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SHORTER CONTRIBUTIONS TO GENERAL GEOLOGY

GEOLOGICAL SURVEY PROFESSIONAL PAPER 334-A

Tables for the calculation of geologic age using the atomic ratios of Pb^{206}/U^{238}, Pb^{207}/U^{235}, Pb^{207}/Pb^{206}, *and* Pb^{208}/Th^{232}. *This report concerns work done on behalf of the U. S. Atomic Energy Commission and is published with the permission of the Commission*

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LETTER SYMBOLS

λ	decay constant
t	age, in millions of years
T	half life
N	number of atoms
N_d	number of atoms of daughter products
N_p	number of atoms of parent
k	present-day atomic ratio of U^{238} to U^{235}
y	year
R	atomic ratio

SHORTER CONTRIBUTIONS TO GENERAL GEOLOGY

TABLES FOR THE CALCULATION OF LEAD ISOTOPE AGES

By L. R. Stieff, T. W. Stern, Seiki Oshiro, and F. E. Senftle

ABSTRACT

Tables are presented for calculating geologic age by using the atomic ratios of Pb^{206}/U^{238}, Pb^{207}/U^{235}, Pb^{207}/Pb^{206}, and Pb^{208}/Th^{232}.

Tables of values of N_d/N_p and t are given for the age equation

$$\frac{N_d}{N_p}=\exp\lambda t-1$$

where λ is the decay constant,

t is age, in millions of years,

N_d is the number of atoms of daughter products,

and N_p is the number of atoms of parent.

Values for N_{207}/N_{206} and t are also given in tabular form for the age equation

$$\frac{N_{207}}{N_{206}}=\frac{\exp\lambda_{235}t-1}{k(\exp\lambda_{238}t-1)}$$

where N_{207} and N_{206} are the number of atoms of radiogenic Pb^{207} and Pb^{206}, respectively, and where k, the present-day atomic ratio of U^{238} to U^{235}, is taken as 137.7. The half lives (T) of U^{238}, U^{235}, and Th^{232} used in the calculations are: $T_{238}=4.51\times10^9$ years, $T_{235}=7.13\times10^8$ years, $T_{232}=1.42\times10^{10}$ years.

The tables cover selected values of t from 1 to 6,000 million years (6×10^9 years) at intervals of t ranging from 1 to 15 million years. Only the calculated errors in t resulting from experimental uncertainties in the determinations of the decay constants and relative abundance of U^{238} and U^{235} have been included. An example is given for a hypothetical geologic age calculation by use of these tables.

INTRODUCTION

Although lead isotope age calculations are in general not difficult to make, both graphs and nomographs are available in the literature to simplify these computations. Holmes (1931, p. 208) published in "The Age of the Earth" a graphical solution of the age equation involving total lead, uranium, and thorium. Eight years later Wickman (1939, p. 6) published several nomographs that gave ages in millions of years equivalent to the weight ratios of Pb^{206}/U^{238}, Pb^{207}/Pb^{206}, and Pb^{208}/Th^{232}. More recently, Kulp and others (1954, p. 345) have prepared nomographs of the three age ratios mentioned above as well as the ratios of Pb^{207}/U^{235} in terms of numbers of atoms rather than in weight percent.

During the course of geochronological studies made by the U. S. Geological Survey it was found desirable to have age equivalents for the various lead isotope ratios at smaller intervals and over a greater range of time than could be obtained from the references mentioned above. Initially, these tables were calculated for the atomic ratios of Pb^{206}/U^{238}, Pb^{207}/U^{235}, Pb^{207}/Pb^{206}, and Pb^{208}/Th^{232} at intervals of t of 1 million years from 1 million years to 6,000 million years. The tables in this paper are an abridgment of the original tables. The calculations were carried to 6,000 million years, an age greater than the probable age of the earth, so that speculative calculations could be made. They are being published because it has been found that for certain types of analysis of isotopic age data these tables are more satisfactory than the published nomographs. For example, the tables offer greater accuracy and ease of manipulation than the nomographs in making repeated solutions of the age equations. Such repeated calculations are particularly useful in evaluating different geologic processes which have produced discordant ages.

The general form of the age equations used to compute the tables was developed by Kovarik (1931, p. 73), Keevil (1939, p. 195), and others. Solutions were obtained for equations of the form

$$\frac{N_d}{N_p}=\exp\lambda t-1.$$

The equation

$$\frac{N_{207}}{N_{206}}=\frac{\exp\lambda_{235}t-1}{k\,(\exp\lambda_{238}t-1)}$$

was solved by iteration. It is important to note that the ratios of N_d/N_p and N_{207}/N_{206} in the present tables are given as ratios of number of atoms of daughter (N_d) to number of atoms of parent (N_p), and number of atoms of Pb^{207} (N_{207}) to Pb^{206} (N_{206}) and not in terms of weight percent.

The authors wish to express their appreciation to F. W. Reilly and D. B. Rock of the Computer Branch for their aid in the operation of the computer, and also to Raynor L. Duncomb, Julena S. Duncomb and G. M. Clemence, of the U. S. Naval Observatory, for their cooperation and help in preparing the tables for printing. This work is part of a program being conducted by the U. S. Geological Survey on behalf of the Division of Research of the U. S. Atomic Energy Commission.

The half lives, decay constants, and ratio of U^{238}/U^{235} used in the calculations are shown in table 1, along with those used by Wickman and by Kulp and others. The values used in this paper were chosen for the following reasons. Fleming and others (1952, p. 642) discuss in some detail the earlier work on the determination of the half life of U^{235}. The weighted average of all previous measurements is numerically the same as their value with a slightly larger probable error. The half-life data of Fleming and others was therefore chosen for these calculations. These authors have also discussed the past determinations of the half life of U^{238}. From their "best values" a half life of $(4.51 \pm 0.007) \times 10^9$ years has been calculated. More recently Kovarik and Adams (1955, p. 46) have redetermined three of their original specimens. Their newest value, $(4.507 \pm 0.009) \times 10^9$ years, lies within the limits of error of the "best value" calculation of Fleming and others. In view of the small differences in half lives, as well as the differences in probable error, a value of $(4.51 \pm 0.01) \times 10^9$ years was therefore chosen.

TABLE 1.—*Physical constants used in calculation of tables*

Nuclide	This paper	Kulp and others, 1954	Wickman, 1939
U^{238}	[1] $T = (4.51 \pm 0.01) \times 10^9 y$ $\lambda = 1.53_{69} \times 10^{-10} y^{-1}$	$T = (4.49 \pm 0.01) \times 10^9 y$ $\lambda = 1.541 \times 10^{-10} y^{-1}$	$T = 4.56 \times 10^9 y$ $\lambda = 1.52 \times 10^{-10} y^{-1}$
U^{235}	[1] $T = (7.13 \pm 0.16) \times 10^8 y$ $\lambda = 9.72_{16} \times 10^{-10} y^{-1}$	$T = (7.13 \pm 0.16) \times 10^8 y$ $\lambda = 9.722 \times 10^{-10} y^{-1}$	$T = 7.14 \times 10^8 y$ $\lambda = 9.72 \times 10^{-10} y^{-1}$
Th^{232}	[2] $T = (1.42 \pm 0.07) \times 10^{10} y$ $\lambda = 4.88_{13} \times 10^{-11} y^{-1}$	$T = (1.39 \pm 0.02) \times 10^{10} y$ $\lambda = 4.987 \times 10^{-11} y^{-1}$	$T = 1.39 \times 10^{10} y$ $\lambda = 4.99 \times 10^{-11} y^{-1}$
Atomic ratio U^{238}/U^{235}	[3] 137.7 ± 0.32	137.7 ± 0.5	139.0 ± 1.0

[1] Fleming and others, 1952, p. 642.
[2] Senftle, Farley, and Lazar, 1956, p. 1629.
[3] Senftle, Stieff, Cuttitta, and Kuroda, 1957, p. 189.

Kovarik and Adams (1938, p. 413) have also determined the half life of Th^{232} as $(1.39 \pm .03) \times 10^{10}$ years. In their very thorough and excellent paper they determined in addition the branching ratio of Bi^{212}. Recently this branching ratio and the half life of thorium have been redetermined by Senftle, Farley, and Lazar (1956). Using a pulse-counting technique they obtained a branching ratio 7.4 percent higher than that obtained by Kovarik and Adams. Although the half life as determined by Kovarik and Adams does not directly depend on the branching ratio of Bi^{212}, the half life was determined from the basic alpha-count data. In spite of the careful alpha-counting techniques used by Kovarik and Adams, the differences in the branching ratio of Bi^{212} raise some questions on the earlier Th^{232} half-life determinations. Also, their calculations depended on the existence of radioactive equilibrium between Th^{232} and Th^{228} based on the age of the thorite and the assumption that the daughter products were undisturbed by processes of alteration and weathering. Senftle, Farley, and Lazar, however, have shown that even for a specimen of fresh thorite chosen because it showed no signs of alteration, the Ra^{224} was 9.5 percent less than the equilibrium amounts; this implies a loss of its parents Th^{228} and Ra^{228}. The tendency of radiogenic daughter products to migrate has been pointed out in detail by Rosholt (1958). Hence, the value of the half life $(1.42 \pm 0.07) \times 10^{10}$ years as determined by Senftle and others was used, even though the quoted percent of error is somewhat larger than that of Kovarik and Adams.

The determination of the atomic ratio N_{238}/N_{235} has been discussed by Fleming and others (1952, p. 642). They observe that a mean value of 137.7 "falls within the limits of error of all values reported." Kulp and others (1954, p. 345) used a value of 137.7 ± 0.5. More recently Senftle, Stieff, Cuttitta, and Kuroda (1957, p. 190) have shown an average value of 137.7 ± 0.32 for 13 uranium specimens. This value with its somewhat smaller probable error has been used for these calculations.

In general, the ratios in the tables are given to four significant places, a value somewhat better than can be justified by present physical measurements and analytical methods. The remaining two numbers in smaller type have been included because of their usefulness in certain theoretical calculations. Corresponding to each ratio a value of t plus or minus the error may be read from the tables or may be directly interpolated as a first approximation if the exact value of the ratio desired is not found. The limits of error for t shown in the tables have been calculated by using only the limits of experimental error reported for the determinations of the decay constants and the abundance ratios, and the error term has been rounded to the nearest 0.1 million years. The error calculations are treated more fully in the section "Methods of computation."

TABLE 2.—*Errors in* t *produced by uncertainties in the physical constants used in calculation*

Age method	Errors in calculation of various ages, both in millions of years					
	100	500	1,500	2,500	4,500	6,000
Pb^{206}/U^{238}	±0. 22	±1. 11	±3. 33	±5. 54	±9. 98	±13. 30
Pb^{207}/U^{235}	±2. 24	±11. 22	±33. 66	±56. 10	±100. 98	±134. 69
Pb^{207}/Pb^{206}	±57. 18	±63. 95	±82. 21	±102. 38	±146. 50	±181. 65
Pb^{208}/Th^{232}	±4. 93	±24. 65	±73. 94	±123. 24	±221. 83	±295. 77

Table 2 lists for several different t's the limits of error in the age calculations resulting from the uncertainties in the physical constants used. This table shows that the limits of error in calculated age for the Pb^{206}/U^{238} method are less than the limits of error for the other three methods. The selection of intervals of t (table 3) was determined in part by the limits of error for the Pb^{206}/U^{238} method. In spite of the larger errors inherent in the other methods, the same interval of t has been used for all four tables in order that equivalent ratios might be obtained for the same value of t. Admittedly, the intervals chosen for the abridged tables are smaller that the uncertainties in the calculated ages introduced by the most precise analytical techniques currently available. However, improvements in the quantitative determination of lead, uranium, thorium, and isotopic abundance may ultimately permit the measurement of small differences in age (1 to 2 million years) of radioactive minerals from rocks of Cambrian age or younger.

TABLE 3.—*Range and interval of* t

Range (years)	Interval (years)
1×10^6 to 500×10^6	1×10^6
500×10^6 to $1{,}500\times10^6$	2×10^6
$1{,}500\times10^6$ to $2{,}500\times10^6$	5×10^6
$2{,}500\times10^6$ to $4{,}500\times10^6$	10×10^6
$4{,}500\times10^6$ to $6{,}000\times10^6$	15×10^6

METHODS OF COMPUTATION

THE N_d/N_p RELATION

For the purpose of programing this work for the digital computer, the general form of the age equation was used,

$$\frac{N_d}{N_p}=R=\exp\lambda_{i_j}t-1 \tag{1}$$

where $i=1, 2, 3$
and $j=1, 2, 3$.

The values of the decay constants with their limits, λ_{i_j}, used for these calculations are shown in table 4.

TABLE 4.—*Decay constants* $\lambda_{i_j}(y^{-1})$

λ	λ plus error	λ minus error
$U^{238}\lambda_{1_1}=1.53_{69}\times10^{-10}$	$\lambda_{1_2}=1.53_{35}\times10^{-10}$	$\lambda_{1_3}=1.54_{03}\times10^{-10}$
$U^{235}\lambda_{2_1}=9.72_{16}\times10^{-10}$	$\lambda_{2_2}=9.50_{82}\times10^{-10}$	$\lambda_{2_3}=9.94_{47}\times10^{-10}$
$Th^{232}\lambda_{3_1}=4.88_{13}\times10^{-11}$	$\lambda_{3_2}=4.65_{20}\times10^{-11}$	$\lambda_{3_3}=5.13_{44}\times10^{-11}$

In computing $\exp\lambda_{i_j}t-1$ the exponential series was expanded

$$\exp x-1=\sum_{n=1}^{\infty}\frac{x^n}{n!}=x+\frac{x^2}{2!}+\frac{x^3}{3!} \tag{2}$$

and the recursion $\frac{x^{n-1}}{(n-1)!}\frac{x}{n}=\frac{x^n}{n!}$ was used to evaluate the series. No round off was used in the evaluation and the maximum error in $\exp\lambda_{i_j}t$ can be shown to be less than 5×10^{-5}.

The problem of calculating the errors in the ages due to the uncertainties in the decay constants was simplified in the following graphical treatment shown in figure 1. By virtue of the geometry in figure 1,

$$t_1N=t_3M=t_2O$$

where t_2 is the age for a plus error in λ and t_3 is the age for a minus error in λ. Therefore,

$$\exp\lambda_{i_1}t_1-1=\exp\lambda_{i_2}t_2-1 \tag{3a}$$

and

$$\exp\lambda_{i_1}t_1-1=\exp\lambda_{i_3}t_3-1. \tag{3b}$$

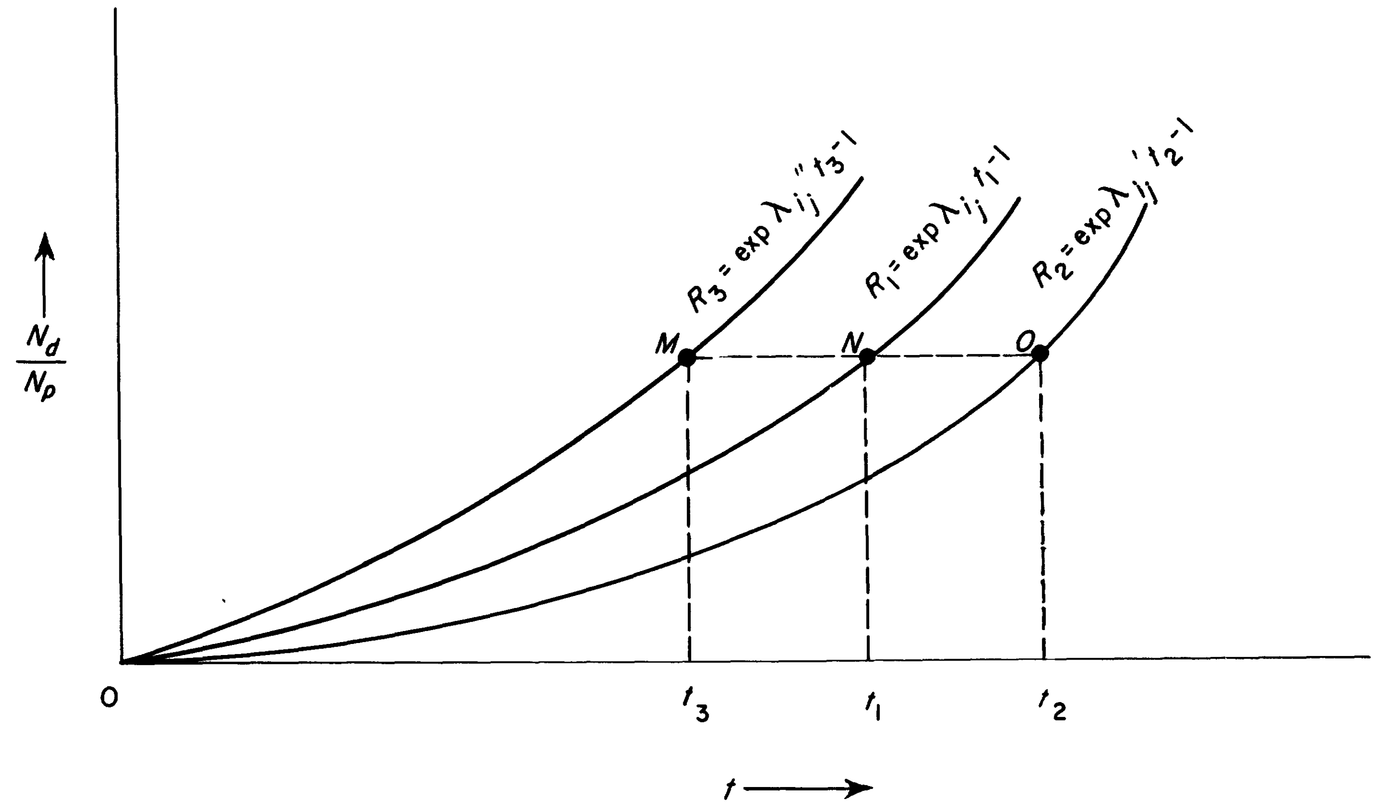

FIGURE 1.—Atomic ratio N_d/N_p plotted against the age, t, showing the plus and minus tolerance curves.

Simplifying and taking logarithms,

$$\lambda_{t_1} t_1 = \lambda_{t_2} t_2 \tag{4a}$$

and

$$\lambda_{t_1} t_1 = \lambda_{t_3} t_3. \tag{4b}$$

Also it is evident from figure 1 that $MN = t_1 - t_3$ and $NO = t_2 - t_1$. Thus, by the substitution the error in the age, MN and NO, can be simply evaluated in a convenient form,

$$MN = t_1\left(1 - \frac{\lambda_{t_1}}{\lambda_{t_3}}\right) \tag{5a}$$

and

$$NO = t_1\left(\frac{\lambda_{t_1}}{\lambda_{t_2}} - 1\right) \tag{5b}$$

If new, more nearly accurate, values of the decay constants become available, it is a simple matter to obtain the corrected age from the tables. For example, suppose the half life of the Th^{232} is changed from $1.42 \pm 0.07 \times 10^{10}$ years to $1.45 \pm 0.02 \times 10^{10}$ years. Calculated in this way using T instead of λ, the new value of the age, t_1' say, will be

$$t_1' = \frac{1.45\ t_1}{1.42}.$$

Similarly, t_2' and t_3' will be

$$t_2' = \frac{1.47\ t_1}{1.42}$$

and

$$t_3' = \frac{1.43\ t_1}{1.42}.$$

Then, if one assumes an experimental ratio of N_{208}/N_{232} of (0.0500_{23}), the corresponding value of t_1 (N_{208}/N_{232} table) is $1{,}000 \times 10^6$ years. The new half-life value would yield t_1', t_2', and t_3' ages of $1{,}021 \times 10^6$ years, $1{,}035 \times 10^6$ years, and $1{,}007 \times 10^6$ years, respectively. Thus, the tables can still be used even if new values of the half lives are redetermined at a later date.

THE N_{207}/N_{206} RELATION

The general equation,

$$\frac{N_{207}}{N_{206}} = R = \frac{\exp \lambda_{2_1} t - 1}{k_1(\exp \lambda_{1_1} t - 1)}, \tag{6}$$

was used for computing the Pb^{207}/Pb^{206} table. The value, k_1, used for the U^{238}/U^{235} atomic ratio was 137.7 ± 0.32 where k_2 and k_3 designate the abundance ratios with the plus and minus tolerances, respectively.

As in the N_d/N_p relation previously described, the calculation of limits of error in the age due to uncertainties in the decay constants has been simplified for programing on the digital computer. By use of a similar graphical argument as shown in figure 2, it can be seen that

$$R=\frac{\exp\lambda_{2_1}t_1-1}{k_1\ (\exp\lambda_{1_1}t_1-1)}=\frac{\exp\lambda_{2_2}t_2-1}{k_2\ (\exp\lambda_{1_2}t_2-1)} \tag{7a}$$

and

$$R=\frac{\exp\lambda_{2_1}t_1-1}{k_1\ (\exp\lambda_{1_1}t_1-1)}=\frac{\exp\lambda_{2_3}t_3-1}{k_3\ (\exp\lambda_{1_3}t_3-1)}. \tag{7b}$$

However, unlike the previous solution, the equations (7a, b) have no direct solution for t_2 and t_3 and an iterative-approximation method had to be used. The left-hand sides of the equations can be evaluated. The right-hand sides are quotients of infinite series in t_2 and t_3. An initial guess was made for t_2 or t_3, as the case may be, and a test for equality was made. Successive approximations were made to the t values until equality was obtained.

For the particular case where $t_1=t_2=t_3=0$, the ratio R is indeterminate. However, by using L'Hospital's ule an approximate but quite accurate value of R can be obtained. Hence, the limits of the ratios as t_1, t_2, and $t_3 \rightarrow 0$, are $R_1=0.0459_{36}$, $R_2=0.0449$, and $R_3=0.0470$. Thus, radiogenic lead being formed at the present time should and does have a N_{207}/N_{206} ratio between 0.045 and 0.047, a value very close to the experimentally observed value.

From the age tables it can be seen that below an age of 56×10^6 years, the Pb^{207}/Pb^{206} method has errors that are larger than the calculated value of t. As has been mentioned, this error is due only to the uncertainties in the physical constants used in the calculations. It is shown in figure 2 for an age t, (which is less than 56×10^6 years) that the horizontal line (a–b) between the ages representing the plus and minus tolerances does not intersect the upper curve on the positive side of the coordinates because of the flatness of the curves in this region. Also, this "flatness" and the round-off error cause oscillation of approximately 0.1 to 1.0 million years in the quoted error in t for ages less than 400 million years, and small irregularities in the 5th and 6th places of the N_{207}/N_{206} ratio for the range from 0 to 50 million years.

SAMPLE AGE CALCULATION

A hypothetical uraninite gave the following chemical data: U=43.6$_{46}$ percent, Pb=7.53$_2$ percent, Th=5.20$_1$

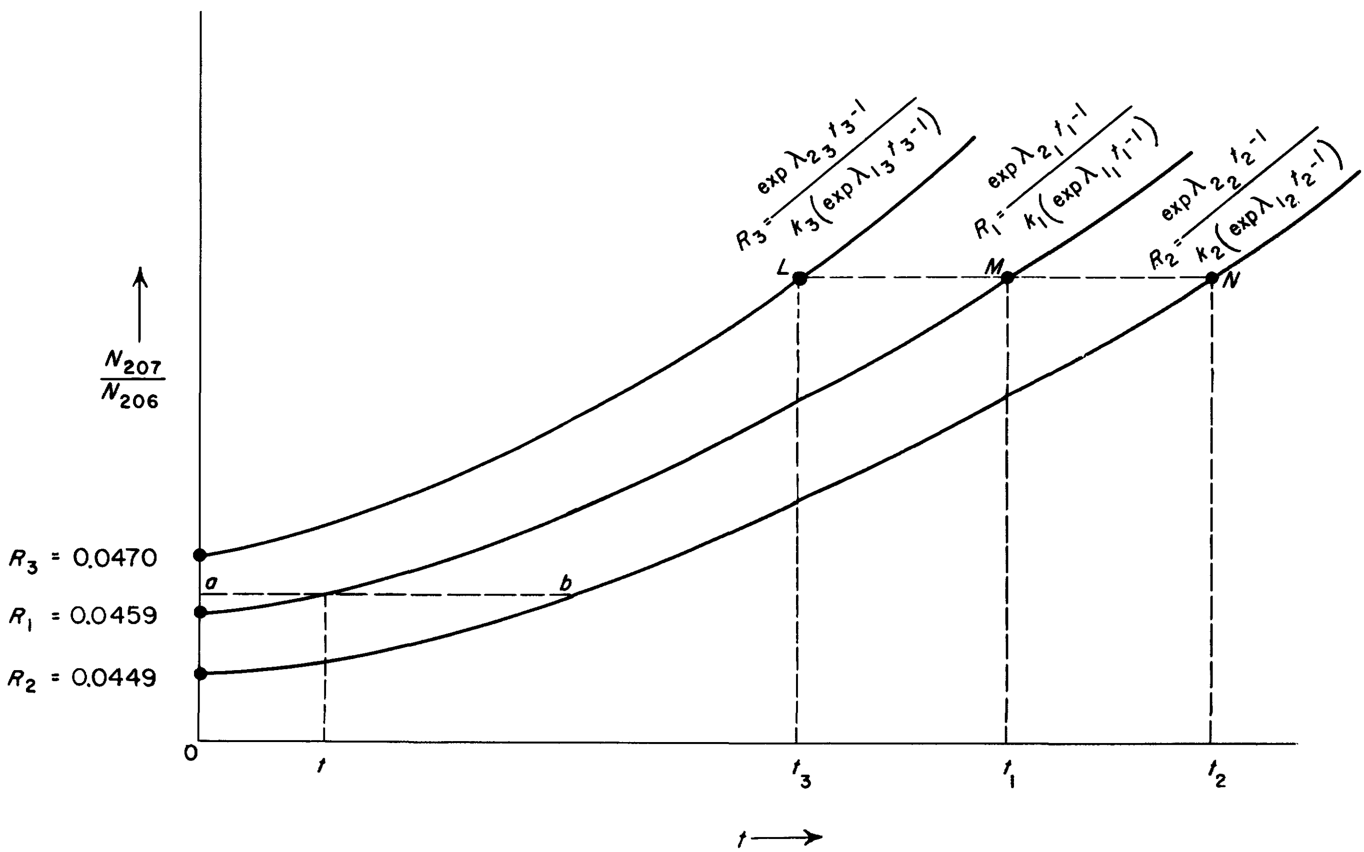

FIGURE 2.—Atomic ratio N_{207}/N_{206} plotted against the age, t, showing the plus and minus tolerance curves.

