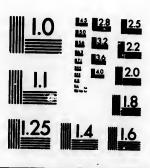
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# CHRONOLOGICAL CHART

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### THE CHRISTIAN ERA.

HOWING a correct Calendar for every year of the first 2000 years of the Era, and explaining how the same system may be extended for an indefinite number of centuries to come.

T is a Perpetual Time Reckoner, always reliable, and so conveniently arranged as to be eminently suited for every day use as an Office Calendar.

BY GEO. W. MCCREADY, M. B. C. A.

Entered according to Act of the Parliament of Canada, in the year 1897, by Geo. W. McCready, at the Department of Agriculture.

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### The Christian Era and Julian Period.

Although it has been the common practice for ages past, in professedly Christian countries, to note the passage of current events, and the multifarious transactions of business, by numbers indicating the successive years, and coupling therewith the letters A. D., meaning Anno Domini, or, "In the year of Our Lord"; - still comparatively few are aware of the fact that this mode of reckoning, or recording time, did not exist in any country nearly 19 centuries ago, nor even as far back as 14 centuries from the present date. Previous to what is now called the 6th century, while the principal nations of the world were under Roman Government, the Era of Rome was in common use, and the years designated by the Latin formula, ab urbe condita, (that is "from the building of the city,") usually abbreviated to A. U. C., or more briefly still, to U. C. About the year A. U. C. 1285, Dionysius Exiguus, a Scythian by birth, and an Abbot in the Christian church, first proposed to take the birth of Jesus Christ for the commencement of a new Era; and in his best efforts to get the exact date, he placed A. D. I, upon the year U. C. 753. This was afterwards discovered to be an error; as we are clearly informed by the Scriptures that "Jesus was born in the days of Herod the king"; and there seems to be no doubt among modern chronologists that Herod's death was not later than the Spring of U. C. 750. it further appears that a number of centuries elapsed after the time of Exiguus before it became a practice with the people to date their documents from what they supposed to be the year of the birth of Christ, A. D., instead of the ancient practice, from the building of Rome. And Dr. Hales informs us in his Chronology, that the new Era was not fully established in Christendom till the time of Pope Eugenius IV., A. D. 1431.

As the reckoning of the Christain Era is not in any way dependent upon that of Seleucus or Nabonassar, or even of the Olympiads, or any other epoch of the olden time, but is derived directly from U. C., or, "the building of the city"; while its uprising was certainly during the reign of Cæsar Augustus, who not only issued a "decree that all the inhabited earth should be enrolled," but claimed that the sixth month of the year, called Sextilis, should be named after him, August, (as Julius had previously superseded by his name that of the preceding month, Quintilis;) - so we have the strongest evidence that the fulian System of reckoning was fully established before the Magi from the east followed the Star to Bethlehem, and consequently that there is no uncertainty about the measurement of the years known as A. D., even if our Saviour was born 3 or 4 years previously. But we do know, from the names of the months, September, October, November, and December, that they were the names of the 7th, 8th, 9th, and 10th months of the year as then reckoned; and we know also from undoubted history, that the change of the beginning of the year from the month of March to the first of January was not made in England until the year 1752, when by Act of Parliament the change of Style was adopted. Thus there has actually occurred a change of date of the beginning of the Era, while yet the greater error of Dionysius Exiguus remains uncorrected. And still it is a fortunate circumstance that this mistake does not lead to any confusion of chronological reckoning, or disarrange in the least

particular the dates known as B. C. and A. D. And as the Era has now become so well established, it would evidently be unwise to attempt a correction, until the time shall come to recken all past and future years as A. M., (Anno Mundi, "in the year of the world.")

Before closing these remarks, it seems almost necessary to speak of those Grand Cycles, which enter so largely into Chronological reckoning. The first is the Solar Cycle, a period of 28 years, in which the days of the week and of the month recur in the same order as before. Next is the Metonic, or Lunar Cycle, or Golden number, a period of nineteen years, in which occur almost exactly 235 revolutions of the Moon. Then the Roman Indiction, a Cycle of 15 years, occurs in such order in connection with the two preceding, that they have never been known to be in unison since the earliest historial records. The Solar Cycle for the 1st year of the Christian Era was 10, the Golden Number 2, and the Indiction 4; and the rolling ages would require to be turned back 4713 years previous to the beginning of that year, in order to find those Cycles in unison; nor have they once been all together since that time; nor will they be until a grand total of 7980 years shall have passed over; that is,  $28 \times 19 \times 15$ . This is the completed Julian Period, the number of which for the year 1897 is (4713 + 1897) = 6610.

Let us notice here the positions of those three Cycles for J. P. 6610.
6610 divided by 28, leaves a remainder of 2, = the Solar Cycle;
6610 divided by 19, leaves a remainder of 17, = the Golden Number; and
6610 divided by 15, leaves a remainder of 10, = the Indiction, for A. D. 1897.

And here it should be clearly understood, that the *Julian Period*, made up of its component cycles, is just as useful in scanning the ages previous to A. D. I, as for the centuries since that date; and in this respect it becomes a common bond of union for all time. For, just as the Julian Period for any year of the current Era, is equal to the sum of 4713 and the given year, so the number of any year B. C., added to the Julian Period for that year, must always be 4714, or the Julian Period for A. D. 1. Hence B. C. 46 is the same as J. P. 4608, as the same of the two numbers is 4714. Now 4713 *Julian* years = 1,721,423 days, or 257,917 weeks and 4 days; showing that the *Julian Period* commenced on Tuesday \*; and consequently the first day of J. P. 4714 (or 1st January, A. D. 1,) would be Saturday;—for which see page 26, at bottom.

From the first day to the last day of that stupendous Period of 7980 years ante-dating and post-dating all the known records of time, it is only possible for the first and second of those minor cycles to be together at zero, 15 times; for the first and third, 19 times; and for the second and third, 28 times; though they may pass each other in various other positions; but for all three to come to the zero point together, is impossible within the limits of 7080 years. Here is the field in which the Chronological Chart purposes to work.

