

Brij-Greg. Modified Calendar 2012-2013

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(Based on Works Published & Calculations).

Leap Day: div.4/skip128th-year Solar Cycle: 896-yrs/11082 Lunation

[Refer to Home Page: <http://www.brijvij.com/>]

13th NEVER A FRIDAY

Continuity of calendar can be examined from October 01, 2012 (MJD 2456202) on consideration.

OCTOBER 2012							NOVEMBER 2012							DECEMBER 2012															
W 39			thro				W 43			W 43			thro				W 47			W 47			thro				W 51		
S	M	Tu	W	Th	F	S	S	M	Tu	W	Th	F	S	S	M	Tu	W	Th	F	S									
1	2	3	4	5	6	7	X	X	X	1	2	3	4	X	X	X	X	X	1	2									
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9									
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16									
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23									
29	30	31	X	X	X	X	26	27	28	29	30	X	X	24	25	26	27	28	29	30									
														SUNDAY (December 31)															
JANUARY 2013							FEBRUARY 2013							MARCH 2013															
W 00			thro				W 04			W 04			thro				W 08			W 08			thro				W 12		
M	Tu	W	Th	F	S	S	M	Tu	W	Th	F	S	S	M	Tu	W	Th	F	S	S									
1	2	3	4	5	6	7	X	X	X	1	2	3	4	X	X	X	X	1	2	3									
8	9	10	11	12	13	14	5	6	7	8	9	10	11	4	5	6	7	8	9	10									
15	16	17	18	19	20	21	12	13	14	15	16	17	18	11	12	13	14	15	16	17									
22	23	24	25	26	27	28	19	20	21	22	23	24	25	18	19	20	21	22	23	24									
29	30	31	X	X	X	X	26	27	28	29	X	X	X	25	26	27	28	29	30	31									
APRIL 2013							MAY 2013							JUNE 2013															
W 13			thro				W 17			W 17			thro				W 21			W 21			thro				W 25		
M	Tu	W	Th	F	S	S	M	Tu	W	Th	F	S	S	M	Tu	W	Th	F	S	S									
1	2	3	4	5	6	7	X	X	1	2	3	4	5	X	X	X	X	X	1	2									
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9									
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16									
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23									
29	30	X	X	X	X	X	27	28	28	30	31	X	X	24	25	26	27	28	29	30									
														Leap Year Day (June 31)															
JULY 2013							AUGUST 2013							SEPTEMBER 2013															
W 26			thro				W 30			W 30			thro				W 34			W 34			thro				W 38		
M	Tu	W	Th	F	S	S	M	Tu	W	Th	F	S	S	M	Tu	W	Th	F	S	S									
1	2	3	4	5	6	7	X	X	1	2	3	4	5	X	X	X	X	X	1	2									
8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9									
15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16									
22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23									
29	30	X	X	X	X	X	27	28	29	30	31	X	X	24	25	26	27	28	29	30									
														United Nations Day (Sept.30)															
OCTOBER 2013							NOVEMBER 2013							DECEMBER 2013															
W 39			thro				W 43			W 43			thro				W 47			W 47			thro				W 51		
M	Tu	W	Th	F	S	S	M	Tu	W	Th	F	S	S	M	Tu	W	Th	F	S	S									
1	2	3	4	5	6	7	X	X	X	1	2	3	4	X	X	X	X	X	1	2									
8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9									
15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16									
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23									
29	30	31	X	X	X	X	26	27	28	29	30	X	X	24	25	26	27	28	29	30									
														© World Peace Day (December 31)															

CRITEREA & Calendar: AIM

(REFERS to Home Page: <http://www.brijvij.com/>)

The 'New Format' of the possible calendar for ALL sections of society:

1. Must be useful for all people of the Earth, uniting them;
2. Must reflect the visible periodical movements of the heavenly bodies: the Sun; the Earth, and the Moon;
3. Must be solar, lunar, and earthly i.e. lunisolar;
4. Must not abolish the former, existing and future calendars (national, state and local);
5. Must keep a simple transitional table between the calendars – thus, must not set on or trigger discomfort among people of the Earth leading to confrontation i.e. be easy to peg along with 'new format';
6. Must be simple, intelligible, and easily remembered calendar;
7. Must exist or capable of existing for a long time, thus improving value for Mean Year/Lunation.