485342 O—59——2

percent. For an exact age solution in terms of numbers of atoms it is not necessary to convert these data from the chemical to physical scale of atomic weights by multiplying these values by the conversion factor 1.0002783 given by Nier (1950). This conversion factor cancels out in the lead-uranium ratio age calculations.

However, for an exact age solution, it is necessary to use the calculated physical atomic weight of the lead based on the isotopic composition of the sample being dated rather than the physical atomic weight of average common lead, 207.282. The physical atomic weight of this hypothetical radiogenic lead is obtained by multiplying the four lead atom percent abundances by the respective physical atomic weights for the individual lead isotopes. Using the isotopic atomic masses given by Sullivan (1957), 204.0368, 206.039, 207.041, and 208.041, the calculated atomic weight of the radiogenic lead in the uraninite is 206.32. The weight percent of lead corrected for this small factor is:

$$7.53_2 \times \frac{207.282}{206.32} = 7.56_7.$$

Failure to correct for differences in atomic weight will result in errors of approximately 0.2 to 0.5 percent in the calculated lead-uranium and lead-thorium ages depending on the atomic weight of the lead in the radioactive mineral and the physical constants used in the calculation.

Isotopic analyses, in atom percent, of lead in uraninite and associated hypothetical galena

	Lead in—	
	Uraninite	Associated hypothetical galena
Pb^{204}	0. 195_7	1. 43_6
Pb^{206}	81. 17_8	23. 30_6
Pb^{207}	8. 64_2	23. 27_7
Pb^{208}	9. 98_4	51. 98_1

The presence of lead originally deposited (common lead) with the uraninite and not produced by the radioactive decay of the uranium or thorium in the mineral is indicated by 0.195_7 percent Pb^{204} in the isotopic analysis of the lead extracted from the uraninite. Pb^{204} is the only isotope of lead not known to be produced by radioactive decay. The isotopic analysis of the hypothetical galena associated with the uraninite is assumed to approximate closely the isotopic composition of the nonradiogenic lead originally deposited with the uraninite. As this galena also contains Pb^{206}, Pb^{207}, and Pb^{208}, it is necessary to correct the uraninite lead before the age calculations can be made.

CORRECTION FOR ORIGINAL COMMON LEAD

The correction for the original common lead may be made in the following way:

1. Using Pb^{204} as the "index" of the amount of original lead present, a factor proportional to the amount of Pb^{204} present in the uraninite (0.195_7) compared to the Pb^{204} in the galena (1.43_6) is obtained.

$$\frac{0.195_7}{1.43_6} = 0.1362_8$$

2. This factor, when multiplied by the percent abundances of the lead isotopes in the associated galena, will give the proportional amounts of Pb^{204}, Pb^{206}, Pb^{207}, and Pb^{208} originally present in the uraninite.

$$Pb^{204} = 1.43_6 \times 0.1362_8 = 0.195_7$$

$$Pb^{206} = 23.30_6 \times 0.1362_8 = 3.17_6$$

$$Pb^{207} = 23.27_7 \times 0.1362_8 = 3.17_2$$

$$Pb^{208} = 51.98_1 \times 0.1362_8 = 7.08_4$$

3. The isotopic analysis of the lead, in atom percent, from the uraninite is then corrected for the original lead present.

	Pb^{204}	Pb^{206}	Pb^{207}	Pb^{208}
Isotopic analysis of uraninite lead	0. 195_7	81. 17_8	8. 64_2	9. 98_4
Isotopic analysis of original lead present	−. 195_7	−3. 17_6	−3. 17_2	−7. 08_4
Radiogenic lead produced by U+Th	0. 000	78. 00_2	5. 47_0	2. 90_0

Pb^{206}/U^{238} AGE METHOD

The Pb^{206}/U^{238} age is obtained by first multiplying the weight percent (chemical scale) of total lead by the corrected percent of radiogenic Pb^{206} produced by the uranium and dividing by the weight percent (chemical scale) of total uranium multiplied by the atom percent abundance of U^{238}, that is $7.56_7 \times 78.00_2$ divided by $43.6_{46} \times 99.27_3$. It is then necessary to convert this weight ratio into an atomic ratio by dividing the physical atomic weight of the uranium, 238.103, by the physical atomic weight of the lead, 206.32; that is,

$$\frac{238.103}{206.32} = 1.154_0.$$

As Avagadro's number would appear in both the denominator and numerator, it can be canceled out without altering the numerical value of the ratio N_d/N_p. The age calculation thus becomes

$$N_{206}/N_{238}=\frac{7.56_7\times78.00_2}{43.6_{46}\times99.27_3}\times1.154_0=0.1572_0.$$

From the tables read 950±2.1 million years.

Pb^{207}/U^{235} AGE METHOD

Similarly, the Pb^{207}/U^{235} age is obtained by multiplying the chemical weight percent of total lead by the corrected atom percent abundance of radiogenic Pb^{207} and dividing by the chemical weight percent of total uranium multiplied by the atom percent abundance of U^{235}. The conversion factor of weight to atom percent, 1.154_0, is used to change the lead-uranium ratio to an atomic ratio. The Pb^{207}/U^{235} age thus becomes

$$N_{207}/N_{235}=\frac{7.56_7\times5.47_0}{43.6_{46}\times0.720_9}\times1.154_0=1.518_1.$$

From the tables read 950±21.3 million years.

Pb^{207}/Pb^{206} AGE METHOD

The age calculated from the Pb^{207}/Pb^{206} ratio may be obtained directly from the isotopic composition of the remaining radiogenic Pb^{206} and Pb^{207}. The Pb^{207}/Pb^{206} age thus becomes

$$N_{207}/N_{206}=\frac{5.47_0}{78.00_2}=0.0701_3.$$

From the tables read 950±71.9 million years.

Pb^{208}/Th^{232} AGE METHOD

The Pb^{208}/Th^{232} age is obtained by multiplying the total chemical weight percent of lead by the atom percent abundance of remaining radiogenic Pb^{208} and dividing by the total chemical weight percent of thorium times 100. This ratio is converted to an atomic ratio by using the following factor:

$$\frac{232.111}{206.32}=1.1250_0.$$

The Pb^{208}/Th^{232} age thus becomes

$$N_{208}/N_{232}=\frac{7.56_7\times2.90_0}{5.20_1\times100}\times1.125_0=0.0474_7.$$

From the tables read 950±46.8 million years.

Physical isotopic masses were calculated from data given by Huizenga (1955) and by Sullivan (1957).

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TABLES FOR THE CALCULATION OF LEAD ISOTOPE AGES

[Numbers above tables are the ages, in millions of years, that are given on each page]

1-50

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0.000153	1	0.0	0.000972	1	0.0	0.045955	1	55.8	0.000048	1	0.0
0.000307	2	0.0	0.001945	2	0.0	0.045974	2	55.2	0.000097	2	0.1
0.000461	3	0.0	0.002920	3	0.1	0.045993	3	55.2	0.000146	3	0.1
0.000614	4	0.0	0.003895	4	0.1	0.046012	4	55.2	0.000195	4	0.2
0.000768	5	0.0	0.004871	5	0.1	0.046030	5	55.1	0.000244	5	0.2
0.000922	6	0.0	0.005849	6	0.1	0.046049	6	55.1	0.000292	6	0.3
0.001075	7	0.0	0.006828	7	0.2	0.046068	7	55.1	0.000341	7	0.3
0.001229	8	0.0	0.007807	8	0.2	0.046087	8	55.1	0.000390	8	0.4
0.001383	9	0.0	0.008787	9	0.2	0.046106	9	55.1	0.000439	9	0.4
0.001537	10	0.0	0.009768	10	0.2	0.046124	10	55.1	0.000488	10	0.5
0.001691	11	0.0	0.010750	11	0.2	0.046143	11	56.6	0.000536	11	0.5
0.001845	12	0.0	0.011733	12	0.3	0.046162	12	56.7	0.000585	12	0.6
0.001998	13	0.0	0.012717	13	0.3	0.046181	13	57.7	0.000634	13	0.6
0.002153	14	0.0	0.013702	14	0.3	0.046200	14	56.7	0.000683	14	0.7
0.002307	15	0.0	0.014688	15	0.3	0.046219	15	56.6	0.000732	15	0.7
0.002462	16	0.0	0.015674	16	0.4	0.046237	16	55.6	0.000781	16	0.8
0.002615	17	0.0	0.016662	17	0.4	0.046256	17	56.5	0.000829	17	0.8
0.002769	18	0.0	0.017651	18	0.4	0.046275	18	56.6	0.000878	18	0.9
0.002924	19	0.0	0.018642	19	0.4	0.046294	19	55.8	0.000927	19	0.9
0.003077	20	0.0	0.019633	20	0.4	0.046313	20	56.9	0.000976	20	1.0
0.003232	21	0.0	0.020624	21	0.5	0.046337	21	56.3	0.001025	21	1.0
0.003386	22	0.0	0.021616	22	0.5	0.046361	22	56.3	0.001073	22	1.1
0.003540	23	0.1	0.022609	23	0.5	0.046380	23	56.4	0.001122	23	1.1
0.003694	24	0.1	0.023605	24	0.5	0.046399	24	56.6	0.001171	24	1.2
0.003849	25	0.1	0.024600	25	0.6	0.046417	25	56.1	0.001220	25	1.2
0.004002	26	0.1	0.025597	26	0.6	0.046436	26	56.9	0.001269	26	1.3
0.004157	27	0.1	0.026595	27	0.6	0.046455	27	56.4	0.001317	27	1.3
0.004312	28	0.1	0.027593	28	0.6	0.046474	28	56.0	0.001366	28	1.4
0.004466	29	0.1	0.028592	29	0.7	0.046493	29	56.3	0.001416	29	1.4
0.004620	30	0.1	0.029593	30	0.7	0.046513	30	56.5	0.001465	30	1.5
0.004775	31	0.1	0.030594	31	0.7	0.046532	31	56.2	0.001514	31	1.5
0.004930	32	0.1	0.031597	32	0.7	0.046551	32	56.0	0.001563	32	1.6
0.005083	33	0.1	0.032600	33	0.7	0.046570	33	56.6	0.001611	33	1.6
0.005238	34	0.1	0.033605	34	0.8	0.046589	34	56.4	0.001660	34	1.7
0.005393	35	0.1	0.034609	35	0.8	0.046607	35	56.1	0.001709	35	1.7
0.005547	36	0.1	0.035616	36	0.8	0.046626	36	56.4	0.001758	36	1.8
0.005702	37	0.1	0.036622	37	0.8	0.046645	37	56.2	0.001807	37	1.8
0.005857	38	0.1	0.037632	38	0.9	0.046664	38	56.1	0.001855	38	1.9
0.006010	39	0.1	0.038641	39	0.9	0.046682	39	56.8	0.001904	39	1.9
0.006165	40	0.1	0.039651	40	0.9	0.046701	40	56.5	0.001953	40	2.0
0.006320	41	0.1	0.040662	41	0.9	0.046720	41	56.4	0.002003	41	2.0
0.006475	42	0.1	0.041674	42	0.9	0.046739	42	56.3	0.002052	42	2.1
0.006629	43	0.1	0.042687	43	1.0	0.046758	43	56.6	0.002100	43	2.1
0.006784	44	0.1	0.043702	44	1.0	0.046777	44	56.5	0.002149	44	2.2
0.006939	45	0.1	0.044716	45	1.0	0.046796	45	56.3	0.002198	45	2.2
0.007093	46	0.1	0.045732	46	1.0	0.046815	46	56.6	0.002247	46	2.3
0.007249	47	0.1	0.046749	47	1.1	0.046834	47	56.2	0.002296	47	2.3
0.007404	48	0.1	0.047767	48	1.1	0.046853	48	56.1	0.002345	48	2.4
0.007558	49	0.1	0.048787	49	1.1	0.046872	49	56.5	0.002393	49	2.4
0.007713	50	0.1	0.049807	50	1.1	0.046891	50	56.5	0.002442	50	2.5

51-100

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0.007868	51	0.1	0.050829	51	1.1	0.046910	51	56.6	0.002492	51	2.5
0.008022	52	0.1	0.051850	52	1.2	0.046929	52	56.7	0.002541	52	2.6
0.008178	53	0.1	0.052873	53	1.2	0.046948	53	56.4	0.002590	53	2.6
0.008333	54	0.1	0.053897	54	1.2	0.046967	54	56.4	0.002638	54	2.7
0.008488	55	0.1	0.054922	55	1.2	0.046986	55	56.5	0.002687	55	2.7
0.008643	56	0.1	0.055947	56	1.3	0.047005	56	56.4	0.002736	56	2.8
0.008798	57	0.1	0.056976	57	1.3	0.047024	57	56.5	0.002785	57	2.8
0.008953	58	0.1	0.058003	58	1.3	0.047043	58	56.5	0.002835	58	2.9
0.009108	59	0.1	0.059032	59	1.3	0.047062	59	56.5	0.002883	59	2.9
0.009263	60	0.1	0.060063	60	1.3	0.047081	60	56.6	0.002932	60	3.0
0.009418	61	0.1	0.061093	61	1.4	0.047100	61	56.6	0.002981	61	3.0
0.009573	62	0.1	0.062125	62	1.4	0.047119	62	56.7	0.003030	62	3.1
0.009728	63	0.1	0.063159	63	1.4	0.047138	63	56.8	0.003079	63	3.1
0.009884	64	0.1	0.064193	64	1.4	0.047157	64	56.7	0.003128	64	3.2
0.010038	65	0.1	0.065228	65	1.5	0.047176	65	56.9	0.003177	65	3.2
0.010194	66	0.1	0.066264	66	1.5	0.047196	66	56.8	0.003226	66	3.3
0.010350	67	0.1	0.067301	67	1.5	0.047216	67	56.6	0.003275	67	3.3
0.010505	68	0.2	0.068339	68	1.5	0.047243	68	56.7	0.003324	68	3.4
0.010660	69	0.2	0.069378	69	1.5	0.047264	69	56.8	0.003373	69	3.4
0.010815	70	0.2	0.070418	70	1.6	0.047284	70	56.9	0.003421	70	3.5
0.010971	71	0.2	0.071459	71	1.6	0.047301	71	56.7	0.003471	71	3.5
0.011126	72	0.2	0.072501	72	1.6	0.047322	72	56.8	0.003520	72	3.5
0.011281	73	0.2	0.073545	73	1.6	0.047344	73	56.9	0.003569	73	3.6
0.011437	74	0.2	0.074589	74	1.7	0.047361	74	56.9	0.003618	74	3.6
0.011592	75	0.2	0.075634	75	1.7	0.047383	75	56.9	0.003667	75	3.7
0.011748	76	0.2	0.076681	76	1.7	0.047401	76	56.9	0.003715	76	3.7
0.011904	77	0.2	0.077727	77	1.7	0.047418	77	56.8	0.003765	77	3.8
0.012058	78	0.2	0.078775	78	1.8	0.047443	78	57.0	0.003814	78	3.8
0.012214	79	0.2	0.079825	79	1.8	0.047462	79	57.0	0.003863	79	3.9
0.012370	80	0.2	0.080875	80	1.8	0.047479	80	56.9	0.003912	80	3.9
0.012526	81	0.2	0.081926	81	1.8	0.047498	81	56.9	0.003960	81	4.0
0.012681	82	0.2	0.082979	82	1.8	0.047520	82	57.0	0.004010	82	4.0
0.012837	83	0.2	0.084032	83	1.9	0.047538	83	57.0	0.004059	83	4.1
0.012993	84	0.2	0.085086	84	1.9	0.047557	84	56.9	0.004108	84	4.1
0.013148	85	0.2	0.086142	85	1.9	0.047579	85	57.1	0.004157	85	4.2
0.013304	86	0.2	0.087198	86	1.9	0.047598	86	57.0	0.004205	86	4.2
0.013460	87	0.2	0.088255	87	2.0	0.047616	87	56.9	0.004255	87	4.3
0.013615	88	0.2	0.089315	88	2.0	0.047640	88	57.1	0.004304	88	4.3
0.013771	89	0.2	0.090374	89	2.0	0.047658	89	57.0	0.004353	89	4.4
0.013927	90	0.2	0.091434	90	2.0	0.047677	90	57.1	0.004402	90	4.4
0.014082	91	0.2	0.092496	91	2.0	0.047700	91	57.2	0.004451	91	4.5
0.014238	92	0.2	0.093558	92	2.1	0.047719	92	57.2	0.004500	92	4.5
0.014395	93	0.2	0.094621	93	2.1	0.047735	93	57.1	0.004549	93	4.6
0.014551	94	0.2	0.095687	94	2.1	0.047755	94	57.1	0.004598	94	4.6
0.014706	95	0.2	0.096753	95	2.1	0.047778	95	57.3	0.004647	95	4.7
0.014862	96	0.2	0.097819	96	2.2	0.047798	96	57.3	0.004696	96	4.7
0.015019	97	0.2	0.098887	97	2.2	0.047815	97	57.2	0.004745	97	4.8
0.015174	98	0.2	0.099956	98	2.2	0.047838	98	57.3	0.004794	98	4.8
0.015330	99	0.2	0.101025	99	2.2	0.047857	99	57.3	0.004843	99	4.9
0.015487	100	0.2	0.102096	100	2.2	0.047874	100	57.2	0.004892	100	4.9

101-150

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes											
N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0.015642	101	0.2	0.103168	101	2.3	0.047898	101	57.4	0.004942	101	5.0
0.015798	102	0.2	0.104242	102	2.3	0.047918	102	57.5	0.004990	102	5.0
0.015955	103	0.2	0.105316	103	2.3	0.047936	103	57.3	0.005039	103	5.1
0.016110	104	0.2	0.106391	104	2.3	0.047959	104	57.5	0.005088	104	5.1
0.016267	105	0.2	0.107466	105	2.4	0.047976	105	57.3	0.005138	105	5.2
0.016423	106	0.2	0.108543	106	2.4	0.047997	106	57.4	0.005187	106	5.2
0.016580	107	0.2	0.109622	107	2.4	0.048015	107	57.3	0.005236	107	5.3
0.016735	108	0.2	0.110701	108	2.4	0.048038	108	57.5	0.005284	108	5.3
0.016892	109	0.2	0.111782	109	2.4	0.048057	109	57.4	0.005334	109	5.4
0.017048	110	0.2	0.112862	110	2.5	0.048077	110	57.4	0.005383	110	5.4
0.017204	111	0.2	0.113945	111	2.5	0.048098	111	57.5	0.005432	111	5.5
0.017361	112	0.2	0.115028	112	2.5	0.048116	112	57.4	0.005481	112	5.5
0.017517	113	0.3	0.116113	113	2.5	0.048137	113	57.5	0.005530	113	5.6
0.017673	114	0.3	0.117199	114	2.6	0.048159	114	57.7	0.005579	114	5.6
0.017830	115	0.3	0.118285	115	2.6	0.048177	115	57.6	0.005628	115	5.7
0.017986	116	0.3	0.119372	116	2.6	0.048198	116	57.6	0.005678	116	5.7
0.018142	117	0.3	0.120461	117	2.6	0.048220	117	57.7	0.005727	117	5.8
0.018299	118	0.3	0.121551	118	2.6	0.048238	118	57.6	0.005775	118	5.8
0.018457	119	0.3	0.122643	119	2.7	0.048255	119	57.4	0.005824	119	5.9
0.018614	120	0.3	0.123734	120	2.7	0.048274	120	57.4	0.005874	120	5.9
0.018769	121	0.3	0.124827	121	2.7	0.048298	121	57.6	0.005923	121	6.0
0.018926	122	0.3	0.125922	122	2.7	0.048317	122	57.5	0.005972	122	6.0
0.019083	123	0.3	0.127016	123	2.8	0.048336	123	57.5	0.006022	123	6.1
0.019239	124	0.3	0.128111	124	2.8	0.048358	124	57.6	0.006070	124	6.1
0.019396	125	0.3	0.129210	125	2.8	0.048378	125	57.6	0.006119	125	6.2
0.019553	126	0.3	0.130309	126	2.8	0.048397	126	57.6	0.006168	126	6.2
0.019709	127	0.3	0.131407	127	2.8	0.048419	127	57.7	0.006218	127	6.3
0.019866	128	0.3	0.132508	128	2.9	0.048439	128	57.7	0.006267	128	6.3
0.020023	129	0.3	0.133609	129	2.9	0.048458	129	57.6	0.006315	129	6.4
0.020179	130	0.3	0.134711	130	2.9	0.048480	130	57.7	0.006365	130	6.4
0.020336	131	0.3	0.135815	131	2.9	0.048500	131	57.8	0.006414	131	6.5
0.020493	132	0.3	0.136921	132	3.0	0.048521	132	57.8	0.006463	132	6.5
0.020650	133	0.3	0.138026	133	3.0	0.048540	133	57.7	0.006513	133	6.6
0.020807	134	0.3	0.139133	134	3.0	0.048560	134	57.8	0.006561	134	6.6
0.020964	135	0.3	0.140241	135	3.0	0.048581	135	57.8	0.006610	135	6.7
0.021121	136	0.3	0.141350	136	3.1	0.048601	136	57.8	0.006660	136	6.7
0.021277	137	0.3	0.142460	137	3.1	0.048623	137	57.9	0.006709	137	6.8
0.021434	138	0.3	0.143572	138	3.1	0.048644	138	57.9	0.006758	138	6.8
0.021592	139	0.3	0.144684	139	3.1	0.048662	139	57.8	0.006808	139	6.9
0.021748	140	0.3	0.145797	140	3.1	0.048685	140	58.0	0.006856	140	6.9
0.021905	141	0.3	0.146911	141	3.2	0.048705	141	57.9	0.006905	141	7.0
0.022063	142	0.3	0.148027	142	3.2	0.048723	142	57.8	0.006955	142	7.0
0.022219	143	0.3	0.149143	143	3.2	0.048746	143	58.0	0.007004	143	7.0
0.022376	144	0.3	0.150261	144	3.2	0.048767	144	58.1	0.007053	144	7.1
0.022534	145	0.3	0.151380	145	3.3	0.048786	145	58.0	0.007102	145	7.1
0.022691	146	0.3	0.152499	146	3.3	0.048806	146	58.0	0.007151	146	7.2
0.022848	147	0.3	0.153621	147	3.3	0.048827	147	58.0	0.007200	147	7.2
0.023005	148	0.3	0.154742	148	3.3	0.048848	148	58.1	0.007250	148	7.3
0.023163	149	0.3	0.155865	149	3.3	0.048867	149	58.1	0.007299	149	7.3
0.023320	150	0.3	0.156989	150	3.4	0.048888	150	58.0	0.007348	150	7.4

