

# Age of the earth

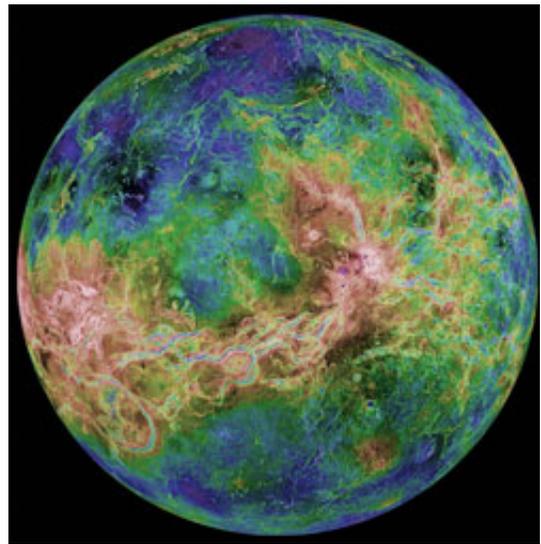
## 101 evidences for a young age of the earth and the universe

[Don Batten](#)

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No scientific method can *prove* the age of the earth and the universe, and that includes the ones we have listed here. Although age indicators are called 'clocks' they aren't, because all ages result from calculations that necessarily involve making assumptions about the past. Always the starting time of the 'clock' has to be assumed as well as the way in which the speed of the clock has varied over time. Further, it has to be assumed that the clock was never disturbed.

There is no independent natural clock against which those assumptions can be tested. For example, the amount of cratering on the moon, based on currently observed cratering rates, would suggest that the moon is quite old. However, to draw this conclusion we have to assume that the rate of cratering has been the same in the past as it is now. And there are now good reasons for thinking that it might have



There are many categories of evidence for the age of the earth and the cosmos that indicate they are much younger than is generally asserted today.

been quite intense in the past, in which case the craters do not indicate an old age at all (see below).

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Ages of millions of years are all calculated by assuming the rates of change of processes in the past were the same as we observe today—called the principle of uniformitarianism. If the age calculated from such assumptions disagrees with what they think the age should be, they conclude that their assumptions did not apply in this case, and adjust them accordingly. If the calculated result gives an acceptable age, the investigators publish it.

Examples of *young* ages listed here are also obtained by applying the same principle of uniformitarianism. Long-age proponents will dismiss this sort of evidence for a young age of the earth by arguing that the assumptions about the past do not apply in these cases. In other words, age is not really a matter of scientific observation but an argument about our assumptions about the unobserved past.

The assumptions behind the evidences presented here cannot be proved, but the fact that such a wide range of different phenomena all *suggest* much younger ages than are currently generally accepted, provides a strong case for questioning those accepted ages (currently 13.77 billion years for the universe and 4.543 billion years for the solar system).

Also, a number of the evidences, rather than giving any estimate of

age, challenge the assumption of slow-and-gradual uniformitarianism, upon which all deep-time dating methods depend.

Many of these indicators for younger ages were discovered when creationist scientists started researching things that were supposed to 'prove' long ages. The lesson here is clear: when the evolutionists throw up some new challenge to the Bible's timeline, don't fret over it. Sooner or later that supposed evidence will be turned on its head and will even be added to this list of evidences for a younger age of the earth. On the other hand, some of the evidences listed here might turn out to be ill-founded with further research and will need to be modified. Such is the nature of science, especially historical science, because we cannot do experiments on past events (see ["It's not science"](#)).

Science is based on observation, and the only reliable means of telling the age of anything is by the testimony of a reliable witness who observed the events. The Bible claims to be the communication of the only One who witnessed the events of Creation: the Creator himself. As such, the Bible is the only reliable means of knowing the age of the earth and the cosmos. See [The Universe's Birth Certificate](#) and [Biblical chronogenealogies](#) (technical). In the end we believe that the Bible will

*When the evolutionists throw up some new challenge to the Bible's timeline, don't fret over it.*

*Sooner or later that supposed evidence will be turned on its head and will even be added to this list of evidences for a young age of the earth.*

stand vindicated and those who deny its testimony will be confounded.

## Biological evidence for a young age of the earth

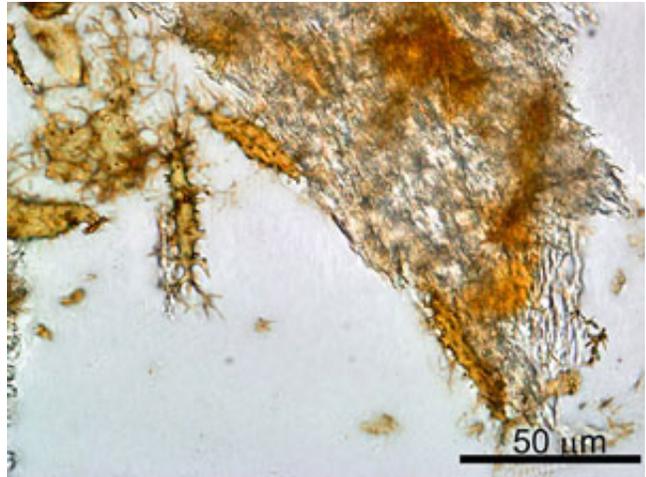
1. [DNA in 'ancient' fossils](#). DNA extracted from bacteria that are supposed to be 425 million years old brings into question that age, because DNA could not last more than thousands of years.

