

Science and the Bible Part 1 Revision

- Various creation stories
- First Cause Argument
- Isaiah tells us that the world was created for life (45:8)
- Wonderful Water
- Mitochondrial Eve
- Design in biological systems

Science and the Bible Part 2

Deoxyribonucleic Acid (DNA)

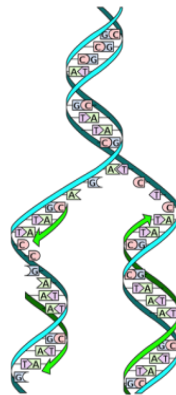
A gene is a sequence of DNA or RNA which codes for a molecule that has a function.

DNA consists of a series of links like a chain wrapped around each in a double helical structure. The links are called nucleotides of which there are four types called A G T And C and their order stores an enormous amount of information like a computer hard drive or USB.

Structure



A computer hard drive



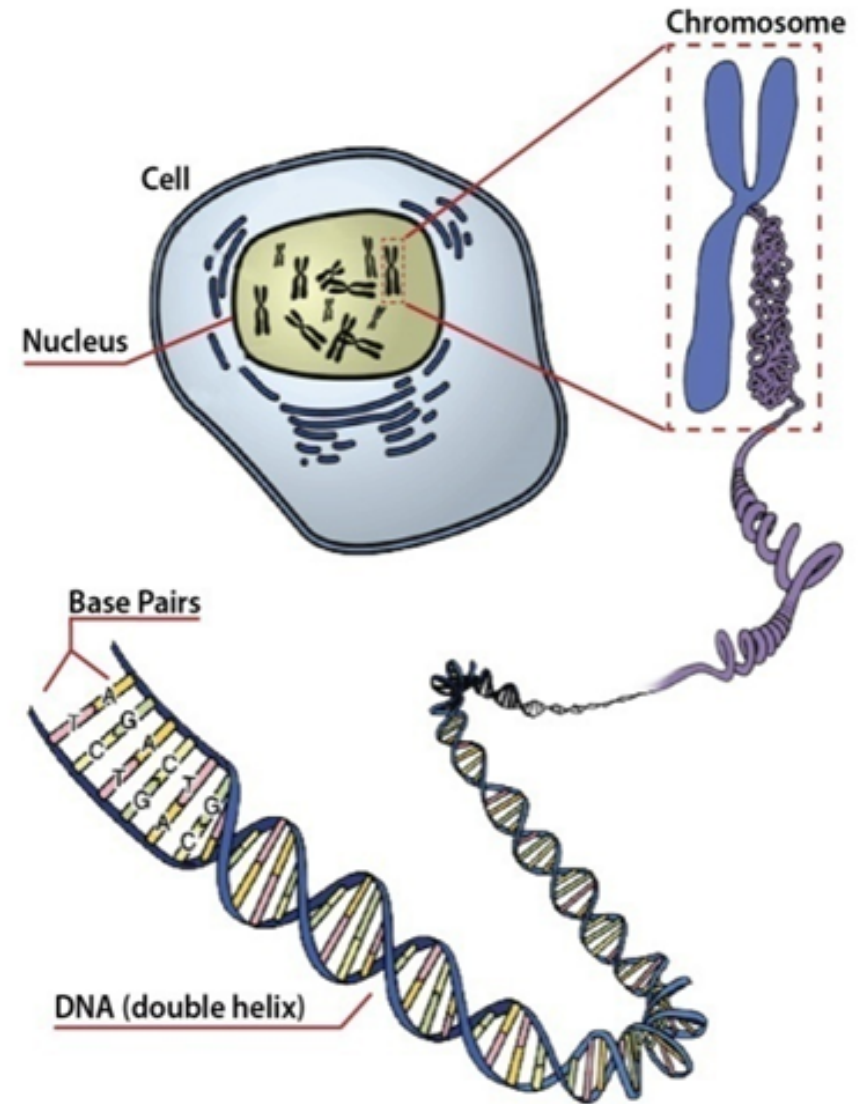
A schematic of DNA

Information encrypted



Information cannot come about by chance, it must be put in

There are over 3 billion links (nucleotides) in the human DNA and it is not present in one long chain but in 23 bundles called **chromosomes** and the majority of these are present in the nucleus of the cell.



Humans have 22 chromosomes (autosomes) in duplicate giving 44, plus two sex chromosomes to make a total of 46. Other forms of life have different numbers of chromosomes.

The two sex chromosomes for females are two Xs and males have one X and one Y. So, it is very easy to determine the sex of a person from a piece of tissue, body fluid or hair etc, by seeing what chromosomes are present. At conception, the male donates his 23 chromosomes either the one carrying his X or the one carrying his Y. If it is the X, then the foetus is female. If the Y is donated, then a male is produced. Gender is fixed at conception.

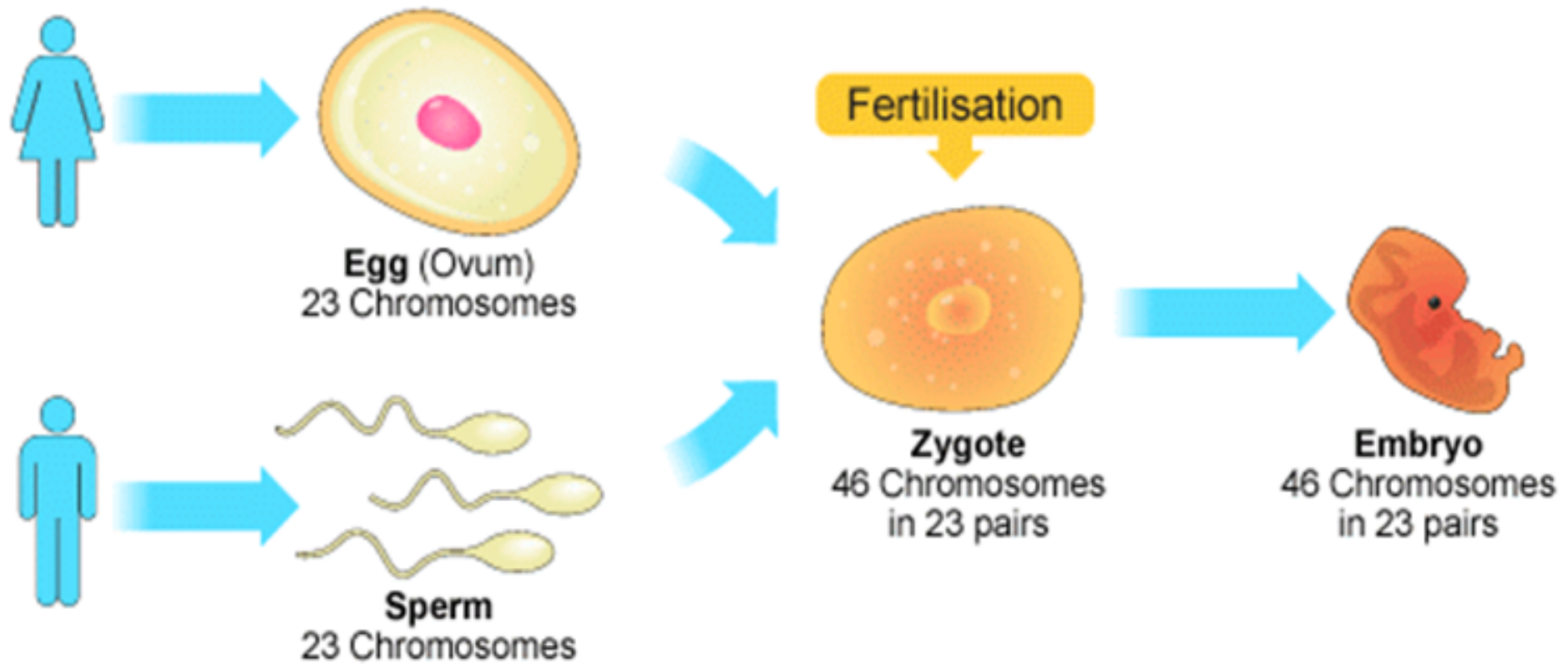
Every cell in a person and we are basically made up of 37 trillion cells as previously mentioned, contains the gender of that person. So, there is absolutely nothing anyone can do to change their sex; operations, makeup, hormone treatment and physical appearance notwithstanding.