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<sup>\*</sup> It has no doubt been noticed by Chronologists that the inaccuracy of the System adopted by Julius Cæsar, which required a correction before 16 centuries had passed over, would be equally destructive of perfect accuracy if carried back to the earliest records of history. The true solar year being about .007743 of a day less than 365½ days, would require a correction of 36 days (or 5 weeks and 1 day) if carried back to the first day of the Julian Period, which would bring that day forward from Tuesday to Wednesday, besides the rejection of 5 weeks. But the real practical difficulty for a few centuries is not a serious matter, and, whenever required, can be overcome as easily as the Old Style was superseded by the New. This, however, has nothing to do with the Christian Era.

### EXPLANATIONS AND DIRECTIONS.

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TO THE READER: -- Please take notice at the outset, that this Chronological Chart makes no use whatever of Dominical Letters; neither did The Chronograph, which was published 10 years ago; nor do they appear in the previous Patents and Copyrights of the Author. All the paraphernalia connected with their use was rejected by him over 31 years ago, as only a lot of trumpery that was worse than useless. This has cleared the way for a rational and clear representation of a complete calendric system.

All Calendar years must begin with one of the seven days of the week; and in every century the number beginning on each day is almost exactly the same. Hence, if all years were of the same length, there would only be needed seven different forms of Calendar to represent every year. But on account of leap years, in which an intercalary day is added to the morth of February, there must necessarily be constructed seven other forms which will only differ from the first set from the 28th of February to the close of the year. Besides these 14 Calendars, there can be no other needed, excepting only for a clearer representation of the change of Style. There is nothing novel in the principle embodied in this, as it is substantially the same as the first Perpetual Calendar constructed by the writer nearly 50 years ago, excepting the combination of the Julian and Gregorian Systems, and the rejection of the Dominical Letters. The Julian System is followed from the beginning of the Ern to October, 1582, and thenceforward the Gregorian System.

In order to find the Calendar for any year, it is only necessary to look up the number of the year in the Index, and beside it, in the narrow column, will appear the corresponding page in the Calendar. There the arrangement of the weeks and months of that year will appear at one view. It is the very essence of simplicity, so that a child can use it. For example: — 1897 will be found on page 6, 1898 on page 7, 1809 on page 1, &c. The common years are all given in the first 7 Calendar pages, and the leap years from page 8 to 14. The year 622 is found on page 6; and there the flight of Mohammed from Mecca on the 15th of July is shown to have been on Thursday. 1815 appears on page 1, and there it is shown that the battle of Waterloo, June 18th, was on Sunday.

And when it is remembered that a Grand Cycle was completed under the Julian System every 700 years, and that the same occurs under the Gregorian System every 400 years, it becomes an easy matter to extend either system indefinitely backwards or forwards, by the use of one or more periods of 700 years in the one case, and of 400 or any multiple of 400 in the other. A few examples will make this clear. Suppose we wish to know on what day of the week the transit of Venus will take place, on the 9th of June, 2255. Here we have only to reduce the number of the given year by 400, and the Calendar for 1855 will show the given date to be Saturday. Again, on what day of the week would the year 250 begin, according to the Gregorian system? Here (4 times 400, or) 1600 would have to be added to bring it this side of the change of Style. This would make 1850; and the Calendar for 1850, on page 3, shows that the year commenced on Tuesday, the same as 250 of the Julian System. And if we choose to follow up the investigation, we will find an absolute agreement between the two Systems from the 1st day of March, A. D. 200 to the 28th of February, A. D. 300; and it was only back to that date, and not to the beginning of the Era, that the rectification of the Calendar was made in the change of Style. One more example will cover the whole ground : - On what day of the week would 1897 begin, if no change of Style had been made? By subtracting 700 from 1897 we get 1197; and on page 4 of the Calendar we notice Wednesday as the first day of January, which is the same as the 13th of January according to the present reckoning; - the difference between Old Style and New Style being now 12 days.

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1503	1	1553 1	1603 4	1653 4	1703 2	1753 2	1803 7	1853. 7	1903 5	1953 5
1504	9	1554 2	1601 12		1704 10	1754 3	1804 8	1854 1	1904 13	1954 6
1505	4	1555 3	1005 7	1055 6	1705 5	1755 4	1805 3	1855 2	1905 1	1955 7
1508	5	1556 11	1606 1	1656 14	1708 6	1756 12	1806 4	1856 10	1906 2	1956 8
1507	13	1557 6	1007 2	1057 2	1707 7	1757 7	1807 5	1857 5	1907 3	1857 3
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1509	2	1550 1	1609 5	1059 4	1709 3	1759 2	1809 1	1850 7	1909 6	1959 5
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1511	4	1561 4		1661 7	1711 5	1761 5	1811 3	1861 3	1911 1	1961 1
	12	1562 5	1612 8	1662 1	1712 13	1762 6	1812 11	1862 4	1912 9	1962 2
1513	7	1563 6	1613 3	1663 2	1713 1	1763 7	1813 6	1803 5	1913 4	1963 3
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IN	D	RX	1	or Ju	lian	Year	s from	n 158	2 to	1752.
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1584	11	1603	7	1022 3	1641 6	1000 8	1679 4	1698 7	1717 8	1796 12
1585	6	1604	8	1623 4	1642 7	1061 3	1680 12	1609 1	1718 4	1787 7
1586	7	1605	3	1624 12	1643 1	1662 4	1681 7	1700 9	1719 5	1738 1
1587	1	1606	4	1625 7	1644 9	1003 5	1682 1	1701 4	1720 18	1739 2
1588	9	1607	5	1626 1	1345 4	1064 13	1683 2	1702 5	1721 1	1740 10
1589	4	1608	13	1627 2	1646 5	1665 1	1684 10	1703 6	1722 2	1741 5
1590	5	1609	1	1628 10	1647 6	1006 2	1685 5	1704 14	1723 8	1742 6
1591	6	1610	2	1629 5	1648 14	1667 8	1686 6	1705 2	1724 11	1743 7
1502	14	1611	3	1630 6	1649 2	1668 11	1687 7	1706 3	1725 6	1744 8
1593	2	1612	11	1631 7	1650 3	1669 6	1688 8	1707 4	1726 7	1745 3
1504	3	1618	6	1632 8	1651 4	1670 7	1689 8	1708 12	1727 1	1746 4
1595	4	1614	7	1633 3	1652 12	1671 1	1690 4	1709 7	1728 9	1747 5
1596	12	1615	1	1634 4	1653 7	1672 9	1691 5	1710 1	1729 4	1748 13
1597	7	1616	9	1635 5	1654 1	1673 4	1692 13	1711 2	1730 5	1749 1
1508	1	1617	4	1696 13	1655 2	1674 5	1693 1	1712 10	1731 6	1750 2
1599	2	1618	5	1637 1	1656 10	1675 6	1694 2	1713 5	1732 14	1251 8
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Let it be particularly understood, that this page has nothing whatever to do with the ordinary use of the Calendar; but is only to be referred to for dates within the 170 years above named, and then only for Great Britain and her Colonies, and such other Protestant countries as did not accept the change of Style till the latter date. The terms Old Style and New Style, (represented by the letters O. S. and N. S., which were in common use two or three centuries ago, but now scurcely ever mentioned,) refer to the current Calendar before the change was made, as compared with the Calendar in use since that date. As the first attempted correction of the Julian System of reckoning was made in 1582 by order of Pope Gregory XIII., by leaving out ten days from the 5th to the 15th of October in that year; and as the British nation, on account of the issues of Protestantism, continued to follow the Old Style until 1752, when by Act of Parliament eleven days were dropped from the month of September, between the 3rd and the 14th; so there are dates within that limit to which we may have occasion to refer, not as they now stand under the accepted modern reckoning, but as they existed at the time under the Old Style or Julian System.