2. [Lazarus bacteria](#)—bacteria revived from salt inclusions supposedly 250 million years old, suggest the salt is not millions of years old. See also [Salty saga](#).

3. The decay in the human genome due to multiple slightly deleterious mutations each generation is consistent with an origin several thousand years ago. Sanford, J., *Genetic entropy and the mystery of the genome*, Ivan Press, 2005; see [review of the book](#) and the interview with the author in [Creation 30\(4\):45–47](#), September 2008. This has been confirmed by realistic modelling of population genetics, which shows that genomes are young, in the order of thousands of years. See Sanford, J., Baumgardner, J., Brewer, W., Gibson, P. and Remine, W., [Mendel's Accountant: A biologically realistic forward-time population genetics program](#), *SCPE* 8(2):147–165, 2007.

4. The data for '[mitochondrial Eve](#)' are consistent with a common origin of all humans several thousand years ago.

Image: Dr Mary Schweitzer



The finding of pliable blood vessels, blood cells and proteins in dinosaur bone is consistent with an age of thousands of years for the fossils, not the 65+ million years claimed by the paleontologists.

5. Very limited variation in the DNA sequence on the human [Y-chromosome around the world](#) is consistent with a recent origin of mankind, thousands not millions of years.
6. Many fossil bones 'dated' at many millions of years old are hardly mineralized, if at all. This contradicts the widely believed old age of the earth. See, for example, [Dinosaur bones just how old are they really?](#) Tubes of marine worms, 'dated' at 550 million years old, that are soft and flexible and apparently composed of the original organic compounds hold the record ([original paper](#)).
7. [Dinosaur blood cells, blood vessels, proteins \(hemoglobin, osteocalcin, collagen, histones\)](#) and [DNA](#) are not consistent with their supposed more than 65-million-year age, but make more sense if the remains are thousands of years old (at most).
8. Lack of 50:50 [racemization of amino acids in fossils](#) 'dated' at millions of years old, whereas complete racemization would occur in thousands of years.
9. [Living fossils](#)—jellyfish, graptolites, coelacanth, stromatolites, Wollemi pine and hundreds more. That many hundreds of species could remain so unchanged, for even up to billions of years in the case of stromatolites, speaks against the millions and billions of years being real.
10. Discontinuous fossil sequences. E.g. [Coelacanth](#), [Wollemi pine](#) and various 'index' fossils, which are present in supposedly ancient strata, missing in strata representing many millions of years since, but still living today. Such discontinuities speak against the interpretation of the rock formations as vast geological ages—how could Coelacanths have avoided being fossilized for 65 million years, for example? See [The 'Lazarus effect': rodent 'resurrection'!](#)
11. The [ages of the world's oldest living organisms, trees](#), are

consistent with an age of the earth of thousands of years.

## Geological evidence for a young age of the earth

12. [Scarcity of plant fossils in many formations containing abundant animal / herbivore fossils](#). E.g., the Morrison Formation (Jurassic) in Montana. See *Origins* 21(1):51–56, 1994. Also the Coconino sandstone in the Grand Canyon has many track-ways (animals), but is almost devoid of plants. Implication: these rocks are *not* ecosystems of an 'era'

Photo by Don Batten



Radical folding at Eastern Beach, near Auckland in New Zealand, indicates that the sediments were soft and pliable when folded, inconsistent with a long time for their formation. Such folding can be seen world-wide and is consistent with a young age of the earth.

- buried *in situ* over eons of time as evolutionists claim. The evidence is more consistent with catastrophic transport than burial during the massive global Flood of Noah's day. This eliminates supposed evidence for millions of years.
13. Thick, tightly bent strata without sign of melting or fracturing. E.g. the [Kaibab upwarp](#) in Grand Canyon indicates rapid folding before the sediments had time to solidify (the sand grains were not elongated under stress as would be expected if the rock had hardened). This wipes out hundreds of millions of years of time and is consistent with extremely rapid formation during the biblical Flood. See [Warped earth](#) (written by a geophysicist).
14. Polystrate fossils—tree trunks in coal (*Araucaria* spp. king billy pines, celery top pines, in [southern hemisphere coal](#)). There are

also polystrate tree trunks in the [Yellowstone fossilized forests](#) and [Joggins, Nova Scotia](#) and in many other places. Polystrate fossilized lycopod trunks occur in [northern hemisphere coal](#), again indicating rapid burial / formation of the organic material that became coal.

15. Experiments show that with conditions mimicking natural forces, [coal forms quickly](#); in weeks for brown coal to months for black coal. It does not need millions of years. Furthermore, long time periods could be an impediment to coal formation because of the increased likelihood of the permineralization of the wood, which would hinder coalification.
16. Experiments show that with conditions mimicking natural forces, [oil forms quickly](#); it does not need millions of years, consistent with an age of thousands of years.
17. Experiments show that with conditions mimicking natural forces, [opals form quickly](#), in a matter of weeks, not millions of years, as had been claimed.
18. [Evidence for rapid, catastrophic formation of coal beds](#) speaks against the hundreds of millions of years normally claimed for this, including Z-shaped seams that point to a single depositional event producing these layers.
19. Evidence for [rapid petrification of wood](#) speaks against the need for long periods of time and is consistent with an age of thousands of years.
20. Clastic dykes and pipes (intrusion of sediment through overlying sedimentary rock) show that the overlying rock strata were still soft when they formed. This drastically compresses the time scale for the deposition of the penetrated rock strata. See, Walker, T., [Fluidisation pipes: Evidence of large-scale watery catastrophe](#),

*Journal of Creation (TJ)* **14**(3):8–9, 2000.