God has hardwired our gender into our bodies which is consistent with His statement at the time of creation; *male and female created he them.*(Genesis 1:27)

A 3 minute video of cells dividing and DNA replication in animation.

<https://www.youtube.com/watch?v=dKubylRiN84&vl=en>

Life begins when two lots of chromosomes, one set from each parent join to make a complete set of 46 in the fertilized egg, called a Zygote. This is the start of human life.



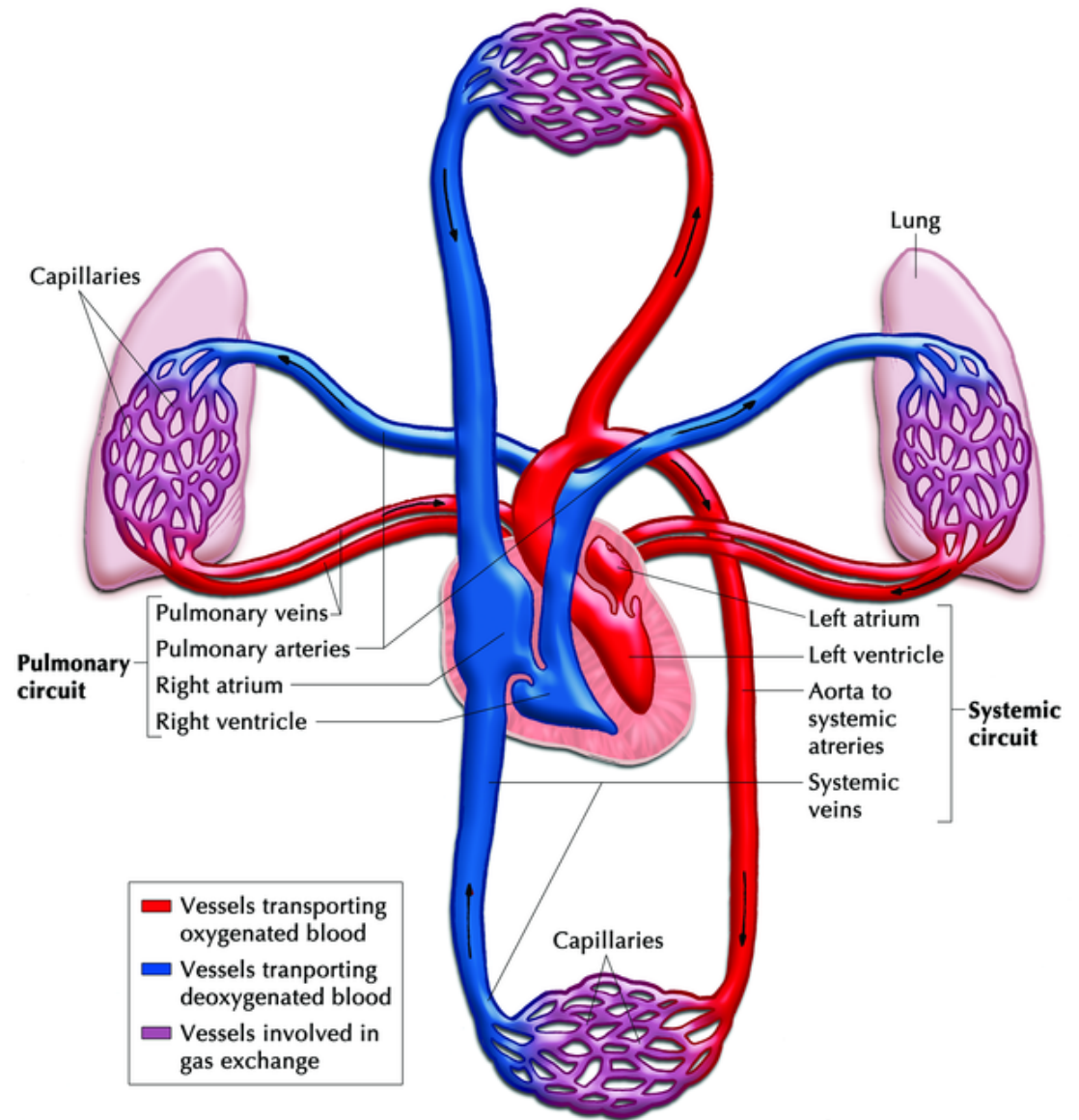
The zygote egg doubles and keeps on doubling and as it does, cells start to change, some start to form the backbone, others muscle, brain, blood liver kidneys, hair skin lungs are formed as the process continues, a tiny heart starts to pump blood through **100,000 km** (2.5 time around the equator) of blood vessels **at six weeks old**.

At three month the foetus is complete and during the next six months he/she simply grows.



Blood flow in the human body

Capillaries have a diameter of typically 3-4 microns.



YOUR BODY MAKES
ABOUT 2.4 MILLION
RED BLOOD CELLS
EVERY SECOND.

All of the foregoing was to show how enormously complex life is. It could not have come about the random joining together of molecules in an unguided fashion and to advocate such a scenario is denial of reason; in fact it is stupidity.