Suppose now we want the Calendar for 1582, regarded as a Julian year. It begins on the 2nd day of the week, and is not a leap year, consequently page 2 of the Calendar will give it. And it will be seen at a glance that pages 2 and 15 are the same from the 1st of January to the 5th of October; and on page 2 we find the 31st of December to be Monday. Then 1583 would commence on Tuesday, according to Calendar page 3. And 1584 would be on page 4, only that it is a leap year, and the number of the page must be 7 more on that account. Or, in general:—"The Julian Calendar for any year is the same as for 700 years previously." Then we know 1582 must be the same as 882, 1583 the same as 883, 1584 the same as 884, &c. In like manner the Calendar for 1752 must be the same as 1052, at least till the 3rd of September, when the New Style was adopted.

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19	16	16	20	18	15	20	17	14	19	16	14
20	17	17	21	19	16	21	18	15	20	17	15
21	18	18	22	20	17	22	19	10	21	18	16
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23	20	20	24	22	19	24	21	18	23	20	18
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а.	18	15	1.15	19	17	21	19	16	20	18	15	20	18
u.	19	16	16	20	18	22	20	17	21	19	16	21	5
lo.	20	17	17	21	19	23	21	18	22	20	17	22	I
u.	21	18	18	22	20	24	22	19	23	21	18	23	7
Ve.	22	19	19	23	21	25	23	20	24	22	19	24	1
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a.	25	22	22	26	24	28	26	23	27	25	22	27	8
u.	26	23	23	27	25	29	27	24	28	26	23	28	1
lo.	27	24	24	28	26	30	28	25	29	27	24	29	1
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### CALENDAR for 1891, 1903, 1914, 1925, &c.

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Su.		1	1								1		Su.
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We.		4	4	1		3	1		2		4	2	We
Th.	1	5	5	2		4	2		3	1	5	3	Th.
Fr.	2	6	6	3	1	5	3		4	2	6	4	Fr.
Sa.	3	7	7	4	2	6	4	1	5	3	7	5	Sa.
Su.	4	8	8	5	3	7	5	2	6	4	8	6	Su.
Mo.	5	9	9	6	4	8	6	3	7	5	9	7	Mo.
Tu.	6	10	10	7	5	9	7	4	8	6	10	8	Tu.
We.	7	11	11	8	6	10	8	5	9	7	11	9	We
Th.	8	12	12	9	7	11	9	6	10	8	12	10	Th.
Fr.	9	13	13	10	8	12	10	7	11	9	13	11	Fr.
Sa.	10	14	14	11	9	13	11	8	12	10	14	12	Sa.
Su.	11	15	15	12	10	14	12	9	13	11	15	13	Su.
Mo.	12	16	16	13	11	15	13	10	14	12	16	14	Mo.
Tu.	13	17	17	14	12	16	14	11	15	13	17	15	Tu.
We.	14	18	18	15	13	17	15	12	16	14	18	16	We
Th.	15	19	19	16	14	18	16	13	17	15	19	17	Th.
Fr.	16	20	20	17	15	19	17	14	18	16	20	18	Fr.
Sa.	17	21	21	18	16	20	18	15	19	17	21	19	Sa.
Su.	18	22	22	19	17	21	19	16	20	18	22	20	Su.
Mo.	19	23	23	20	18	22	20	17	21	19	23	21	Mo.
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We.	21	25	25	22	20	24	22	19	23	21	25	23	We
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Fr.	23	27	27	24	22	26	24	21	25	23	27	25	Fr.
Sa.	24	28	28	25	23	27	25	22	26	24	28	26	Sa.
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Mo.	26		30	27	25	29	27	24	28	26	30	28	Mo.
Tu.	27		31	28	26	30	28	25	29	27		29	Tu.
We.	28			29	27		29	26	30	28		30	We
Th.	29			30	28		30	27		29		31	Th.
Fr.	30				29		31	28		30			Fr.
Sa.	31				30	<u></u>		29		31			Sa.
Su.			]		31			30					Su.
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Mo. Tu. We. Th. Fr. Sa.

Mo. Fu. We. Fh.

