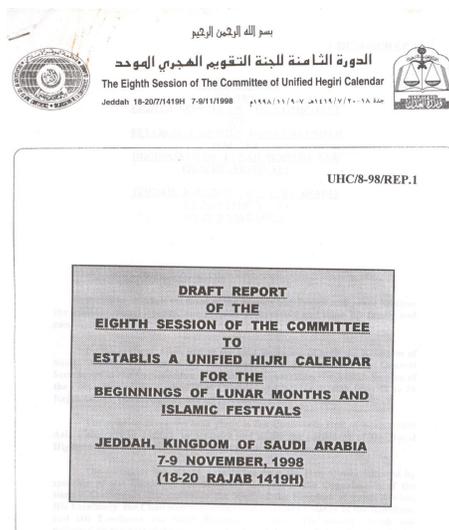
Alhamdulillah, the Arabic book project had been successfully completed thanks to a dedicated group of people in Saudi Arabia. Another book is being positioned for the same. There are several activities which are being acted upon in consultation with specific regional/ national groups.

I like to thank you all for your dedicated contribution towards the success of this programme via education, transmission and implementation efforts and I look forward to further input on this.

Wassalam

Dr Mohammad Ilyas, IICP

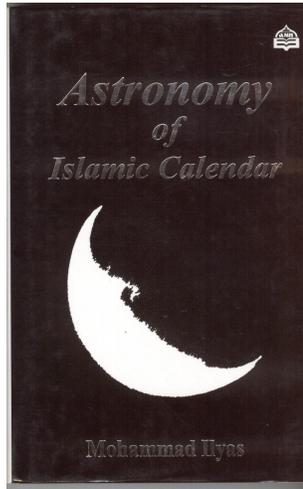
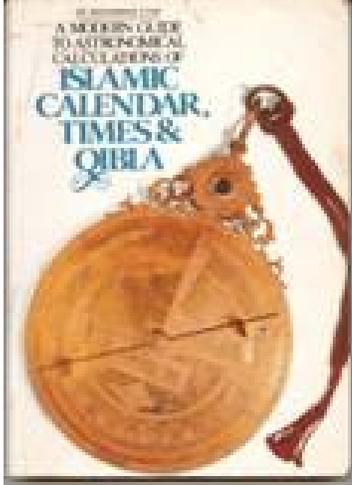
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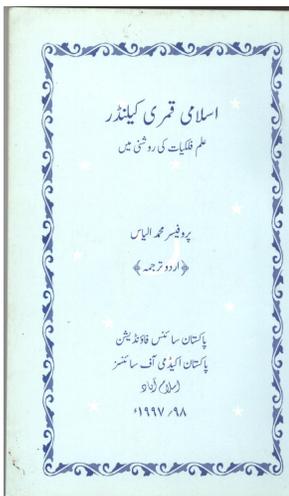
Conference of Foreign Ministers;

Recommends the following:

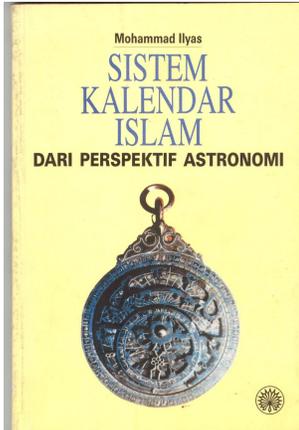
1. **Preparation** by a Specialized Committee, of a unified Hijri Calendar to be adhered to by the Islamic States based on the appearance of the new moon before sunset and its disappearance after sunset according to Makkah Al-Mukarramah time or to the any Islamic country that shares upon the Holy City a sufficient part of the night.
2. **Observance** of Friday as an Islamic festival and a weekly holiday for Muslims in all countries.
3. **Ascertaining** the beginning and end of month of Ramadan as well as the beginning of the month of Dhul Hijjah through Shariah sighting that is irrefutable by scientific sensory or mental proof, pursuant to the Hadith of the Prophet (Peace be upon him): "Fast and break your fast as a result of sighting the crescent. However, if the sky is overcast, consider the month of Shaaban to be thirty days", and to the Hadith: "Do not fast until you sight the new moon".
4. **Publication** in Arabic, English and French, of a quarterly scientific journal on astronomy with articles to be contributed by eminent Shariah scholars and astronomers. Commission for such publication...