Specific scientific facts confirmed by the
Bible

The number of stars

Jeremiah (33:22), under the influence of the Holy Spirit, writes:

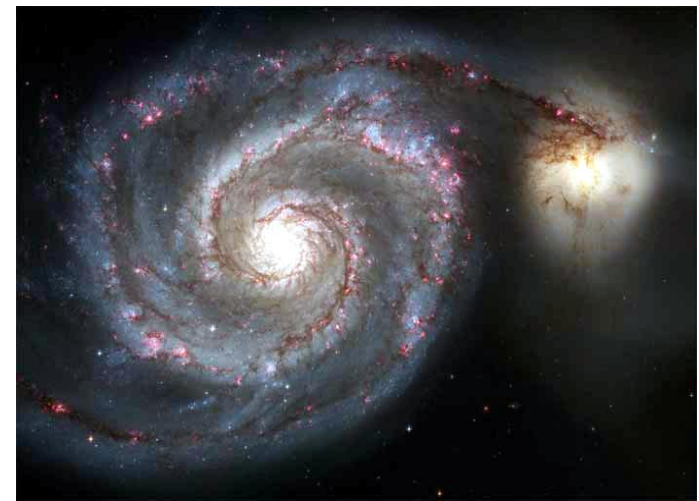
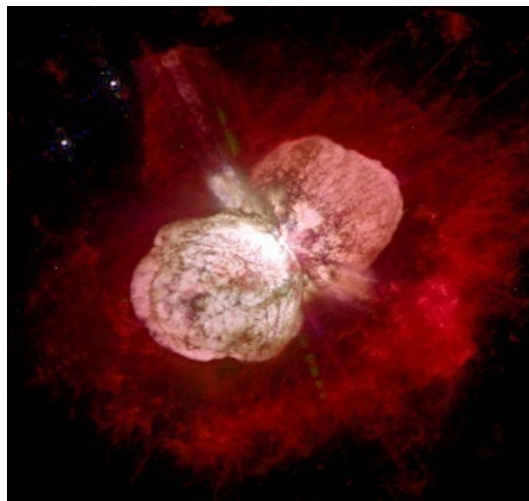
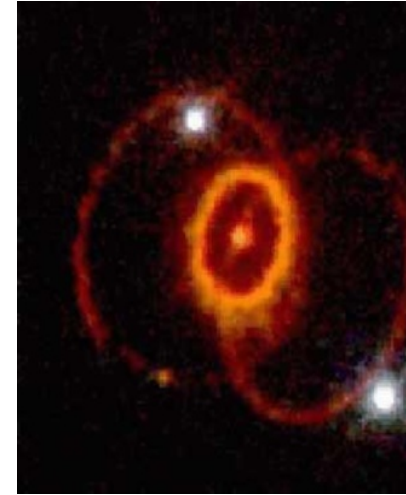
As the host of heaven cannot be numbered, nor the sand of the sea measured, so will I multiply the descendants of David my servant and the Levites who minister to Me.

People have been trying to count the stars since Jeremiah's time and have concluded there are a bit over 1,000. But God's word said that they could not be counted. Best efforts put the number at 10,000 billion.



The heavens declare God's glory Psalm 19:1

With the aid of a very modern telescope, it is easy to understand why the Psalmist states that it is the heavens that declare God's glory. Such beauty and symmetry on an incomprehensible scale so appropriately points to the Creator.



He stretches out the heavens

Isaiah wrote in about 700 BC at a time when people thought that the stars were stuck on a canopy that covered the sky and the concept of the depth of the cosmos was inconceivable. Yet the Bible states that the heavens are being stretched. There is a general consensus among contemporary cosmologists that the galaxies are not only moving apart but that their movement is accelerating.

There are at least eleven references in the scriptures to the fact that God stretched or stretches (makes ongoing or makes continuous) the heavens: Job 9:8; Psalm 104:2; Isaiah 40:22, 42:5, 44:24, 45:12, 48:13, 51:13; Jeremiah 10:12, 51:15; Zechariah 12:1.

The earth is suspended in space

The ancient Greeks believed that the earth was held on the arms and shoulders of a giant named Atlas. A group of Hindus believed that it was supported on the backs of two huge elephants that stood on the shell of an enormous turtle that in turn was swimming in the cosmic sea. Other ancient peoples simply thought the earth was flat. But the Bible tells us that it is floating in space and nothing holds it up. Job wrote about 3,500 years ago:

He stretches out the north over empty space (תְּהוֹ, emptiness, vacuum); He hangs (תָּלָה, let down, dangle) the earth on nothing (בְּלִימָה, nothingness, not—aught).



The earth is round

People thought the world was flat, to the extent that seamen would refuse to go on long sea voyages because of fear of sailing off the edge. In about 700 BC, however, the prophet Isaiah recorded this revealing insight into God's perspective of the Earth:

It is He who sits above the circle (הוּג, draw round, make circle) of the earth, and its inhabitants are like grasshoppers.

As well, in about 1,000 BC David implies that the earth is round when he writes:

As far as the east is from the west, so far has He removed our transgressions from us?

A similar thought is conveyed in Proverbs:

When he prepared the heavens, I was there; when he drew a compass upon the face of the deep.

Isaiah 40:22. Psalms 103:12, Proverbs 8:27.

The earth is rotating

Luke depicts Christ's Second Coming as happening while some are asleep at night and others are working at daytime activities in the field—an indication of a rotating earth with day and night occurring in different places at the same time.

Luke 17:34–36.

Time had a beginning

Both 2 Timothy 1:9 and Titus 1:2 tell us that Christ existed before time began. It is difficult for us to comprehend the absence of time. It was only Einstein's *General Theory of Relativity* that showed time to be a physical quantity like speed and gravity, for example, and that it can vary with either speed or gravity. Time dilation, which is time slowing, has been observed experimentally when an object is travelling very fast; in fact, time stops at the speed of light. Time only came into being when the universe did. The verses tell us that Christ existed before the universe (creation) and consequently He existed before time.

Circulation of the atmosphere

Ecclesiastes 1:6 says:

The wind goeth toward the south, and turneth about unto the north; it wirlth about continually, and the wind turnith again according to his circuits.

Here the Bible describes the circulation of the atmosphere, which was not contemplated at the time Solomon wrote these words, in approximately 1,000 BC.

Air has weight

Job 28:25 says:

To make the weight for the wind; and he weigheth the waters by measure.