21. Para(pseudo)conformities—where one rock stratum sits on top of another rock stratum but with supposedly millions of years of geological time missing, yet the contact plane lacks any significant erosion; that is, it is a 'flat gap'. E.g. Coconino sandstone / Hermit shale in the Grand Canyon (supposedly a 10 million year gap in time). The thick Schnebly Hill Formation (sandstone) lies *between* the Coconino and Hermit in central Arizona. See Austin, S.A., *Grand Canyon, monument to catastrophe*, ICR, Santee, CA, USA, 1994 and Snelling, A., [The case of the 'missing' geologic time](#), *Creation* **14**(3):31–35, 1992.
22. The presence of ephemeral markings (raindrop marks, ripple marks, animal tracks) at the boundaries of paraconformities show that the upper rock layer has been deposited immediately after the lower one, eliminating many millions of years of 'gap' time. See references in Para(pseudo)conformities.
23. Inter-tonguing of adjacent strata that are supposedly separated by millions of years also eliminates many millions of years of supposed geologic time. [The case of the 'missing' geologic time](#); Mississippian and Cambrian strata interbedding: 200 million years hiatus in question, *CRSQ* **23**(4):160–167.
24. The [lack of bioturbation](#) (worm holes, root growth) at paraconformities (flat gaps) reinforces the lack of time involved where evolutionary geologists insert many millions of years to force the rocks to conform with the 'given' timescale of billions of years.
25. The almost complete lack of clearly recognizable soil layers anywhere in the geologic column. Geologists do claim to have found lots of 'fossil' soils (paleosols), but these are quite different

to soils today, lacking the features that characterize soil horizons; features that are used in classifying different soils. Every one that has been investigated thoroughly proves to lack the characteristics of proper soil. If 'deep time' were correct, with hundreds of millions of years of abundant life on the earth, there should have been ample opportunities many times over for soil formation. See Klevberg, P. and Bandy, R., *CRSQ* **39**:252–68; *CRSQ* **40**:99–116, 2003; Walker, T., [Paleosols: digging deeper buries 'challenge' to Flood geology](#), *Journal of Creation* **17**(3):28–34, 2003.

26. Limited extent of unconformities (unconformity: a surface of erosion that separates younger strata from older rocks). Surfaces erode quickly (e.g. Badlands, South Dakota), but there are very limited unconformities. There is the 'great unconformity' at the base of the Grand Canyon, but otherwise there are supposedly ~300 million years of strata deposited on top without any significant unconformity. This is again consistent with a much shorter time of deposition of these strata. See Para(pseudo)conformities.
27. The amount of salt in the [world's oldest lake contradicts its supposed age](#) and suggests an age more consistent with its formation after Noah's Flood, which is consistent with a young age of the earth.
28. The discovery that underwater landslides ('turbidity currents') travelling at some 50 km/h can create huge areas of sediment in a matter of hours (Press, F., and Siever, R., *Earth*, 4<sup>th</sup> ed., Freeman & Co., NY, USA, 1986). Sediments thought to have formed slowly over eons of time are now becoming recognized as having formed extremely rapidly. See for example, [A classic tillite reclassified as a](#)

[submarine debris flow](#) (Technical).

29. Flume tank research with sediment of different particle sizes show that layered rock strata that were thought to have formed over huge periods of time in lake beds actually formed very quickly. Even the precise layer thicknesses of rocks were duplicated after they were ground into their sedimentary particles and run through the flume. See [Experiments in stratification of heterogeneous sand mixtures](#), [Sedimentation Experiments: Nature finally catches up!](#) and [Sandy Stripes Do many layers mean many years?](#)
30. Observed examples of rapid canyon formation; for example, [Providence Canyon](#) in southwest Georgia, [Burlingame Canyon](#) near Walla Walla, Washington, and [Lower Loowit Canyon](#) near Mount St Helens. The rapidity of the formation of these canyons, which look similar to other canyons that supposedly took many millions of years to form, brings into question the supposed age of the canyons that no one saw form.
31. Observed examples of rapid island formation and maturation, such as [Surtsey](#), which confound the notion that such islands take long periods of time to form. See also, [Tulumán—A Test of Time](#).
32. Rate of [erosion of coastlines](#), horizontally. E.g. Beachy Head, UK, loses a metre of coast to the sea every six years.
33. Rate of [erosion of continents vertically](#) is not consistent with the assumed old age of the earth. See *Creation* **22**(2):18–21.
34. Existence of significant [flat plateaux that are 'dated' at many millions of years old](#) ('elevated paleoplains'). An example is [Kangaroo Island](#) (Australia). C.R. Twidale, a famous Australian physical geographer wrote: "the survival of these paleoforms is in some degree an embarrassment to all the commonly accepted models of landscape development." Twidale, C.R. On the survival

of paleoforms, *American Journal of Science* **5**(276):77–95, 1976 (quote on p. 81). See Austin, S.A., [Did landscapes evolve?](#) *Impact* **118**, April 1983.