485342 O—59——3

151-200

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0.023478	151	0.3	0.158116	151	3.4	0.048908	151	58.0	0.007397	151	7.4
0.023635	152	0.3	0.159241	152	3.4	0.048928	152	58.0	0.007446	152	7.5
0.023792	153	0.3	0.160369	153	3.4	0.048950	153	58.1	0.007495	153	7.5
0.023950	154	0.3	0.161497	154	3.5	0.048969	154	58.0	0.007545	154	7.6
0.024107	155	0.3	0.162627	155	3.5	0.048990	155	58.1	0.007594	155	7.6
0.024264	156	0.3	0.163758	156	3.5	0.049012	156	58.2	0.007642	156	7.7
0.024422	157	0.3	0.164890	157	3.5	0.049031	157	58.1	0.007692	157	7.7
0.024579	158	0.4	0.166023	158	3.5	0.049053	158	58.2	0.007741	158	7.8
0.024736	159	0.4	0.167157	159	3.6	0.049075	159	58.3	0.007791	159	7.8
0.024894	160	0.4	0.168293	160	3.6	0.049095	160	58.2	0.007840	160	7.9
0.025052	161	0.4	0.169429	161	3.6	0.049114	161	58.2	0.007888	161	7.9
0.025209	162	0.4	0.170566	162	3.6	0.049136	162	58.3	0.007938	162	8.0
0.025366	163	0.4	0.171706	163	3.7	0.049158	163	58.4	0.007987	163	8.0
0.025524	164	0.4	0.172844	164	3.7	0.049178	164	58.3	0.008037	164	8.1
0.025682	165	0.4	0.173985	165	3.7	0.049198	165	58.3	0.008086	165	8.1
0.025839	166	0.4	0.175127	166	3.7	0.049220	166	58.4	0.008135	166	8.2
0.025997	167	0.4	0.176269	167	3.7	0.049240	167	58.3	0.008184	167	8.2
0.026155	168	0.4	0.177414	168	3.8	0.049260	168	58.3	0.008233	168	8.3
0.026312	169	0.4	0.178560	169	3.8	0.049282	169	58.4	0.008283	169	8.3
0.026470	170	0.4	0.179707	170	3.8	0.049303	170	58.5	0.008332	170	8.4
0.026629	171	0.4	0.180853	171	3.8	0.049321	171	58.3	0.008381	171	8.4
0.026786	172	0.4	0.182002	172	3.9	0.049344	172	58.4	0.008430	172	8.5
0.026944	173	0.4	0.183151	173	3.9	0.049364	173	58.4	0.008479	173	8.5
0.027102	174	0.4	0.184302	174	3.9	0.049384	174	58.4	0.008529	174	8.6
0.027260	175	0.4	0.185453	175	3.9	0.049405	175	58.4	0.008578	175	8.6
0.027417	176	0.4	0.186607	176	3.9	0.049428	176	58.5	0.008627	176	8.7
0.027576	177	0.4	0.187762	177	4.0	0.049447	177	58.4	0.008676	177	8.7
0.027734	178	0.4	0.188917	178	4.0	0.049468	178	58.4	0.008725	178	8.8
0.027891	179	0.4	0.190073	179	4.0	0.049490	179	58.6	0.008775	179	8.8
0.028049	180	0.4	0.191231	180	4.0	0.049511	180	58.6	0.008824	180	8.9
0.028207	181	0.4	0.192387	181	4.1	0.049531	181	58.5	0.008874	181	8.9
0.028365	182	0.4	0.193549	182	4.1	0.049553	182	58.6	0.008923	182	9.0
0.028523	183	0.4	0.194710	183	4.1	0.049574	183	58.6	0.008971	183	9.0
0.028681	184	0.4	0.195871	184	4.1	0.049595	184	58.6	0.009021	184	9.1
0.028839	185	0.4	0.197034	185	4.2	0.049616	185	58.6	0.009070	185	9.1
0.028997	186	0.4	0.198199	186	4.2	0.049638	186	58.7	0.009120	186	9.2
0.029155	187	0.4	0.199364	187	4.2	0.049659	187	58.7	0.009169	187	9.2
0.029315	188	0.4	0.200531	188	4.2	0.049677	188	58.6	0.009218	188	9.3
0.029472	189	0.4	0.201698	189	4.2	0.049700	189	58.7	0.009267	189	9.3
0.029631	190	0.4	0.202867	190	4.3	0.049720	190	58.7	0.009317	190	9.4
0.029789	191	0.4	0.204036	191	4.3	0.049741	191	58.7	0.009366	191	9.4
0.029947	192	0.4	0.205207	192	4.3	0.049762	192	58.7	0.009415	192	9.5
0.030105	193	0.4	0.206379	193	4.3	0.049784	193	58.8	0.009464	193	9.5
0.030264	194	0.4	0.207554	194	4.4	0.049804	194	58.7	0.009513	194	9.6
0.030422	195	0.4	0.208729	195	4.4	0.049826	195	58.8	0.009563	195	9.6
0.030580	196	0.4	0.209904	196	4.4	0.049848	196	58.8	0.009612	196	9.7
0.030739	197	0.4	0.211081	197	4.4	0.049868	197	58.8	0.009662	197	9.7
0.030896	198	0.4	0.212259	198	4.4	0.049891	198	58.9	0.009711	198	9.8
0.031055	199	0.4	0.213438	199	4.5	0.049912	199	58.9	0.009760	199	9.8
0.031214	200	0.4	0.214617	200	4.5	0.049932	200	58.8	0.009809	200	9.9

201-250

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0.031373	201	0.4	0.215800	201	4.5	0.049952	201	58.8	0.009859	201	9.9
0.031530	202	0.4	0.216982	202	4.5	0.049976	202	59.0	0.009908	202	10.0
0.031690	203	0.5	0.218166	203	4.6	0.049995	203	58.9	0.009958	203	10.0
0.031849	204	0.5	0.219350	204	4.6	0.050015	204	58.8	0.010006	204	10.1
0.032007	205	0.5	0.220536	205	4.6	0.050038	205	59.0	0.010056	205	10.1
0.032166	206	0.5	0.221722	206	4.6	0.050058	206	58.9	0.010105	206	10.2
0.032325	207	0.5	0.222913	207	4.6	0.050079	207	58.9	0.010155	207	10.2
0.032482	208	0.5	0.224101	208	4.7	0.050103	208	59.1	0.010204	208	10.3
0.032641	209	0.5	0.225291	209	4.7	0.050124	209	59.1	0.010253	209	10.3
0.032800	210	0.5	0.226484	210	4.7	0.050145	210	59.0	0.010302	210	10.4
0.032958	211	0.5	0.227676	211	4.7	0.050167	211	59.1	0.010352	211	10.4
0.033117	212	0.5	0.228870	212	4.8	0.050188	212	59.1	0.010401	212	10.5
0.033276	213	0.5	0.230066	213	4.8	0.050209	213	59.1	0.010451	213	10.5
0.033435	214	0.5	0.231263	214	4.8	0.050230	214	59.1	0.010500	214	10.5
0.033594	215	0.5	0.232460	215	4.8	0.050251	215	59.1	0.010549	215	10.6
0.033754	216	0.5	0.233660	216	4.8	0.050271	216	59.0	0.010598	216	10.6
0.033913	217	0.5	0.234858	217	4.9	0.050292	217	59.0	0.010648	217	10.7
0.034071	218	0.5	0.236060	218	4.9	0.050315	218	59.2	0.010697	218	10.7
0.034230	219	0.5	0.237262	219	4.9	0.050337	219	59.2	0.010747	219	10.8
0.034389	220	0.5	0.238466	220	4.9	0.050358	220	59.2	0.010795	220	10.8
0.034547	221	0.5	0.239669	221	5.0	0.050381	221	59.3	0.010845	221	10.9
0.034707	222	0.5	0.240875	222	5.0	0.050401	222	59.2	0.010894	222	10.9
0.034866	223	0.5	0.242083	223	5.0	0.050422	223	59.2	0.010944	223	11.0
0.035024	224	0.5	0.243291	224	5.0	0.050445	224	59.3	0.010993	224	11.0
0.035183	225	0.5	0.244500	225	5.0	0.050467	225	59.3	0.011043	225	11 1
0.035343	226	0.5	0.245711	226	5.1	0.050487	226	59.2	0.011091	226	11.1
0.035503	227	0.5	0.246922	227	5.1	0.050508	227	59.3	0.011141	227	11.2
0.035661	228	0.5	0.248134	228	5.1	0.050531	228	59.4	0.011190	228	11.2
0.035821	229	0.5	0.249348	229	5.1	0.050551	229	59.3	0.011240	229	11.3
0.035980	230	0.5	0.250564	230	5.2	0.050573	230	59.3	0.011290	230	11.3
0.036139	231	0.5	0.251779	231	5.2	0.050595	231	59.4	0.011338	231	11.4
0.036298	232	0.5	0.252998	232	5.2	0.050617	232	59.4	0.011388	232	11.4
0.036458	233	0.5	0.254216	233	5.2	0.050637	233	59.4	0.011437	233	11.5
0.036616	234	0.5	0.255436	234	5.3	0.050661	234	59.5	0.011487	234	11.5
0.036776	235	0.5	0.256658	235	5.3	0.050682	235	59.5	0.011536	235	11.6
0.036935	236	0.5	0.257879	236	5.3	0.050704	236	59.5	0.011585	236	11.6
0.037095	237	0.5	0.259103	237	5.3	0.050725	237	59.5	0.011634	237	11.7
0.037254	238	0.5	0.260328	238	5.3	0.050747	238	59.5	0.011684	238	11.7
0.037414	239	0.5	0.261554	239	5.4	0.050768	239	59.5	0.011734	239	11 8
0.037574	240	0.5	0.262780	240	5.4	0.050789	240	59.5	0.011783	240	11.8
0.037732	241	0.5	0.264008	241	5.4	0.050812	241	59.6	0.011833	241	11.9
0.037892	242	0.5	0.265238	242	5.4	0.050833	242	59.5	0.011881	242	11.9
0.038052	243	0.5	0.266469	243	5.5	0.050855	243	59.6	0.011931	243	12.0
0.038211	244	0.5	0.267701	244	5.5	0.050877	244	59.6	0.011980	244	12.0
0.038370	245	0.5	0.268934	245	5.5	0.050900	245	59.7	0.012030	245	12.1
0.038530	246	0.5	0.270168	246	5.5	0.050921	246	59.7	0.012080	246	12 1
0.038690	247	0.5	0.271403	247	5.5	0.050942	247	59.6	0.012128	247	12.2
0.038850	248	0.5	0.272639	248	5.6	0.050963	248	59.6	0.012178	248	12.2
0.039010	249	0.6	0.273878	249	5.6	0.050985	249	59.6	0.012227	249	12 3
0.039169	250	0.6	0.275116	250	5.6	0.051008	250	59.7	0.012277	250	12.3

251-300

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0.039329	251	0.6	0.276357	251	5.6	0.051029	251	59.7	0.012327	251	12.4
0.039489	252	0.6	0.277599	252	5.7	0.051051	252	59.7	0.012375	252	12.4
0.039648	253	0.6	0.278841	253	5.7	0.051074	253	59.8	0.012425	253	12.5
0.039807	254	0.6	0.280084	254	5.7	0.051096	254	59.8	0.012474	254	12.5
0.039968	255	0.6	0.281330	255	5.7	0.051117	255	59.7	0.012524	255	12.6
0.040129	256	0.6	0.282575	256	5.7	0.051137	256	59.7	0.012574	256	12.6
0.040288	257	0.6	0.283825	257	5.8	0.051161	257	59.8	0.012623	257	12.7
0.040448	258	0.6	0.285072	258	5.8	0.051182	258	59.8	0.012672	258	12.7
0.040608	259	0.6	0.286322	259	5.8	0.051204	259	59.8	0.012721	259	12.8
0.040767	260	0.6	0.287574	260	5.8	0.051227	260	59.8	0.012771	260	12.8
0.040927	261	0.6	0.288825	261	5.9	0.051249	261	59.9	0.012821	261	12.9
0.041087	262	0.6	0.290078	262	5.9	0.051271	262	59.9	0.012870	262	12.9
0.041246	263	0.6	0.291335	263	5.9	0.051295	263	60.0	0.012919	263	13.0
0.041408	264	0.6	0.292590	264	5.9	0.051314	264	59.9	0.012969	264	13.0
0.041568	265	0.6	0.293847	265	5.9	0.051336	265	59.9	0.013018	265	13.1
0.041728	266	0.6	0.295106	266	6.0	0.051358	266	59.9	0.013068	266	13.1
0.041887	267	0.6	0.296365	267	6.0	0.051382	267	60.0	0.013117	267	13.2
0.042048	268	0.6	0.297625	268	6.0	0.051403	268	60.0	0.013166	268	13.2
0.042208	269	0.6	0.298889	269	6.0	0.051425	269	60.0	0.013216	269	13.3
0.042367	270	0.6	0.300152	270	6.1	0.051449	270	60.1	0.013265	270	13.3
0.042529	271	0.6	0.301416	271	6.1	0.051469	271	60.0	0.013315	271	13.4
0.042689	272	0.6	0.302681	272	6.1	0.051491	272	60.0	0.013365	272	13.4
0.042849	273	0.6	0.303948	273	6.1	0.051513	273	60.0	0.013414	273	13.5
0.043009	274	0.6	0.305216	274	6.1	0.051536	274	60.1	0.013463	274	13.5
0.043170	275	0.6	0.306486	275	6.2	0.051557	275	60.0	0.013513	275	13.6
0.043329	276	0.6	0.307757	276	6.2	0.051581	276	60.1	0.013562	276	13.6
0.043490	277	0.6	0.309030	277	6.2	0.051603	277	60.2	0.013612	277	13.7
0.043650	278	0.6	0.310302	278	6.2	0.051625	278	60.2	0.013662	278	13.7
0.043812	279	0.6	0.311577	279	6.3	0.051646	279	60.1	0.013710	279	13.8
0.043971	280	0.6	0.312852	280	6.3	0.051670	280	60.2	0.013760	280	13.8
0.044132	281	0.6	0.314128	281	6.3	0.051691	281	60.1	0.013810	281	13.9
0.044293	282	0.6	0.315407	282	6.3	0.051713	282	60.2	0.013859	282	13.9
0.044452	283	0.6	0.316687	283	6.4	0.051737	283	60.3	0.013909	283	14.0
0.044613	284	0.6	0.317968	284	6.4	0.051759	284	60.3	0.013958	284	14.0
0.044775	285	0.6	0.319249	285	6.4	0.051779	285	60.2	0.014007	285	14.0
0.044935	286	0.6	0.320532	286	6.4	0.051802	286	60.2	0.014057	286	14.1
0.045095	287	0.6	0.321817	287	6.4	0.051825	287	60.3	0.014107	287	14.1
0.045256	288	0.6	0.323102	288	6.5	0.051847	288	60.3	0.014156	288	14.2
0.045416	289	0.6	0.324390	289	6.5	0.051871	289	60.4	0.014206	289	14.2
0.045577	290	0.6	0.325678	290	6.5	0.051892	290	60.3	0.014255	290	14.3
0.045738	291	0.6	0.326967	291	6.5	0.051914	291	60.3	0.014304	291	14.3
0.045900	292	0.6	0.328258	292	6.6	0.051936	292	60.3	0.014354	292	14.4
0.046059	293	0.6	0.329549	293	6.6	0.051960	293	60.4	0.014404	293	14.4
0.046220	294	0.7	0.330844	294	6.6	0.051982	294	60.4	0.014453	294	14.5
0.046381	295	0.7	0.332138	295	6.6	0.052004	295	60.4	0.014502	295	14.5
0.046541	296	0.7	0.333433	296	6.6	0.052028	296	60.5	0.014552	296	14.6
0.046702	297	0.7	0.334729	297	6.7	0.052050	297	60.5	0.014602	297	14.6
0.046863	298	0.7	0.336027	298	6.7	0.052072	298	60.5	0.014651	298	14.7
0.047024	299	0.7	0.337327	299	6.7	0.052095	299	60.5	0.014701	299	14.7
0.047185	300	0.7	0.338627	300	6.7	0.052117	300	60.5	0.014751	300	14.8

301-350

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes											
N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0,047347	301	0,7	0,339930	301	6,8	0,052139	301	60,5	0,014799	301	14,8
0,047507	302	0,7	0,341234	302	6,8	0,052162	302	60,5	0,014849	302	14,9
0,047668	303	0,7	0,342537	303	6,8	0,052185	303	60,6	0,014899	303	14,9
0,047829	304	0,7	0,343843	304	6,8	0,052207	304	60,6	0,014949	304	15,0
0,047990	305	0,7	0,345151	305	6,8	0,052230	305	60,6	0,014998	305	15,0
0,048151	306	0,7	0,346459	306	6,9	0,052253	306	60,6	0,015047	306	15,1
0,048313	307	0,7	0,347769	307	6,9	0,052274	307	60,6	0,015097	307	15,1
0,048474	308	0,7	0,349080	308	6,9	0,052297	308	60,6	0,015147	308	15,2
0,048634	309	0,7	0,350393	309	6,9	0,052321	309	60,7	0,015196	309	15,2
0,048796	310	0,7	0,351705	310	7,0	0,052343	310	60,7	0,015246	310	15,3
0,048958	311	0,7	0,353022	311	7,0	0,052365	311	60,7	0,015295	311	15,3
0,049118	312	0,7	0,354336	312	7,0	0,052389	312	60,7	0,015344	312	15,4
0,049280	313	0,7	0,355654	313	7,0	0,052411	313	60,7	0,015394	313	15,4
0,049441	314	0,7	0,356973	314	7,0	0,052434	314	60,8	0,015444	314	15,5
0,049601	315	0,7	0,358293	315	7,1	0,052458	315	60,8	0,015494	315	15,5
0,049764	316	0,7	0,359613	316	7,1	0,052479	316	60,8	0,015543	316	15,6
0,049925	317	0,7	0,360935	317	7,1	0,052502	317	60,8	0,015592	317	15,6
0,050086	318	0,7	0,362259	318	7,1	0,052525	318	60,8	0,015642	318	15,7
0,050247	319	0,7	0,363584	319	7,2	0,052548	319	60,8	0,015692	319	15,7
0,050409	320	0,7	0,364911	320	7,2	0,052570	320	60,8	0,015741	320	15,8
0,050570	321	0,7	0,366238	321	7,2	0,052594	321	60,9	0,015791	321	15,8
0,050732	322	0,7	0,367568	322	7,2	0,052616	322	60,9	0,015840	322	15,9
0,050894	323	0,7	0,368898	323	7,2	0,052638	323	60,9	0,015890	323	15,9
0,051055	324	0,7	0,370228	324	7,3	0,052661	324	60,9	0,015940	324	16,0
0,051216	325	0,7	0,371561	325	7,3	0,052685	325	61,0	0,015989	325	16,0
0,051378	326	0,7	0,372896	326	7,3	0,052708	326	61,0	0,016039	326	16,1
0,051540	327	0,7	0,374231	327	7,3	0,052730	327	61,0	0,016088	327	16,1
0,051701	328	0,7	0,375567	328	7,4	0,052753	328	61,0	0,016138	328	16,2
0,051863	329	0,7	0,376905	329	7,4	0,052776	329	61,0	0,016187	329	16,2
0,052025	330	0,7	0,378244	330	7,4	0,052799	330	61,0	0,016237	330	16,3
0,052185	331	0,7	0,379584	331	7,4	0,052823	331	61,1	0,016287	331	16,3
0,052348	332	0,7	0,380928	332	7,5	0,052845	332	61,1	0,016337	332	16,4
0,052510	333	0,7	0,382270	333	7,5	0,052868	333	61,1	0,016386	333	16,4
0,052672	334	0,7	0,383615	334	7,5	0,052891	334	61,1	0,016435	334	16,5
0,052833	335	0,7	0,384959	335	7,5	0,052914	335	61,1	0,016485	335	16,5
0,052995	336	0,7	0,386306	336	7,5	0,052937	336	61,1	0,016535	336	16,6
0,053158	337	0,7	0,387654	337	7,6	0,052959	337	61,1	0,016585	337	16,6
0,053319	338	0,7	0,389004	338	7,6	0,052983	338	61,2	0,016634	338	16,7
0,053481	339	0,8	0,390356	339	7,6	0,053006	339	61,2	0,016683	339	16,7
0,053643	340	0,8	0,391708	340	7,6	0,053029	340	61,2	0,016733	340	16,8
0,053804	341	0,8	0,393062	341	7,7	0,053053	341	61,2	0,016783	341	16,8
0,053967	342	0,8	0,394416	342	7,7	0,053075	342	61,2	0,016833	342	16,9
0,054129	343	0,8	0,395773	343	7,7	0,053098	343	61,2	0,016882	343	16,9
0,054290	344	0,8	0,397131	344	7,7	0,053122	344	61,2	0,016931	344	17,0
0,054452	345	0,8	0,398489	345	7,7	0,053145	345	61,3	0,016981	345	17,0
0,054615	346	0,8	0,399849	346	7,8	0,053167	346	61,3	0,017031	346	17,1
0,054778	347	0,8	0,401211	347	7,8	0,053190	347	61,2	0,017081	347	17,1
0,054939	348	0,8	0,402574	348	7,8	0,053214	348	61,3	0,017131	348	17,2
0,055101	349	0,8	0,403939	349	7,8	0,053238	349	61,3	0,017180	349	17,2
0,055263	350	0,8	0,405303	350	7,9	0,053261	350	61,3	0,017229	350	17,3

351-400

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0.055426	351	0.8	0.406671	351	7.9	0.053283	351	61.4	0.017279	351	17.3
0.055588	352	0.8	0.408040	352	7.9	0.053307	352	61.4	0.017329	352	17.4
0.055750	353	0.8	0.409408	353	7.9	0.053330	353	61.4	0.017379	353	17.4
0.055912	354	0.8	0.410780	354	7.9	0.053354	354	61.4	0.017428	354	17.5
0.056075	355	0.8	0.412151	355	8.0	0.053376	355	61.4	0.017478	355	17.5
0.056237	356	0.8	0.413524	356	8.0	0.053400	356	61.4	0.017527	356	17.5
0.056399	357	0.8	0.414900	357	8.0	0.053424	357	61.5	0.017577	357	17.6
0.056561	358	0.8	0.416276	358	8.0	0.053447	358	61.5	0.017627	358	17.6
0.056724	359	0.8	0.417655	359	8.1	0.053470	359	61.5	0.017677	359	17.7
0.056887	360	0.8	0.419032	360	8.1	0.053493	360	61.5	0.017726	360	17.7
0.057049	361	0.8	0.420413	361	8.1	0.053517	361	61.6	0.017776	361	17.8
0.057211	362	0.8	0.421794	362	8.1	0.053541	362	61.6	0.017826	362	17.8
0.057374	363	0.8	0.423178	363	8.1	0.053564	363	61.6	0.017875	363	17.9
0.057536	364	0.8	0.424562	364	8.2	0.053587	364	61.6	0.017925	364	17.9
0.057699	365	0.8	0.425947	365	8.2	0.053610	365	61.6	0.017974	365	18.0
0.057862	366	0.8	0.427333	366	8.2	0.053633	366	61.6	0.018024	366	18.0
0.058023	367	0.8	0.428722	367	8.2	0.053658	367	61.7	0.018074	367	18.1
0.058187	368	0.8	0.430110	368	8.3	0.053680	368	61.6	0.018124	368	18.1
0.058350	369	0.8	0.431501	369	8.3	0.053704	369	61.6	0.018174	369	18.2
0.058511	370	0.8	0.432895	370	8.3	0.053729	370	61.7	0.018223	370	18.2
0.058674	371	0.8	0.434289	371	8.3	0.053752	371	61.7	0.018272	371	18.3
0.058838	372	0.8	0.435683	372	8.3	0.053774	372	61.6	0.018322	372	18.3
0.059001	373	0.8	0.437080	373	8.4	0.053798	373	61.7	0.018373	373	18.4
0.059162	374	0.8	0.438477	374	8.4	0.053823	374	61.8	0.018423	374	18.4
0.059325	375	0.8	0.439876	375	8.4	0.053846	375	61.8	0.018473	375	18.5
0.059489	376	0.8	0.441277	376	8.4	0.053869	376	61.8	0.018522	376	18.5
0.059651	377	0.8	0.442680	377	8.5	0.053893	377	61.8	0.018572	377	18.6
0.059814	378	0.8	0.444082	378	8.5	0.053917	378	61.9	0.018622	378	18.6
0.059977	379	0.8	0.445486	379	8.5	0.053940	379	61.8	0.018672	379	18.7
0.060140	380	0.8	0.446892	380	8.5	0.053964	380	61.8	0.018722	380	18.7
0.060303	381	0.8	0.448301	381	8.5	0.053987	381	61.9	0.018770	381	18.8
0.060466	382	0.8	0.449708	382	8.6	0.054011	382	61.9	0.018820	382	18.8
0.060628	383	0.8	0.451119	383	8.6	0.054036	383	61.9	0.018870	383	18.9
0.060792	384	0.9	0.452530	384	8.6	0.054058	384	61.9	0.018920	384	18.9
0.060955	385	0.9	0.453943	385	8.6	0.054082	385	61.9	0.018970	385	19.0
0.061118	386	0.9	0.455356	386	8.7	0.054106	386	62.0	0.019019	386	19.0
0.061281	387	0.9	0.456771	387	8.7	0.054130	387	62.0	0.019069	387	19.1
0.061444	388	0.9	0.458190	388	8.7	0.054154	388	62.0	0.019119	388	19.1
0.061608	389	0.9	0.459609	389	8.7	0.054177	389	62.0	0.019169	389	19.2
0.061770	390	0.9	0.461028	390	8.8	0.054202	390	62.0	0.019219	390	19.2
0.061934	391	0.9	0.462449	391	8.8	0.054225	391	62.0	0.019269	391	19.3
0.062097	392	0.9	0.463870	392	8.8	0.054248	392	62.0	0.019318	392	19.3
0.062260	393	0.9	0.465294	393	8.8	0.054273	393	62.1	0.019367	393	19.4
0.062423	394	0.9	0.466718	394	8.8	0.054297	394	62.1	0.019417	394	19.4
0.062587	395	0.9	0.468147	395	8.9	0.054320	395	62.1	0.019467	395	19.5
0.062750	396	0.9	0.469575	396	8.9	0.054344	396	62.1	0.019517	396	19.5
0.062913	397	0.9	0.471004	397	8.9	0.054368	397	62.2	0.019566	397	19.6
0.063077	398	0.9	0.472435	398	8.9	0.054392	398	62.2	0.019616	398	19.6
0.063241	399	0.9	0.473866	399	9.0	0.054415	399	62.2	0.019666	399	19.7
0.063403	400	0.9	0.475300	400	9.0	0.054440	400	62.2	0.019716	400	19.7