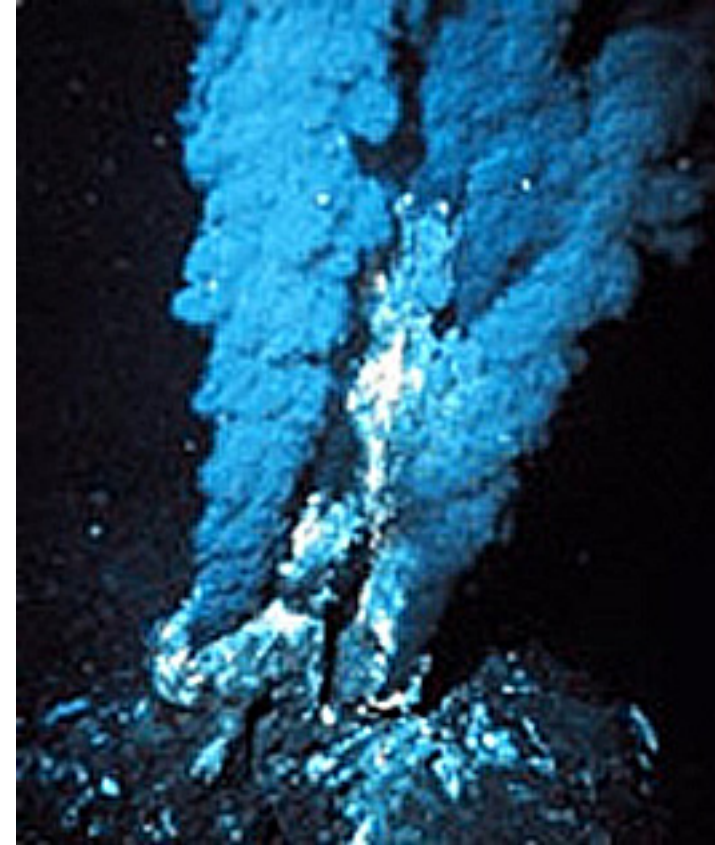
People at the time would have been familiar with water having weight and volume, but not the wind or air. In fact, we live under a lot of air, about 80 kilometers of it, all weighing down on us. We measure it as barometric pressure. Without that weight we would not be able to breathe. We simply open our lungs and they fill up with air.

Springs in the oceans

Job 38:16 states:

Hast thou entered the springs of the sea?

The idea of springs in the sea would have been quite foreign to Job and his friends, but as was shown in the image, the sea does indeed have springs. This is a hydrothermal vent issuing forth from a deep ocean trench. So springs in the sea floor certainly do exist.



Entropy

Hebrews 1:10–11 states:

10 And, Thou, Lord, in the beginning hast laid the foundation of the earth; and the heavens are the works of thine hands:

11 They shall perish; but thou remainest; and they all shall wax old as doth a garment;

Who could have known 2,000 years ago that all of creation is wearing out? It is the case. The sun and other stars are burning away, the earth's rotation is slowing and its magnetic field is decreasing in strength. The second law of thermodynamics, which in effect states that the entire universe is becoming less ordered and degraded, was not discovered until comparatively recently. Yet the One who inspired the writer of Hebrews knew.

The exponential increase in knowledge and travel

In the twelfth chapter of his book, Daniel records his prophecies that concern the end times, and in verse four, he states:

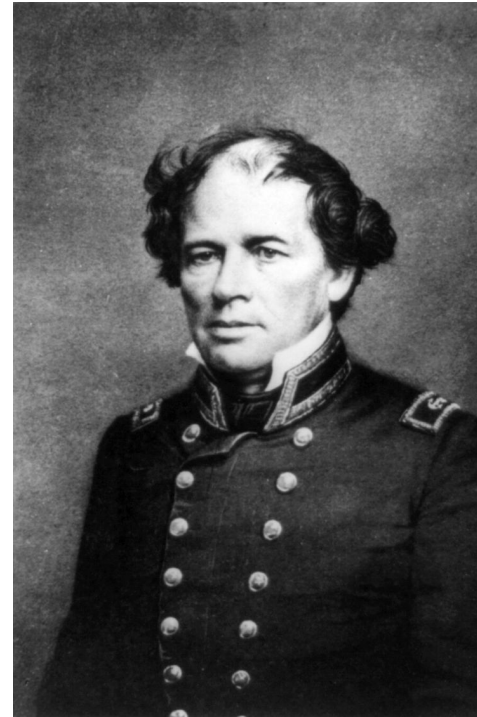
...many shall run to and fro, and knowledge shall be increased.

Taking this statement as it stands; we are continually amazed at the development of air travel. We can go from country to country in a matter of hours. In fact, we can traverse continents likewise. When we do, we find airports jammed with people doing the same thing. Similarly, knowledge has and is increasing **exponentially**, from communications to transport to medicine. It is happening at such a pace that we find it difficult to keep up with developments.

Paths in the sea

Psalm 8:8 mentions the *paths of the sea*. The sea seems to be just a huge mass of water, so how could it have paths? Man discovered the existence of ocean currents in the 1850s, but the Bible stated it 2,800 years ago.

Matthew Maury is considered to be the father of oceanography. Apparently, he was bedridden during a serious illness and asked one of his daughters to read a portion of the Bible. While listening, he noticed the expression ‘the paths of the sea.’ Upon his recovery, Maury took God at His word and went looking for these paths. His work on oceanography, which includes ocean currents, cut sailing times dramatically.



As well, he was inspired by Ecclesiastic 1:6:

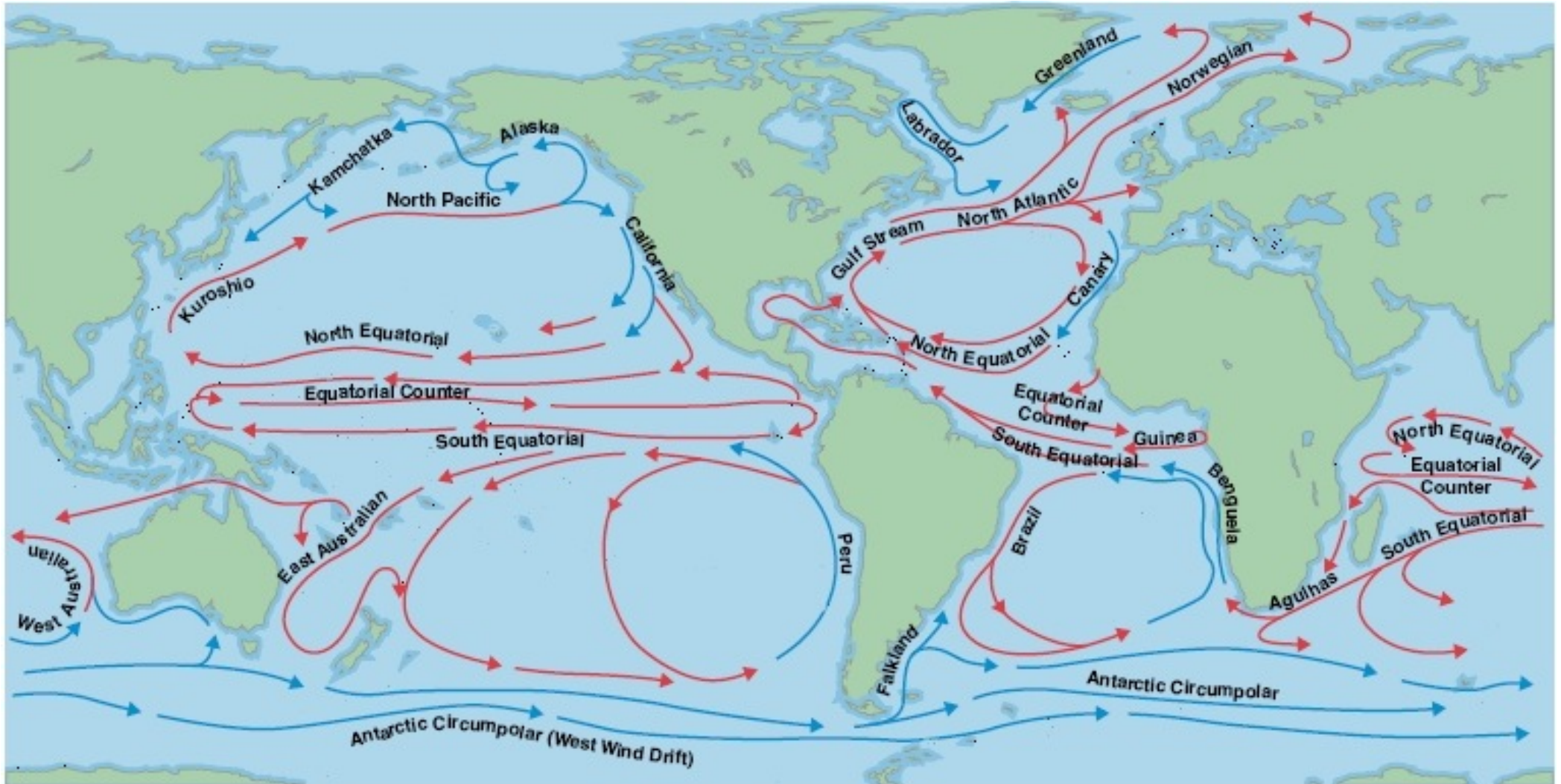
The wind goeth toward the south, and turneth about unto the north; it whirleth about continually, and the wind returneth again according to his circuits.