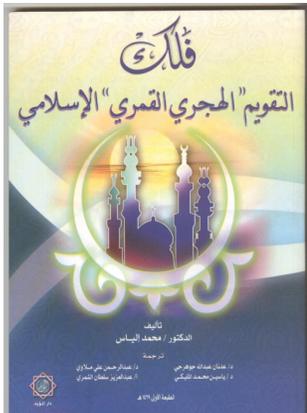
A S Noordeen, Kuala Lumpur
(asnoordeen@yahoo.com)



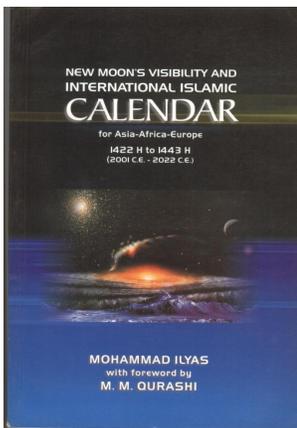
Pakistan academy of sciences , Islamabad ("Qurashi -G Shabir" <g_shabir05@yahoo.com>



Dewan bahasa dan Pustaka, kuala Lumpur



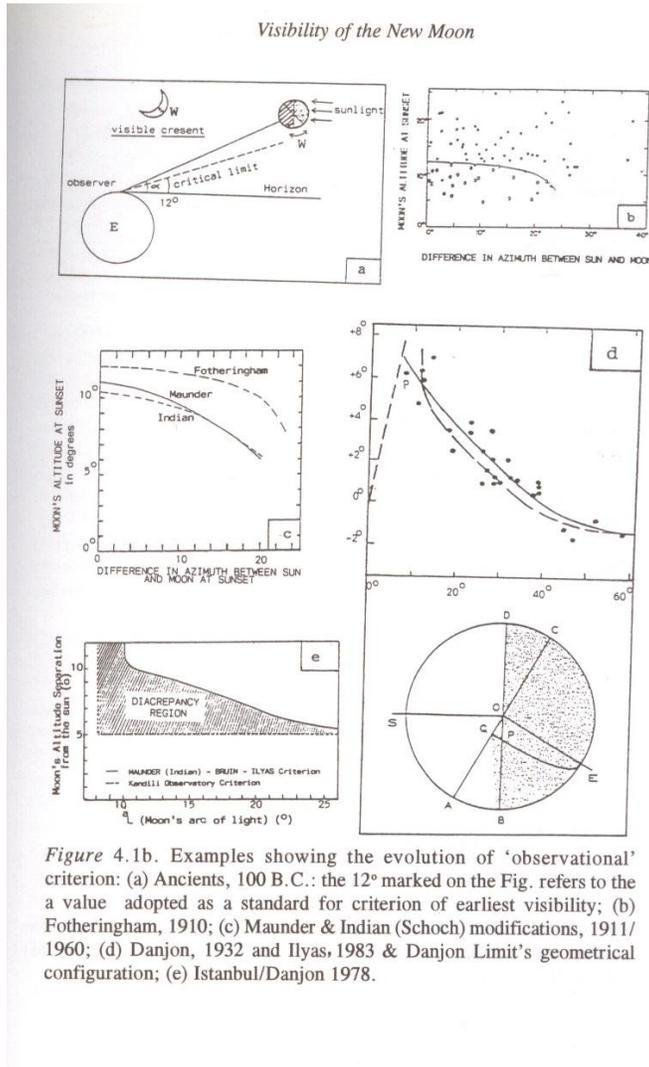
AlMoayyad Publishing, Riyadh
(abdulelah@almoayyad.com)



Pakistan Academy sciences, Islamabad (" Qurashi - G Shabir" <g_shabir05@yahoo.com>

Astronomy of Islamic calendar and translations including recent Arabic version published by Darul Muayyad in Riyadh (Saudi Arabia) and recent 21 year

calendar which is also going through translation exercise. These books may be obtained directly from publishers for local use.