35. The recent and almost simultaneous origin of all the high mountain ranges around the world—including the Himalayas, the Alps, the Andes, and the Rockies—which have undergone most of the uplift to their present elevations beginning ‘five million’ years ago, whereas mountain building processes have supposedly been around for up to billions of years. See Baumgardner, J., [Recent uplift of today’s mountains](#). *Impact* **381**, March 2005.
36. Water gaps. These are gorges cut through mountain ranges where rivers run. They occur worldwide and are part of what evolutionary geologists call ‘discordant drainage systems’. They are ‘discordant’ because they don’t fit the deep time belief system. The evidence fits them forming rapidly in a much younger age framework where the gorges were cut in the recessive stage / dispersive phase of the global Flood of Noah’s day. See Oard, M., [Do rivers erode through mountains?](#) Water gaps are strong evidence for the Genesis Flood, *Creation* **29**(3):18–23, 2007.
37. [Erosion at Niagara Falls](#) and other such places is consistent with just a few thousand years since the biblical Flood. However, much of the Niagara Gorge likely formed very rapidly with the catastrophic drainage of glacial Lake Agassiz; see: [Climate change, Niagara and catastrophe](#).
38. River delta growth rate is consistent with thousands of years since the biblical Flood, not vast periods of time. The argument goes



Erosion rates at places like Niagara Falls are consistent with a time frame of several thousand years since Noah’s Flood.

back to Mark Twain. E.g. 1. Mississippi—*Creation Research Quarterly (CRSQ)* **9**:96–114, 1992; *CRSQ* **14**:77; *CRSQ* **25**:121–123. E.g. 2 Tigris–Euphrates: *CRSQ* **14**:87, 1977.

39. Underfit streams. River valleys are too large for the streams they contain. Dury speaks of the “continent-wide distribution of underfit streams”. Using channel meander characteristics, Dury concluded that past streams frequently had 20–60 times their current discharge. This means that the river valleys would have been carved very quickly, not slowly over eons of time. See Austin, S.A., [Did landscapes evolve?](#) *Impact* 118, 1983.
40. Amount of [salt in the sea](#). Even ignoring the effect of the biblical Flood and assuming zero starting salinity and all rates of input and removal so as to maximize the time taken to accumulate all the salt, the *maximum* age of the oceans, 62 million years, is less than 1/50 of the age evolutionists claim for the oceans. This suggests that the age of the earth is radically less also.
41. The [amount of sediment on the sea floors](#) at current rates of land erosion would accumulate in just 12 million years; a blink of the eye compared to the supposed age of much of the ocean floor of up to 3 billion years. Furthermore, long-age geologists reckon that *higher* erosion rates applied in the past, which shortens the time frame. From a biblical point of view, at the end of Noah’s Flood lots of sediment would have been added to the sea with the water coming off the unconsolidated land, making the amount of sediment perfectly consistent with a history of thousands of years.
42. Iron-manganese nodules (IMN) on the sea floors. The measured rates of growth of these nodules indicates an age of only thousands of years. Lalomov, A.V., 2006. Mineral deposits as an example of geological rates. *CRSQ* **44**(1):64–66.

43. The age of placer deposits (concentrations of heavy metals such as tin in modern sediments and consolidated sedimentary rocks). The measured rates of deposition indicate an age of thousands of years, not the assumed millions. See Lalomov, A.V., and Tabolitch, S.E., 2000. [Age determination of coastal submarine placer, Val'cumey, northern Siberia](#). *Journal of Creation (TJ)* **14**(3):83–90.
44. Pressure in oil / gas wells indicate the recent origin of the oil and gas. If they were many millions of years old we would expect the pressures to equilibrate, even in low permeability rocks. "Experts in petroleum prospecting note the impossibility of creating an effective model given long and slow oil generation over millions of years (Petukhov, 2004). In their opinion, if models demand the standard multimillion-years geochronological scale, the best exploration strategy is to drill wells on a random grid." —Lalomov, A.V., 2007. Mineral deposits as an example of geological rates. *CRSQ* **44**(1):64–66.
45. Direct evidence that [oil is forming today](#) in the Guaymas Basin and in [Bass Strait](#) is consistent with a young earth (although not *necessary* for a young earth).
46. [Rapid reversals in paleomagnetism](#) undermine use of paleomagnetism in long ages dating of rocks and speak of rapid processes, compressing the long-age time scale enormously.
47. The pattern of magnetization in the magnetic stripes where magma is welling up at the mid-ocean trenches argues against the belief that reversals take many thousands of years and rather indicates rapid sea-floor spreading as well as rapid magnetic reversals, consistent with a young earth (Humphreys, D.R., Has the Earth's magnetic field ever flipped? *Creation Research Quarterly* **25**(3):130–137, 1988).

48. [Measured rates of stalactite and stalagmite growth](#) in limestone caves are consistent with a young age of several thousand years. See also [articles on limestone cave formation](#).

49. The [decay of the earth's magnetic field](#). Exponential decay is evident from measurements and is consistent with theory of free decay since creation, suggesting an age of the earth of only thousands of years. For further evidence that it

follows exponential decay with a time constant of 1611 years ( $\pm 10$ ) see: Humphreys, R., [Earth's magnetic field is decaying steadily— with a little rhythm](#), *CRSQ* **47**(3):193–201; 2011.