401-450

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes											
N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0.063568	401	0.9	0.476737	401	9.0	0.054463	401	62.2	0.019766	401	19.8
0.063731	402	0.9	0.478171	402	9.0	0.054487	402	62.2	0.019815	402	19.8
0.063894	403	0.9	0.479608	403	9.0	0.054512	403	62.3	0.019865	403	19.9
0.064057	404	0.9	0.481049	404	9.1	0.054536	404	62.3	0.019915	404	19.9
0.064222	405	0.9	0.482489	405	9.1	0.054559	405	62.3	0.019965	405	20.0
0.064384	406	0.9	0.483930	406	9.1	0.054584	406	62.3	0.020015	406	20.0
0.064548	407	0.9	0.485374	407	9.1	0.054608	407	62.4	0.020065	407	20.1
0.064713	408	0.9	0.486820	408	9.2	0.054631	408	62.3	0.020114	408	20.1
0.064875	409	0.9	0.488265	409	9.2	0.054656	409	62.4	0.020164	409	20.2
0.065039	410	0.9	0.489712	410	9.2	0.054680	410	62.4	0.020214	410	20.2
0.065204	411	0.9	0.491160	411	9.2	0.054703	411	62.3	0.020264	411	20.3
0.065367	412	0.9	0.492610	412	9.2	0.054728	412	62.4	0.020314	412	20.3
0.065530	413	0.9	0.494063	413	9.3	0.054753	413	62.5	0.020363	413	20.4
0.065694	414	0.9	0.495516	414	9.3	0.054776	414	62.4	0.020413	414	20.4
0.065859	415	0.9	0.496971	415	9.3	0.054800	415	62.5	0.020463	415	20.5
0.066021	416	0.9	0.498427	416	9.3	0.054825	416	62.5	0.020513	416	20.5
0.066185	417	0.9	0.499885	417	9.4	0.054849	417	62.5	0.020563	417	20.6
0.066350	418	0.9	0.501344	418	9.4	0.054873	418	62.5	0.020612	418	20.6
0.066513	419	0.9	0.502804	419	9.4	0.054898	419	62.6	0.020662	419	20.7
0.066677	420	0.9	0.504267	420	9.4	0.054922	420	62.6	0.020712	420	20.7
0.066842	421	0.9	0.505729	421	9.4	0.054945	421	62.5	0.020762	421	20.8
0.067005	422	0.9	0.507192	422	9.5	0.054970	422	62.6	0.020812	422	20.8
0.067169	423	0.9	0.508658	423	9.5	0.054994	423	62.6	0.020862	423	20.9
0.067334	424	0.9	0.510126	424	9.5	0.055018	424	62.6	0.020911	424	20.9
0.067498	425	0.9	0.511595	425	9.5	0.055042	425	62.6	0.020961	425	21.0
0.067661	426	0.9	0.513065	426	9.6	0.055068	426	62.7	0.021011	426	21.0
0.067826	427	0.9	0.514537	427	9.6	0.055091	427	62.7	0.021061	427	21.0
0.067990	428	0.9	0.516009	428	9.6	0.055116	428	62.7	0.021111	428	21.1
0.068153	429	1.0	0.517485	429	9.6	0.055141	429	62.7	0.021160	429	21.1
0.068318	430	1.0	0.518960	430	9.6	0.055165	430	62.7	0.021210	430	21.2
0.068482	431	1.0	0.520437	431	9.7	0.055189	431	62.7	0.021260	431	21.2
0.068646	432	1.0	0.521917	432	9.7	0.055214	432	62.8	0.021310	432	21.3
0.068811	433	1.0	0.523398	433	9.7	0.055238	433	62.8	0.021360	433	21.3
0.068975	434	1.0	0.524878	434	9.7	0.055262	434	62.8	0.021410	434	21.4
0.069138	435	1.0	0.526361	435	9.8	0.055288	435	62.9	0.021459	435	21.4
0.069304	436	1.0	0.527845	436	9.8	0.055311	436	62.8	0.021509	436	21.5
0.069468	437	1.0	0.529333	437	9.8	0.055336	437	62.8	0.021559	437	21.5
0.069632	438	1.0	0.530821	438	9.8	0.055361	438	62.9	0.021609	438	21.6
0.069797	439	1.0	0.532309	439	9.9	0.055385	439	62.9	0.021659	439	21.6
0.069961	440	1.0	0.533800	440	9.9	0.055410	440	62.9	0.021708	440	21.7
0.070125	441	1.0	0.535291	441	9.9	0.055434	441	62.9	0.021758	441	21.7
0.070290	442	1.0	0.536784	442	9.9	0.055459	442	62.9	0.021808	442	21.8
0.070454	443	1.0	0.538278	443	9.9	0.055483	443	62.9	0.021858	443	21.8
0.070619	444	1.0	0.539774	444	10.0	0.055508	444	63.0	0.021908	444	21.9
0.070783	445	1.0	0.541275	445	10.0	0.055533	445	63.0	0.021957	445	21.9
0.070948	446	1.0	0.542773	446	10 0	0.055557	446	63.0	0.022007	446	22.0
0.071113	447	1.0	0.544273	447	10.0	0.055581	447	63.0	0.022058	447	22.0
0.071277	448	1.0	0.545774	448	10.1	0.055607	448	63.1	0.022108	448	22.1
0.071441	449	1.0	0.547277	449	10.1	0.055632	449	63.1	0.022158	449	22.1
0.071607	450	1.0	0.548782	450	10.1	0.055655	450	63.0	0.022208	450	22.2

451-500

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238} Ratio	Age: Number of years	Error ±	N_{207}/N_{235} Ratio	Age: Number of years	Error ±	N_{207}/N_{206} Ratio	Age: Number of years	Error ±	N_{208}/N_{232} Ratio	Age: Number of years	Error ±
0.071771	451	1.0	0.550289	451	10.1	0.055681	451	63.1	0.022257	451	22.2
0.071935	452	1.0	0.551797	452	10.1	0.055706	452	63.1	0.022307	452	22.3
0.072101	453	1.0	0.553307	453	10.2	0.055730	453	63.1	0.022357	453	22.3
0.072266	454	1.0	0.554818	454	10.2	0.055754	454	63.1	0.022407	454	22.4
0.072430	455	1.0	0.556330	455	10.2	0.055780	455	63.2	0.022457	455	22.4
0.072595	456	1.0	0.557843	456	10.2	0.055804	456	63.2	0.022506	456	22.5
0.072761	457	1.0	0.559360	457	10.3	0.055828	457	63.1	0.022556	457	22.5
0.072926	458	1.0	0.560875	458	10.3	0.055853	458	63.2	0.022606	458	22.6
0.073091	459	1.0	0.562392	459	10.3	0.055878	459	63.2	0.022656	459	22.6
0.073256	460	1.0	0.563913	460	10.3	0.055902	460	63.2	0.022707	460	22.7
0.073420	461	1.0	0.565433	461	10.3	0.055928	461	63.2	0.022756	461	22.7
0.073585	462	1.0	0.566957	462	10.4	0.055953	462	63.3	0.022806	462	22.8
0.073751	463	1.0	0.568481	463	10.4	0.055977	463	63.2	0.022856	463	22.8
0.073915	464	1.0	0.570007	464	10.4	0.056003	464	63.3	0.022906	464	22.9
0.074080	465	1.0	0.571533	465	10.4	0.056028	465	63.3	0.022956	465	22.9
0.074246	466	1.0	0.573060	466	10.5	0.056052	466	63.3	0.023006	466	23.0
0.074411	467	1.0	0.574592	467	10.5	0.056077	467	63.3	0.023055	467	23.0
0.074576	468	1.0	0.576123	468	10.5	0.056102	468	63.3	0.023105	468	23.1
0.074741	469	1.0	0.577656	469	10.5	0.056127	469	63.4	0.023156	469	23.1
0.074906	470	1.0	0.579191	470	10.5	0.056152	470	63.4	0.023207	470	23.2
0.075072	471	1.0	0.580727	471	10.6	0.056177	471	63.4	0.023257	471	23.2
0.075237	472	1.0	0.582264	472	10.6	0.056202	472	63.4	0.023306	472	23.3
0.075403	473	1.0	0.583803	473	10.6	0.056226	473	63.4	0.023356	473	23.3
0.075567	474	1.1	0.585343	474	10.6	0.056252	474	63.4	0.023406	474	23.4
0.075732	475	1.1	0.586885	475	10.7	0.056278	475	63.5	0.023456	475	23.4
0.075898	476	1.1	0.588429	476	10.7	0.056302	476	63.5	0.023506	476	23.5
0.076063	477	1.1	0.589974	477	10.7	0.056328	477	63.5	0.023556	477	23.5
0.076229	478	1.1	0.591520	478	10.7	0.056352	478	63.5	0.023606	478	23.6
0.076394	479	1.1	0.593069	479	10.7	0.056378	479	63.5	0.023656	479	23.6
0.076560	480	1.1	0.594617	480	10.8	0.056402	480	63.5	0.023706	480	23.7
0.076725	481	1.1	0.596168	481	10.8	0.056428	481	63.6	0.023756	481	23.7
0.076890	482	1.1	0.597722	482	10.8	0.056454	482	63.6	0.023806	482	23.8
0.077057	483	1.1	0.599276	483	10.8	0.056478	483	63.6	0.023855	483	23.8
0.077221	484	1.1	0.600832	484	10.9	0.056504	484	63.6	0.023906	484	23.9
0.077388	485	1.1	0.602389	485	10.9	0.056528	485	63.6	0.023956	485	23.9
0.077553	486	1.1	0.603947	486	10.9	0.056554	486	63.7	0.024006	486	24.0
0.077718	487	1.1	0.605507	487	10.9	0.056580	487	63.7	0.024056	487	24.0
0.077884	488	1.1	0.607069	488	11.0	0.056605	488	63.7	0.024105	488	24.1
0.078050	489	1.1	0.608632	489	11.0	0.056630	489	63.7	0.024155	489	24.1
0.078215	490	1.1	0.610197	490	11.0	0.056656	490	63.8	0.024206	490	24.2
0.078381	491	1.1	0.611761	491	11.0	0.056680	491	63.7	0.024256	491	24.2
0.078547	492	1.1	0.613330	492	11.0	0.056706	492	63.8	0.024306	492	24.3
0.078713	493	1.1	0.614898	493	11.1	0.056731	493	63.8	0.024355	493	24.3
0.078878	494	1.1	0.616469	494	11.1	0.056757	494	63.8	0.024405	494	24.4
0.079044	495	1.1	0.618043	495	11.1	0.056782	495	63.8	0.024455	495	24.4
0.079210	496	1.1	0.619617	496	11.1	0.056807	496	63.8	0.024506	496	24.5
0.079376	497	1.1	0.621191	497	11.2	0.056833	497	63.9	0.024556	497	24.5
0.079542	498	1.1	0.622767	498	11.2	0.056858	498	63.9	0.024606	498	24.5
0.079708	499	1.1	0.624346	499	11.2	0.056883	499	63.9	0.024655	499	24.6
0.079873	500	1.1	0.625927	500	11.2	0.056910	500	63.9	0.024705	500	24.6

502-600

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0.080206	502	1.1	0.629090	502	11.3	0.056960	502	63.9	0.024806	502	24.7
0.080538	504	1.1	0.632262	504	11.3	0.057011	504	64.0	0.024905	504	24.8
0.080870	506	1.1	0.635436	506	11.4	0.057062	506	64.0	0.025006	506	24.9
0.081202	508	1.1	0.638621	508	11.4	0.057113	508	64.0	0.025106	508	25.0
0.081534	510	1.1	0.641809	510	11.4	0.057165	510	64.1	0.025205	510	25.1
0.081868	512	1.1	0.645005	512	11.5	0.057215	512	64.1	0.025306	512	25.2
0.082200	514	1.1	0.648207	514	11.5	0.057267	514	64.2	0.025406	514	25.3
0.082532	516	1.1	0.651415	516	11.6	0.057319	516	64.2	0.025506	516	25.4
0.082866	518	1.1	0.654627	518	11.6	0.057369	518	64.2	0.025606	518	25.5
0.083198	520	1.2	0.657850	520	11.7	0.057422	520	64.2	0.025706	520	25.6
0.083532	522	1.2	0.661075	522	11.7	0.057473	522	64.3	0.025806	522	25.7
0.083864	524	1.2	0.664306	524	11.8	0.057525	524	64.3	0.025907	524	25.8
0.084197	526	1.2	0.667547	526	11.8	0.057577	526	64.4	0.026006	526	25.9
0.084531	528	1.2	0.670792	528	11.8	0.057628	528	64.3	0.026107	528	26.0
0.084864	530	1.2	0.674043	530	11.9	0.057680	530	64.4	0.026207	530	26.1
0.085198	532	1.2	0.677303	532	11.9	0.057732	532	64.4	0.026307	532	26.2
0.085531	534	1.2	0.680568	534	12.0	0.057784	534	64.5	0.026407	534	26.3
0.085865	536	1.2	0.683837	536	12.0	0.057836	536	64.5	0.026507	536	26.4
0.086199	538	1.2	0.687116	538	12.1	0.057888	538	64.6	0.026608	538	26.5
0.086532	540	1.2	0.690399	540	12.1	0.057941	540	64.6	0.026709	540	26.6
0.086866	542	1.2	0.693688	542	12.2	0.057993	542	64.7	0.026808	542	26.7
0.087202	544	1.2	0.696984	544	12.2	0.058044	544	64.6	0.026909	544	26.8
0.087535	546	1.2	0.700288	546	12.3	0.058097	546	64.7	0.027010	546	26.9
0.087870	548	1.2	0.703595	548	12.3	0.058149	548	64.7	0.027109	548	27.0
0.088204	550	1.2	0.706911	550	12.3	0.058202	550	64.8	0.027210	550	27.1
0.088538	552	1.2	0.710233	552	12.4	0.058255	552	64.8	0.027309	552	27.2
0.088873	554	1.2	0.713561	554	12.4	0.058307	554	64.8	0.027410	554	27.3
0.089208	556	1.2	0.716895	556	12.5	0.058360	556	64.9	0.027511	556	27.4
0.089544	558	1.2	0.720240	558	12.5	0.058412	558	64.9	0.027610	558	27.5
0.089878	560	1.2	0.723585	560	12.6	0.058465	560	64.9	0.027711	560	27.6
0.090213	562	1.2	0.726939	562	12.6	0.058518	562	65.0	0.027812	562	27.7
0.090548	564	1.3	0.730301	564	12.7	0.058571	564	65.0	0.027911	564	27.8
0.090883	566	1.3	0.733669	566	12.7	0.058625	566	65.1	0.028012	566	27.9
0.091218	568	1.3	0.737042	568	12.7	0.058678	568	65.1	0.028112	568	28.0
0.091555	570	1.3	0.740425	570	12.8	0.058730	570	65.1	0.028213	570	28.1
0.091890	572	1.3	0.743810	572	12.8	0.058784	572	65.1	0.028313	572	28.2
0.092226	574	1.3	0.747203	574	12.9	0.058837	574	65.2	0.028413	574	28.3
0.092561	576	1.3	0.750605	576	12.9	0.058891	576	65.2	0.028514	576	28.4
0.092896	578	1.3	0.754012	578	13.0	0.058945	578	65.3	0.028615	578	28.5
0.093234	580	1.3	0.757425	580	13.0	0.058997	580	65.3	0.028714	580	28.6
0.093569	582	1.3	0.760847	582	13.1	0.059051	582	65.3	0.028815	582	28.7
0.093906	584	1.3	0.764272	584	13.1	0.059104	584	65.3	0.028916	584	28.8
0.094241	586	1.3	0.767706	586	13.2	0.059159	586	65.4	0.029016	586	28.9
0.094577	588	1.3	0.771147	588	13.2	0.059213	588	65.5	0.029116	588	29.0
0.094915	590	1.3	0.774595	590	13.2	0.059266	590	65.5	0.029216	590	29.1
0.095251	592	1.3	0.778049	592	13.3	0.059320	592	65.5	0.029318	592	29.2
0.095587	594	1.3	0.781509	594	13.3	0.059374	594	65.5	0.029419	594	29.3
0.095925	596	1.3	0.784976	596	13.4	0.059427	596	65.6	0.029519	596	29.4
0.096261	598	1.3	0.788450	598	13.4	0.059482	598	65.6	0.029620	598	29.5
0.096598	600	1.3	0.791929	600	13.5	0.059536	600	65.6	0.029720	600	29.6

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0,096936	602	1,3	0,795417	602	13,5	0,059590	602	65,7	0,029820	602	29,7
0,097273	604	1,3	0,798911	604	13,6	0,059644	604	65,7	0,029921	604	29,8
0,097611	606	1,3	0,802413	606	13,6	0,059698	606	65,7	0,030021	606	29,9
0,097947	608	1,3	0,805921	608	13,6	0,059754	608	65,8	0,030122	608	30,0
0,098285	610	1,4	0,809436	610	13,7	0,059808	610	65,8	0,030223	610	30,1
0,098623	612	1,4	0,812957	612	13,7	0,059862	612	65,8	0,030323	612	30,2
0,098961	614	1,4	0,816486	614	13,8	0,059917	614	65,9	0,030424	614	30,3
0,099299	616	1,4	0,820020	616	13,8	0,059971	616	65,9	0,030525	616	30,4
0,099636	618	1,4	0,823562	618	13,9	0,060026	618	66,0	0,030624	618	30,5
0,099974	620	1,4	0,827113	620	13,9	0,060081	620	66,0	0,030725	620	30,6
0,100313	622	1,4	0,830667	622	14,0	0,060136	622	66,0	0,030825	622	30,7
0,100650	624	1,4	0,834231	624	14,0	0,060191	624	66,1	0,030926	624	30,8
0,100990	626	1,4	0,837801	626	14,0	0,060246	626	66,1	0,031027	626	30,9
0,101327	628	1,4	0,841377	628	14,1	0,060301	628	66,1	0,031127	628	31,0
0,101666	630	1,4	0,844961	630	14,1	0,060356	630	66,1	0,031228	630	31,1
0,102005	632	1,4	0,848552	632	14,2	0,060411	632	66,2	0,031329	632	31,2
0,102344	634	1,4	0,852150	634	14,2	0,060467	634	66,2	0,031429	634	31,3
0,102682	636	1,4	0,855754	636	14,3	0,060523	636	66,3	0,031530	636	31,4
0,103022	638	1,4	0,859365	638	14,3	0,060577	638	66,3	0,031631	638	31,5
0,103360	640	1,4	0,862985	640	14,4	0,060634	640	66,4	0,031732	640	31,5
0,103700	642	1,4	0,866611	642	14,4	0,060689	642	66,4	0,031834	642	31,6
0,104039	644	1,4	0,870242	644	14,5	0,060744	644	66,4	0,031934	644	31,7
0,104379	646	1,4	0,873884	646	14,5	0,060800	646	66,4	0,032035	646	31,8
0,104719	648	1,4	0,877529	648	14,5	0,060855	648	66,4	0,032136	648	31,9
0,105058	650	1,4	0,881183	650	14,6	0,060912	650	66,5	0,032236	650	32,0
0,105398	652	1,4	0,884846	652	14,6	0,060967	652	66,5	0,032337	652	32,1
0,105738	654	1,5	0,888513	654	14,7	0,061023	654	66,6	0,032437	654	32,2
0,106077	656	1,5	0,892189	656	14,7	0,061080	656	66,6	0,032538	656	32,3
0,106418	658	1,5	0,895872	658	14,8	0,061135	658	66,6	0,032639	658	32,4
0,106757	660	1,5	0,899561	660	14,8	0,061192	660	66,7	0,032739	660	32,5
0,107097	662	1,5	0,903257	662	14,9	0,061249	662	66,7	0,032841	662	32,6
0,107439	664	1,5	0,906963	664	14,9	0,061304	664	66,7	0,032942	664	32,7
0,107778	666	1,5	0,910673	666	14,9	0,061361	666	66,8	0,033042	666	32,8
0,108120	668	1,5	0,914392	668	15,0	0,061417	668	66,8	0,033143	668	32,9
0,108459	670	1,5	0,918117	670	15,0	0,061474	670	66,9	0,033243	670	33,0
0,108800	672	1,5	0,921850	672	15,1	0,061531	672	66,9	0,033344	672	33,1
0,109142	674	1,5	0,925591	674	15,1	0,061587	674	66,9	0,033446	674	33,2
0,109482	676	1,5	0,929339	676	15,2	0,061644	676	67,0	0,033546	676	33,3
0,109824	678	1,5	0,933094	678	15,2	0,061701	678	67,0	0,033648	678	33,4
0,110165	680	1,5	0,936855	680	15,3	0,061758	680	67,0	0,033749	680	33,5
0,110506	682	1,5	0,940627	682	15,3	0,061815	682	67,1	0,033850	682	33,6
0,110848	684	1,5	0,944403	684	15,3	0,061872	684	67,1	0,033951	684	33,7
0,111189	686	1,5	0,948186	686	15,4	0,061929	686	67,1	0,034051	686	33,8
0,111531	688	1,5	0,951979	688	15,4	0,061986	688	67,2	0,034152	688	33,9
0,111872	690	1,5	0,955778	690	15,5	0,062044	690	67,2	0,034254	690	34,0
0,112214	692	1,5	0,959585	692	15,5	0,062101	692	67,3	0,034354	692	34,1
0,112557	694	1,5	0,963397	694	15,6	0,062158	694	67,3	0,034455	694	34,2
0,112898	696	1,5	0,967220	696	15,6	0,062216	696	67,3	0,034557	696	34,3
0,113240	698	1,5	0,971047	698	15,7	0,062273	698	67,3	0,034657	698	34,4
0,113583	700	1,6	0,974883	700	15,7	0,062331	700	67,4	0,034758	700	34,5

702-800

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0.113925	702	1.6	0.978729	702	15.8	0.062389	702	67.4	0.034859	702	34.6
0.114268	704	1.6	0.982578	704	15.8	0.062446	704	67.4	0.034960	704	34.7
0.114609	706	1.6	0.986437	706	15.8	0.062505	706	67.5	0.035061	706	34.8
0.114952	708	1.6	0.990304	708	15.9	0.062563	708	67.6	0.035162	708	34.9
0.115295	710	1.6	0.994176	710	15.9	0.062620	710	67.6	0.035263	710	35.0
0.115638	712	1.6	0.998057	712	16.0	0.062678	712	67.6	0.035364	712	35.1
0.115981	714	1.6	1.001947	714	16.0	0.062737	714	67.6	0.035466	714	35.2
0.116325	716	1.6	1.005842	716	16.1	0.062794	716	67.6	0.035567	716	35.3
0.116667	718	1.6	1.009744	718	16.1	0.062853	718	67.7	0.035669	718	35.4
0.117011	720	1.6	1.013659	720	16.2	0.062911	720	67.7	0.035769	720	35.5
0.117354	722	1.6	1.017577	722	16.2	0.062970	722	67.8	0.035871	722	35.6
0.117697	724	1.6	1.021502	724	16.2	0.063028	724	67.8	0.035971	724	35.7
0.118042	726	1.6	1.025439	726	16.3	0.063086	726	67.8	0.036072	726	35.8
0.118385	728	1.6	1.029379	728	16.3	0.063145	728	67.9	0.036174	728	35.9
0.118729	730	1.6	1.033328	730	16.4	0.063204	730	67.9	0.036274	730	36.0
0.119073	732	1.6	1.037288	732	16.4	0.063263	732	68.0	0.036376	732	36.1
0.119416	734	1.6	1.041251	734	16.5	0.063322	734	68.0	0.036477	734	36.2
0.119761	736	1.6	1.045224	736	16.5	0.063381	736	68.0	0.036578	736	36.3
0.120105	738	1.6	1.049203	738	16.6	0.063440	738	68.1	0.036679	738	36.4
0.120449	740	1.6	1.053191	740	16.6	0.063499	740	68.1	0.036780	740	36.5
0.120795	742	1.6	1.057189	742	16.7	0.063557	742	68.1	0.036881	742	36.6
0.121139	744	1.6	1.061191	744	16.7	0.063617	744	68.1	0.036983	744	36.7
0.121484	746	1.7	1.065203	746	16.7	0.063676	746	68.2	0.037084	746	36.8
0.121829	748	1.7	1.069223	748	16.8	0.063735	748	68.2	0.037186	748	36.9
0.122173	750	1.7	1.073249	750	16.8	0.063795	750	68.3	0.037288	750	37.0
0.122518	752	1.7	1.077288	752	16.9	0.063855	752	68.3	0.037388	752	37.1
0.122863	754	1.7	1.081328	754	16.9	0.063914	754	68.3	0.037490	754	37.2
0.123208	756	1.7	1.085377	756	17.0	0.063974	756	68.4	0.037590	756	37.3
0.123553	758	1.7	1.089439	758	17.0	0.064034	758	68.4	0.037692	758	37.4
0.123898	760	1.7	1.093504	760	17.1	0.064094	760	68.4	0.037794	760	37.5
0.124244	762	1.7	1.097578	762	17.1	0.064154	762	68.5	0.037894	762	37.6
0.124589	764	1.7	1.101661	764	17.1	0.064214	764	68.5	0.037996	764	37.7
0.124934	766	1.7	1.105752	766	17.2	0.064275	766	68.6	0.038098	766	37.8
0.125283	768	1.7	1.109849	768	17.2	0.064333	768	68.6	0.038198	768	37.9
0.125628	770	1.7	1.113957	770	17.3	0.064394	770	68.6	0.038300	770	38.0
0.125974	772	1.7	1.118071	772	17.3	0.064454	772	68.7	0.038401	772	38.1
0.126320	774	1.7	1.122190	774	17.4	0.064514	774	68.7	0.038502	774	38.2
0.126665	776	1.7	1.126322	776	17.4	0.064576	776	68.8	0.038605	776	38.3
0.127012	778	1.7	1.130459	778	17.5	0.064636	778	68.8	0.038706	778	38.4
0.127359	780	1.7	1.134607	780	17.5	0.064696	780	68.8	0.038807	780	38.5
0.127705	782	1.7	1.138763	782	17.5	0.064757	782	68.9	0.038909	782	38.5
0.128052	784	1.7	1.142923	784	17.6	0.064818	784	68.9	0.039010	784	38.6
0.128398	786	1.7	1.147094	786	17.6	0.064879	786	68.9	0.039112	786	38.7
0.128746	788	1.7	1.151270	788	17.7	0.064939	788	68.9	0.039212	788	38.8
0.129093	790	1.8	1.155459	790	17.7	0.065000	790	69.0	0.039314	790	38.9
0.129440	792	1.8	1.159653	792	17.8	0.065061	792	69.0	0.039416	792	39.0
0.129787	794	1.8	1.163857	794	17.8	0.065123	794	69.1	0.039517	794	39.1
0.130135	796	1.8	1.168070	796	17.9	0.065183	796	69.1	0.039618	796	39.2
0.130483	798	1.8	1.172287	798	17.9	0.065244	798	69.1	0.039720	798	39.3
0.130829	800	1.8	1.176515	800	18.0	0.065306	800	69.2	0.039821	800	39.4