My proposal in brief revolves around DUAL use of the existing (24hx 60mx 60 second) clocks/timekeepers; and the proposed (24hx100md x100sd) clock of 240000 sd during an atomic day; and the format for 364-day Calendar (with or without Leap Days/Weeks), using Leap days or Leap Weeks – to be used as World Peace Days/Weeks – as and when inserted; retaining the 'general' distribution of days during the years as per Keplers' Planetary Laws and 7-day week cycle, so that the 'Modified Calendar' can be used for the WHOLE WORLD – whenever Gregorian calendar is corrected for betterment of astronomical 'exactness needed in current 'Atomic & Space Age'. Thus, my approach to the Reform of Gregorian Calendar is to 'satisfy the impacts feared towards COST that need be incurred' if and when need 'reform' be brought.

The format of my proposed calendar meets, the following needs:

1. No change to 7-day Sabbath/weekly cycle;
2. No change to 12/24-hour clock face that read both time scales i.e. conventional along with decimal divisions for Time of the HOUR;
3. No/or minimal change to currently used Gregorian calendar on 'modification' i.e. by simply shifting July 31st (or alternately August 31st) to 2nd month as February 29th (all years), following Keplers' Laws of Planetary motion;
4. No major change to mathematical/trigonometric functions, for astronomical calculations, getting better resolution (278%) – arc-angle $90^{\circ} \times 100' \times 100'' :: 90^{\circ} \times 60' \times 60''$;
5. To find the most easily adaptable scheme with least possible changes – **i.e. to get a surest, easiest and cheapest proposal**, that seems practical to rectify our current calendar, also useful for ISO:8601:2004 Descending Order Dating & Time Representation along with 'Day of the Week, like [yyyy – mm/ww – dd/ddd followed by Time of the HOUR (Decimalised or otherwise), using 'H' as sign of separator hh: mdmd: sdsd], at 'little or **NO expense** to tax-payer'.

FEATURES CONSIDERED

I have seen some 100 formats posted at 'Solar Calendar forum – Face Book', in addition to my updating of *several options since 1970-71, improving and consolidating results & options to improve upon the previous <http://www.brijvij.com/synopsis-n-364d-options.doc> . This author shall welcome any improvement and updates – other than the following FEATURES, already considered,

http://brijvij.com/bb_comparative-study.pdf :

- Each Year in 4 Quarters/91days/13Weeks;
- **The Year has 13th NEVER A FRIDAY;**
- ALL YEARS HAVE FEB.29th in EVERY YEAR;
- PERPETUAL i.e. months/Days DO NOT CHANGE, with YEARS;
- People born on July 31st (or alternately August 31st) and February 29th jointly CELEBRATE their birth day/date (Thursday i.e. February 29). **Thus, No Change in Birth Dates/ DAYS.** First such event can be in Y2013.
- Pending 'Public reaction, it is felt World Governments – consider **RETIREMENT date** for individuals born on July 31 "get retirement on the day before August 01 i.e. after the last day of JULY – so they do not suffer financial concerns".

- Caters to a Leap Sunday – between June 30th and July 01st (like June 31st) on modifying Leap Day Rule from **(div.4/Skip 100th/count400th Rule)** TO **(div.4/Skip 128th Rule)**; and a World Peace Day (December 31st). Introduction of Leap Day can be replaced with Leap Weeks plus some Keplers' Additional Leap Weeks, discussed with Calndr-L, on div.six (6); div.seven (7) or div. eight (8) using 896-yr/159 LWks as already pointed, **getting Mean Year =365.2421875 days**.
- Easy to re-construct HISTORY (using Julian/Gregorian calendar) on adding/removing ONE day over 3200-years being the difference in Mean Year of 365.2425 days & 365.2421875 days.
- Please see the Format & Features, discussed with listserv and shared through 'MEDIA' during past 40-years: http://brijvij.com/bb_comparative-study.pdf and its 'reproduction ALL year 1- month' at page 3/13 along with comparisons of theWorldCalendar proposal & most others.

