

TABLE 7.6  
Some Estimates of the "Age of the Earth" Based on Lead-Isotope Data

Basis <sup>a</sup>	Age <sup>b</sup> (Ga)	Source
Calculated with constants in use at the time of publication		
Terrestrial Pb ores	3.23, 3.95	Gerling, 1942
Terrestrial Pb ores	3.00	Holmes, 1946
Terrestrial Pb ores	2.9 ± 0.3	Houtermans, 1946
Terrestrial Pb ores	3.35	Holmes, 1947a
Terrestrial Pb ores	3.29 ± 0.20	Bullard and Stanley, 1949
Terrestrial Pb ores	5.3	Alpher and Herman, 1951
Terrestrial Pb ores	3.50	Collins, Russell, and Farquhar, 1953
Meteorite, young Pb ore	4.5 ± 0.3	Houtermans, 1953
Meteorites, modern ocean sediment	4.55 ± 0.07	Patterson, 1956
CDT, conformable Pb ores	4.56	R. D. Russell and Farquhar, 1960
Meteorites, modern ocean sediment, young Pb ores	4.55 ± 0.08	Murthy and Patterson, 1962
CDT, conformable Pb ores	4.53 ± 0.03	Ostic, Russell, and Reynolds, 1963
CDT, conformable Pb ores	4.54 ± 0.02	Ostic, Russell, and Reynolds, 1963
CDT, conformable Pb ores	4.56 ± 0.02	R. D. Russell and Reynolds, 1965
Oceanic basalts, U-Pb concordia, two-stage model	4.53 ± 0.04	Ulrych, 1967
CDT, conformable Pb ores	4.55	Kanasewich, 1968
CDT, conformable Pb ores	4.58	Cooper, Reynolds, and Richards, 1969
CDT, Manitouwadge Pb ore (2.7 Ga)	<u>4.75<sup>c</sup></u>	Tilton and Steiger, 1969
CDT, conformable Pb ores, linear increase in $\mu$	4.66	Sinha and Tilton, 1973
Calculated with constants now in use (Table 3.1)		
CDT, conformable Pb ores	4.43	Doe and Stacey, 1974
CDT, conformable Pb ores, two-stage model with increase in $\mu$ at 3.70 Ga	4.57	J. S. Stacey and Kramers, 1975
CDT, conformable Pb ores, linear increase in $\mu$	4.509	Cumming and Richards, 1975
CDT, Amitsoq gneiss feldspar (3.6 Ga)	4.47 ± 0.05	Gancarz and Wasserburg, 1977
As above, correcting for effect of metamorphism at 2.7 Ga	<u>4.53</u>	Gancarz and Wasserburg, 1977
CDT, Big Stubby Pb ore (3.5 Ga)	<u>4.52</u>	Pidgeon, 1978c
CDT, galenas and sulfides from Timmons, Ontario (2.6 Ga)	<u>4.56 ± 0.03</u>	Bugnon, Tera, and Brown, 1979
CDT, 20 rock units, two-stage model	4.49 ± 0.17	Manhes et al., 1979
CDT, congruency point of four oldest conformable galenas (2.7–3.4 Ga)	<u>4.53</u>	Tera, 1980