The evolution of criterion and global visibility of the new crescent moon forming the basis of ILDL during last 3000 years including theoretical physics and observations

The evolution of criterion and global visibility of the new moon forming the basis of ILDL during last 3000 years including theoretical physics and observation

Astronomy of Islamic Calendar

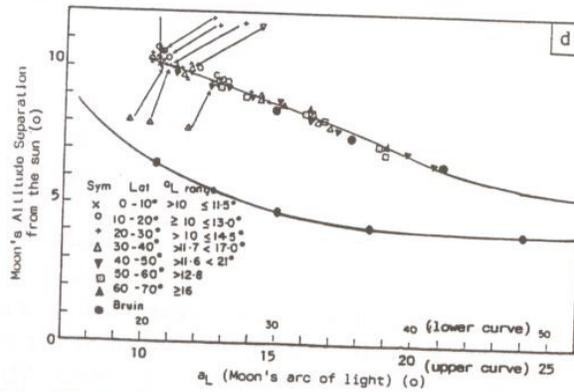
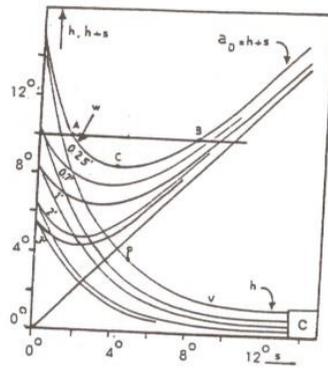
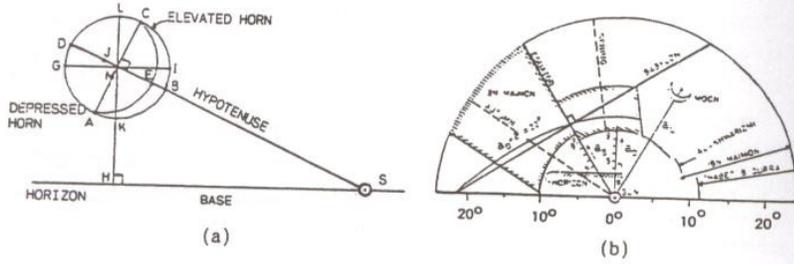


Figure 4.1c. Examples showing the evolution of 'theoretical' criterion: (a) Hindus, 500 A.D.; (b) Muslims, 800-1500 A.D.; (c) Bruin, 1977; (d) Ilyas (Bruin / Fotheringham composite), 1981.