Sa. Su. Mo.

Ги. We. Гh. Fr.

Sa. Su. Mo. L'u.

We. Γh.

Fr. Sa.

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	CA	LE	ND	AR	for	r 19	28,	19	56,	198	4, 8	kc.	
	Jan.	Feb.	Mar.	Apr.	May	Time	July	Aug.	Sept.	Oct.	Noy.	Dec.	
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Th.	5	2	1	5	3		5	2		4	1		Th
Fr.	6	3	2	6	4	1	6	3		- 5	2		Fr
Sa.	7	4	3	7	5	2	7	4	1	6	3	1	Sa
Su.	8	5	4	8	6	3	8	5	2	7	4	2	Su
Mo.	9	6	5	9	7	4	9	6	3	8	5	3	Me
Tu.	10	7	6	10	8	5	10	7	4	9	6	4	Τυ
We.	11	8	7	11	9	6	11	8	5	10	7	5	W
Th.	12	9	8	12	10	7	12	9	6	11	8	6	T
Ēr.	13	10	9	13	11	8	13	10	7	12	9	7	Fr
Sa.	14	11	10	14	12	9	14	11	8	13	10	8	Se
Su.	15	12	11	15	13	10	15	12	9	14	11	9	Su
Mo.	16	13	12	16	14	11	16	13	10	15	12	10	M
Tu.	17.	14	13	17	15	12	17	14	11	16	13	11	Τι
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Th.	19	16	15	19	17	14	19	16	13	18	15	13	T
Fr.	20	17	16	20	18	15	20	17	14	19	16	14	F
Sa.	21	18	17	21	19	16	21	18	15	20	17	15	S
Su.	22	19	18	22	20	17	22	19	16	21	18	16	Sı
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We.	25	22	21	25	23	20	25	22	19	24	21	19	W
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Mo.	30	27	26	30	28	25	30	27	24	29	26	24	M
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Th.			29		31	28		30	27		29	27	TI
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Sa.			31			30			29			29	Sa
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Mo.												31	M