He concluded that in certain places, the wind might blow predominantly from one direction which would be a significant advantage for sailing ships if they knew it.

His work on oceanography, which includes ocean currents, cut sailing times dramatically, some journeys by three weeks.

Maury Hall was named in his honour at the Naval Academy in Annapolis. He also received honours from many parts of the world, including being knighted by several nations. Many monuments have been created to honour him, and he even has a crater on the Moon named after him. His important contributions to the fields of oceanography and ocean navigation have earned him many titles, including “Pathfinder of the Seas” and the “Father of Modern Oceanography” all because he believed that what the Bible says was true.

Ocean Currents



→ Warm-water current → Cold-water current

Each star is different

1 Corinthians 15:41 states:

There is one glory of the sun, and another glory of the moon, and another glory of the stars: for one star differeth from another star in glory.

From earth the majority of stars look the same; only recently, with the aid of powerful telescopes, has it been revealed that every star is different.

The hydrological cycle

The hydrologic cycle, which involves water evaporating from the sea, being transported over the land as clouds, and falling as rain, is mentioned in Amos, Isaiah and Psalms, as well as in Job, who wrote:

27 For he maketh small the drops of water: they pour down rain according to the vapour thereof:

28 Which the clouds do drop and distil upon man abundantly.

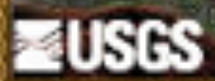
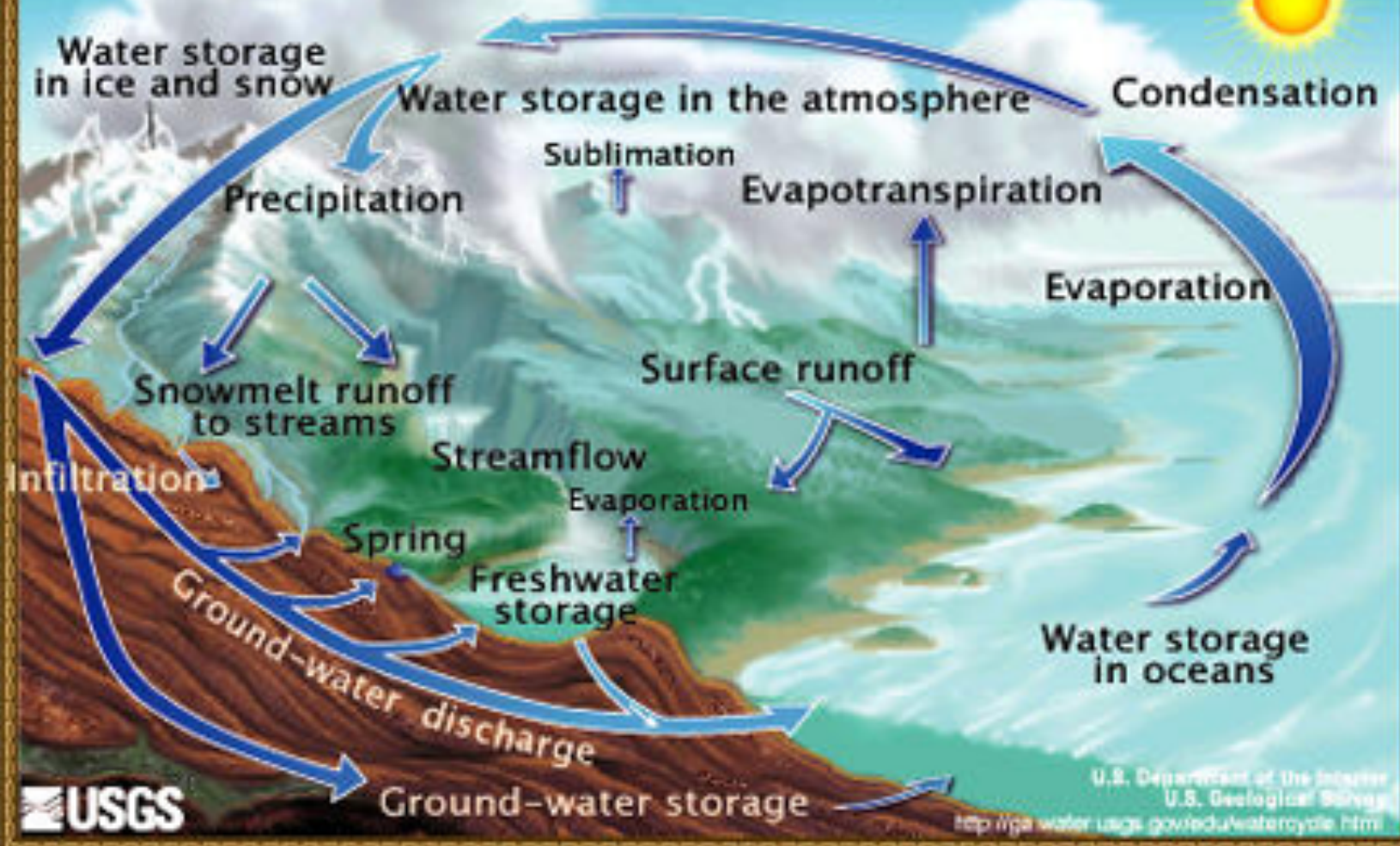
And again in Ecclesiastes:

All the rivers run into the sea; yet the sea is not full; to the place from where the rivers come, thither they return again.