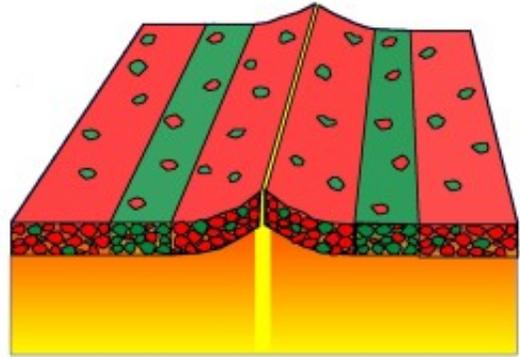
50. Excess heat flow from the earth is consistent with a young age rather than billions of years, even taking into account heat from radioactive decay. See Woodmorappe, J., 1999. [Lord Kelvin revisited on the young age of the earth](#), *Journal of Creation (TJ)* **13**(1):14, 1999.

## **Radiometric dating and the age of the earth**

51. Carbon-14 in [coal](#) suggests ages of thousands of years and clearly contradict ages of millions of years.

52. Carbon-14 in [oil](#) again suggests ages of thousands, not millions, of years.

53. Carbon-14 in [fossil wood](#) also indicates ages of thousands, not



Along the mid-ocean ridges, the detailed pattern of magnetic polarisation, with islands of differing polarity, speaks of rapid changes in direction of Earth's magnetic field because of the rate of cooling of the lava. This is consistent with a young Earth.

millions, of years.

54. Carbon-14 in [diamonds](#) suggests ages of thousands, not billions, of years. Note that attempts to explain away carbon-14 in diamonds, coal, etc., such as by neutrons from uranium decay converting nitrogen to C-14 do not work. See: [Objections](#).
55. Incongruent radioisotope dates [using the same technique](#) argue against trusting the dating methods that give millions of years.
56. Incongruent radioisotope dates [using different techniques](#) argue against trusting the dating methods that give millions of years (or billions of years for the age of the earth).
57. Demonstrably [non-radiogenic 'isochrons' of radioactive](#) and non-radioactive elements undermine the assumptions behind isochron 'dating' that gives billions of years. ['False' isochrons](#) are common.
58. Different faces of the same zircon crystal and [different zircons from the same rock](#) giving different 'ages' undermine all 'dates' obtained from zircons.
59. Evidence of a period of [rapid radioactive decay in the recent past](#) (lead and helium concentrations and diffusion rates in zircons) point to a young earth explanation.
60. The amount of helium, a product of alpha-decay of radioactive elements, retained in zircons in granite is consistent with an age of  $6,000 \pm 2000$  years, not the supposed billions of years. See: Humphreys, D.R., Young helium diffusion age of zircons supports accelerated nuclear decay, Chapter 2 (pages 25–100) in: Vardiman, Snelling, and Chaffin (eds.), [Radioisotopes and the Age of the Earth: Results of a Young Earth Creationist Research Initiative, Volume II](#), Institute for Creation Research and Creation Research Society, 2005.
61. Lead in zircons from deep drill cores vs. shallow ones. They are

similar, but there should be less in the deep ones due to the higher heat causing higher diffusion rates over the usual long ages supposed. If the ages are thousands of years, there would not be expected to be much difference, which is the case (Gentry, R., *et al.*, Differential lead retention in zircons: Implications for nuclear waste containment, *Science* **216**(4543):296–298, 1982; DOI: 10.1126/science.216.4543.296).

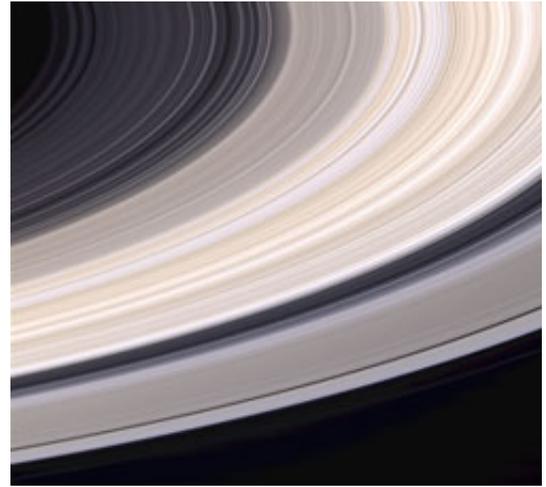
62. Pleochroic halos produced in granite by concentrated specks of short half-life elements such as polonium suggest a period of rapid nuclear decay of the long half-life parent isotopes during the formation of the rocks and rapid formation of the rocks, both of which speak against the usual ideas of geological deep time and a vast age of the earth. See, [Radiohalos: Startling evidence of catastrophic geologic processes](#), *Creation* **28**(2):46–50, 2006.
63. [Squashed pleochroic halos](#) (radiohalos) formed from decay of polonium, a very short half-life element, in coalified wood from several geological eras suggest rapid formation of all the layers about the same time, in the same process, consistent with the biblical 'young' earth model rather than the millions of years *claimed* for these events.
64. [Australia's 'Burning Mountain'](#) speaks against radiometric dating and the millions of years belief system (according to radiometric dating of the lava intrusion that set the coal alight, the coal in the burning mountain has been burning for ~40 million years, but clearly this is not feasible).