802-900

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0.131177	802	1.8	1.180752	802	18.0	0.065368	802	69.2	0.039923	802	39.5
0.131525	804	1.8	1.184996	804	18.0	0.065429	804	69.2	0.040025	804	39.6
0.131872	806	1.8	1.189248	806	18.1	0.065491	806	69.3	0.040126	806	39.7
0.132220	808	1.8	1.193510	808	18.1	0.065553	808	69.3	0.040228	808	39.8
0.132568	810	1.8	1.197777	810	18.2	0.065615	810	69.4	0.040329	810	39.9
0.132917	812	1.8	1.202055	812	18.2	0.065676	812	69.4	0.040431	812	40.0
0.133266	814	1.8	1.206341	814	18.3	0.065738	814	69.4	0.040533	814	40.1
0.133614	816	1.8	1.210636	816	18.3	0.065800	816	69.5	0.040634	816	40.2
0.133962	818	1.8	1.214937	818	18.4	0.065862	818	69.5	0.040736	818	40.3
0.134311	820	1.8	1.219249	820	18.4	0.065924	820	69.5	0.040837	820	40.4
0.134660	822	1.8	1.223569	822	18.4	0.065986	822	69.5	0.040938	822	40.5
0.135009	824	1.8	1.227894	824	18.5	0.066048	824	69.6	0.041040	824	40.6
0.135357	826	1.8	1.232233	826	18.5	0.066111	826	69.6	0.041141	826	40.7
0.135706	828	1.8	1.236576	828	18.6	0.066174	828	69.7	0.041243	828	40.8
0.136056	830	1.8	1.240929	830	18.6	0.066236	830	69.7	0.041346	830	40.9
0.136405	832	1.8	1.245290	832	18.7	0.066298	832	69.7	0.041447	832	41.0
0.136753	834	1.8	1.249659	834	18.7	0.066362	834	69.8	0.041549	834	41.1
0.137104	836	1.9	1.254037	836	18.8	0.066424	836	69.8	0.041650	836	41.2
0.137453	838	1.9	1.258423	838	18.8	0.066487	838	69.9	0.041752	838	41.3
0.137803	840	1.9	1.262819	840	18.8	0.066550	840	69.9	0.041854	840	41.4
0.138153	842	1.9	1.267223	842	18.9	0.066612	842	69.9	0.041955	842	41.5
0.138501	844	1.9	1.271635	844	18.9	0.066676	844	70.0	0.042057	844	41.6
0.138852	846	1.9	1.276058	846	19.0	0.066739	846	70.0	0.042159	846	41.7
0.139201	848	1.9	1.280486	848	19.0	0.066803	848	70.1	0.042260	848	41.8
0.139554	850	1.9	1.284925	850	19.1	0.066865	850	70.1	0.042362	850	41.9
0.139904	852	1.9	1.289373	852	19.1	0.066929	852	70.1	0.042463	852	42.0
0.140253	854	1.9	1.293826	854	19.2	0.066993	854	70.1	0.042566	854	42.1
0.140605	856	1.9	1.298291	856	19.2	0.067055	856	70.1	0.042668	856	42.2
0.140955	858	1.9	1.302766	858	19.3	0.067120	858	70.2	0.042770	858	42.3
0.141304	860	1.9	1.307246	860	19.3	0.067184	860	70.3	0.042872	860	42.4
0.141656	862	1.9	1.311735	862	19.3	0.067247	862	70.3	0.042974	862	42.5
0.142007	864	1.9	1.316237	864	19.4	0.067311	864	70.3	0.043075	864	42.6
0.142359	866	1.9	1.320745	866	19.4	0.067375	866	70.4	0.043177	866	42.7
0.142710	868	1.9	1.325260	868	19.5	0.067439	868	70.4	0.043279	868	42.8
0.143061	870	1.9	1.329788	870	19.5	0.067503	870	70.4	0.043380	870	42.9
0.143413	872	1.9	1.334321	872	19.6	0.067567	872	70.5	0.043482	872	43.0
0.143763	874	1.9	1.338864	874	19.6	0.067632	874	70.5	0.043584	874	43.1
0.144116	876	1.9	1.343416	876	19.7	0.067696	876	70.5	0.043687	876	43.2
0.144467	878	1.9	1.347976	878	19.7	0.067760	878	70.6	0.043789	878	43.3
0.144819	880	2.0	1.352546	880	19.7	0.067825	880	70.6	0.043890	880	43.4
0.145172	882	2.0	1.357126	882	19.8	0.067889	882	70.6	0.043992	882	43.5
0.145523	884	2.0	1.361713	884	19.8	0.067954	884	70.7	0.044095	884	43.6
0.145875	886	2.0	1.366308	886	19.9	0.068019	886	70.7	0.044196	886	43.7
0.146228	888	2.0	1.370912	888	19.9	0.068084	888	70.8	0.044298	888	43.8
0.146580	890	2.0	1.375528	890	20.0	0.068149	890	70.8	0.044399	890	43.9
0.146933	892	2.0	1.380152	892	20.0	0.068214	892	70.8	0.044501	892	44.0
0.147285	894	2.0	1.384783	894	20.1	0.068279	894	70.9	0.044604	894	44.1
0.147637	896	2.0	1.389426	896	20.1	0.068344	896	70.9	0.044705	896	44.2
0.147992	898	2.0	1.394075	898	20.2	0.068409	898	70.9	0.044808	898	44.3
0.148344	900	2.0	1.398732	900	20.2	0.068474	900	71.0	0.044911	900	44.4

902-1000

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0.148695	902	2.0	1.403404	902	20.2	0.068541	902	71.0	0.045012	902	44.5
0.149049	904	2.0	1.408079	904	20.3	0.068606	904	71.1	0.045114	904	44.6
0.149402	906	2.0	1.412767	906	20.3	0.068672	906	71.1	0.045215	906	44.7
0.149756	908	2.0	1.417465	908	20.4	0.068737	908	71.1	0.045318	908	44.8
0.150109	910	2.0	1.422169	910	20.4	0.068803	910	71.2	0.045420	910	44.9
0.150463	912	2.0	1.426881	912	20.5	0.068869	912	71.2	0.045521	912	45.0
0.150817	914	2.0	1.431607	914	20.5	0.068934	914	71.2	0.045624	914	45.1
0.151170	916	2.0	1.436339	916	20.6	0.069001	916	71.3	0.045726	916	45.2
0.151526	918	2.0	1.441078	918	20.6	0.069066	918	71.3	0.045827	918	45.3
0.151879	920	2.0	1.445831	920	20.6	0.069133	920	71.3	0.045931	920	45.4
0.152232	922	2.0	1.450591	922	20.7	0.069199	922	71.4	0.046032	922	45.5
0.152587	924	2.0	1.455358	924	20.7	0.069265	924	71.4	0.046135	924	45.5
0.152942	926	2.1	1.460142	926	20.8	0.069332	926	71.4	0.046237	926	45.6
0.153295	928	2.1	1.464927	928	20.8	0.069399	928	71.5	0.046338	928	45.7
0.153650	930	2.1	1.469722	930	20.9	0.069465	930	71.5	0.046441	930	45.8
0.154004	932	2.1	1.474533	932	20.9	0.069532	932	71.6	0.046543	932	45.9
0.154360	934	2.1	1.479348	934	21.0	0.069598	934	71.6	0.046645	934	46.0
0.154715	936	2.1	1.484172	936	21.0	0.069665	936	71.6	0.046747	936	46.1
0.155069	938	2.1	1.489006	938	21.0	0.069732	938	71.6	0.046849	938	46.2
0.155425	940	2.1	1.493850	940	21.1	0.069799	940	71.7	0.046952	940	46.3
0.155780	942	2.1	1.498706	942	21.1	0.069866	942	71.7	0.047055	942	46.4
0.156135	944	2.1	1.503566	944	21.2	0.069933	944	71.7	0.047156	944	46.5
0.156491	946	2.1	1.508441	946	21.2	0.070001	946	71.8	0.047259	946	46.6
0.156846	948	2.1	1.513320	948	21.3	0.070068	948	71.8	0.047361	948	46.7
0.157202	950	2.1	1.518213	950	21.3	0.070135	950	71.9	0.047463	950	46.8
0.157557	952	2.1	1.523116	952	21.4	0.070203	952	71.9	0.047565	952	46.9
0.157913	954	2.1	1.528023	954	21.4	0.070271	954	72.0	0.047667	954	47.0
0.158270	956	2.1	1.532944	956	21.5	0.070338	956	72.0	0.047769	956	47.1
0.158625	958	2.1	1.537874	958	21.5	0.070406	958	72.0	0.047873	958	47.2
0.158982	960	2.1	1.542813	960	21.5	0.070474	960	72.1	0.047974	960	47.3
0.159337	962	2.1	1.547763	962	21.6	0.070542	962	72.1	0.048077	962	47.4
0.159695	964	2.1	1.552720	964	21.6	0.070610	964	72.1	0.048180	964	47.5
0.160052	966	2.1	1.557689	966	21.7	0.070678	966	72.2	0.048281	966	47.6
0.160407	968	2.1	1.562665	968	21.7	0.070747	968	72.2	0.048384	968	47.7
0.160765	970	2.2	1.567654	970	21.8	0.070814	970	72.2	0.048485	970	47.8
0.161121	972	2.2	1.572651	972	21.8	0.070883	972	72.3	0.048588	972	47.9
0.161478	974	2.2	1.577656	974	21.9	0.070952	974	72.3	0.048691	974	48.0
0.161836	976	2.2	1.582677	976	21.9	0.071020	976	72.3	0.048793	976	48.1
0.162192	978	2.2	1.587702	978	21.9	0.071089	978	72.4	0.048896	978	48.2
0.162549	980	2.2	1.592736	980	22.0	0.071158	980	72.4	0.048999	980	48.3
0.162907	982	2.2	1.597785	982	22.0	0.071227	982	72.5	0.049100	982	48.4
0.163264	984	2.2	1.602840	984	22.1	0.071296	984	72.5	0.049203	984	48.5
0.163622	986	2.2	1.607905	986	22.1	0.071364	986	72.5	0.049305	986	48.6
0.163980	988	2.2	1.612980	988	22.2	0.071433	988	72.6	0.049407	988	48.7
0.164338	990	2.2	1.618067	990	22.2	0.071503	990	72.6	0.049510	990	48.8
0.164696	992	2.2	1.623161	992	22.3	0.071572	992	72.6	0.049612	992	48.9
0.165054	994	2.2	1.628263	994	22.3	0.071641	994	72.7	0.049716	994	49.0
0.165412	996	2.2	1.633384	996	22.4	0.071711	996	72.7	0.049818	996	49.1
0.165771	998	2.2	1.638507	998	22.4	0.071780	998	72.7	0.049920	998	49.2
0.166129	1000	2.2	1.643640	1000	22.4	0.071850	1000	72.8	0.050023	1000	49.3

1002-1100

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes											
N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0.166487	1002	2.2	1.648789	1002	22.5	0.071920	1002	72.8	0.050126	1002	49.4
0.166846	1004	2.2	1.653941	1004	22.5	0.071989	1004	72.8	0.050227	1004	49.5
0.167203	1006	2.2	1.659107	1006	22.6	0.072060	1006	72.9	0.050330	1006	49.6
0.167563	1008	2.2	1.664284	1008	22.6	0.072129	1008	72.9	0.050432	1008	49.7
0.167922	1010	2.2	1.669469	1010	22.7	0.072199	1010	73.0	0.050535	1010	49.8
0.168282	1012	2.2	1.674662	1012	22.7	0.072269	1012	73.0	0.050639	1012	49.9
0.168640	1014	2.2	1.679872	1014	22.8	0.072340	1014	73.1	0.050740	1014	50.0
0.168999	1016	2.3	1.685084	1016	22.8	0.072410	1016	73.1	0.050843	1016	50.1
0.169359	1018	2.3	1.690309	1018	22.8	0.072480	1018	73.1	0.050946	1018	50.2
0.169719	1020	2.3	1.695548	1020	22.9	0.072551	1020	73.2	0.051048	1020	50.3
0.170078	1022	2.3	1.700791	1022	22.9	0.072622	1022	73.2	0.051151	1022	50.4
0.170438	1024	2.3	1.706049	1024	23.0	0.072692	1024	73.2	0.051253	1024	50.5
0.170797	1026	2.3	1.711315	1026	23.0	0.072763	1026	73.3	0.051356	1026	50.6
0.171158	1028	2.3	1.716592	1028	23.1	0.072834	1028	73.3	0.051460	1028	50.7
0.171518	1030	2.3	1.721878	1030	23.1	0.072905	1030	73.4	0.051561	1030	50.8
0.171877	1032	2.3	1.727178	1032	23.2	0.072976	1032	73.4	0.051664	1032	50.9
0.172238	1034	2.3	1.732483	1034	23.2	0.073047	1034	73.4	0.051767	1034	51.0
0.172598	1036	2.3	1.737801	1036	23.2	0.073119	1036	73.5	0.051869	1036	51.1
0.172959	1038	2.3	1.743129	1038	23.3	0.073190	1038	73.5	0.051972	1038	51.2
0.173320	1040	2.3	1.748471	1040	23.3	0.073261	1040	73.5	0.052074	1040	51.3
0.173680	1042	2.3	1.753819	1042	23.4	0.073333	1042	73.6	0.052177	1042	51.4
0.174041	1044	2.3	1.759177	1044	23.4	0.073404	1044	73.6	0.052281	1044	51.5
0.174402	1046	2.3	1.764548	1046	23.5	0.073476	1046	73.6	0.052383	1046	51.6
0.174764	1048	2.3	1.769929	1048	23.5	0.073547	1048	73.7	0.052486	1048	51.7
0.175125	1050	2.3	1.775320	1050	23.6	0.073619	1050	73.7	0.052589	1050	51.8
0.175485	1052	2.3	1.780721	1052	23.6	0.073692	1052	73.8	0.052691	1052	51.9
0.175847	1054	2.3	1.786132	1054	23.7	0.073764	1054	73.8	0.052794	1054	52.0
0.176208	1056	2.3	1.791553	1056	23.7	0.073836	1056	73.8	0.052896	1056	52.1
0.176570	1058	2.3	1.796988	1058	23.7	0.073908	1058	73.9	0.052999	1058	52.2
0.176932	1060	2.4	1.802431	1060	23.8	0.073980	1060	73.9	0.053103	1060	52.3
0.177293	1062	2.4	1.807885	1062	23.8	0.074053	1062	73.9	0.053205	1062	52.4
0.177655	1064	2.4	1.813351	1064	23.9	0.074125	1064	74.0	0.053308	1064	52.5
0.178016	1066	2.4	1.818825	1066	23.9	0.074198	1066	74.0	0.053411	1066	52.5
0.178380	1068	2.4	1.824310	1068	24.0	0.074270	1068	74.0	0.053513	1068	52.6
0.178742	1070	2.4	1.829808	1070	24.0	0.074343	1070	74.1	0.053616	1070	52.7
0.179104	1072	2.4	1.835315	1072	24.1	0.074416	1072	74.1	0.053719	1072	52.8
0.179466	1074	2.4	1.840831	1074	24.1	0.074489	1074	74.2	0.053823	1074	52.9
0.179830	1076	2.4	1.846363	1076	24.1	0.074562	1076	74.2	0.053926	1076	53.0
0.180192	1078	2.4	1.851902	1078	24.2	0.074636	1078	74.2	0.054028	1078	53.1
0.180556	1080	2.4	1.857451	1080	24.2	0.074708	1080	74.2	0.054131	1080	53.2
0.180918	1082	2.4	1.863012	1082	24.3	0.074782	1082	74.3	0.054234	1082	53.3
0.181281	1084	2.4	1.868587	1084	24.3	0.074856	1084	74.4	0.054336	1084	53.4
0.181645	1086	2.4	1.874168	1086	24.4	0.074929	1086	74.4	0.054440	1086	53.5
0.182008	1088	2.4	1.879760	1088	24.4	0.075002	1088	74.4	0.054542	1088	53.6
0.182372	1090	2.4	1.885368	1090	24.5	0.075076	1090	74.4	0.054646	1090	53.7
0.182735	1092	2.4	1.890980	1092	24.5	0.075150	1092	74.5	0.054749	1092	53.8
0.183099	1094	2.4	1.896606	1094	24.5	0.075224	1094	74.5	0.054851	1094	53.9
0.183463	1096	2.4	1.902248	1096	24.6	0.075298	1096	74.6	0.054955	1096	54.0
0.183825	1098	2.4	1.907894	1098	24.6	0.075372	1098	74.6	0.055058	1098	54.1
0.184190	1100	2.4	1.913552	1100	24.7	0.075446	1100	74.6	0.055160	1100	54.2

1102-1200

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0,184554	1102	2,4	1,919225	1102	24,7	0,075521	1102	74,7	0,055263	1102	54,3
0,184918	1104	2,4	1,924905	1104	24,8	0,075595	1104	74,7	0,055367	1104	54,4
0,185283	1106	2,5	1,930598	1106	24,8	0,075669	1106	74,7	0,055470	1106	54,5
0,185648	1108	2,5	1,936302	1108	24,9	0,075744	1108	74,8	0,055573	1108	54,6
0,186011	1110	2,5	1,942016	1110	24,9	0,075819	1110	74,8	0,055675	1110	54,7
0,186376	1112	2,5	1,947741	1112	25,0	0,075893	1112	74,8	0,055779	1112	54,8
0,186740	1114	2,5	1,953480	1114	25,0	0,075969	1114	74,9	0,055882	1114	54,9
0,187106	1116	2,5	1,959227	1116	25,0	0,076043	1116	74,9	0,055984	1116	55,0
0,187471	1118	2,5	1,964985	1118	25,1	0,076118	1118	74,9	0,056089	1118	55,1
0,187836	1120	2,5	1,970758	1120	25,1	0,076193	1120	75,0	0,056191	1120	55,2
0,188201	1122	2,5	1,976537	1122	25,2	0,076269	1122	75,0	0,056294	1122	55,3
0,188567	1124	2,5	1,982333	1124	25,2	0,076344	1124	75,1	0,056398	1124	55,4
0,188931	1126	2,5	1,988138	1126	25,3	0,076420	1126	75,1	0,056500	1126	55,5
0,189297	1128	2,5	1,993953	1128	25,3	0,076495	1128	75,2	0,056603	1128	55,6
0,189661	1130	2,5	1,999777	1130	25,4	0,076571	1130	75,2	0,056707	1130	55,7
0,190029	1132	2,5	2,005615	1132	25,4	0,076646	1132	75,2	0,056810	1132	55,8
0,190394	1134	2,5	2,011466	1134	25,4	0,076722	1134	75,2	0,056914	1134	55,9
0,190759	1136	2,5	2,017325	1136	25,5	0,076799	1136	75,3	0,057016	1136	56,0
0,191126	1138	2,5	2,023197	1138	25,5	0,076874	1138	75,3	0,057119	1138	56,1
0,191492	1140	2,5	2,029084	1140	25,6	0,076951	1140	75,4	0,057223	1140	56,2
0,191859	1142	2,5	2,034978	1142	25,6	0,077027	1142	75,4	0,057325	1142	56,3
0,192224	1144	2,5	2,040884	1144	25,7	0,077103	1144	75,4	0,057430	1144	56,4
0,192591	1146	2,5	2,046803	1146	25,7	0,077180	1146	75,5	0,057533	1146	56,5
0,192959	1148	2,5	2,052732	1148	25,8	0,077256	1148	75,5	0,057636	1148	56,6
0,193325	1150	2,5	2,058672	1150	25,8	0,077333	1150	75,6	0,057739	1150	56,7
0,193690	1152	2,6	2,064629	1152	25,9	0,077410	1152	75,6	0,057843	1152	56,8
0,194059	1154	2,6	2,070591	1154	25,9	0,077486	1154	75,6	0,057945	1154	56,9
0,194425	1156	2,6	2,076567	1156	25,9	0,077563	1156	75,7	0,058049	1156	57,0
0,194793	1158	2,6	2,082554	1158	26,0	0,077640	1158	75,7	0,058152	1158	57,1
0,195161	1160	2,6	2,088556	1160	26,0	0,077717	1160	75,7	0,058256	1160	57,2
0,195528	1162	2,6	2,094564	1162	26,1	0,077794	1162	75,8	0,058359	1162	57,3
0,195896	1164	2,6	2,100590	1164	26,1	0,077872	1164	75,8	0,058462	1164	57,4
0,196263	1166	2,6	2,106624	1166	26,2	0,077949	1166	75,9	0,058565	1166	57,5
0,196632	1168	2,6	2,112667	1168	26,2	0,078026	1168	75,9	0,058669	1168	57,6
0,196999	1170	2,6	2,118727	1170	26,3	0,078104	1170	75,9	0,058772	1170	57,7
0,197366	1172	2,6	2,124797	1172	26,3	0,078182	1172	76,0	0,058876	1172	57,8
0,197736	1174	2,6	2,130878	1174	26,3	0,078259	1174	76,0	0,058978	1174	57,9
0,198103	1176	2,6	2,136974	1176	26,4	0,078338	1176	76,1	0,059082	1176	58,0
0,198471	1178	2,6	2,143077	1178	26,4	0,078416	1178	76,1	0,059186	1178	58,1
0,198840	1180	2,6	2,149193	1180	26,5	0,078494	1180	76,1	0,059288	1180	58,2
0,199208	1182	2,6	2,155323	1182	26,5	0,078572	1182	76,2	0,059393	1182	58,3
0,199577	1184	2,6	2,161464	1184	26,6	0,078650	1184	76,2	0,059497	1184	58,4
0,199945	1186	2,6	2,167616	1186	26,6	0,078729	1186	76,2	0,059599	1186	58,5
0,200314	1188	2,6	2,173780	1188	26,7	0,078808	1188	76,3	0,059703	1188	58,6
0,200683	1190	2,6	2,179961	1190	26,7	0,078886	1190	76,3	0,059806	1190	58,7
0,201052	1192	2,6	2,186146	1192	26,7	0,078965	1192	76,4	0,059909	1192	58,8
0,201422	1194	2,6	2,192346	1194	26,8	0,079043	1194	76,4	0,060013	1194	58,9
0,201791	1196	2,7	2,198562	1196	26,8	0,079123	1196	76,4	0,060117	1196	59,0
0,202160	1198	2,7	2,204786	1198	26,9	0,079202	1198	76,5	0,060220	1198	59,1
0,202531	1200	2,7	2,211023	1200	26,9	0,079280	1200	76,5	0,060324	1200	59,2