The Bible could not make this amazing cycle any clearer. Yet it was not fully comprehended until many hundreds of years after these texts were written.

Amos 9:6. Isaiah 55:10. Psalm 135:7. Job 36:27–28; Ecclesiastes 1:7.

The Water Cycle



U.S. Department of the Interior
U.S. Geological Survey
<http://ga.water.usgs.gov/edu/watercycle.html>

Clouds hold great amounts of water

The book of Job 26:8 states:

He bindeth up the waters in his thick clouds; and the cloud is not rent under them.

Here the emphasis is on how much water the clouds support. The clouds hold millions of tons of water and the consequences of this fact are seen in flooding rain that takes place from time to time. Yet the clouds appear to simply float across the sky. Again, the Bible is correct.

Agriculture

In the book of Leviticus at chapter 25, the Lord instructs Moses to tell the people to let the land rest every seven years. This seems to have two components to it—one agricultural and one spiritual. It is now well-established practice to allow land to rest periodically as continual planting and harvesting depletes the soil of its nutrients and allows for the build-up of viruses.

Again, we see the wisdom of the scriptures. It is interesting that God did not instruct his people to let one seventh of their land rest every year, but rather to let the whole land rest for one year. This is where the spiritual aspect comes in. The people had to trust God to provide for them during the year the land was to rest.

Circumcision

Newborn babies have a heightened risk of continuous bleeding from a cut. The reason for this condition is that the infant's intestinal tract has not had time to develop a healthy population of bacteria. There are approximately 500 different species of bacteria that colonise the human gut. They perform a variety of functions which facilitate living, one of which is the production of vitamin K which is involved in the biosynthesis of a group of coagulation factors, which cause the blood to clot. An important one is factor 11, also called prothrombin. This condition is called hemorrhagic disease of the newborn, caused by vitamin K deficiency. The *Merck Manual of Diagnosis and Therapy*, which is the world's best-selling medical textbook, states that:

Vitamin K deficiency causes hemorrhagic disease of the newborn, which usually occurs 1 to 7 days postpartum.



Circumcision is a very bloody procedure. And the Bible states that it is to be carried out on the **eighth day** after birth. Again, the insight of the Bible is impeccable.

Genesis 17:12; Luke 1:59.

The chemical nature of flesh

It was not until the nineteenth century that chemists started to understand the molecular nature of all substances, including every part of us. But God said that He made Adam from the dust of the ground. And He told Adam that he is going to return there. All the chemical elements necessary to make a person are present in the earth; it is just a matter of joining them in the right way: a simple task for the Lord.

The writer of Genesis would have had no understanding of biochemistry, and the text demonstrates, once again, that God inspired the Bible.

Genesis 2:7. Genesis 3:19.

Adam's rib

It is interesting to notice that in order to fashion Eve, God put Adam into a deep sleep and removed one of his rib bones. From this, He formed Eve. The rib bone is **the only bone in the human body that will grow again if it is removed**. Surgeons often use a rib or part thereof if bone is required in another part of a person's body, and, providing the periosteum (outer membrane or sheath) is left intact, the rib will regrow most of the time. This fact of the regrowth of ribs would have been completely unknown to ancient people.

Munro IR, Guyuron B (November 1981). "Split-Rib Cranioplasty". *Annals of Plastic Surgery* 7 (5): 341–346 ([ncbi.nlm.nih.gov/pubmed/7332200](https://pubmed.ncbi.nlm.nih.gov/7332200/)); C. Wieland, creation.com/regenerating-ribs-adam-and-that-missing-rib.

Life is in the blood

Scripture declares that the blood is the source of life. Leviticus 17:11 says:

For the life of the creature is in the blood.

Up until about the 1880s, sick people were often bled in an attempt to heal them and many died from the practice. It is now known that the blood is the source of life. We are composed of cells; muscle, skin, brain, nerve etc, and it is our blood that delivers to them, their life-sustaining oxygen and removes their waste product of carbon dioxide. It carries all of the body's regulating hormones, as well as essential vitamins and minerals. So if you lose your blood, you lose your life.

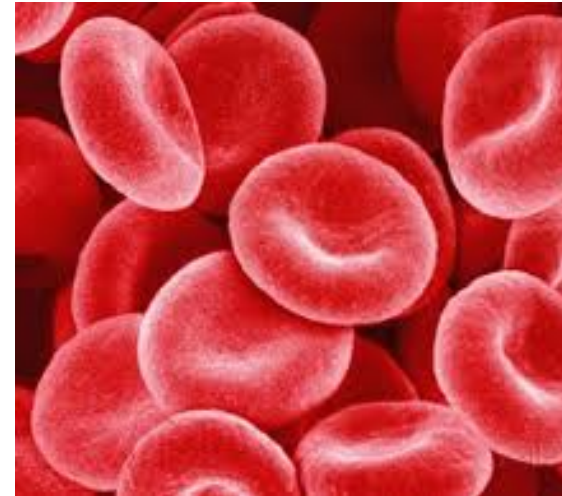
Quite possibly, George Washington lost his life this way.

The uniqueness of Christ's blood

When Adam did what God said he was not to do and ate the fruit of the Tree of Knowledge of Good and Evil, his whole body, including his blood, became defiled and he died both spiritually and (eventually) physically. The process that led to death was instigated the moment he ate. God's punishment infected all of Adam and Eve's offspring and all succeeding generations.

However, scripture speaks of Christ's blood as being different; it was **His own, precious, justifying, cleansing, redeeming, atoning, purchasing, covenanting** etc.

Acts 20:28. 1 Peter 1:19. Romans 5:9. Ephesians 1:7. Romans 3:25. Revelation 5:9; Hebrews Matthew 26:28.