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	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
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ı <b>.</b>	3	2	1	5	3		5	2	6	4	1	6	F
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о.	8	5	4	8	6	3	8	5	9	7	4	9	M
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e.	10	7	6	10	8	5	10	7	11	9	6	11	W
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4       1       7       4       9       6       4       1       5       3       7       5       9       6       4       8       6         6       3       9       6       4       8       6       3       7       5       9       7         7       4       10       7       5       9       7       4       8       6       10       8         8       5       11       8       6       10       8       5       9       7       11       9         9       6       12       9       7       11       9       6       10       8       12       10         10       7       13       10       8       12       10       7       11       9       13       11         11       8       14       11       9       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15	2		5	2		4	2		3	1	5	3
5         2         8         5         3         7         5         9         6         4         8         6         3         7         5         9         7           7         4         10         7         5         9         7         4         8         6         10         8           8         5         11         8         6         10         8         5         9         7         11         9           9         6         12         9         7         11         9         6         10         8         12         10           10         7         13         10         8         12         10         7         11         9         13         11           11         8         14         11         9         13         11         15         13         11         15         13         11         15         13         11         15         13         11         15         13         11         15         13         11         15         13         11         15         13         11         15         13         11         <	3		6	3							6	
6       3       9       6       4       8       6       3       7       5       9       7         7       4       10       7       5       9       7       4       8       6       10       8         8       5       11       8       6       10       8       5       9       7       11       9         9       6       12       9       7       11       9       6       10       8       12       10         10       7       13       10       8       12       10       7       11       9       13       11         11       8       14       11       9       13       11       8       12       10       14       12       9       13       11       15       13         12       9       15       12       10       14       12       9       13       11       15       13         13       10       16       13       11       15       13       10       14       12       14       12       14       13       17       15       13         14<	4	1	7	4	2	6	4	1	5	3	7	5
7       4       10       7       5       9       7       4       8       6       10       8         8       5       11       8       6       10       8       5       9       7       11       9         9       6       12       9       7       11       9       6       10       8       12       10         10       7       13       10       8       12       10       7       11       9       13       11         11       8       14       11       9       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15       13       11       15        13       17       15       13       17       15       13       17       15       19       16       14       18       16       14       18       16       14	5	2	8	5	3	7	5	2	6	4	8	6
8       5       11       8       6       10       8       5       9       7       11       9       6       10       8       12       10         10       7       13       10       8       12       10       7       11       9       13       11         11       8       14       11       9       13       11       8       12       10       14       12       9       13       11       15       13         12       9       15       12       10       14       12       9       13       11       15       13         13       10       16       13       11       15       13       10       14       12       16       14         14       11       17       14       12       16       14       11       15       13       17       15       13       17       15       13       17       15       19       16       14       18       16       14       18       16       18       16       10       18       16       10       18       12       19       17       11       19       <	6	3	9	6	4	8	6	3	7	5	9	7
9       6       12       9       7       11       9       6       10       8       12       10       7       11       9       13       11         10       7       13       10       8       12       10       7       11       9       13       11         11       8       14       11       9       13       11       8       12       10       14       12         12       9       15       12       10       14       12       9       13       11       15       13         13       10       16       13       11       15       13       10       14       19       16       14         14       11       17       14       12       16       14       11       15       13       17       15         15       19       18       15       13       17       15       19       16       14       18       16       14       18       16       13       17       15       19       17       14       18       16       20       18       16       20       18       19       17	7	4	10	7	5	9	7	4	8	6	10	8
10       7       13       10       8       12       10       7       11       9       13       11         11       8       14       11       9       13       11       8       12       10       14       12         12       9       15       12       10       14       12       9       13       11       15       13         13       10       16       13       11       15       13       10       14       12       16       14         14       11       17       14       12       16       14       11       15       13       17       15         15       12       18       15       13       17       15       12       16       14       18       16         16       13       19       16       14       18       16       13       17       15       19       17         17       14       20       17       15       19       17       14       18       16       20       18         18       15       21       18       16       20       18       17	8	5	11	8	6	10	8	.5	9	7	11	
11       8       14       11       9       13       11       8       19       10       14       19       9       13       11       15       13         13       10       16       13       11       15       13       10       14       19       16       14         14       11       17       14       12       16       14       11       15       13       17       15         15       12       18       15       13       17       15       12       16       14       18       16         16       13       19       16       14       18       16       13       17       15       19       17         17       14       20       17       15       19       17       14       18       16       20       18         18       15       21       18       16       20       18       15       19       17       21       19       17       21       19       17       21       19       16       20       18       22       20       17       21       19       23       21       19       <	9	6	12	9	7	11	9	6	10	8	19	10
19       9       15       12       10       14       12       9       13       11       15       13         13       10       16       13       11       15       13       10       14       12       16       14         14       11       17       14       12       16       14       11       15       13       17       15         15       12       18       15       13       17       15       12       16       14       18       16         16       13       19       16       14       18       16       13       17       15       19       17         17       14       20       17       15       19       17       14       18       16       20       18         18       15       21       18       16       20       18       15       19       17       21       19         19       16       22       19       17       21       19       16       20       18       22       20         20       17       23       20       18       22       20       17	10	7	13	10	8	12	10	7	11	9	13	11
13       10       16       13       11       15       13       10       14       19       16       14         14       11       17       14       19       16       14       11       15       13       17       15         15       12       18       15       13       17       15       19       16       14       18       16         16       13       19       16       14       18       16       13       17       15       19       17         17       14       20       17       15       19       17       14       18       16       20       18         18       15       21       18       16       20       18       15       19       17       21       19         19       16       22       19       18       22       20       18       15       19       17       21       19         19       16       22       19       17       21       19       23       21       19       23       21       19       23       21       19       23       21       19       23	11	8	14	11	9	13	11	8	12	10	14	12
14       11       17       14       12       16       14       11       15       13       17       15         15       12       18       15       13       17       15       12       16       14       18       16         16       13       19       16       14       18       16       13       17       15       19       17         17       14       20       17       15       19       17       14       18       16       20       18         18       15       21       18       16       20       18       15       19       17       21       19         19       16       22       19       17       21       19       16       20       18       22       20         20       17       23       20       18       22       20       17       21       19       23       21       19         21       18       24       21       19       23       21       18       22       20       24       22       20       24       22       20       24       22       20       24	12	9	15	12	10	14	12	9	13	11	15	13