1202-1300

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes											
N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
	Age			Age			Age			Age	
Ratio	Number of years	Error ±	Ratio	Number of years	Error ±	Ratio	Number of years	Error ±	Ratio	Number of years	Error ±
0,202899	1202	2,7	2,217275	1202	27,0	0,079360	1202	76,5	0,060427	1202	59,3
0,203268	1204	2,7	2,223534	1204	27,0	0,079440	1204	76,6	0,060531	1204	59,4
0,203640	1206	2,7	2,229809	1206	27,1	0,079518	1206	76,6	0,060633	1206	59,5
0,204009	1208	2,7	2,236095	1208	27,1	0,079598	1208	76,7	0,060738	1208	59,5
0,204379	1210	2,7	2,242392	1210	27,2	0,079678	1210	76,7	0,060842	1210	59,6
0,204751	1212	2,7	2,248701	1212	27,2	0,079757	1212	76,7	0,060945	1212	59,7
0,205120	1214	2,7	2,255027	1214	27,2	0,079838	1214	76,8	0,061048	1214	59,8
0,205490	1216	2,7	2,261361	1216	27,3	0,079918	1216	76,8	0,061152	1216	59,9
0,205862	1218	2,7	2,267705	1218	27,3	0,079997	1218	76,8	0,061256	1218	60,0
0,206231	1220	2,7	2,274067	1220	27,4	0,080078	1220	76,9	0,061360	1220	60,1
0,206603	1222	2,7	2,280439	1222	27,4	0,080158	1222	76,9	0,061463	1222	60,2
0,206974	1224	2,7	2,286824	1224	27,5	0,080238	1224	76,9	0,061566	1224	60,3
0,207345	1226	2,7	2,293221	1226	27,5	0,080319	1226	77,0	0,061670	1226	60,4
0,207716	1228	2,7	2,299630	1228	27,6	0,080399	1228	77,0	0,061773	1228	60,5
0,208088	1230	2,7	2,306051	1230	27,6	0,080479	1230	77,0	0,061878	1230	60,6
0,208460	1232	2,7	2,312482	1232	27,6	0,080560	1232	77,1	0,061982	1232	60,7
0,208830	1234	2,7	2,318934	1234	27,7	0,080642	1234	77,1	0,062085	1234	60,8
0,209203	1236	2,7	2,325392	1236	27,7	0,080722	1236	77,2	0,062189	1236	60,9
0,209575	1238	2,7	2,331860	1238	27,8	0,080803	1238	77,2	0,062291	1238	61,0
0,209945	1240	2,7	2,338347	1240	27,8	0,080885	1240	77,3	0,062395	1240	61,1
0,210319	1242	2,8	2,344844	1242	27,9	0,080965	1242	77,3	0,062500	1242	61,2
0,210690	1244	2,8	2,351355	1244	27,9	0,081047	1244	77,3	0,062603	1244	61,3
0,211062	1246	2,8	2,357878	1246	28,0	0,081129	1246	77,4	0,062707	1246	61,4
0,211435	1248	2,8	2,364412	1248	28,0	0,081210	1248	77,4	0,062811	1248	61,5
0,211806	1250	2,8	2,370959	1250	28,1	0,081292	1250	77,4	0,062914	1250	61,6
0,212181	1252	2,8	2,377523	1252	28,1	0,081373	1252	77,5	0,063019	1252	61,7
0,212553	1254	2,8	2,384092	1254	28,1	0,081455	1254	77,5	0,063122	1254	61,8
0,212924	1256	2,8	2,390678	1256	28,2	0,081538	1256	77,5	0,063226	1256	61,9
0,213298	1258	2,8	2,397279	1258	28,2	0,081620	1258	77,6	0,063330	1258	62,0
0,213671	1260	2,8	2,403892	1260	28,3	0,081702	1260	77,6	0,063433	1260	62,1
0,214045	1262	2,8	2,410516	1262	28,3	0,081784	1262	77,7	0,063537	1262	62,2
0,214417	1264	2,8	2,417156	1264	28,4	0,081867	1264	77,7	0,063642	1264	62,3
0,214790	1266	2,8	2,423804	1266	28,4	0,081950	1266	77,8	0,063745	1266	62,4
0,215165	1268	2,8	2,430469	1268	28,5	0,082032	1268	77,8	0,063849	1268	62,5
0,215538	1270	2,8	2,437145	1270	28,5	0,082115	1270	77,8	0,063952	1270	62,6
0,215911	1272	2,8	2,443833	1272	28,5	0,082198	1272	77,9	0,064056	1272	62,7
0,216286	1274	2,8	2,450534	1274	28,6	0,082280	1274	77,9	0,064161	1274	62,8
0,216658	1276	2,8	2,457254	1276	28,6	0,082364	1276	77,9	0,064264	1276	62,9
0,217033	1278	2,8	2,463980	1278	28,7	0,082447	1278	78,0	0,064368	1278	63,0
0,217407	1280	2,8	2,470720	1280	28,7	0,082530	1280	78,0	0,064472	1280	63,1
0,217780	1282	2,8	2,477473	1282	28,8	0,082614	1282	78,0	0,064576	1282	63,2
0,218156	1284	2,8	2,484244	1284	28,8	0,082697	1284	78,1	0,064681	1284	63,3
0,218530	1286	2,9	2,491026	1286	28,9	0,082781	1286	78,1	0,064785	1286	63,4
0,218905	1288	2,9	2,497817	1288	28,9	0,082864	1288	78,1	0,064888	1288	63,5
0,219279	1290	2,9	2,504627	1290	28,9	0,082949	1290	78,2	0,064992	1290	63,6
0,219653	1292	2,9	2,511448	1292	29,0	0,083033	1292	78,3	0,065095	1292	63,7
0,220030	1294	2,9	2,518281	1294	29,0	0,083116	1294	78,3	0,065199	1294	63,8
0,220405	1296	2,9	2,525129	1296	29,1	0,083200	1296	78,3	0,065305	1296	63,9
0,220779	1298	2,9	2,531988	1298	29,1	0,083285	1298	78,4	0,065408	1298	64,0
0,221155	1300	2,9	2,538864	1300	29,2	0,083369	1300	78,4	0,065512	1300	64,1

1302-1400

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0,221530	1302	2,9	2,545752	1302	29,2	0,083454	1302	78,4	0,065616	1302	64,2
0,221906	1304	2,9	2,552653	1304	29,3	0,083538	1304	78,5	0,065719	1304	64,3
0,222281	1306	2,9	2,559564	1306	29,3	0,083623	1306	78,5	0,065825	1306	64,4
0,222656	1308	2,9	2,566495	1308	29,4	0,083708	1308	78,5	0,065928	1308	64,5
0,223034	1310	2,9	2,573437	1310	29,4	0,083793	1310	78,6	0,066032	1310	64,6
0,223408	1312	2,9	2,580388	1312	29,4	0,083878	1312	78,6	0,066136	1312	64,7
0,223786	1314	2,9	2,587360	1314	29,5	0,083963	1314	78,6	0,066239	1314	64,8
0,224161	1316	2,9	2,594338	1316	29,5	0,084049	1316	78,7	0,066345	1316	64,9
0,224538	1318	2,9	2,601335	1318	29,6	0,084134	1318	78,7	0,066449	1318	65,0
0,224914	1320	2,9	2,608345	1320	29,6	0,084219	1320	78,8	0,066552	1320	65,1
0,225290	1322	2,9	2,615367	1322	29,7	0,084305	1322	78,8	0,066657	1322	65,2
0,225667	1324	2,9	2,622403	1324	29,7	0,084391	1324	78,9	0,066760	1324	65,3
0,226044	1326	2,9	2,629455	1326	29,8	0,084477	1326	78,9	0,066865	1326	65,4
0,226421	1328	2,9	2,636516	1328	29,8	0,084562	1328	78,9	0,066970	1328	65,5
0,226798	1330	2,9	2,643593	1330	29,8	0,084648	1330	78,9	0,067073	1330	65,6
0,227175	1332	3,0	2,650684	1332	29,9	0,084735	1332	79,0	0,067177	1332	65,7
0,227552	1334	3,0	2,657792	1334	29,9	0,084821	1334	79,0	0,067283	1334	65,8
0,227931	1336	3,0	2,664906	1336	30,0	0,084907	1336	79,1	0,067386	1336	65,9
0,228308	1338	3,0	2,672041	1338	30,0	0,084993	1338	79,1	0,067490	1338	66,0
0,228686	1340	3,0	2,679188	1340	30,1	0,085080	1340	79,1	0,067594	1340	66,1
0,229064	1342	3,0	2,686349	1342	30,1	0,085167	1342	79,2	0,067698	1342	66,2
0,229440	1344	3,0	2,693522	1344	30,2	0,085254	1344	79,2	0,067804	1344	66,3
0,229820	1346	3,0	2,700714	1346	30,2	0,085340	1346	79,3	0,067907	1346	66,4
0,230196	1348	3,0	2,707915	1348	30,2	0,085428	1348	79,3	0,068011	1348	66,5
0,230575	1350	3,0	2,715129	1350	30,3	0,085515	1350	79,3	0,068116	1350	66,5
0,230954	1352	3,0	2,722362	1352	30,3	0,085602	1352	79,4	0,068219	1352	66,6
0,231332	1354	3,0	2,729607	1354	30,4	0,085690	1354	79,4	0,068325	1354	66,7
0,231711	1356	3,0	2,736863	1356	30,4	0,085777	1356	79,4	0,068428	1356	66,8
0,232090	1358	3,0	2,744136	1358	30,5	0,085864	1358	79,5	0,068533	1358	66,9
0,232467	1360	3,0	2,751424	1360	30,5	0,085953	1360	79,5	0,068637	1360	67,0
0,232847	1362	3,0	2,758724	1362	30,6	0,086040	1362	79,6	0,068740	1362	67,1
0,233226	1364	3,0	2,766041	1364	30,6	0,086128	1364	79,6	0,068846	1364	67,2
0,233604	1366	3,0	2,773370	1366	30,7	0,086217	1366	79,6	0,068951	1366	67,3
0,233984	1368	3,0	2,780711	1368	30,7	0,086304	1368	79,7	0,069054	1368	67,4
0,234363	1370	3,0	2,788072	1370	30,7	0,086393	1370	79,7	0,069159	1370	67,5
0,234744	1372	3,0	2,795445	1372	30,8	0,086481	1372	79,7	0,069263	1372	67,6
0,235122	1374	3,0	2,802831	1374	30,8	0,086570	1374	79,8	0,069368	1374	67,7
0,235502	1376	3,1	2,810232	1376	30,9	0,086658	1376	79,8	0,069472	1376	67,8
0,235882	1378	3,1	2,817649	1378	30,9	0,086747	1378	79,9	0,069576	1378	67,9
0,236262	1380	3,1	2,825076	1380	31,0	0,086836	1380	79,9	0,069680	1380	68,0
0,236643	1382	3,1	2,832521	1382	31,0	0,086925	1382	79,9	0,069786	1382	68,1
0,237022	1384	3,1	2,839981	1384	31,1	0,087014	1384	80,0	0,069889	1384	68,2
0,237401	1386	3,1	2,847454	1386	31,1	0,087104	1386	80,0	0,069994	1386	68,3
0,237783	1388	3,1	2,854939	1388	31,1	0,087193	1388	80,1	0,070098	1388	68,4
0,238163	1390	3,1	2,862445	1390	31,2	0,087282	1390	80,1	0,070203	1390	68,5
0,238543	1392	3,1	2,869960	1392	31,2	0,087372	1392	80,1	0,070308	1392	68,6
0,238924	1394	3,1	2,877491	1394	31,3	0,087462	1394	80,2	0,070412	1394	68,7
0,239306	1396	3,1	2,885039	1396	31,3	0,087551	1396	80,2	0,070516	1396	68,8
0,239687	1398	3,1	2,892600	1398	31,4	0,087641	1398	80,2	0,070621	1398	68,9
0,240068	1400	3,1	2,900174	1400	31,4	0,087731	1400	80,3	0,070726	1400	69,0

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0,240448	1402	3,1	2,907767	1402	31,5	0,087822	1402	80,3	0,070830	1402	69,1
0,240831	1404	3,1	2,915372	1404	31,5	0,087911	1404	80,4	0,070934	1404	69,2
0,241211	1406	3,1	2,922991	1406	31,6	0,088002	1406	80,4	0,071039	1406	69,3
0,241594	1408	3,1	2,930630	1408	31,6	0,088092	1408	80,4	0,071144	1408	69,4
0,241975	1410	3,1	2,938278	1410	31,6	0,088183	1410	80,5	0,071248	1410	69,5
0,242357	1412	3,1	2,945941	1412	31,7	0,088274	1412	80,5	0,071353	1412	69,6
0,242738	1414	3,1	2,953624	1414	31,7	0,088365	1414	80,6	0,071458	1414	69,7
0,243121	1416	3,1	2,961315	1416	31,8	0,088456	1416	80,6	0,071562	1416	69,8
0,243503	1418	3,1	2,969024	1418	31,8	0,088547	1418	80,6	0,071667	1418	69,9
0,243886	1420	3,1	2,976750	1420	31,9	0,088638	1420	80,7	0,071771	1420	70,0
0,244268	1422	3,2	2,984489	1422	31,9	0,088729	1422	80,7	0,071876	1422	70,1
0,244652	1424	3,2	2,992244	1424	32,0	0,088820	1424	80,7	0,071980	1424	70,2
0,245034	1426	3,2	3,000015	1426	32,0	0,088912	1426	80,8	0,072085	1426	70,3
0,245415	1428	3,2	3,007800	1428	32,0	0,089004	1428	80,8	0,072190	1428	70,4
0,245800	1430	3,2	3,015597	1430	32,1	0,089095	1430	80,8	0,072295	1430	70,5
0,246181	1432	3,2	3,023411	1432	32,1	0,089188	1432	80,9	0,072399	1432	70,6
0,246566	1434	3,2	3,031245	1434	32,2	0,089279	1434	80,9	0,072504	1434	70,7
0,246948	1436	3,2	3,039090	1436	32,2	0,089372	1436	81,0	0,072609	1436	70,8
0,247332	1438	3,2	3,046949	1438	32,3	0,089464	1438	81,0	0,072714	1438	70,9
0,247715	1440	3,2	3,054829	1440	32,3	0,089557	1440	81,1	0,072819	1440	71,0
0,248099	1442	3,2	3,062719	1442	32,4	0,089649	1442	81,1	0,072924	1442	71,1
0,248482	1444	3,2	3,070625	1444	32,4	0,089742	1444	81,1	0,073029	1444	71,2
0,248866	1446	3,2	3,078552	1446	32,4	0,089835	1446	81,2	0,073134	1446	71,3
0,249250	1448	3,2	3,086486	1448	32,5	0,089928	1448	81,2	0,073237	1448	71,4
0,249634	1450	3,2	3,094438	1450	32,5	0,090021	1450	81,2	0,073343	1450	71,5
0,250019	1452	3,2	3,102410	1452	32,6	0,090113	1452	81,3	0,073448	1452	71,6
0,250401	1454	3,2	3,110393	1454	32,6	0,090208	1454	81,3	0,073552	1454	71,7
0,250787	1456	3,2	3,118389	1456	32,7	0,090300	1456	81,3	0,073657	1456	71,8
0,251172	1458	3,2	3,126410	1458	32,7	0,090394	1458	81,4	0,073762	1458	71,9
0,251557	1460	3,2	3,134440	1460	32,8	0,090487	1460	81,4	0,073867	1460	72,0
0,251941	1462	3,2	3,142484	1462	32,8	0,090581	1462	81,5	0,073972	1462	72,1
0,252325	1464	3,2	3,150548	1464	32,9	0,090675	1464	81,5	0,074076	1464	72,2
0,252711	1466	3,3	3,158626	1466	32,9	0,090769	1466	81,6	0,074182	1466	72,3
0,253095	1468	3,3	3,166718	1468	32,9	0,090864	1468	81,6	0,074287	1468	72,4
0,253480	1470	3,3	3,174830	1470	33,0	0,090958	1470	81,6	0,074391	1470	72,5
0,253866	1472	3,3	3,182954	1472	33,0	0,091052	1472	81,7	0,074496	1472	72,6
0,254251	1474	3,3	3,191094	1474	33,1	0,091147	1474	81,7	0,074601	1474	72,7
0,254638	1476	3,3	3,199248	1476	33,1	0,091241	1476	81,7	0,074706	1476	72,8
0,255022	1478	3,3	3,207423	1478	33,2	0,091336	1478	81,8	0,074811	1478	72,9
0,255409	1480	3,3	3,215611	1480	33,2	0,091430	1480	81,8	0,074915	1480	73,0
0,255796	1482	3,3	3,223814	1482	33,3	0,091525	1482	81,8	0,075021	1482	73,1
0,256181	1484	3,3	3,232037	1484	33,3	0,091621	1484	81,9	0,075126	1484	73,2
0,256569	1486	3,3	3,240273	1486	33,3	0,091715	1486	81,9	0,075230	1486	73,3
0,256954	1488	3,3	3,248523	1488	33,4	0,091811	1488	82,0	0,075335	1488	73,4
0,257340	1490	3,3	3,256795	1490	33,4	0,091907	1490	82,0	0,075440	1490	73,5
0,257728	1492	3,3	3,265079	1492	33,5	0,092002	1492	82,0	0,075546	1492	73,5
0,258113	1494	3,3	3,273379	1494	33,5	0,092098	1494	82,1	0,075651	1494	73,6
0,258500	1496	3,3	3,281698	1496	33,6	0,092194	1496	82,1	0,075755	1496	73,7
0,258887	1498	3,3	3,290029	1498	33,6	0,092290	1498	82,2	0,075861	1498	73,8
0,259274	1500	3,3	3,298375	1500	33,7	0,092386	1500	82,2	0,075966	1500	73,9

1505-1750

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes											
N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0,260243	1505	3,3	3,319322	1505	33,8	0,092626	1505	82,3	0,076229	1505	74,2
0,261211	1510	3,3	3,340369	1510	33,9	0,092868	1510	82,4	0,076491	1510	74,4
0,262180	1515	3,4	3,361520	1515	34,0	0,093111	1515	82,5	0,076754	1515	74,7
0,263151	1520	3,4	3,382772	1520	34,1	0,093354	1520	82,6	0,077017	1520	74,9
0,264120	1525	3,4	3,404125	1525	34,2	0,093598	1525	82,7	0,077279	1525	75,2
0,265094	1530	3,4	3,425585	1530	34,3	0,093842	1530	82,8	0,077542	1530	75,4
0,266067	1535	3,4	3,447149	1535	34,4	0,094088	1535	82,9	0,077806	1535	75,7
0,267039	1540	3,4	3,468821	1540	34,6	0,094335	1540	83,0	0,078068	1540	75,9
0,268013	1545	3,4	3,490599	1545	34,7	0,094582	1545	83,1	0,078331	1545	76,2
0,268989	1550	3,4	3,512473	1550	34,8	0,094829	1550	83,2	0,078595	1550	76,4
0,269964	1555	3,4	3,534463	1555	34,9	0,095078	1555	83,3	0,078857	1555	76,7
0,270941	1560	3,5	3,556557	1560	35,0	0,095328	1560	83,4	0,079121	1560	76,9
0,271917	1565	3,5	3,578761	1565	35,1	0,095578	1565	83,5	0,079384	1565	77,1
0,272895	1570	3,5	3,601073	1570	35,2	0,095830	1570	83,6	0,079649	1570	77,4
0,273872	1575	3,5	3,623489	1575	35,3	0,096082	1575	83,7	0,079912	1575	77,6
0,274852	1580	3,5	3,646019	1580	35,5	0,096335	1580	83,8	0,080176	1580	77,9
0,275833	1585	3,5	3,668656	1585	35,6	0,096588	1585	83,9	0,080439	1585	78,1
0,276814	1590	3,5	3,691406	1590	35,7	0,096843	1590	84,0	0,080702	1590	78,4
0,277796	1595	3,5	3,714269	1595	35,8	0,097098	1595	84,1	0,080966	1595	78,6
0,278777	1600	3,5	3,737235	1600	35,9	0,097355	1600	84,2	0,081230	1600	78,9
0,279761	1605	3,6	3,760320	1605	36,0	0,097612	1605	84,3	0,081494	1605	79,1
0,280745	1610	3,6	3,783516	1610	36,1	0,097870	1610	84,3	0,081758	1610	79,4
0,281729	1615	3,6	3,806823	1615	36,2	0,098128	1615	84,4	0,082022	1615	79,6
0,282714	1620	3,6	3,830246	1620	36,4	0,098388	1620	84,5	0,082286	1620	79,9
0,283702	1625	3,6	3,853778	1625	36,5	0,098648	1625	84,6	0,082550	1625	80,1
0,284688	1630	3,6	3,877430	1630	36,6	0,098910	1630	84,7	0,082814	1630	80,4
0,285676	1635	3,6	3,901198	1635	36,7	0,099172	1635	84,8	0,083078	1635	80,6
0,286663	1640	3,6	3,925082	1640	36,8	0,099435	1640	84,9	0,083343	1640	80,8
0,287653	1645	3,6	3,949079	1645	36,9	0,099699	1645	85,0	0,083608	1645	81,1
0,288642	1650	3,7	3,973190	1650	37,0	0,099964	1650	85,1	0,083873	1650	81,3
0,289632	1655	3,7	3,997424	1655	37,1	0,100230	1655	85,2	0,084137	1655	81,6
0,290624	1660	3,7	4,021775	1660	37,3	0,100496	1660	85,3	0,084401	1660	81,8
0,291616	1665	3,7	4,046244	1665	37,4	0,100764	1665	85,4	0,084666	1665	82,1
0,292610	1670	3,7	4,070834	1670	37,5	0,101032	1670	85,5	0,084931	1670	82,3
0,293602	1675	3,7	4,095538	1675	37,6	0,101301	1675	85,6	0,085196	1675	82,6
0,294598	1680	3,7	4,120370	1680	37,7	0,101571	1680	85,7	0,085460	1680	82,8
0,295592	1685	3,7	4,145318	1685	37,8	0,101843	1685	85,8	0,085725	1685	83,1
0,296589	1690	3,7	4,170392	1690	37,9	0,102114	1690	85,9	0,085990	1690	83,3
0,297584	1695	3,8	4,195587	1695	38,0	0,102388	1695	86,0	0,086255	1695	83,6
0,298584	1700	3,8	4,220898	1700	38,1	0,102660	1700	86,1	0,086521	1700	83,8
0,299581	1705	3,8	4,246342	1705	38,3	0,102935	1705	86,2	0,086786	1705	84,0
0,300580	1710	3,8	4,271905	1710	38,4	0,103211	1710	86,3	0,087051	1710	84,3
0,301581	1715	3,8	4,297593	1715	38,5	0,103487	1715	86,4	0,087317	1715	84,5
0,302580	1720	3,8	4,323407	1720	38,6	0,103765	1720	86,5	0,087583	1720	84,8
0,303581	1725	3,8	4,349342	1725	38,7	0,104043	1725	86,6	0,087849	1725	85,0
0,304584	1730	3,8	4,375408	1730	38,8	0,104322	1730	86,7	0,088114	1730	85,3
0,305588	1735	3,8	4,401602	1735	38,9	0,104602	1735	86,8	0,088380	1735	85,5
0,306591	1740	3,9	4,427922	1740	39,0	0,104883	1740	86,9	0,088645	1740	85,8
0,307595	1745	3,9	4,454374	1745	39,2	0,105165	1745	87,0	0,088910	1745	86,0
0,308599	1750	3,9	4,480945	1750	39,3	0,105448	1750	87,1	0,089176	1750	86,3