Why retain the FORMAT of Gregorian calendar

The Format of current Gregorian calendar need not change, while considering Brij-Gregorian United Nations Calendar 2013 (see above):

1. The current calendar year stays in sync fairly well with the seasonal year. More exactly, the Vernal Equinox always occurs during a 51-hour period spread over March 19, 20 and 21;
2. Everyone is familiar with its format i.e. the Gregorian calendar;
3. The rules of the Gregorian calendar are already embedded in innumerable computer programs;
4. The calendar is an integral part of the vernacular of many cultures, needing NO educating;
5. The 'new format' maintains an uninterrupted seven-day week, which is important to religious groups.
6. It may be difficult to promulgate changes to the calendar because all countries that use it would need to agree to make a change. The Gregorian calendar took nearly 350 years to be adopted by all countries that previously used the Julian calendar – Why incur expenses & waste tax-payer's money!

ACCOMODATING NEEDS FOR GLOBAL USE

1. The structure of the months is irregular, with month lengths ranging arbitrarily from 28 days to 31 days – following Keplers' Laws of Planetary Motion; and still retain 91-day/13-week 'quadrant' for finance sector/banking areas to operate;
2. The leap year rule is hard for many people to understand: "An extra day is added at the end of the second month every four years, except in years whose number is divisible by 100 except in years whose number is divisible by 400 – suggested to be reviewed, along lines of known RHYME."
3. The conventional 7-day-week cycle does not fit exactly into a Common Era year (there are always One or two days left over). This means that it is difficult to know which day of the week a CE date falls on.
4. The suggested 896-yr/159 LWks cycle resolve this; and 'New Era' can be linked at Year Zero AD/BCE counted from $[(Y2000-80 \pm 128) \div 128]$ i.e. $(15 \times 128) = Y 1920$.
5. The irregularity of the structure of the CE Calendar makes it difficult to formulate schedules of events occurring on certain days of the week which can be re-used from year to year.
6. That irregularity also makes it very difficult to design schedules which can be used in any quarter **(of three months), term (of four months) or semester (of six months)**. With proposed 'new format' this can be reconciled!
7. Despite the existence of a proposed standard way of writing CE dates (the ISO 8601 date format) such dates are currently expressed mainly either as month-day-year (in the U.S.) or day-month-year (in Europe and mostly in rest of the world). This creates major confusion for people in one part of the world reading dates written by and for people in another part of the world. This **confusion can be removed** by Standardising Descending Order Date & Representation of Time of the HOUR (decimalized or otherwise) using (the ISO 8601:2004 date format), explicitly/exhaustively known, already.
8. The months of the CE Calendar, although called "months", have no relation to the lunar cycles. The sequence of months and the sequence of lunations are completely unrelated, and a new moon or a full moon can occur on any day of the CE month. Some study of 19-year Harappa Lunar-Tithi cycle is placed: http://www.brijvij.com/bb_19yr-slrlnr.fmt.pdf, for examination only needs review.
9. The leap year rules **cause the timing of the equinoxes and solstices to vary** by about 51-hours, which can be reduced if alternative leap year rules were adopted – astronomers & experts

are already working on such issues, not affecting the man-on-street!

10. The intercalary day is inserted at the end of the second month instead of at the end of the year, which adds complexity to various date calculations. In particular, the number of days between a particular date in January or February and a particular date after the end of February is not constant. The intercalary day is placed at the end of June (183rd day) making TWO Half Years alike with World Peace Day (December 31st i.e. 183rd day)!

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Brij Bhushan VIJ – Author

Mean Year/Lunation workable RE: Orthodox Easter exact mean month?

9:04 PM

Brij Bhushan Vij

Brij Bhushan Vij

metricvij@hotmail.com

To calendar listserv

From: **Brij Bhushan Vij** (metricvij@hotmail.com)

Sent: Sat 5/07/11 9:04 PM

To: calendar listserv (calndr-l@listserv.ecu.edu)

Irv, Henk sirs:

>> one hour and a half during each metonic cycle of 19 years, eventually leading

> to a shift of one day in ca. 310 years.

As during my discussions & calculations, I pointed the equation closer to 19-years/235 lunar months differ by 1 day short per 219-years. This shall be around

11 1/2 days (11 days 10 hours...).