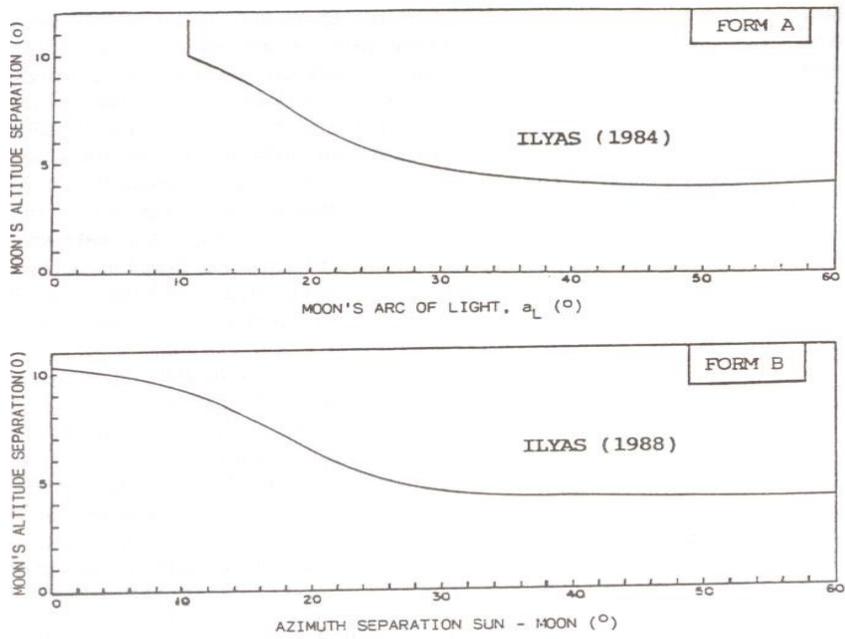


Figure 1.2. Composite extended modern criterion (Ilyas, 1988).

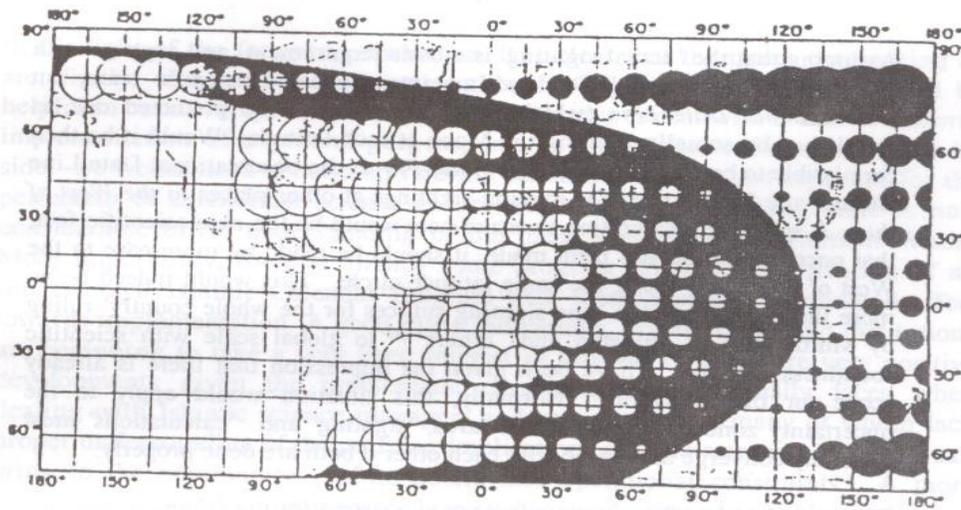
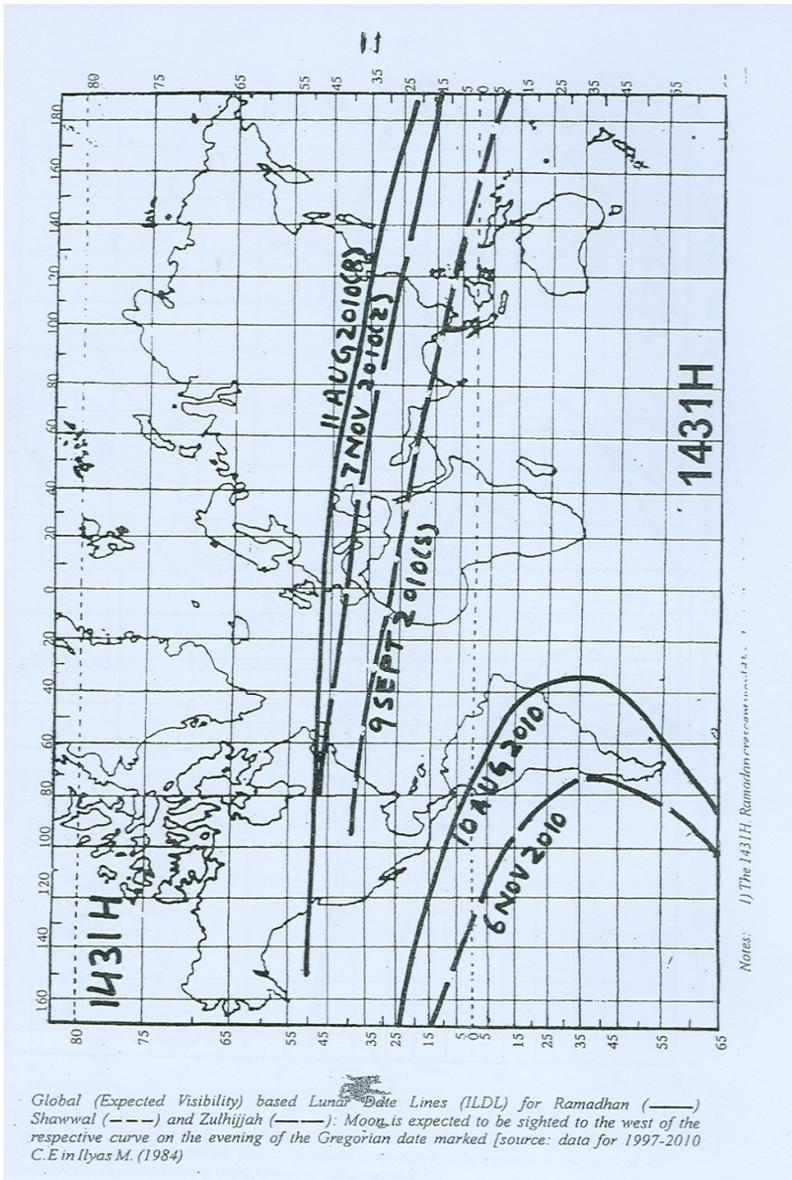