15       19       18       15       13       17       15       12       16       14       18       16       13       17       15       19       17         16       13       19       16       14       18       16       13       17       15       19       17         17       14       20       17       15       19       17       14       18       16       20       18         18       15       21       18       16       20       18       15       19       17       21       19         19       16       22       19       17       21       19       16       20       18       22       20         20       17       23       20       18       22       20       17       21       19       23       21         21       18       24       21       19       23       21       18       22       20       24       22         22       19       25       22       20       24       22       19       23       21       25       23       21       25       23       21	13	10	16	13	11	15	13	10	14	12	16	14
16       13       19       16       14       18       16       13       17       15       19       17         17       14       20       17       15       19       17       14       18       16       20       18         18       15       21       18       16       20       18       15       19       17       21       19         19       16       22       19       17       21       19       16       20       18       22       20         20       17       23       20       18       22       20       19       23       21         21       18       24       21       19       23       21       18       22       20       24       22         21       18       24       21       19       23       21       19       23       21       25       23       21       25       23       21       25       23       22       20       24       22       20       24       22       22       24       22       22       24       22       24       22       22       24       22	14	11	17	14	12	16	14	11	15	13	17	15
17       14       20       17       15       19       17       14       18       16       20       18         18       15       21       18       16       20       18       15       19       17       21       19         19       16       22       19       17       21       19       16       20       18       22       20         20       17       23       20       18       22       20       17       21       19       23       21         21       18       24       21       19       23       21       18       22       20       24       22         22       19       25       22       20       24       22       19       23       21       25       23         23       20       26       23       21       25       23       20       24       22       26       24         24       21       27       24       22       26       24       21       25       23       27       25         25       22       28       25       23       27       25       22	15	12	18	15	13	17	15	12	16	14	18	16
18     15     21     18     16     20     18     15     19     17     21     19       19     16     22     19     17     21     19     16     20     18     22     20       20     17     23     20     18     22     20     17     21     19     23     21       21     18     24     21     19     23     21     18     22     20     24     22       22     19     25     22     20     24     22     19     23     21     25     23       23     20     26     23     21     25     23     20     24     22     26     24       24     21     27     24     22     26     24     21     25     23     27     25       25     22     28     25     23     27     25     22     26     24     28     26       26     23     29     26     24     28     26     23     27     25     29     27       27     24     30     27     25     29     27     24     28     26     30 <td>16</td> <td>13</td> <td>19</td> <td>16</td> <td>14</td> <td>18</td> <td>16</td> <td>13</td> <td>17</td> <td>15</td> <td>19</td> <td>17</td>	16	13	19	16	14	18	16	13	17	15	19	17
19     16     22     19     17     21     19     16     20     18     22     20       20     17     23     20     18     22     20     17     21     19     23     21       21     18     24     21     19     23     21     18     22     20     24     22       22     19     25     22     20     24     22     19     23     21     25     23       23     20     26     23     21     25     23     20     24     22     26     24       24     21     27     24     22     26     24     21     25     23     27     25       25     22     28     25     23     27     25     22     26     24     28     26       26     23     29     26     24     28     26     23     27     25     29     27       27     24     30     27     25     29     27     24     28     26     30     28       28     25     31     28     26     30     28     25     29     27     29 <td>17</td> <td>14</td> <td>20</td> <td>17</td> <td>15</td> <td>19</td> <td>17</td> <td>14</td> <td>18</td> <td>16</td> <td>20</td> <td>18</td>	17	14	20	17	15	19	17	14	18	16	20	18
20       17       23       20       18       22       20       17       21       19       23       21         21       18       24       21       19       23       21       18       22       20       24       22         22       19       25       22       20       24       22       19       23       21       25       23         23       20       26       23       21       25       23       20       24       22       26       24         24       21       27       24       22       26       24       21       25       23       27       25         25       22       28       25       23       27       25       22       26       24       28       26         26       23       29       26       24       28       26       23       27       25       29       26       24       28       26         26       23       29       26       24       28       26       30       28       26       30       28         28       25       31       28       26	18	15	21	18	16	20	18	15	19	17	21	19
21       18       24       21       19       23       21       18       22       20       24       22       19       23       21       25       23         23       20       26       23       21       25       23       20       24       22       26       24         24       21       27       24       22       26       24       21       25       23       27       25         25       22       28       25       23       27       25       22       26       24       28       26         26       23       29       26       24       28       26       23       27       25       29       26       24       28       26         26       23       29       26       24       28       26       23       27       25       29       27         27       24       30       27       25       29       27       24       28       26       30       28         28       25       31       28       26       30       28       25       29       27       29       26       30	19	16	22	19	17	21	19	16	20	18	22	20
22       19       25       22       20       24       22       19       23       21       25       23         23       20       26       23       21       25       23       20       24       22       26       24         24       21       27       24       22       26       24       21       25       23       27       25         25       22       28       25       23       27       25       22       26       24       28       26         26       23       29       26       24       28       26       23       27       25       29       27         27       24       30       27       25       29       27       24       28       26       30       28         28       25       31       28       26       30       28       25       29       27       29       26       30       28       28       26       30       28       28       26       30       28       28       26       30       28       28       26       30       28       28       29       27       29	20	17	23	20	18	22	20	17	21	19	23	21
23     20     26     23     21     25     23     20     24     29     26     94       24     21     27     24     29     26     24     21     25     23     27     25       25     29     28     25     23     27     25     22     26     24     28     26       26     23     29     26     24     28     26     23     27     25     29     27       27     24     30     27     25     29     27     24     28     26     30     28       28     25     31     28     26     30     28     25     29     27      29       29     26      29     27      29     26     30     28      30       30     27      30     28      30      31     28      30       31	21	18	24	21	19	23	21	18	22	20	24	22
24     21     27     24     29     26     24     21     25     23     27     25       25     22     28     25     23     27     25     22     26     24     28     26       26     23     29     26     24     28     26     23     27     25     29     27       27     24     30     27     25     29     27     24     28     26     30     28       28     25     31     28     26     30     28     25     29     27     29       29     26     29     27     29     26     30     28     30       30     27     30     28     30     27     29     31       31     28     30     28     30     28     30     30	22	19	25	22	20	24	22	19	23	21	25	23
25     22     28     25     23     27     25     22     26     24     28     26       26     23     29     26     24     28     26     23     27     25     29     27       27     24     30     27     25     29     27     24     28     26     30     28       28     25     31     28     26     30     28     25     29     27     29       29     26     29     27     29     26     30     28     30       30     27     30     28     30     28     30     31       31     28     30     28     30     30     30     30     30     30	23	20	26	23	21	25	23	20	24	22	26	24
26     23     29     26     24     28     26     23     27     25     29     27       27     24     30     27     25     29     27     24     28     26     30     28       28     25     31     28     26     30     28     25     29     27      29       29     26      29     27      29     26     30     28      30       30     27      30     27      29      31       31     28      29      31     28      30	24	21	27	24	22	26	24	21	25	23	27	25
27     24     30     27     25     29     27     24     28     26     30     28       28     25     31     28     26     30     28     25     29     27     29       29     26     29     27     29     26     30     28     30       30     27     30     28     30     28     31       31     28     30     30     30     30	25	22	28	25	23	27	25	22	26	24	28	26
28     25     31     28     26     30     28     25     29     27      29       29     26      29     27      29     26     30     28      30       30     27      30     28      30     27      29      31       31     28      29      31     28      30	26	23	29	26	24	28	26	23	27	25	29	27
29     26      29     27      29     26     30     28      30       30     27      30     28      31     28      30      31       31     28      30	27	24	30	27	25	29	27	24	28	26	30	28
30     27      30     28      30     27      29      31       31     28      29      31     28      30	28	25	31	28	26	30	28	25	29	27		29
31 28 29 31 28 30	29	26		29	27		29	26	30	28		30
	30	27		30	28		30	27		29		31
29 30 29 31	31	28			29		31	28		30		.,
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Mo. l'u. We. l'h. Fr. Sa. Su. Mo.