> > > The information that I have shows it as $(365+1/4) * 19 / 235$, but that yields

> > the implausibly long mean month of 29+499/940 days, which is over 25.5 seconds

> > in excess of 29 days 12 hours 44 minutes, which very rapidly drifts with

> > respect to the actual lunar cycle.

I have shown/discussed my calculations suggesting alignment between Mean Year values at:

http://www.brijvij.com/bb_fbUNday-week.pdf

My pointing to 896-year/11082 lunation cycle is interesting; as also 834-year/10315 lunation cycle and their combination interesting Lunisolar cycles, that auto correct in around ONE PRECESSION cycle.

Achieving Mean Year = $(365+221/896)*19/235$ can lead to Mean lunation = 29.53058035714...3 days (i.e. 29d 12h 44m 2s.1428571...), I assume is workable (*– on adding 4 'saltus lune' once every 180-years, for moon alignment*).

Regards,

Brij Bhushan Vij

Saturday, 20110507H21:06(decimal)EST

[896-year/11082 lunation: (1) Mean Year = $365^{217/896}$ i.e. $365.2421875*19/235$ LEADS to Mean

Lunation = 29.530219414893617 days (i.e. 29d 12h 43m 30s.95744681); and 834-year/10315 lunation:

(2) Mean Year = $365^{202/834}$ i.e. $365.242206235012*19/235$ LEADS to Mean Lunation = 29.5302209296 392681 days (29d 12h 43m 31s.088320833)].

Update & Achievements

5/06/11

Brij Bhushan Vij

Brij Bhushan Vij

metricvij@hotmail.com

To senguptaa@nplindia.org

From: **Brij Bhushan Vij** (metricvij@hotmail.com)

Sent: Fri 5/06/11 10:40 PM

To: senguptaa@nplindia.org

Dr Sen Gupta, sir:

It has been long time I visited you, but was unable to meet before leaving India - especially after my mothers' demise and later developing some physical ailment. As you would be aware I have been in communications with US Metric Association & **East Carolina University Calendar discussion List** (calndr-l@listserv.ecu.edu) since mid 2002 discussing 'newer ideas' on reform of the Gregorian calendar, as also at my Home Page:

<http://www.brijvij.com/>

The calendar I aim has the upkeeps of Elizabeth Achilie format [http://www.brijvij.com/bb_RoT.impr-feature.pdf] and AIMS claimed/expected by World Calendar Organisation. Some of my inputs aim to continue with the similar Format BUT removing the day of July 31 and shifting this to February 29 (all years) fulfill the aims:

http://brijvij.com/bb_cal-cRiteria.pdf. Following may be useful to galance:

1. http://www.brijvij.com/bb_fbUNday-week.pdf
2. http://www.brijvij.com/bb_19yr-slrlnr.fmt.pdf
3. http://www.brijvij.com/bb_harr-tithi.ijhs.pdf
4. http://www.brijvij.com/bbv_vip-brief.pdf

I thank you and all members of Metrology Society of India to remaining-in-touch. Regards to Dr Vikram Kumar, Dr, Krishan Lal ji and Prof. Ajit Verma sirs.

With regards,

Brij Bhushan Vij

Friday, 20110506H22:67(decimal)EST

Aa Nau Bhadra Kritvo Yantu Vishwatah -Rg Veda

The Astronomical Poem (revised number of days in any month)

"30 days has July, September,

April, June, November and December

all the rest have 31 except February which has 29

except on years divisible evenly by 4;

except when YEAR divisible by 128 and 3200 -

as long as you remember that

"October (meaning 8) is the 10th month; and

December (meaning 10) is the 12th BUT has 30 days & ONE

OUTSIDE of calendar-format"

Jan:31; Feb:29; Mar:31; Apr:30; May:31; Jun:30

Jul:30; Aug:31; Sep:30; Oct:31; Nov:30; Dec:30

(365th day of Year is World Day)

*****As per Kali V-GRhymeCalendaar*****

"Koi bhi cheshtha vayarth nahin hoti, purshaarth karne mein hai"

My Profile - http://www.brijvij.com/bbv_2col-vipBrief.pdf

Author had NO interaction with The World Calendar Association

except via Media & Organisations to who I contributed for A

Possible World Calendar, since 1971.

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