Fig. 2: Schematically illustrates how along the latitude circles, the probability of visibility decreases to the east of ILDL (growing dark circles) and increases to the west of ILDL (growing white circles).



We must remember that the expected visibility for a particular month using the chart above can be easily ascertained by noting the marked date on the particular line: for example the line marked Z (zuhijjah) shows that the new moon is expected to be visible in the zone inside the curve—southern part of Africa and south American region on the evening of 17 November (close to the situation for Shawwal moon on 19 september evening)

LUNAR CYCLE

Islamic Lunation Number: 17169
 Astronomical Lunation Number: 1084

LUNAR CONJUNCTION

Julian Day: 2455409.76
 Solar Day: Aug 10:0309 (UT)**

First Evening Visibility Of The New Moon: 2010 Wed 11 August

Hijrah Day 490000++	Islamic (Lunar) Date+				Gregorian (Solar) Date+				Julian Day 2440000++
	Year	Day#	WkDay	Date	Year	Day#	WkDay	Date	
16980	1431	238	Thu	1 Ramadhan	2010	224	Thu*	12* Aug	15419.5
16981		239	Fri	2		225	Fri*	13*	15420.5
16982		240	Sat	3		226	Sat*	14*	15421.5
16983		241	Sun	4		227	Sun*	15*	15422.5
16984		242	Mon	5		228	Mon*	16*	15423.5
16985		243	Tue	6		229	Tue*	17*	15424.5
16986		244	Wed	7		230	Wed*	18*	15425.5
16987		245	Thu	8		231	Thu*	19*	15426.5
16988		246	Fri	9		232	Fri*	20*	15427.5
16989		247	Sat	10		233	Sat*	21*	15428.5
16990		248	Sun	11		234	Sun*	22*	15429.5
16991		249	Mon	12		235	Mon*	23*	15430.5
16992		250	Tue	13		236	Tue*	24*	15431.5
16993		251	Wed	14		237	Wed*	25*	15432.5
16994		252	Thu	15		238	Thu*	26*	15433.5
16995		253	Fri	16		239	Fri*	27*	15434.5
16996		254	Sat	17		240	Sat*	28*	15435.5
16997		255	Sun	18		241	Sun*	29*	15436.5
16998		256	Mon	19		242	Mon*	30*	15437.5
16999		257	Tue	20		243	Tue*	31*	15438.5
17000	1431	258	Wed	21 Ramadhan	2010	244	Wed*	1* Sep	15439.5
17001		259	Thu	22		245	Thu*	2*	15440.5
17002		260	Fri	23		246	Fri*	3*	15441.5
17003		261	Sat	24		247	Sat*	4*	15442.5
17004		262	Sun	25		248	Sun*	5*	15443.5
17005		263	Mon	26		249	Mon*	6*	15444.5
17006		264	Tue	27		250	Tue*	7*	15445.5
17007		265	Wed	28		251	Wed*	8*	15446.5
17008		266	Thu	29		252	Thu*	9*	15447.5