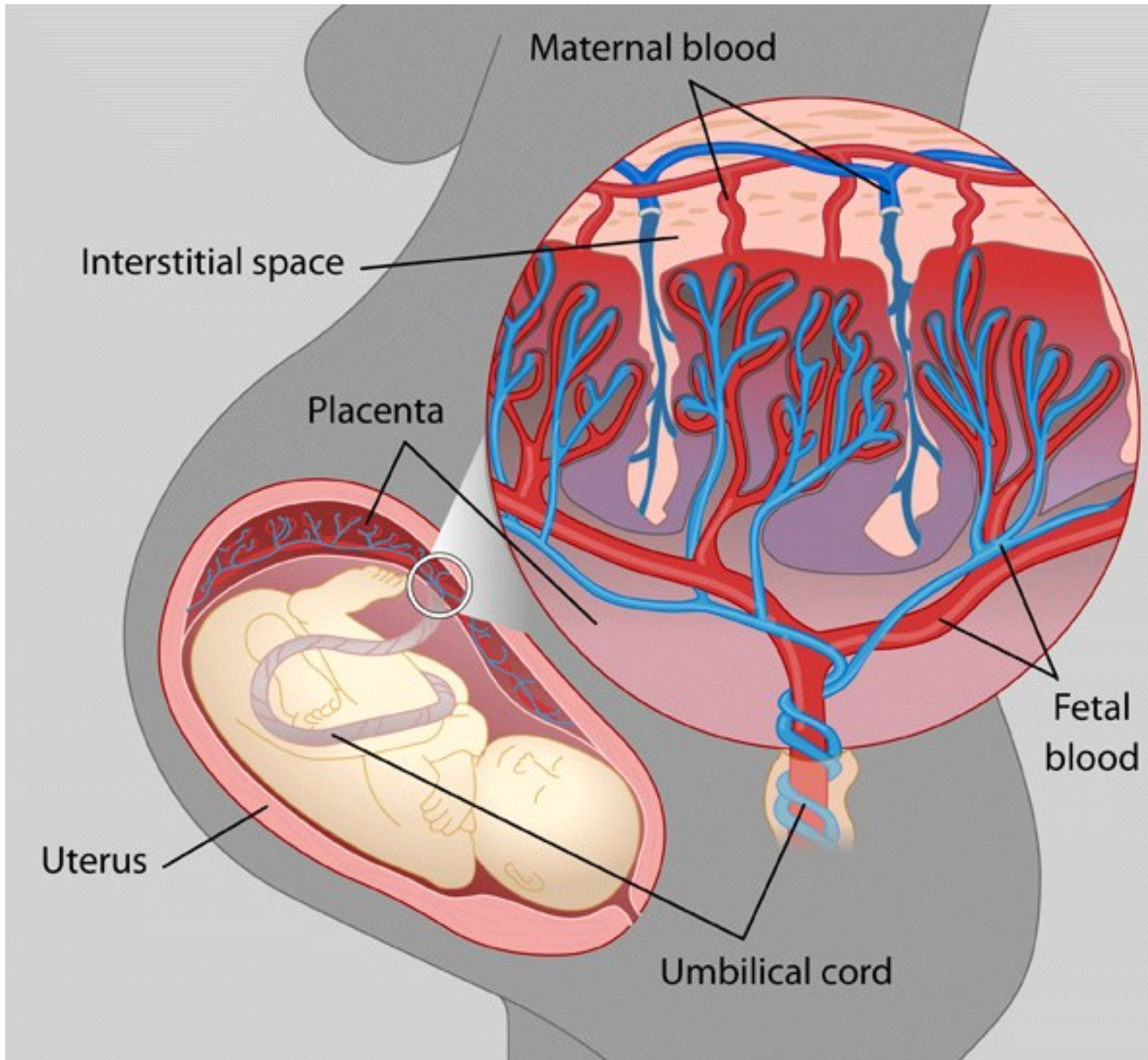


Christ was conceived uniquely by the Holy Spirit, and the human 'Seed' was incubated in a woman. Admittedly, some of the statements regarding Christ's blood are to be taken symbolically, but for the other statements to be true, Christ's pure blood as a embryo/fetus should not have mixed with His mother's blood which would have carried her sinful nature in some way. David said that he was sinful from the moment of conception.

Matthew 1:18–23. Psalm 51:5.

The mother's blood is never mixed with that of her fetus. The two vascular systems are completely separate, and even though nutrients and waste products transverse the placental membrane freely , the two bloods never mix. In fact, in many cases the mother and her fetus can have different blood groups, and the fact that the mother's antibodies do not attack the fetus as they would any other foreign tissue remains a mystery.

Of course, as with our fallen nature, it can break down when a small amount of the baby's blood leaks into the mother's circulatory system and if the mother's blood is Rh negative and her baby is Rh positive then the mother's antibodies attack the baby's blood. This is known as Rh Disease.



Even to the level of detail of an obscure point such as this, the Bible is found to be reliable and consistent.

Prohibition about marrying within the family

God forbid the marrying within the family: Leviticus 18:6-18; 20:17; Deuteronomy, 27:22.

When a child is conceived, one strand of the mother's DNA combines with one strand of the father's DNA. Both strands contain mutations and at conception, as the two strands line up with one another, the function of the part containing the mutation is taken over by the corresponding part of the other parent's DNA and all is well. However, if the two strands contain similar mutations—as they would in the case where the parents were close relatives—when the two strands come together, the mutations line up and the mutation is expressed in the offspring.

As mutations accumulate, genetic disorders caused by intrafamily marrying are becoming common, not so much in western societies (presumably because their laws and practices were based on the Bible), but in groups who have not had the benefit of scripture. Howard Schneider writes in reference to Saudi Arabia's alarming increase in genetic disorders such as thalassemia, sickle cell anemia, hydrocephalus and diabetes due to intrafamily marriages:

Nevertheless, even in a country hesitant to discuss its most intimate problems with the outside, a public dialog is developing.... Religious sheiks counsel young men to “choose a wife carefully” and with an eye towards health.

A heading in the *Digital Journal* was quite explicit: ‘British Muslim Inbreeding Causing Genetic Disorders.’

Again we can see God's instructions to His people still apply today, even though they were given about 3,500 years ago.

Although the Bible is not a scientific text book, we see over and over again as has been demonstrated, that all that which is stated is true and wherever possible science is confirming it. This fact is strong confirmation of its Divine origin

Are we at or near the centre of the Universe?

What does the Bible say?

Genesis 1:16

And God made two great lights; the greater light to rule the day, and the lesser light to rule the night: he made the stars also.

Stars are suns producing an enormous amount of heat and light from their thermonuclear reaction. There are about 100 billion stars in each galaxy.

Galaxies are clusters of stars they come in various shapes; flat discs and starfish like, are the two most common. There are at least 100 billion galaxies.

So after God had made the earth with its seas, land and vegetation, on day four, He made the sun and the moon and almost as an aside; *he made the stars also*. The passage reads as if God wrapped the universe around the earth.