## **Astronomical evidence for a young(er) age of the earth and the universe**

65. Evidence of recent volcanic

Photo by NASA

activity on Earth's moon is inconsistent with its supposed vast age because it should have long since cooled if it were billions of years old. See: [Transient lunar phenomena: a permanent problem for evolutionary models of Moon formation](#) and Walker, T., and Catchpoole, D., [Lunar volcanoes rock long-age timeframe](#), *Creation* **31**(3):18, 2009. See further corroboration: "At Long Last, Moon's Core 'Seen'"; <http://news.sciencemag.org/sciencenow/2011/01/at-long-last-moons-core-seen.html>



Saturn's rings are increasingly recognized as being relatively short-lived rather than essentially changeless over millions of years.

66. [Recession of the moon from the earth](#). Tidal friction causes the moon to recede from the earth at 4 cm per year. It would have been greater in the past when the moon and earth were closer together. The moon and earth would have been in catastrophic proximity (Roche limit) at less than a quarter of their supposed age.
67. The moon's former magnetic field. Rocks sampled from the moon's crust have residual magnetism that indicates that the moon once had a magnetic field much stronger than earth's magnetic field today. No plausible 'dynamo' hypothesis could account for even a weak magnetic field, let alone a strong one that could leave such residual magnetism in a billions-of-years time-frame. The evidence is much more consistent with a recent creation of the moon and its magnetic field and free decay of the

magnetic field in the 6,000 years since then. Humphreys, D.R., [The moon's former magnetic field—still a huge problem for evolutionists](#), *Journal of Creation* **26**(1):5–6, 2012.

68. Ghost craters on the moon's *maria* (singular *mare*: dark 'seas' formed from massive lava flows) are a problem for the assumed long ages. Enormous impacts evidently caused the large craters and lava flows within those craters, and this lava partly buried other, smaller impact craters within the larger craters, leaving 'ghosts'. But this means that the smaller impacts can't have been too long after the huge ones, otherwise the lava would have flowed into the larger craters before the smaller impacts. This suggests a very narrow time frame for all this cratering, and by implication the other cratered bodies of our solar system. They suggest that the cratering occurred quite quickly. See Fryman, H., [Ghost craters in the sky](#), *Creation Matters* **4**(1):6, 1999; [A biblically based cratering theory](#) (Faulkner); [Lunar volcanoes rock long-age timeframe](#).
69. The presence of a significant [magnetic field around Mercury](#) is not consistent with its supposed age of billions of years. A planet so small should have cooled down enough so any liquid core would solidify, preventing the evolutionists' 'dynamo' mechanism. See also, Humphreys, D.R., [Mercury's magnetic field is young!](#) *Journal of Creation* **22**(3):8–9, 2008.
70. The outer planets Uranus and Neptune have magnetic fields, but they should be long 'dead' if they are as old as claimed according to evolutionary long-age beliefs. Assuming a solar system age of thousands of years, physicist Russell Humphreys successfully predicted the strengths of [the magnetic fields of Uranus and Neptune](#).
71. Jupiter's larger moons, [Ganymede, Io, and Europa, have magnetic](#)

[fields](#), which they should not have if they were billions of years old, because they have solid cores and so no dynamo could generate the magnetic fields. This is consistent with creationist Humphreys' predictions. See also, Spencer, W., [Ganymede: the surprisingly magnetic moon](#), *Journal of Creation* **23**(1):8–9, 2009.

72. Volcanically active moons of Jupiter ([Io](#)) are consistent with youthfulness (Galileo mission recorded 80 active volcanoes). If Io had been erupting over 4.5 billion years at even 10% of its current rate, it would have erupted its entire mass 40 times. Io looks like a young moon and does not fit with the supposed billions of year's age for the solar system. Gravitational tugging from Jupiter and other moons accounts for only some of the excess heat produced.
73. The surface of Jupiter's moon Europa. Studies of the few craters indicated that up to 95% of small craters, and many medium-sized ones, are formed from debris thrown up by larger impacts. This means that there have been far fewer impacts than had been thought in the solar system and the age of other objects in the solar system, derived from cratering levels, have to be reduced drastically (see Psarris, Spike, [What you aren't being told about astronomy, volume 1: Our created solar system DVD](#), available from [CMI](#)).
74. [Methane on Titan](#) (Saturn's largest moon)—the methane should all be gone because of UV-induced breakdown. The products of photolysis should also have produced a huge sea of heavier hydrocarbons such as ethane. An [Astrobiology item](#) titled "The missing methane" cited one of the Cassini researchers, Jonathan Lunine, as saying, "If the chemistry on Titan has gone on in steady-state over the age of the solar system, then we would predict that a layer of ethane 300 to 600 meters thick should be

deposited on the surface." No such sea is seen, which is consistent with Titan being a tiny fraction of the claimed age of the solar system (needless to say, Lunine does not accept the obvious young age implications of these observations, so he speculates, for example, that there must be some unknown source of methane).