l'u. We. l'h. Fr. Sa. Su. Mo.

Гu. We.

Fh. Fr.

Sa. Su. Mo. l'u. We. I'h. Fr.

Sa. Su. Mo.

Ги. We. Гh. Fr. Sa. Su. Mo.

,	CA	LE	ND	AR	for	19	20,	194	18,	197	8, 6	tc.	
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Noy.	Dec.	
u.		1						1					Su
lo.		2	1					2			1		Mo
u.		3	2			1		3			2		Tu
Ve.		4	3			2		4	1		3	1	W
'n.	1	5	4	1		3	1	5	2		4	2	T
'n.	2	6	5	2		4	2	6	3	1	5	3	F
it.	3	7	6	3	1	5	3	7	4	2	6	4	S
u.	4	8	7	4	2	6	4	8	5	3	7	5	St
lo.	5	9	8	5	3	7	5	9	6	4	8	6	M
'n.	6	10	9	6	4	8	6	10	7	5	9	7	Tu
Ve.	7	11	10	7	5	9	7	11	8	6	10	8	W
h.	8	19	11	8	6	10	8	12	9	7	11	9	T
r.	9	13	12	9	7	11	9	13	10	8	12	10	F
el.	10	14	13	10	8	12	10	14	11	9	13	11	S
u.	11	15	14	11	9	13	11	13	12	10	14	19	Sı
lo.	12	16	15	12	10	14	12	16	13	11	15	13	M
u.	13	17	16	13	11	15	13	17	14	12	16	14	T
Ve.	14	18	17	14	12	16	14	18	15	13	17	15	W
'n.	15	19	18	15	13	17	15	19	16	14	18	16	T
r.	16	20	19	16	14	18	16	20	17	15	19	17	F
a.	17	21	20	17	15	19	17	21	18	16	20	18	S
u.	18	22	21	18	16	20	18	32	19	17	21	19	Sı
lo.	19	23	22	19	17	21	19	23	20	18	22	20	M
u.	20	24	23	20	18	22	20	24	21	19	23	21	T
Ve.	21	25	24	21	19	23	21	25	22	20	24	22	w
h.	22	26	25	22	20	24	22	26	23	21	25	23	TI
ր. Դ.	23	27	26	23	21	25	23	27	24	22	26	94	F
ત. સ.	24	28	27	24	22	26	24	28	25	23	27	25	S
u.	25	29	28	25	23	27	25	29	26	24	28	26	St
u. Io.	26	20	29	26	24	28	26	30	27	25	29	27	M
u.	27	• • • •	30	27	25	29	27	31	28	26	30	28	T
u. Ve.	28	• • • • •	31	28	26	30	28		29	27		29	W
v e. 'h.	29	• • • •	• <b>&gt;</b> 1	29	27	•••	29		30	28	• • • •	30	T
	30		• • • •			• • • •	30	• • • •		29			
r.				30	28							31	Fi
ય.	31			• • • •	29		31			30			SE
u.			$\cdots$	• • • •	30	• • • •				31		• • • •	St
10.					31					• • • •	:		M

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	Jan.	Feb.	Mai.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	
su.					1								Su
lo.		1			2			1					Me
ľu.		2	1		3			2			1		Tu
Ve.		3	3		4	1		3			2		W
h.		4	3		.5	9.		4	1		3	1	Th
r.	1	5	4	1	6	3	1	3	2		4	2	Fr
n.	2	8	5	3	7	4	3	6	3	1	5	3	Sa
u.	3	7	6	3	8	5	3	7	4	2	6	4	Su
lo.	4	8	7	4	9	6	4	8	3	*	7	5	Mo
՝ս.	3	. 9	8	5	10	7	.3	9	6	4	8	6	Tu
Ve.	6	10	9	6	11	8	6	10	7	- 5	9	7	W
h.	7	11	10	7	12	9	7	11	8	6	10	8	Th
r.	8	12	11	8	13	10	8	12	9	7	11	9	Fr
a.	9	13	12	9	14	11	9	13	10	8	12	10	Sa
u.	10	14	13	10	15	12	10	14	11	9	13	11	Su
lo.	11	15	14	11	16	13	11	15	12	10	14	12	Mo
u.	12	16	15	12	17	14	19	16	13	11	15	13	Tu
Ve.	13	17	16	13	18	15	13	17	14	12	16	14	W
h.	14	18	17	14	19	16	14	18	15	13	17	15	Th
r.	15	19	18	15	30	17	15	19	16	14	18	16	Fr.
ռ.	16	20	19	16	21	18	16	20	17	15	19	17	Sa
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### A CRITICAL EXAMINATION.

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From what appears in the foregoing pages, we have an absolute measure of the Christian Era, without a possible error of a day. From the first day of A. D. 1 to the 5th of October, 1582, the years were reckoned as though each consisted of just 365½ days; and this measure was kept up by counting three successive years of 365 days, and the fourth year of 366. And since the 15th of October of that year, the system of reckoning has differed from the preceding by leaving out 3 days in every 400 years; and this is done by counting as common years and not leap years every centurial year of which the number of the century is not divisible by 4, without a remainder. Thus 1600 was a leap year; 1700 and 1800 were common years, and so will be 1900; and 2000 will be a leap year again, because 20 is evenly divisible by 4. From this we can easily tabulate all the days from the beginning of the Era, as follows:—

A.	D.	1	began	on	Saturday,	a	century	containing	36,525	days;
		101		+1	Friday,	63	"	"	36,525	11
		201	**	**	Thursday,	66	**	**	36,525	11
		301	11	11	Wednesday,	. 11	++	11	36,525	**
		401	11	**	Tuesday,	**	11	14	36,525	41
		501	**	**	Monday,	11	11	2.6	36,525	· ·
		601	14	11	Sunday,		11	. 11	36,525	
		701	14	**	Saturday,	**	**	**	36,525	**
		801	63	43	Friday,	14	11	24	36,525	14
		901	44	**	Thursday,	**	44	44	36,525	an earlier and a second
	1	1001	11	11	Wednesday,	**	i.	11	36,525	11
	1	101	11	11	Tuesday,	44	н	14	36,525	•
	1	201	2.6	**	Monday,	**	14	11	36,525	11
	1	301	44	**	Sunday,	44		11	36,525	II .
	1	401	18	**	Saturday	11	н	**	36,525	14
		1501	44	**	Friday,	**	44	**	36,515	" Change of Style.
	1	601	11	**	Monday,	**	34	11	30.524	"
	1	701	44	14	Saturday,	**	**	44	36,524	
		801	**	44	Thursday, a	perio	od of 96	years "	35,064	$" = 305\frac{1}{4} \times 96$

Then 1897 began on Friday, after a total of 692,502 days.

By taking the several numbers of days at the right, and bringing them into weeks, and noting the days over, it will be seen that the day of the week on which each century begins must be correct, and also the first day of 1897.

Q. E. D.

Suppose now we compare with the foregoing the accepted reckoning of the *Julion Period*. When the *Chronograph* was published in 1887, the Nautical Almanac showed that the number of days of the Julian Period to the 1st day of January of that year was 2,410,273 days.

And to the 1st of January of A. D. 1 was

the difference then being

Now add to this 7 common years of 365 days each,

and 3 leap years of 366 " " = 1,098 "

and we have, as before,

692,502 days,

Then 692,502 days = 98,928 weeks and 6 days, or one day less than 98,929 weeks; showing that, if 1897 began on Friday, the first day of the Eta must have been on Saturday.