+ The Islamic day & date begin at the sunset on the evening previous to the Gregorian day and date shown. The '*' sign signifies that it began on the previous sunset. For details, refer to 'Introduction to the Tables'.

++ Add the number at the head of the column to the number in the column against a date.

** UT (Universal Time, also known as Greenwich Mean Time - GMT):

UT + Zone Time (ZT) = Local Standard Time (LST)

LUNAR CYCLE

Islamic Lunation Number: 17172
 Astronomical Lunation Number: 1087

LUNAR CONJUNCTION

Julian Day: 2455508.38
 Solar Day: Nov 06:0453 (UT)**

First Evening Visibility Of The New Moon: 2010 Sun 7 November

Hijrah Day 490000++	Islamic (Lunar) Date+				Gregorian (Solar) Date+				Julian Day 2440000++
	Year	Day#	WkDay	Date	Year	Day#	WkDay	Date	
17068	1431	326	Mon	1 Z'hjah	2010	312	Mon*	8* Nov	15507.5
17069		327	Tue	2		313	Tue*	9*	15508.5
17070		328	Wed	3		314	Wed*	10*	15509.5
17071		329	Thu	4		315	Thu*	11*	15510.5
17072		330	Fri	5		316	Fri*	12*	15511.5
17073		331	Sat	6		317	Sat*	13*	15512.5
17074		332	Sun	7		318	Sun*	14*	15513.5
17075		333	Mon	8		319	Mon*	15*	15514.5
17076		334	Tue	9		320	Tue*	16*	15515.5
17077		335	Wed	10		321	Wed*	17*	15516.5
17078		336	Thu	11		322	Thu*	18*	15517.5
17079		337	Fri	12 ذوالحجه		323	Fri*	19*	15518.5
17080		338	Sat	13		324	Sat*	20*	15519.5
17081		339	Sun	14		325	Sun*	21*	15520.5
17082		340	Mon	15		326	Mon*	22*	15521.5
17083		341	Tue	16		327	Tue*	23*	15522.5
17084		342	Wed	17		328	Wed*	24*	15523.5
17085		343	Thu	18		329	Thu*	25*	15524.5
17086		344	Fri	19		330	Fri*	26*	15525.5
17087		345	Sat	20		331	Sat*	27*	15526.5
17088		346	Sun	21		332	Sun*	28*	15527.5
17089		347	Mon	22		333	Mon*	29*	15528.5
17090		348	Tue	23		334	Tue*	30*	15529.5
17091	1431	349	Wed	24 Z'hjah	2010	335	Wed*	1* Dec	15530.5
17092		350	Thu	25		336	Thu*	2*	15531.5
17093		351	Fri	26		337	Fri*	3*	15532.5
17094		352	Sat	27		338	Sat*	4*	15533.5
17095		353	Sun	28		339	Sun*	5*	15534.5
17096		354	Mon	29		340	Mon*	6*	15535.5

+ The Islamic day & date begin at the sunset on the evening previous to the Gregorian day and date shown. The '*' sign signifies that it began on the previous sunset. For details, refer to 'Introduction to the Tables'.
 ++ Add the number at the head of the column to the number in the column against a date.
 ** UT (Universal Time, also known as Greenwich Mean Time - GMT):
 UT + Zone Time (ZT) = Local Standard Time (LST)

It is up to the local organizations to decide whether to use local sighting only at their place or use it at national or regional level in starting the key months like Ramadhan but refer to the ILDL plots for better reflection and clarity. OIC and other Resolutions clearly state the need for ascertaining sighting reports in an irrefutable way.