75. The rate of change / disappearance of Saturn's rings is [inconsistent with their supposed vast age](#); they speak of youthfulness.
76. Enceladus, a moon of Saturn, looks young. Astronomers working in the 'billions of years' mindset thought that this moon would be cold and dead, but it is a very active moon, spewing massive jets of water vapour and icy particles into space at supersonic speeds, consistent with a much younger age. Calculations show that the interior would have frozen solid after 30 million years (less than 1% of its supposed age); tidal friction from Saturn does not explain its youthful activity (Psarris, Spike, [What you aren't being told about astronomy, volume 1: Our created solar system DVD](#); Walker, T., [Enceladus: Saturn's sprightly moon looks young](#), *Creation* **31**(3):54–55, 2009).
77. Miranda, a small moon of Uranus, should have been long since dead, if billions of years old, but its extreme surface features suggest otherwise. See [Revelations in the solar system](#).
78. Neptune should be long since 'cold', lacking strong wind movement if it were billions of years old, yet Voyager II in 1989 found it to be otherwise—it has the fastest winds in the entire solar system. This observation is consistent with a young age, not billions of years. See [Neptune: monument to creation](#).
79. Neptune's rings have thick regions and thin regions. This

unevenness means they cannot be billions of years old, since collisions of the ring objects would eventually make the ring very uniform. [Revelations in the solar system](#).

80. Young surface age of Neptune's moon, Triton—less than 10 million years, even with evolutionary assumptions on rates of impacts (see Schenk, P.M., and Zahnle, K. [On the Negligible Surface Age of Triton](#), *Icarus* **192**(1):135–149, 2007. .
81. Uranus and Neptune both have magnetic fields significantly off-axis, which is an unstable situation. When this was discovered with Uranus, it was assumed by evolutionary astronomers that Uranus must have just happened to be going through a magnetic field reversal. However, when a similar thing was found with Neptune, this *AD hoc* explanation was upset. [These observations are consistent with ages of thousands of years](#) rather than billions.
82. The orbit of Pluto is chaotic on a 20 million year time scale and affects the rest of the solar system, which would also become unstable on that time scale, suggesting that it must be much younger. (See: Rothman, T., God takes a nap, *Scientific American* **259**(4):20, 1988).
83. The existence of short-period comets (orbital period less than 200 years), e.g. Halley, which have a life of less than 20,000 years, is consistent with an age of the solar system of less than 10,000 years. *ad hoc* hypotheses have to be invented to circumvent this evidence (see [Kuiper Belt](#)). See [Comets and the age of the solar system](#).
84. "Near-infrared spectra of the Kuiper Belt Object, Quaoar and the suspected Kuiper Belt Object, Charon, indicate both contain crystalline water ice and ammonia hydrate. This watery material cannot be much older than 10 million years, which is consistent

with a young solar system, not one that is 5 billion years old.” See: [The ‘waters above’](#).

85. Lifetime of long-period comets (orbital period greater than 200 years) that are sun-grazing comets or others like Hyakutake or Hale–Bopp means they could not have originated with the solar system 4.5 billion years ago. However, their existence is consistent with a young age for the solar system. Again an *ad hoc* [Oort Cloud](#) was invented to try to account for these comets still being present after billions of years. See, [Comets and the age of the solar system](#).
86. The maximum expected lifetime of near-earth asteroids is of the order of one million years, after which they collide with the sun. And the Yarkovsky effect moves main belt asteroids into near-earth orbits faster than had been thought. This brings into question the origin of asteroids with the formation of the solar system (the usual scenario), or the solar system is much younger than the 4.5 billion years claimed. Henry, J., [The asteroid belt: indications of its youth](#), *Creation Matters* **11**(2):2, 2006.
87. The lifetime of binary asteroids—where a tiny asteroid ‘moon’ orbits a larger asteroid—in the main belt (they represent about 15–17% of the total): tidal effects limit the life of such binary systems to about 100,000 years. The difficulties in conceiving of any scenario for getting binaries to form in such numbers to keep up the population, led some astronomers to doubt their existence, but space probes confirmed it (Henry, J., [The asteroid belt: indications of its youth](#), *Creation Matters* **11**(2):2, 2006).
88. The observed [rapid rate of change in stars](#) contradicts the vast ages assigned to stellar evolution. For example, Sakurai’s Object in Sagittarius: in 1994, this star was most likely a white dwarf in the

centre of a planetary nebula; by 1997 it had grown to a bright yellow giant, about 80 times wider than the sun (*Astronomy & Astrophysics* **321**:L17, 1997). In 1998, it had expanded even further, to a red supergiant 150 times wider than the sun. But then it shrank just as quickly; by 2002 the star itself was invisible even to the most powerful optical telescopes, although it is detectable in the infrared, which shines through the dust (Muir, H., 2003, Back from the dead, *New Scientist* **177**(2384):28–31).

89. The faint young sun paradox. According to stellar evolution theory, as the sun's core transforms from hydrogen to helium by means of nuclear fusion, the mean molecular weight increases, which would compress the sun's core increasing fusion rate. The upshot is that over several billion years, the sun ought to have brightened 40% since its formation and 25% since the appearance of life on earth. For the latter, this translates into a 16–18 °C temperature increase on the earth. The current average temperature is 15 °C, so the earth ought to have had a -2 °C or so temperature when life appeared. See: Faulkner, D., [The young faint Sun paradox and the age of the solar system](#), *Journal of Creation (TJ)* **15**(2):3–4, 2001. As of 2010, the faint young sun remains a problem: Kasting, J.F., Early Earth: Faint young Sun redux, *Nature* **464**:687–689, 1 April 2010; doi:10.1038/464687a; [www.nature.com/nature/journal/v464/n7289/full/464687a.html](http://www.nature.com/nature/journal/v464/n7289/full/464687a.html)
90. Evidence of (very) recent geological activity (tectonic movements) on the moon is inconsistent with its supposed age of billions of years and its hot origin. Watters, T.R., *et al.*, Evidence of Recent Thrust Faulting on the Moon Revealed by the Lunar Reconnaissance Orbiter Camera, *Science* **329**(5994):936–940, 20 August 2010; DOI: 10.1126/science.1189590 ("This detection,

coupled with the very young apparent age of the faults, suggests global late-stage contraction of the Moon.”) [NASA pictures support biblical origin for Moon](#).