1755-2000

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes											
N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0,309606	1755	3,9	4,507653	1755	39,4	0,105732	1755	87,2	0,089442	1755	86,5
0,310614	1760	3,9	4,534493	1760	39,5	0,106016	1760	87,3	0,089708	1760	86,8
0,311621	1765	3,9	4,561462	1765	39,6	0,106302	1765	87,4	0,089974	1765	87,0
0,312630	1770	3,9	4,588554	1770	39,7	0,106588	1770	87,5	0,090240	1770	87,3
0,313637	1775	3,9	4,615787	1775	39,8	0,106877	1775	87,6	0,090506	1775	87,5
0,314648	1780	3,9	4,643153	1780	39,9	0,107165	1780	87,7	0,090772	1780	87,7
0,315658	1785	4,0	4,670650	1785	40,1	0,107454	1785	87,8	0,091038	1785	88,0
0,316671	1790	4,0	4,698282	1790	40,2	0,107744	1790	87,9	0,091305	1790	88,2
0,317682	1795	4,0	4,726043	1795	40,3	0,108036	1795	88,0	0,091572	1795	88,5
0,318696	1800	4,0	4,753945	1800	40,4	0,108328	1800	88,1	0,091839	1800	88,7
0,319708	1805	4,0	4,781984	1805	40,5	0,108622	1805	88,2	0,092104	1805	89,0
0,320723	1810	4,0	4,810156	1810	40,6	0,108916	1810	88,3	0,092371	1810	89,2
0,321739	1815	4,0	4,838468	1815	40,7	0,109211	1815	88,4	0,092637	1815	89,5
0,322756	1820	4,0	4,866913	1820	40,8	0,109507	1820	88,5	0,092904	1820	89,7
0,323771	1825	4,0	4,895498	1825	41,0	0,109805	1825	88,6	0,093170	1825	90,0
0,324789	1830	4,1	4,924230	1830	41,1	0,110103	1830	88,7	0,093437	1830	90,2
0,325807	1835	4,1	4,953097	1835	41,2	0,110403	1835	88,8	0,093704	1835	90,5
0,326827	1840	4,1	4,982106	1840	41,3	0,110703	1840	88,9	0,093971	1840	90,7
0,327848	1845	4,1	5,011250	1845	41,4	0,111004	1845	89,0	0,094238	1845	91,0
0,328867	1850	4,1	5,040542	1850	41,5	0,111307	1850	89,1	0,094505	1850	91,2
0,329890	1855	4,1	5,069976	1855	41,6	0,111609	1855	89,2	0,094772	1855	91,4
0,330911	1860	4,1	5,099554	1860	41,7	0,111914	1860	89,3	0,095039	1860	91,7
0,331935	1865	4,1	5,129275	1865	41,9	0,112219	1865	89,4	0,095306	1865	91,9
0,332959	1870	4,1	5,159136	1870	42,0	0,112525	1870	89,5	0,095575	1870	92,2
0,333984	1875	4,2	5,189152	1875	42,1	0,112833	1875	89,6	0,095842	1875	92,4
0,335009	1880	4,2	5,219307	1880	42,2	0,113141	1880	89,7	0,096109	1880	92,7
0,336035	1885	4,2	5,249613	1885	42,3	0,113451	1885	89,8	0,096377	1885	92,9
0,337062	1890	4,2	5,280068	1890	42,4	0,113761	1890	89,9	0,096644	1890	93,2
0,338089	1895	4,2	5,310664	1895	42,5	0,114073	1895	90,0	0,096913	1895	93,4
0,339119	1900	4,2	5,341414	1900	42,6	0,114385	1900	90,1	0,097180	1900	93,7
0,340147	1905	4,2	5,372315	1905	42,7	0,114699	1905	90,2	0,097448	1905	93,9
0,341179	1910	4,2	5,403365	1910	42,9	0,115013	1910	90,3	0,097717	1910	94,2
0,342209	1915	4,2	5,434568	1915	43,0	0,115329	1915	90,4	0,097984	1915	94,4
0,343241	1920	4,3	5,465915	1920	43,1	0,115645	1920	90,5	0,098252	1920	94,6
0,344274	1925	4,3	5,497425	1925	43,2	0,115963	1925	90,6	0,098520	1925	94,9
0,345308	1930	4,3	5,529084	1930	43,3	0,116282	1930	90,7	0,098788	1930	95,1
0,346341	1935	4,3	5,560898	1935	43,4	0,116602	1935	90,8	0,099056	1935	95,4
0,347377	1940	4,3	5,592872	1940	43,5	0,116922	1940	90,9	0,099324	1940	95,6
0,348411	1945	4,3	5,624987	1945	43,6	0,117245	1945	91,0	0,099593	1945	95,9
0,349450	1950	4,3	5,657274	1950	43,8	0,117567	1950	91,1	0,099862	1950	96,1
0,350488	1955	4,3	5,689710	1955	43,9	0,117891	1955	91,2	0,100130	1955	96,4
0,351525	1960	4,3	5,722310	1960	44,0	0,118217	1960	91,3	0,100398	1960	96,6
0,352564	1965	4,4	5,755066	1965	44,1	0,118543	1965	91,4	0,100668	1965	96,9
0,353604	1970	4,4	5,787976	1970	44,2	0,118870	1970	91,5	0,100936	1970	97,1
0,354645	1975	4,4	5,821053	1975	44,3	0,119199	1975	91,6	0,101205	1975	97,4
0,355685	1980	4,4	5,854291	1980	44,4	0,119529	1980	91,7	0,101473	1980	97,6
0,356728	1985	4,4	5,887691	1985	44,5	0,119859	1985	91,8	0,101742	1985	97,9
0,357771	1990	4,4	5,921252	1990	44,7	0,120191	1990	91,9	0,102010	1990	98,1
0,358816	1995	4,4	5,954970	1995	44,8	0,120524	1995	92,0	0,102279	1995	98,3
0,359859	2000	4,4	5,988862	2000	44,9	0,120858	2000	92,1	0,102549	2000	98,6

2005-2250

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0.360905	2005	4.4	6.022918	2005	45.0	0.121193	2005	92.2	0.102818	2005	98.8
0.361951	2010	4.5	6.057140	2010	45.1	0.121530	2010	92.3	0.103087	2010	99.1
0.362998	2015	4.5	6.091526	2015	45.2	0.121867	2015	92.4	0.103356	2015	99.3
0.364047	2020	4.5	6.126076	2020	45.3	0.122205	2020	92.5	0.103626	2020	99.6
0.365094	2025	4.5	6.160799	2025	45.4	0.122545	2025	92.6	0.103895	2025	99.8
0.366144	2030	4.5	6.195695	2030	45.6	0.122886	2030	92.7	0.104166	2030	100.1
0.367194	2035	4.5	6.230758	2035	45.7	0.123228	2035	92.8	0.104435	2035	100.3
0.368245	2040	4.5	6.265992	2040	45.8	0.123571	2040	92.9	0.104704	2040	100.6
0.369296	2045	4.5	6.301391	2045	45.9	0.123916	2045	93.0	0.104974	2045	100.8
0.370349	2050	4.5	6.336972	2050	46.0	0.124261	2050	93.1	0.105243	2050	101.1
0.371403	2055	4.6	6.372720	2055	46.1	0.124607	2055	93.2	0.105514	2055	101.3
0.372458	2060	4.6	6.408648	2060	46.2	0.124955	2060	93.3	0.105783	2060	101.5
0.373511	2065	4.6	6.444749	2065	46.3	0.125305	2065	93.4	0.106053	2065	101.8
0.374569	2070	4.6	6.481019	2070	46.5	0.125654	2070	93.5	0.106322	2070	102.0
0.375624	2075	4.6	6.517473	2075	46.6	0.126006	2075	93.6	0.106593	2075	102.3
0.376682	2080	4.6	6.554104	2080	46.7	0.126358	2080	93.7	0.106863	2080	102.5
0.377742	2085	4.6	6.590912	2085	46.8	0.126711	2085	93.8	0.107133	2085	102.8
0.378799	2090	4.6	6.627904	2090	46.9	0.127067	2090	93.9	0.107402	2090	103.0
0.379859	2095	4.6	6.665064	2095	47.0	0.127423	2095	94.0	0.107674	2095	103.3
0.380921	2100	4.7	6.702414	2100	47.1	0.127779	2100	94.1	0.107944	2100	103.5
0.381982	2105	4.7	6.739946	2105	47.2	0.128138	2105	94.2	0.108214	2105	103.8
0.383043	2110	4.7	6.777662	2110	47.3	0.128498	2110	94.3	0.108486	2110	104.0
0.384109	2115	4.7	6.815561	2115	47.5	0.128858	2115	94.4	0.108756	2115	104.3
0.385172	2120	4.7	6.853638	2120	47.6	0.129220	2120	94.5	0.109026	2120	104.5
0.386236	2125	4.7	6.891908	2125	47.7	0.129584	2125	94.6	0.109296	2125	104.8
0.387303	2130	4.7	6.930364	2130	47.8	0.129948	2130	94.7	0.109568	2130	105.0
0.388368	2135	4.7	6.969005	2135	47.9	0.130314	2135	94.8	0.109838	2135	105.2
0.389436	2140	4.7	7.007839	2140	48.0	0.130681	2140	94.9	0.110108	2140	105.5
0.390504	2145	4.8	7.046852	2145	48.1	0.131049	2145	95.0	0.110380	2145	105.7
0.391573	2150	4.8	7.086061	2150	48.2	0.131419	2150	95.1	0.110652	2150	106.0
0.392643	2155	4.8	7.125465	2155	48.4	0.131789	2155	95.2	0.110922	2155	106.2
0.393714	2160	4.8	7.165058	2160	48.5	0.132161	2160	95.3	0.111194	2160	106.5
0.394783	2165	4.8	7.204844	2165	48.6	0.132535	2165	95.5	0.111465	2165	106.7
0.395857	2170	4.8	7.244819	2170	48.7	0.132909	2170	95.6	0.111738	2170	107.0
0.396930	2175	4.8	7.284996	2175	48.8	0.133285	2175	95.7	0.112008	2175	107.2
0.398005	2180	4.8	7.325365	2180	48.9	0.133661	2180	95.8	0.112279	2180	107.5
0.399078	2185	4.8	7.365933	2185	49.0	0.134040	2185	95.9	0.112551	2185	107.7
0.400154	2190	4.9	7.406698	2190	49.1	0.134419	2190	96.0	0.112822	2190	108.0
0.401231	2195	4.9	7.447655	2195	49.3	0.134800	2195	96.1	0.113095	2195	108.2
0.402307	2200	4.9	7.488819	2200	49.4	0.135182	2200	96.2	0.113366	2200	108.5
0.403387	2205	4.9	7.530185	2205	49.5	0.135565	2205	96.3	0.113637	2205	108.7
0.404464	2210	4.9	7.571751	2210	49.6	0.135951	2210	96.4	0.113909	2210	108.9
0.405546	2215	4.9	7.613518	2215	49.7	0.136336	2215	96.5	0.114181	2215	109.2
0.406625	2220	4.9	7.655485	2220	49.8	0.136723	2220	96.6	0.114453	2220	109.4
0.407706	2225	4.9	7.697660	2225	49.9	0.137112	2225	96.7	0.114724	2225	109.7
0.408788	2230	4.9	7.740041	2230	50.0	0.137502	2230	96.8	0.114996	2230	109.9
0.409873	2235	5.0	7.782628	2235	50.2	0.137893	2235	96.9	0.115269	2235	110.2
0.410956	2240	5.0	7.825426	2240	50.3	0.138286	2240	97.0	0.115540	2240	110.4
0.412041	2245	5.0	7.868422	2245	50.4	0.138679	2245	97.1	0.115814	2245	110.7
0.413125	2250	5.0	7.911637	2250	50.5	0.139075	2250	97.2	0.116087	2250	110.9

2255-2500

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes											
N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0.414211	2255	5.0	7.95506	2255	50.6	0.139472	2255	97.3	0.116360	2255	111.2
0.415300	2260	5.0	7.99870	2260	50.7	0.139869	2260	97.4	0.116632	2260	111.4
0.416386	2265	5.0	8.04254	2265	50.8	0.140269	2265	97.5	0.116904	2265	111.7
0.417477	2270	5.0	8.08660	2270	50.9	0.140669	2270	97.6	0.117176	2270	111.9
0.418565	2275	5.0	8.13088	2275	51.1	0.141071	2275	97.7	0.117450	2275	112.1
0.419658	2280	5.1	8.17537	2280	51.2	0.141474	2280	97.8	0.117722	2280	112.4
0.420747	2285	5.1	8.22008	2285	51.3	0.141879	2285	97.9	0.117995	2285	112.6
0.421840	2290	5.1	8.26501	2290	51.4	0.142285	2290	98.0	0.118267	2290	112.9
0.422932	2295	5.1	8.31014	2295	51.5	0.142693	2295	98.1	0.118540	2295	113.1
0.424026	2300	5.1	8.35551	2300	51.6	0.143102	2300	98.2	0.118813	2300	113.4
0.425121	2305	5.1	8.40110	2305	51.7	0.143512	2305	98.3	0.119086	2305	113.6
0.426217	2310	5.1	8.44691	2310	51.8	0.143923	2310	98.4	0.119359	2310	113.9
0.427313	2315	5.1	8.49294	2315	51.9	0.144337	2315	98.5	0.119632	2315	114.1
0.428409	2320	5.1	8.53919	2320	52.1	0.144751	2320	98.6	0.119907	2320	114.4
0.429509	2325	5.2	8.58567	2325	52.2	0.145167	2325	98.7	0.120180	2325	114.6
0.430608	2330	5.2	8.63238	2330	52.3	0.145584	2330	98.8	0.120453	2330	114.9
0.431707	2335	5.2	8.67932	2335	52.4	0.146003	2335	98.9	0.120727	2335	115.1
0.432807	2340	5.2	8.72649	2340	52.5	0.146423	2340	99.0	0.121001	2340	115.4
0.433910	2345	5.2	8.77387	2345	52.6	0.146844	2345	99.1	0.121274	2345	115.6
0.435012	2350	5.2	8.82150	2350	52.7	0.147267	2350	99.3	0.121548	2350	115.8
0.436116	2355	5.2	8.86936	2355	52.8	0.147691	2355	99.3	0.121822	2355	116.1
0.437219	2360	5.2	8.91745	2360	53.0	0.148118	2360	99.5	0.122095	2360	116.3
0.438325	2365	5.2	8.96577	2365	53.1	0.148544	2365	99.6	0.122369	2365	116.6
0.439430	2370	5.3	9.01433	2370	53.2	0.148973	2370	99.7	0.122643	2370	116.8
0.440537	2375	5.3	9.06312	2375	53.3	0.149403	2375	99.8	0.122916	2375	117.1
0.441643	2380	5.3	9.11216	2380	53.4	0.149835	2380	99.9	0.123191	2380	117.3
0.442752	2385	5.3	9.16143	2385	53.5	0.150268	2385	100.0	0.123464	2385	117.6
0.443862	2390	5.3	9.21095	2390	53.6	0.150703	2390	100.1	0.123739	2390	117.8
0.444971	2395	5.3	9.26070	2395	53.7	0.151139	2395	100.2	0.124014	2395	118.1
0.446082	2400	5.3	9.31069	2400	53.9	0.151577	2400	100.3	0.124288	2400	118.3
0.447193	2405	5.3	9.36093	2405	54.0	0.152016	2405	100.4	0.124562	2405	118.6
0.448307	2410	5.3	9.41142	2410	54.1	0.152456	2410	100.5	0.124837	2410	118.8
0.449419	2415	5.4	9.46216	2415	54.2	0.152899	2415	100.6	0.125113	2415	119.0
0.450535	2420	5.4	9.51313	2420	54.3	0.153341	2420	100.7	0.125387	2420	119.3
0.451648	2425	5.4	9.56436	2425	54.4	0.153787	2425	100.8	0.125661	2425	119.5
0.452765	2430	5.4	9.61584	2430	54.5	0.154234	2430	100.9	0.125936	2430	119.8
0.453882	2435	5.4	9.66756	2435	54.6	0.154682	2435	101.0	0.126210	2435	120.0
0.454998	2440	5.4	9.71955	2440	54.8	0.155132	2440	101.1	0.126485	2440	120.3
0.456117	2445	5.4	9.77177	2445	54.9	0.155583	2445	101.2	0.126760	2445	120.5
0.457236	2450	5.4	9.82426	2450	55.0	0.156036	2450	101.3	0.127036	2450	120.8
0.458357	2455	5.4	9.87700	2455	55.1	0.156490	2455	101.4	0.127310	2455	121.0
0.459479	2460	5.5	9.93000	2460	55.2	0.156945	2460	101.5	0.127585	2460	121.3
0.460602	2465	5.5	9.98327	2465	55.3	0.157403	2465	101.6	0.127860	2465	121.5
0.461723	2470	5.5	10.03677	2470	55.4	0.157862	2470	101.8	0.128137	2470	121.8
0.462849	2475	5.5	10.09055	2475	55.5	0.158322	2475	101.9	0.128411	2475	122.0
0.463972	2480	5.5	10.14460	2480	55.7	0.158784	2480	102.0	0.128687	2480	122.3
0.465097	2485	5.5	10.19890	2485	55.8	0.159248	2485	102.1	0.128963	2485	122.5
0.466224	2490	5.5	10.25347	2490	55.9	0.159713	2490	102.2	0.129239	2490	122.7
0.467352	2495	5.5	10.30830	2495	56.0	0.160180	2495	102.3	0.129515	2495	123.0
0.468478	2500	5.5	10.36340	2500	56.1	0.160649	2500	102.4	0.129790	2500	123.2

2510-3000

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0,470737	2510	5,6	10,47442	2510	56,3	0,161591	2510	102,6	0,130341	2510	123,7
0,472999	2520	5,6	10,58650	2520	56,5	0,162539	2520	102,8	0,130893	2520	124,2
0,475266	2530	5,6	10,69970	2530	56,8	0,163493	2530	103,0	0,131444	2530	124,7
0,477535	2540	5,6	10,81399	2540	57,0	0,164455	2540	103,2	0,131997	2540	125,2
0,479806	2550	5,7	10,92940	2550	57,2	0,165423	2550	103,4	0,132550	2550	125,7
0,482083	2560	5,7	11,04594	2560	57,4	0,166397	2560	103,6	0,133104	2560	126,2
0,484363	2570	5,7	11,16361	2570	57,7	0,167378	2570	103,8	0,133657	2570	126,7
0,486644	2580	5,7	11,28244	2580	57,9	0,168367	2580	104,1	0,134210	2580	127,2
0,488933	2590	5,7	11,40243	2590	58,1	0,169361	2590	104,3	0,134763	2590	127,7
0,491222	2600	5,8	11,52358	2600	58,3	0,170363	2600	104,5	0,135317	2600	128,2
0,493515	2610	5,8	11,64593	2610	58,6	0,171372	2610	104,7	0,135871	2610	128,7
0,495813	2620	5,8	11,76947	2620	58,8	0,172387	2620	104,9	0,136428	2620	129,2
0,498113	2630	5,8	11,89421	2630	59,0	0,173409	2630	105,1	0,136982	2630	129,6
0,500418	2640	5,9	12,02019	2640	59,2	0,174439	2640	105,3	0,137537	2640	130,1
0,502726	2650	5,9	12,14737	2650	59,5	0,175475	2650	105,5	0,138092	2650	130,6
0,505037	2660	5,9	12,27581	2660	59,7	0,176519	2660	105,7	0,138647	2660	131,1
0,507352	2670	5,9	12,40550	2670	59,9	0,177570	2670	106,0	0,139203	2670	131,6
0,509671	2680	5,9	12,53646	2680	60,1	0,178628	2680	106,2	0,139760	2680	132,1
0,511992	2690	6,0	12,66870	2690	60,4	0,179694	2690	106,4	0,140316	2690	132,6
0,514318	2700	6,0	12,80222	2700	60,6	0,180767	2700	106,6	0,140874	2700	133,1
0,516647	2710	6,0	12,93706	2710	60,8	0,181847	2710	106,8	0,141430	2710	133,6
0,518981	2720	6,0	13,07321	2720	61,0	0,182935	2720	107,0	0,141988	2720	134,1
0,521316	2730	6,1	13,21069	2730	61,3	0,184030	2730	107,2	0,142546	2730	134,6
0,523656	2740	6,1	13,34953	2740	61,5	0,185133	2740	107,4	0,143103	2740	135,1
0,526000	2750	6,1	13,48970	2750	61,7	0,186244	2750	107,7	0,143661	2750	135,6
0,528349	2760	6,1	13,63125	2760	61,9	0,187361	2760	107,9	0,144219	2760	136,1
0,530698	2770	6,1	13,77417	2770	62,2	0,188488	2770	108,1	0,144778	2770	136,5
0,533052	2780	6,2	13,91851	2780	62,4	0,189622	2780	108,3	0,145338	2780	137,0
0,535410	2790	6,2	14,06426	2790	62,6	0,190764	2790	108,5	0,145896	2790	137,5
0,537771	2800	6,2	14,21141	2800	62,8	0,191913	2800	108,7	0,146456	2800	138,0
0,540137	2810	6,2	14,36002	2810	63,1	0,193071	2810	108,9	0,147016	2810	138,5
0,542506	2820	6,3	14,51006	2820	63,3	0,194236	2820	109,1	0,147575	2820	139,0
0,544878	2830	6,3	14,66159	2830	63,5	0,195410	2830	109,4	0,148136	2830	139,5
0,547254	2840	6,3	14,81459	2840	63,7	0,196592	2840	109,6	0,148695	2840	140,0
0,549634	2850	6,3	14,96908	2850	64,0	0,197782	2850	109,8	0,149257	2850	140,5
0,552017	2860	6,3	15,12508	2860	64,2	0,198980	2860	110,0	0,149818	2860	141,0
0,554406	2870	6,4	15,28260	2870	64,4	0,200186	2870	110,2	0,150381	2870	141,5
0,556796	2880	6,4	15,44167	2880	64,6	0,201402	2880	110,4	0,150942	2880	142,0
0,559190	2890	6,4	15,60229	2890	64,9	0,202626	2890	110,6	0,151503	2890	142,5
0,561588	2900	6,4	15,76447	2900	65,1	0,203858	2900	110,9	0,152065	2900	143,0
0,563993	2910	6,5	15,92826	2910	65,3	0,205097	2910	111,1	0,152627	2910	143,5
0,566397	2920	6,5	16,09361	2920	65,5	0,206347	2920	111,3	0,153192	2920	143,9
0,568805	2930	6,5	16,26061	2930	65,8	0,207605	2930	111,5	0,153754	2930	144,4
0,571216	2940	6,5	16,42923	2940	66,0	0,208873	2940	111,7	0,154317	2940	144,9
0,573635	2950	6,5	16,59949	2950	66,2	0,210148	2950	111,9	0,154880	2950	145,4
0,576055	2960	6,6	16,77143	2960	66,4	0,211432	2960	112,1	0,155445	2960	145,9
0,578479	2970	6,6	16,94502	2970	66,6	0,212726	2970	112,4	0,156008	2970	146,4
0,580907	2980	6,6	17,12034	2980	66,9	0,214028	2980	112,6	0,156572	2980	146,9
0,583339	2990	6,6	17,29737	2990	67,1	0,215340	2990	112,8	0,157138	2990	147,4
0,585775	3000	6,7	17,47610	3000	67,3	0,216660	3000	113,0	0,157704	3000	147,9

3010-3500

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes											
N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0.588213	3010	6.7	17.65661	3010	67.5	0.217991	3010	113.2	0.158268	3010	148.4
0.590656	3020	6.7	17.83885	3020	67.8	0.219330	3020	113.4	0.158833	3020	148.9
0.593103	3030	6.7	18.02289	3030	68.0	0.220678	3030	113.7	0.159399	3030	149.4
0.595553	3040	6.7	18 20874	3040	68.2	0.222037	3040	113.9	0.159966	3040	149.9
0.598006	3050	6.8	18.39637	3050	68.4	0.223404	3050	114.1	0.160531	3050	150.4
0.600464	3060	6.8	18.58586	3060	68.7	0.224782	3060	114.3	0.161098	3060	150.8
0.602928	3070	6.8	18.77718	3070	68.9	0.226168	3070	114.5	0.161665	3070	151.3
0.605393	3080	6.8	18.97040	3080	69.1	0.227564	3080	114.7	0.162233	3080	151.8
0.607862	3090	6.9	19.16550	3090	69.3	0.228971	3090	115.0	0.162800	3090	152.3
0.610335	3100	6.9	19.36248	3100	69.6	0.230387	3100	115.2	0.163368	3100	152.8
0.612811	3110	6.9	19.56141	3110	69.8	0.231814	3110	115.4	0.163936	3110	153.3
0.615292	3120	6.9	19.76227	3120	70.0	0.233249	3120	115.6	0.164504	3120	153.8
0.617777	3130	6.9	19.96510	3130	70.2	0.234696	3130	115.8	0.165072	3130	154.3
0.620266	3140	7.0	20.16992	3140	70.5	0.236152	3140	116.0	0.165642	3140	154.8
0.622757	3150	7.0	20.37671	3150	70.7	0.237619	3150	116.3	0.166211	3150	155.3
0.625255	3160	7.0	20.58555	3160	70.9	0.239095	3160	116.5	0.166780	3160	155.8
0.627752	3170	7.0	20.79641	3170	71.1	0.240583	3170	116.7	0.167349	3170	156.3
0.630256	3180	7.1	21.00935	3180	71.4	0.242081	3180	116.9	0.167920	3180	156.8
0.632765	3190	7.1	21.22437	3190	71.6	0.243589	3190	117.1	0.168490	3190	157.3
0.635275	3200	7.1	21.44146	3200	71.8	0.245108	3200	117.3	0.169060	3200	157.7
0.637791	3210	7.1	21.66070	3210	72.0	0.246638	3210	117.6	0.169631	3210	158.2
0.640310	3220	7.1	21.88206	3220	72.3	0.248178	3220	117.8	0.170203	3220	158.7
0.642833	3230	7.2	22.10561	3230	72.5	0.249729	3230	118.0	0.170774	3230	159.2
0.645360	3240	7.2	22.33133	3240	72.7	0.251292	3240	118.2	0.171346	3240	159.7
0.647891	3250	7.2	22.55924	3250	72.9	0.252865	3250	118 4	0.171917	3250	160.2
0.650425	3260	7.2	22.78940	3260	73.2	0.254449	3260	118.7	0.172489	3260	160.7
0.652965	3270	7.3	23.02179	3270	73.4	0.256044	3270	118.9	0.173062	3270	161.2
0.655506	3280	7.3	23.25646	3280	73.6	0.257651	3280	119.1	0.173635	3280	161.7
0.658052	3290	7.3	23.49344	3290	73.8	0.259270	3290	119.3	0.174208	3290	162.2
0.660600	3300	7.3	23.73270	3300	74.1	0.260900	3300	119.5	0.174782	3300	162.7
0.663155	3310	7.3	23.97432	3310	74.3	0.262541	3310	119.8	0.175354	3310	163.2
0.665714	3320	7.4	24.21829	3320	74.5	0.264193	3320	120.0	0.175928	3320	163.7
0.668276	3330	7.4	24.46465	3330	74.7	0.265857	3330	120.2	0.176502	3330	164.2
0.670843	3340	7.4	24.71342	3340	75.0	0.267533	3340	120.4	0.177077	3340	164.6
0.673412	3350	7.4	24.96460	3350	75.2	0.269221	3350	120.6	0.177651	3350	165.1
0.675985	3360	7.5	25.21826	3360	75.4	0.270921	3360	120.9	0.178226	3360	165.6
0.678564	3370	7.5	25.47438	3370	75.6	0.272633	3370	121.1	0.178802	3370	166.1
0.681148	3380	7.5	25.73301	3380	75.8	0.274356	3380	121.3	0.179377	3380	166.6
0.683733	3390	7.5	25.99418	3390	76.1	0.276093	3390	121.5	0.179955	3390	167.1
0.686323	3400	7.5	26.25787	3400	76.3	0.277841	3400	121.7	0.180530	3400	167.6
0.688916	3410	7.6	26.52416	3410	76.5	0.279602	3410	121.9	0.181106	3410	168.1
0.691513	3420	7.6	26.79303	3420	76.7	0.281376	3420	122.2	0.181683	3420	168.6
0.694114	3430	7.6	27.06455	3430	77.0	0.283162	3430	122.4	0.182260	3430	169.1
0.696721	3440	7.6	27.33873	3440	77.2	0.284961	3440	122.6	0.182839	3440	169.6
0.699330	3450	7.6	27.61555	3450	77.4	0.286772	3450	122.8	0.183415	3450	170.1
0.701944	3460	7.7	27.89511	3460	77.6	0.288596	3460	123.1	0.183992	3460	170.6
0.704561	3470	7.7	28.17737	3470	77.9	0.290434	3470	123.3	0.184571	3470	171.1
0.707183	3480	7.7	28.46241	3480	78.1	0.292284	3480	123.5	0.185148	3480	171.5
0.709808	3490	7.7	28.75024	3490	78.3	0.294148	3490	123.7	0.185727	3490	172.0
0.712439	3500	7.8	29.04086	3500	78.5	0.296024	3500	123.9	0.186307	3500	172.5