Q. E. D.

Such crucial tests as the above ought to be enough to satisfy any one who wants an unerring Time Reckoner for thousands of years, that he need not look any farther. The treasury of information which this Chart contains, is given in so simple a form, and for so small a price, as to warrant a demand for millions of copies. It is alike adapted to the place of business and the home; and to the professional man it will be found no less interesting and useful than to the artisan or student; while for every dime that it hopes to receive, it offers more than a full equivalent.

### SACRED CHRONOLOGY.

If there is a man living who wishes to be guided in the way of undeviating truth in all his studies, it is the honest student of Sacred Chronology. And it is a sublime consideration that all God's dealings with the world are in accordance with "The times before appointed," Acts 17:26. Matthew informs us that "Jesus was born in Bethlehem, of Judæa, in the days of Herod the king," Mat. 2:1. And Paul says this event took place "When the fulness of time came," Gal. 4:4. When Jesus entered upon his public ministry, he said, "The time is fulfilled, and the kingdom of God is at hand," Mark 1:15. At one time we hear him saying, "My time is not yet fully come," John 7:8; and again, a few months later, "The hour is come that the Son of Man should be glorified," John 12:23. He directed the last passover to be prepared at the right time; "And when the hour was come, he sat down, and the Apostles with him," Luke 22:14. He was crucified at the time required to fulfill the prophecies of that event; for Paul says, - "In due time Christ died for the ungodly," Ror, 5:6. It is equally true that his ascension was at the right time; and his coming again will be "At the time appointed," Dan. 11:27. And other events are yet predicted to take place "In the dispensation of the fulness of times," Eph. 1:10. Thus Jesus and his disciples recognized prophetic times as no unimportant part of the system of truth which they taught.

Admitting that the inquiring mind may be too anxious to know the times of future events, and that there are "times and seasons" which it is not for us to know, (Acts 1:17); this is all explained by Moses in Den. 29:20, where he says,—"The secret things belong unto the Lord our God; but the things that are rever'ed belong unto us and to our children for ever." We may then reverently study the things that are revealed in the sacred oracles, assured that they "belong to us," not excepting even the times mentioned in them; and that there is a blessing pronounced on those who read, and hear, and keep the things which are thus revealed.

Suppose we would like to have whatever information is obtainable about the times of the Gentiles. Let us first hear what our Saviour says, in Luke 21:24, — "Jerusalem shall be trodden down of the Gentiles, until the times of the Gentiles be fulfilled." And again what Paul says in Rom. 11:25, — "Blindness in part is happened to Israel, until the fulness of the Gentiles be come in." Whether we regard the word until in those texts as containing a ray of hope that the treading down will then cease, and the partial blindness be removed, it is only the purpose of these pages to refer to the time. Though we may never know how often the agonizing cry has gone up from individuals and nations, — "How long?" [See Dan. 8:13; 12:6; and Rev. 6:10]; the Seer of Patmos says:— "The court which is without the temple . . . . is given unto the Gentiles, and the holy city shall they tread under foot 42 months. Here is a prophetic utterance which will surely be fulfilled whenever the appointed time shall have been completed.

Again, the prophet Daniel was informed by an angel that a wicked being or power would arise that would "wear out the Saints of the Most High;" and he says of him:—"He shall think to change the times and the law," [Dan. 7:25, Revised Version.] Here a great field of inquiry is opened, and questions involved which it is not the prerogative of these pages to discuss. But of the times, what changes have been made or attempted? This is a proper subject for the honest chronologist to enquire into, that nothing vicious be palmed off for the genuine. If all science should have truth for its basis, this is as certainly requisite for Chronology, or the science of time, as for any other department of human study. And it is certainly very convenient to have a Calendar so constructed as to show every year of the first century as clearly and accurately as the year in which we are living.

It is earnestly hoped that this little *Chronological Chart*, by the blessing of God, may be the means of throwing some beneficient rays of light along the pathway of honest enquiry.

## PREVIOUS PATENTS AND COPYRIGHTS BY THE PUBLISHER OF THE "CHRONOLOGICAL CHART OF THE CHRISTIAN ERA."

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It was first patented in Canada, in a tubular form, on the 5th of April, 1875, for 5 years; and this was afterwards extended for 5 years more to the 5th of April, 1885. On the 6th of October, 1875, "The Perpetual Gregorian Calendar" was copyrighted in the United States; and a new Copyright was issued for this on the 8th of April, 1887. Only ten days later, or on the 18th of April, 1887, "The Chronogrami" was copyrighted in Canada; and a few days later, by virtue of an Assignment, a Copyright of the same was granted for the United States to Charles A. McCready, now resident in the State of Georgia. But the claim to the working of this, under specific conditions, is now vested in the Author.

THE CHRONOGRAPH is claimed to show with unerring accuracy the regular order of the days of the week and month for every month of every year from the beginning of the Christian Era to the present, and for thousands of years to come; also, the change of Style in 1582, and the ordinary and extraordinary leap years since that time.

#### TESTIMONIAL.

Extracts from a letter addressed to the Publisher of "THE CHRONOGRAPH," by J. B. Dimbleby, Esq., President of the British Chronological and Astronomical Association:

"Memorial Hall, London, 1st July, 1887.

"I thank you very much for *The Chronograph*. . . . . I must show it to the Association, which, I trust, will appreciate it and find it useful, as 1 do. The Chronograph is a clever apparatus, and must have occasioned considerable pains, patience and ingenuity to contrive and make perfect for practical use." . . . . [Then referring to the work of the Association, in the determination of absolute facts, and not opinions, he proceeds:—] "Your Chronograph, for instance, is not opinion, but the result of a perfect method; and therefore every intelligent mind can obtain from it the same unerring results as yourself,"

(Signed) J. B. DIMBLEBY.

Price of CHRONOGRAPH, 25 Cts.; or \$2.00 per dozen; or \$15.00 per 100.

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