91. The giant gas planets Jupiter and Saturn radiate more energy than they receive from the sun, suggesting a recent origin. Jupiter radiates almost twice as much energy as it receives from the sun, indicating that it may be less than 1 % of the presumed 4.5 billion years old solar system. Saturn radiates nearly twice as much energy per unit mass as Jupiter. See [The age of the Jovian planets](#).
92. Speedy stars are consistent with a young age for the universe. For example, many stars in the dwarf galaxies in the Local Group are moving away from each other at speeds estimated at to 10–12 km/s. At these speeds, the stars should have dispersed in 100 Ma, which, compared with the supposed 14,000 Ma age of the universe, is a short time. See [Fast stars challenge big bang origin for dwarf galaxies](#).
93. The ageing of spiral galaxies (much less than 200 million years) is not consistent with their supposed age of many billions of years. The [discovery of extremely ‘young’ spiral galaxies](#) highlights the problem of this evidence for the evolutionary ages assumed.
94. The number of type I [supernova remnants](#) (SNRs) observable in our galaxy is consistent with an age of thousands of years, not millions or billions. See Davies, K., *Proc. 3<sup>rd</sup> ICC*, pp. 175–184, 1994.
95. The rate of expansion and size of supernovas indicates that all studied are young (less than 10,000 years). See [supernova remnants](#).

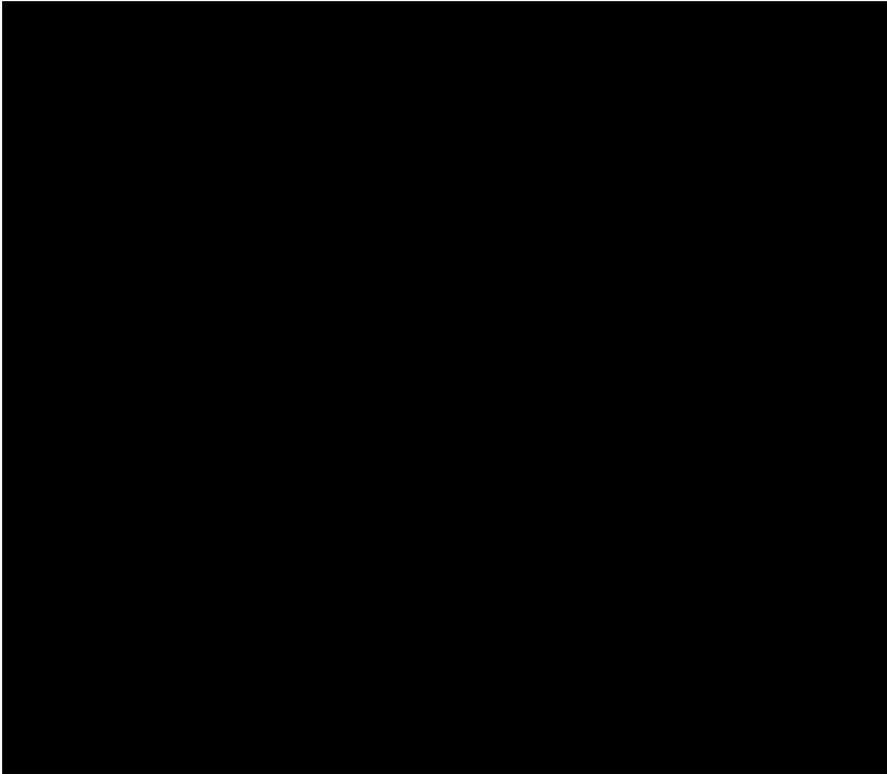
## **Human history is consistent with a young age of the earth**

96. Human population growth. Less than 0.5% p.a. growth from six people 4,500 years ago would produce today's population. [Where are all the people?](#) if we have been here much longer?
97. 'Stone age' human skeletons and artefacts. There are not enough for 100,000 years of a human population of just one million, let alone more people (10 million?). See [Where are all the people?](#)
98. Length of recorded history. Origin of various civilizations, writing, etc., all about the same time several thousand years ago. See [Evidence for a young world.](#)
99. Languages. Similarities in languages claimed to be separated by many tens of thousands of years speaks against the supposed ages (e.g. compare some aboriginal languages in Australia with languages in south-eastern India and Sri Lanka). See [The Tower of Babel account affirmed by linguistics.](#)
100. Common cultural 'myths' speak of recent separation of peoples around the world. An example of this is the frequency of [stories of an earth-destroying flood.](#)
101. Origin of agriculture. Secular dating puts it at about 10,000 years and yet that same chronology says that modern man has supposedly been around for at least 200,000 years. Surely someone would have worked out much sooner how to sow seeds of plants to produce food. See: [Evidence for a young world.](#)

**Last amended 8 May 2014.**

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