3510-4000

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
0.715073	3510	7.8	29.33434	3510	78.8	0.297914	3510	124.2	0.186885	3510	173.0
0.717712	3520	7.8	29.63065	3520	79.0	0.299817	3520	124.4	0.187466	3520	173.5
0.720353	3530	7.8	29.92990	3530	79.2	0.301735	3530	124.6	0.188045	3530	174.0
0.722997	3540	7.8	30.23203	3540	79.4	0.303666	3540	124.8	0.188625	3540	174.5
0.725648	3550	7.9	30.53715	3550	79.7	0.305610	3550	125.0	0.189206	3550	175.0
0.728304	3560	7.9	30.84526	3560	79.9	0.307568	3560	125.3	0.189785	3560	175.5
0.730961	3570	7.9	31.15633	3570	80.1	0.309540	3570	125.5	0.190366	3570	176.0
0.733623	3580	7.9	31.47048	3580	80.3	0.311527	3580	125.7	0.190947	3580	176.5
0.736292	3590	8.0	31.78766	3590	80.6	0.313526	3590	125.9	0.191530	3590	177.0
0.738961	3600	8.0	32.10798	3600	80.8	0.315542	3600	126.2	0.192112	3600	177.5
0.741637	3610	8.0	32.43143	3610	81.0	0.317570	3610	126.4	0.192694	3610	178.0
0.744316	3620	8.0	32.75800	3620	81.2	0.319614	3620	126.6	0.193276	3620	178.5
0.746998	3630	8.0	33.08779	3630	81.5	0.321672	3630	126.8	0.193859	3630	178.9
0.749686	3640	8.1	33.42078	3640	81.7	0.323745	3640	127.0	0.194441	3640	179.4
0.752377	3650	8.1	33.75705	3650	81.9	0.325833	3650	127.3	0.195023	3650	179.9
0.755070	3660	8.1	34.09660	3660	82.1	0.327936	3660	127.5	0.195607	3660	180.4
0.757770	3670	8.1	34.43945	3670	82.4	0.330053	3670	127.7	0.196192	3670	180.9
0.760474	3680	8.2	34.78567	3680	82.6	0.332186	3680	127.9	0.196777	3680	181.4
0.763182	3690	8.2	35.13523	3690	82.8	0.334334	3690	128.2	0.197359	3690	181.9
0.765894	3700	8.2	35.48826	3700	83.0	0.336497	3700	128.4	0.197944	3700	182.4
0.768610	3710	8.2	35.84473	3710	83.3	0.338676	3710	128.6	0.198529	3710	182.9
0.771329	3720	8.2	36.20464	3720	83.5	0.340871	3720	128.8	0.199114	3720	183.4
0.774056	3730	8.3	36.56811	3730	83.7	0.343080	3730	129.0	0.199699	3730	183.9
0.776784	3740	8.3	36.93509	3740	83.9	0.345306	3740	129.3	0.200287	3740	184.4
0.779517	3750	8.3	37.30569	3750	84.2	0.347548	3750	129.5	0.200872	3750	184.9
0.782254	3760	8.3	37.67992	3760	84.4	0.349806	3760	129.7	0.201459	3760	185.4
0.784996	3770	8.4	38.05776	3770	84.6	0.352080	3770	129.9	0.202044	3770	185.8
0.787740	3780	8.4	38.43933	3780	84.8	0.354371	3780	130.2	0.202631	3780	186.3
0.790489	3790	8.4	38.82459	3790	85.0	0.356678	3790	130.4	0.203218	3790	186.8
0.793244	3800	8.4	39.21365	3800	85.3	0.359001	3800	130.6	0.203806	3800	187.3
0.796001	3810	8.4	39.60652	3810	85.5	0.361342	3810	130.8	0.204393	3810	187.8
0.798764	3820	8.5	40.00318	3820	85.7	0.363698	3820	131.1	0.204982	3820	188.3
0.801530	3830	8.5	40.40375	3830	85.9	0.366073	3830	131.3	0.205571	3830	188.8
0.804301	3840	8.5	40.80820	3840	86.2	0.368463	3840	131.5	0.206159	3840	189.3
0.807077	3850	8.5	41.21664	3850	86.4	0.370871	3850	131.7	0.206748	3850	189.8
0.809857	3860	8.6	41.62907	3860	86.6	0.373296	3860	132.0	0.207336	3860	190.3
0.812641	3870	8.6	42.04549	3870	86.8	0.375739	3870	132.2	0.207927	3870	190.8
0.815430	3880	8.6	42.46602	3880	87.1	0.378199	3880	132.4	0.208517	3880	191.3
0.818222	3890	8.6	42.89062	3890	87.3	0.380677	3890	132.6	0.209108	3890	191.8
0.821018	3900	8.6	43.31940	3900	87.5	0.383173	3900	132.9	0.209697	3900	192.3
0.823817	3910	8.7	43.75238	3910	87.7	0.385688	3910	133.1	0.210288	3910	192.7
0.826623	3920	8.7	44.18953	3920	88.0	0.388220	3920	133.3	0.210879	3920	193.2
0.829432	3930	8.7	44.63101	3930	88.2	0.390770	3930	133.5	0.211470	3930	193.7
0.832247	3940	8.7	45.07675	3940	88.4	0.393338	3940	133.8	0.212061	3940	194.2
0.835065	3950	8.8	45.52689	3950	88.6	0.395925	3950	134.0	0.212653	3950	194.7
0.837887	3960	8.8	45.98144	3960	88.9	0.398532	3960	134.2	0.213245	3960	195.2
0.840715	3970	8.8	46.44037	3970	89.1	0.401155	3970	134.4	0.213838	3970	195.7
0.843546	3980	8.8	46.90383	3980	89.3	0.403799	3980	134.7	0.214431	3980	196.2
0.846382	3990	8.8	47.37178	3990	89.5	0.406461	3990	134.9	0.215023	3990	196.7
0.849221	4000	8.9	47.84434	4000	89.8	0.409143	4000	135.1	0.215616	4000	197.2

4010-4500

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±	Ratio	Age: Number of years	Age: Error ±
0.852067	4010	8.9	48.32153	4010	90.0	0.411844	4010	135.3	0.216210	4010	197.7
0.854915	4020	8.9	48.80331	4020	90.2	0.414564	4020	135.6	0.216803	4020	198.2
0.857765	4030	8.9	49.28987	4030	90.4	0.417306	4030	135.8	0.217397	4030	198.7
0.860626	4040	9.0	49.78112	4040	90.7	0.420064	4040	136.0	0.217994	4040	199.2
0.863486	4050	9.0	50.27722	4050	90.9	0.422845	4050	136.2	0.218587	4050	199.6
0.866352	4060	9.0	50.77817	4060	91.1	0.425646	4060	136.5	0.219183	4060	200.1
0.869224	4070	9.0	51.28396	4070	91.3	0.428465	4070	136.7	0.219776	4070	200.6
0.872099	4080	9.0	51.79474	4080	91.6	0.431306	4080	136.9	0.220372	4080	201.1
0.874978	4090	9.1	52.31046	4090	91.8	0.434167	4090	137.2	0.220969	4090	201.6
0.877861	4100	9.1	52.83127	4100	92.0	0.437050	4100	137.4	0.221563	4100	202.1
0.880750	4110	9.1	53.35717	4110	92.2	0.439952	4110	137.6	0.222160	4110	202.6
0.883644	4120	9.1	53.88816	4120	92.5	0.442875	4120	137.8	0.222758	4120	203.1
0.886540	4130	9.2	54.42438	4130	92.7	0.445821	4130	138.1	0.223355	4130	203.6
0.889443	4140	9.2	54.96579	4140	92.9	0.448787	4140	138.3	0.223952	4140	204.1
0.892347	4150	9.2	55.51254	4150	93.1	0.451776	4150	138.5	0.224550	4150	204.6
0.895257	4160	9.2	56.06464	4160	93.4	0.454786	4160	138.7	0.225147	4160	205.1
0.898172	4170	9.2	56.62207	4170	93.6	0.457817	4170	139.0	0.225745	4170	205.6
0.901092	4180	9.3	57.18501	4180	93.8	0.460870	4180	139.2	0.226343	4180	206.1
0.904017	4190	9.3	57.75338	4190	94.0	0.463945	4190	139.4	0.226942	4190	206.5
0.906946	4200	9.3	58.32736	4200	94.2	0.467043	4200	139.6	0.227542	4200	207.0
0.909879	4210	9.3	58.90696	4210	94.5	0.470163	4210	139.9	0.228142	4210	207.5
0.912817	4220	9.4	59.49215	4220	94.7	0.473306	4220	140.1	0.228741	4220	208.0
0.915759	4230	9.4	60.08312	4230	94.9	0.476472	4230	140.3	0.229341	4230	208.5
0.918705	4240	9.4	60.67980	4240	95.1	0.479660	4240	140.6	0.229941	4240	209.0
0.921655	4250	9.4	61.28238	4250	95.4	0.482873	4250	140.8	0.230542	4250	209.5
0.924613	4260	9.4	61.89085	4260	95.6	0.486107	4260	141.0	0.231142	4260	210.0
0.927571	4270	9.5	62.50519	4270	95.8	0.489367	4270	141.2	0.231745	4270	210.5
0.930537	4280	9.5	63.12560	4280	96.0	0.492649	4280	141.5	0.232345	4280	211.0
0.933506	4290	9.5	63.75201	4290	96.3	0.495955	4290	141.7	0.232948	4290	211.5
0.936480	4300	9.5	64.38459	4300	96.5	0.499286	4300	141.9	0.233549	4300	212.0
0.939459	4310	9.6	65.02336	4310	96.7	0.502640	4310	142.2	0.234150	4310	212.5
0.942441	4320	9.6	65.66830	4320	96.9	0.506020	4320	142.4	0.234753	4320	213.0
0.945430	4330	9.6	66.31962	4330	97.2	0.509423	4330	142.6	0.235356	4330	213.5
0.948422	4340	9.6	66.97722	4340	97.4	0.512851	4340	142.8	0.235960	4340	213.9
0.951420	4350	9.6	67.64132	4350	97.6	0.516304	4350	143.1	0.236563	4350	214.4
0.954419	4360	9.7	68.31191	4360	97.8	0.519784	4360	143.3	0.237167	4360	214.9
0.957428	4370	9.7	68.98897	4370	98.1	0.523286	4370	143.5	0.237771	4370	215.4
0.960438	4380	9.7	69.67272	4380	98.3	0.526816	4380	143.8	0.238375	4380	215.9
0.963453	4390	9.7	70.36308	4390	98.5	0.530371	4390	144.0	0.238980	4390	216.4
0.966472	4400	9.8	71.06025	4400	98.7	0.533953	4400	144.2	0.239584	4400	216.9
0.969496	4410	9.8	71.76425	4410	99.0	0.537561	4410	144.4	0.240190	4410	217.4
0.972527	4420	9.8	72.47503	4420	99.2	0.541193	4420	144.7	0.240796	4420	217.9
0.975562	4430	9.8	73.19284	4430	99.4	0.544853	4430	144.9	0.241402	4430	218.4
0.978598	4440	9.8	73.91758	4440	99.6	0.548541	4440	145.1	0.242007	4440	218.9
0.981642	4450	9.9	74.64949	4450	99.9	0.552255	4450	145.4	0.242614	4450	219.4
0.984690	4460	9.9	75.38854	4460	100.1	0.555996	4460	145.6	0.243221	4460	219.9
0.987743	4470	9.9	76.13473	4470	100.3	0.559763	4470	145.8	0.243828	4470	220.4
0.990800	4480	9.9	76.88829	4480	100.5	0.563560	4480	146.0	0.244435	4480	220.8
0.993862	4490	10.0	77.64914	4490	100.8	0.567383	4490	146.3	0.245044	4490	221.3
0.996930	4500	10.0	78.41750	4500	101.0	0.571234	4500	146.5	0.245651	4500	221.8

4515-5250

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes

N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
	Age			Age			Age			Age	
Ratio	Number of years	Error ±	Ratio	Number of years	Error ±	Ratio	Number of years	Error ±	Ratio	Number of years	Error ±
1.001538	4515	10.0	79.5840	4515	101.3	0.577064	4515	146.9	0.246564	4515	222.6
1.006158	4530	10.0	80.7678	4530	101.7	0.582959	4530	147.2	0.247475	4530	223.3
1.010789	4545	10.1	81.9688	4545	102.0	0.588917	4545	147.5	0.248389	4545	224.0
1.015429	4560	10.1	83.1876	4560	102.3	0.594943	4560	147.9	0.249304	4560	224.8
1.020080	4575	10.1	84.4243	4575	102.7	0.601034	4575	148.2	0.250220	4575	225.5
1.024745	4590	10.2	85.6790	4590	103.0	0.607190	4590	148.6	0.251134	4590	226.3
1.029416	4605	10.2	86.9524	4605	103.3	0.613418	4605	148.9	0.252051	4605	227.0
1.034100	4620	10.2	88.2443	4620	103.7	0.619712	4620	149.3	0.252967	4620	227.7
1.038795	4635	10.3	89.5553	4635	104.0	0.626076	4635	149.6	0.253887	4635	228.5
1.043499	4650	10.3	90.8854	4650	104.3	0.632511	4650	150.0	0.254805	4650	229.2
1.048218	4665	10.3	92.2351	4665	104.7	0.639014	4665	150.3	0.255723	4665	230.0
1.052944	4680	10.4	93.6047	4680	105.0	0.645592	4680	150.7	0.256643	4680	230.7
1.057683	4695	10.4	94.9943	4695	105.4	0.652241	4695	151.0	0.257564	4695	231.4
1.062431	4710	10.4	96.4045	4710	105.7	0.658965	4710	151.3	0.258486	4710	232.2
1.067192	4725	10.5	97.8352	4725	106.0	0.665762	4725	151.7	0.259407	4725	232.9
1.071963	4740	10.5	99.2870	4740	106.4	0.672634	4740	152.0	0.260330	4740	233.7
1.076746	4755	10.5	100.7602	4755	106.7	0.679582	4755	152.4	0.261252	4755	234.4
1.081538	4770	10.6	102.2550	4770	107.0	0.686608	4770	152.7	0.262175	4770	235.1
1.086344	4785	10.6	103.7718	4785	107.4	0.693710	4785	153.1	0.263100	4785	235.9
1.091157	4800	10.6	105.3107	4800	107.7	0.700892	4800	153.4	0.264026	4800	236.6
1.095986	4815	10.7	106.8723	4815	108.1	0.708152	4815	153.8	0.264951	4815	237.4
1.100823	4830	10.7	108.4569	4830	108.4	0.715494	4830	154.1	0.265879	4830	238.1
1.105671	4845	10.7	110.0647	4845	108.7	0.722917	4845	154.5	0.266806	4845	238.8
1.110532	4860	10.8	111.6963	4860	109.1	0.730422	4860	154.8	0.267734	4860	239.6
1.115402	4875	10.8	113.3516	4875	109.4	0.738010	4875	155.2	0.268662	4875	240.3
1.120283	4890	10.8	115.0314	4890	109.7	0.745683	4890	155.5	0.269592	4890	241.1
1.125177	4905	10.9	116.7358	4905	110.1	0.753441	4905	155.9	0.270521	4905	241.8
1.130084	4920	10.9	118.4652	4920	110.4	0.761283	4920	156.2	0.271451	4920	242.5
1.135001	4935	10.9	120.2202	4935	110.7	0.769214	4935	156.6	0.272383	4935	243.3
1.139928	4950	11.0	122.0007	4950	111.1	0.777233	4950	156.9	0.273316	4950	244.0
1.144866	4965	11.0	123.8075	4965	111.4	0.785341	4965	157.3	0.274247	4965	244.8
1.149817	4980	11.0	125.6409	4980	111.8	0.793539	4980	157.6	0.275182	4980	245.5
1.154777	4995	11.1	127.5011	4995	112.1	0.801829	4995	158.0	0.276115	4995	246.2
1.159751	5010	11.1	129.3888	5010	112.4	0.810210	5010	158.3	0.277050	5010	247.0
1.164737	5025	11.1	131.3040	5025	112.8	0.818684	5025	158.7	0.277985	5025	247.7
1.169733	5040	11.2	133.2474	5040	113.1	0.827252	5040	159.0	0.278921	5040	248.5
1.174743	5055	11.2	135.2195	5055	113.4	0.835915	5055	159.4	0.279858	5055	249.2
1.179759	5070	11.2	137.2204	5070	113.8	0.844678	5070	159.7	0.280795	5070	249.9
1.184791	5085	11.3	139.2508	5085	114.1	0.853536	5085	160.1	0.281734	5085	250.7
1.189836	5100	11.3	141.3110	5100	114.4	0.862491	5100	160.4	0.282673	5100	251.4
1.194887	5115	11.3	143.4013	5115	114.8	0.871550	5115	160.8	0.283613	5115	252.1
1.199953	5130	11.4	145.5226	5130	115.1	0.880708	5130	161.1	0.284553	5130	252.9
1.205033	5145	11.4	147.6748	5145	115.5	0.889966	5145	161.5	0.285493	5145	253.6
1.210122	5160	11.4	149.8588	5160	115.8	0.899330	5160	161.8	0.286436	5160	254.4
1.215222	5175	11.5	152.0748	5175	116.1	0.908798	5175	162.2	0.287377	5175	255.1
1.220333	5190	11.5	154.3233	5190	116.5	0.918373	5190	162.5	0.288319	5190	255.8
1.225459	5205	11.5	156.6049	5205	116.8	0.928053	5205	162.9	0.289263	5205	256.6
1.230598	5220	11.6	158.9200	5220	117.1	0.937839	5220	163.2	0.290207	5220	257.3
1.235744	5235	11.6	161.2692	5235	117.5	0.947739	5235	163.6	0.291154	5235	258.1
1.240905	5250	11.6	163.6527	5250	117.8	0.957747	5250	163.9	0.292100	5250	258.8

5265-6000

Geologic age, in millions of years, calculated from the atomic ratios of indicated isotopes											
N_{206}/N_{238}			N_{207}/N_{235}			N_{207}/N_{206}			N_{208}/N_{232}		
Ratio	Age		Ratio	Age		Ratio	Age		Ratio	Age	
	Number of years	Error ±		Number of years	Error ±		Number of years	Error ±		Number of years	Error ±
1.246076	5265	11.7	166.0713	5265	118.1	0.967868	5265	164.3	0.293046	5265	259.5
1.251259	5280	11.7	168.5255	5280	118.5	0.978103	5280	164.6	0.293992	5280	260.3
1.256457	5295	11.7	171.0157	5295	118.8	0.988449	5295	165.0	0.294939	5295	261.0
1.261664	5310	11.8	173.5424	5310	119.2	0.998913	5310	165.3	0.295890	5310	261.8
1.266883	5325	11.8	176.1064	5325	119.5	1.009496	5325	165.7	0.296838	5325	262.5
1.272116	5340	11.8	178.7079	5340	119.8	1.020194	5340	166.0	0.297788	5340	263.2
1.277361	5355	11.9	181.3477	5355	120.2	1.031014	5355	166.4	0.298738	5355	264.0
1.282616	5370	11.9	184.0262	5370	120.5	1.041955	5370	166.7	0.299689	5370	264.7
1.287885	5385	11.9	186.7440	5385	120.8	1.053018	5385	167.1	0.300642	5385	265.5
1.293166	5400	12.0	189.5020	5400	121.2	1.064205	5400	167.4	0.301595	5400	266.2
1.298458	5415	12.0	192.3002	5415	121.5	1.075518	5415	167.8	0.302547	5415	266.9
1.303764	5430	12.0	195.1398	5430	121.9	1.086958	5430	168.1	0.303501	5430	267.7
1.309080	5445	12.1	198.0208	5445	122.2	1.098527	5445	168.5	0.304456	5445	268.4
1.314411	5460	12.1	200.9442	5460	122.5	1.110223	5460	168.9	0.305413	5460	269.2
1.319752	5475	12.1	203.9108	5475	122.9	1.122054	5475	169.2	0.306369	5475	269.9
1.325105	5490	12.2	206.9207	5490	123.2	1.134017	5490	169.6	0.307324	5490	270.6
1.330471	5505	12.2	209.9750	5505	123.5	1.146115	5505	169.9	0.308282	5505	271.4
1.335850	5520	12.2	213.0740	5520	123.9	1.158347	5520	170.3	0.309240	5520	272.1
1.341243	5535	12.3	216.2185	5535	124.2	1.170715	5535	170.6	0.310201	5535	272.9
1.346645	5550	12.3	219.4094	5550	124.5	1.183227	5550	171.0	0.311160	5550	273.6
1.352062	5565	12.3	222.6469	5565	124.9	1.195876	5565	171.3	0.312119	5565	274.3
1.357491	5580	12.4	225.9323	5580	125.2	1.208669	5580	171.7	0.313080	5580	275.1
1.362931	5595	12.4	229.2657	5595	125.6	1.221606	5595	172.0	0.314042	5595	275.8
1.368385	5610	12.4	232.6480	5610	125.9	1.234687	5610	172.4	0.315005	5610	276.5
1.373851	5625	12.5	236.0802	5625	126.2	1.247918	5625	172.7	0.315968	5625	277.3
1.379330	5640	12.5	239.5627	5640	126.6	1.261296	5640	173.1	0.316932	5640	278.0
1.384823	5655	12.5	243.0965	5655	126.9	1.274825	5655	173.5	0.317896	5655	278.8
1.390327	5670	12.6	246.6820	5670	127.2	1.288506	5670	173.8	0.318862	5670	279.5
1.395843	5685	12 6	250.3202	5685	127.6	1.302343	5685	174.2	0.319829	5685	280.2
1.401373	5700	12.6	254.0120	5700	127.9	1.316335	5700	174.5	0.320794	5700	281.0
1.406915	5715	12.7	257.7578	5715	128.2	1.330485	5715	174.9	0.321763	5715	281.7
1.412469	5730	12.7	261.5590	5730	128.6	1.344797	5730	175.2	0.322730	5730	282.5
1.418041	5745	12.7	265.4157	5745	128.9	1.359264	5745	175.6	0.323699	5745	283.2
1.423620	5760	12.8	269.3290	5760	129.3	1.373900	5760	175.9	0.324669	5760	283.9
1.429214	5775	12.8	273.3001	5775	129.6	1.388700	5775	176.3	0.325639	5775	284.7
1.434819	5790	12.8	277.3292	5790	129.9	1.403668	5790	176.7	0.326609	5790	285.4
1.440439	5805	12.9	281.4179	5805	130.3	1.418805	5805	177.0	0.327581	5805	286.2
1.446073	5820	12.9	285.5662	5820	130.6	1.434111	5820	177.4	0.328554	5820	286.9
1.451718	5835	12.9	289.7756	5835	130.9	1.449591	5835	177.7	0.329528	5835	287.6
1.457377	5850	13.0	294.0470	5850	131.3	1.465247	5850	178.1	0.330500	5850	288.4
1.463050	5865	13.0	298.3809	5865	131.6	1.481078	5865	178.4	0.331474	5865	289.1
1.468733	5880	13.0	302.7788	5880	131.9	1.497092	5880	178.8	0.332450	5880	289.9
1.474434	5895	13.1	307.2409	5895	132.3	1.513282	5895	179.1	0.333427	5895	290.6
1.480143	5910	13.1	311.7686	5910	132.6	1.529659	5910	179.5	0.334404	5910	291.3
1.485867	5925	13.1	316.3631	5925	133.0	1.546222	5925	179.9	0.335381	5925	292.1
1.491604	5940	13.2	321.0249	5940	133.3	1.562972	5940	180.2	0.336359	5940	292.8
1.497355	5955	13.2	325.7554	5955	133.6	1.579912	5955	180.6	0.337338	5955	293.6
1.503120	5970	13.2	330.5550	5970	134.0	1.597041	5970	180.9	0.338317	5970	294.3
1.508897	5985	13.3	335.4252	5985	134.3	1.614366	5985	181.3	0.339298	5985	295.0
1.514686	6000	13.3	340.3672	6000	134.6	1.631891	6000	181.6	0.340279	6000	295.8

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