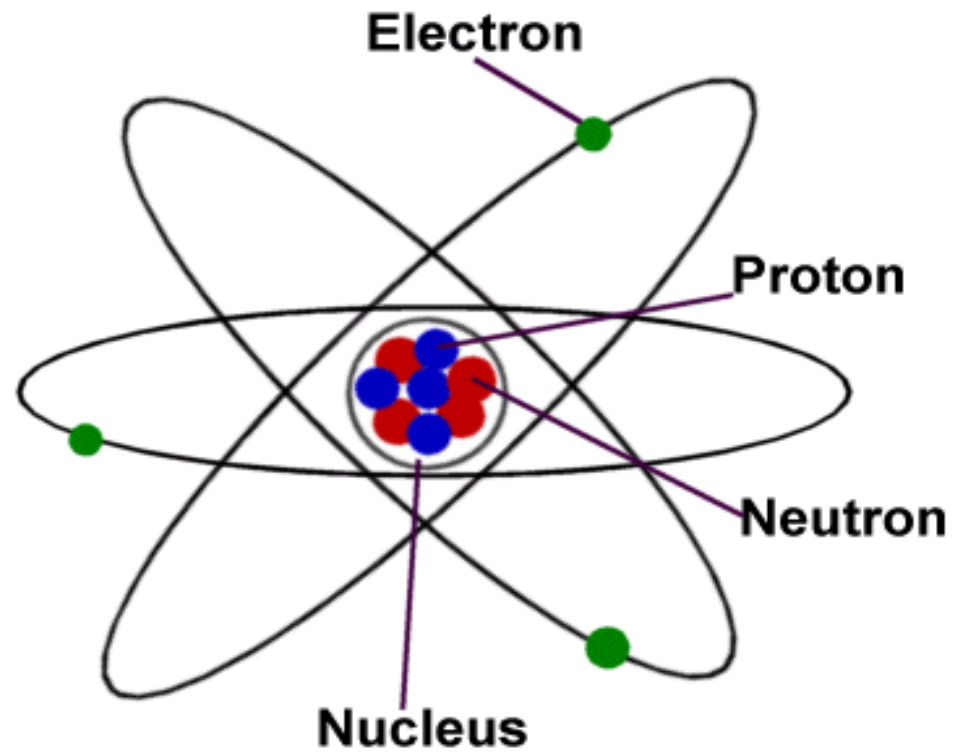


The Pinwheel galaxy



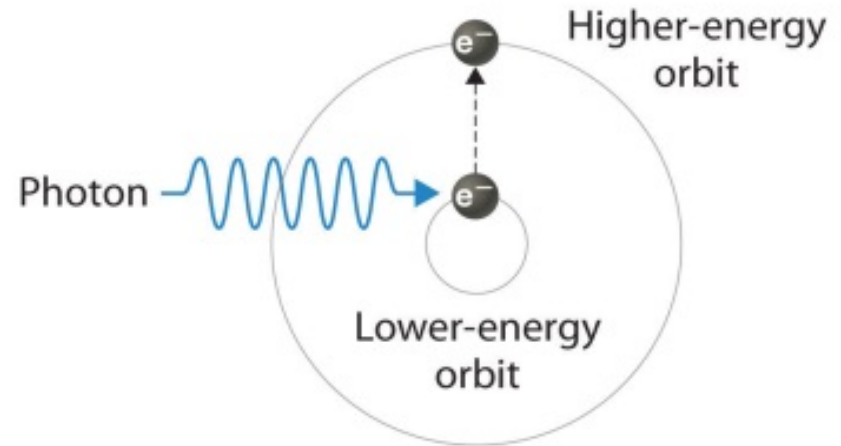
The Sombrero galaxy

The structure of the atom

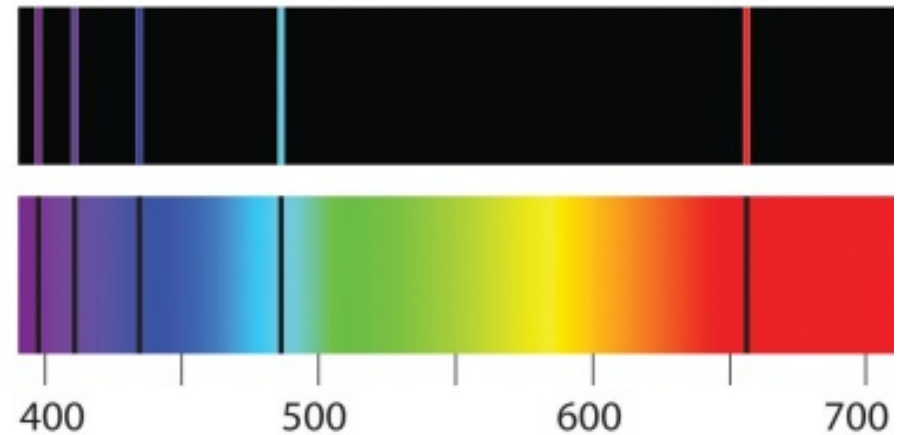


The electrons can occupy different energy levels as they spin around the nucleus. They can absorb radiation at very discrete wavelengths (energy) and move to higher energy levels. As a result of these transitions, each element can have several absorption lines in any light passing through that element and the position of these lines is unique and characteristic for that particular element.

For the hydrogen atom, the main absorption line is at 656 nm. So if light is broken into its component wavelengths and there is no light at 656 nm, then we can safely assume that the light has passed through hydrogen as shown.

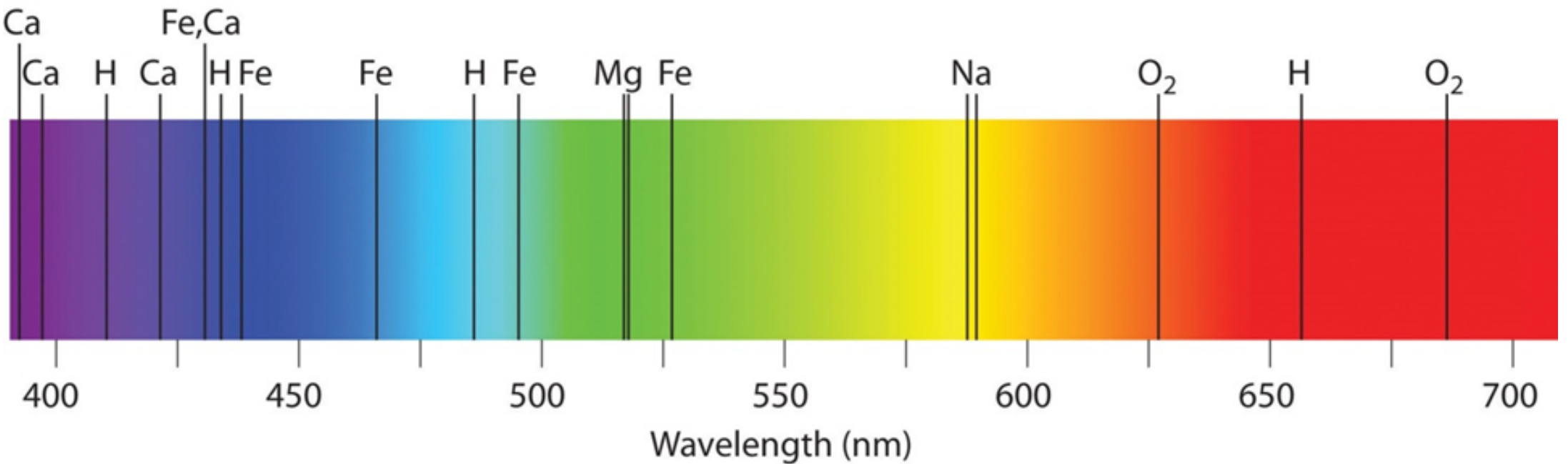


(a) Electronic absorption transition

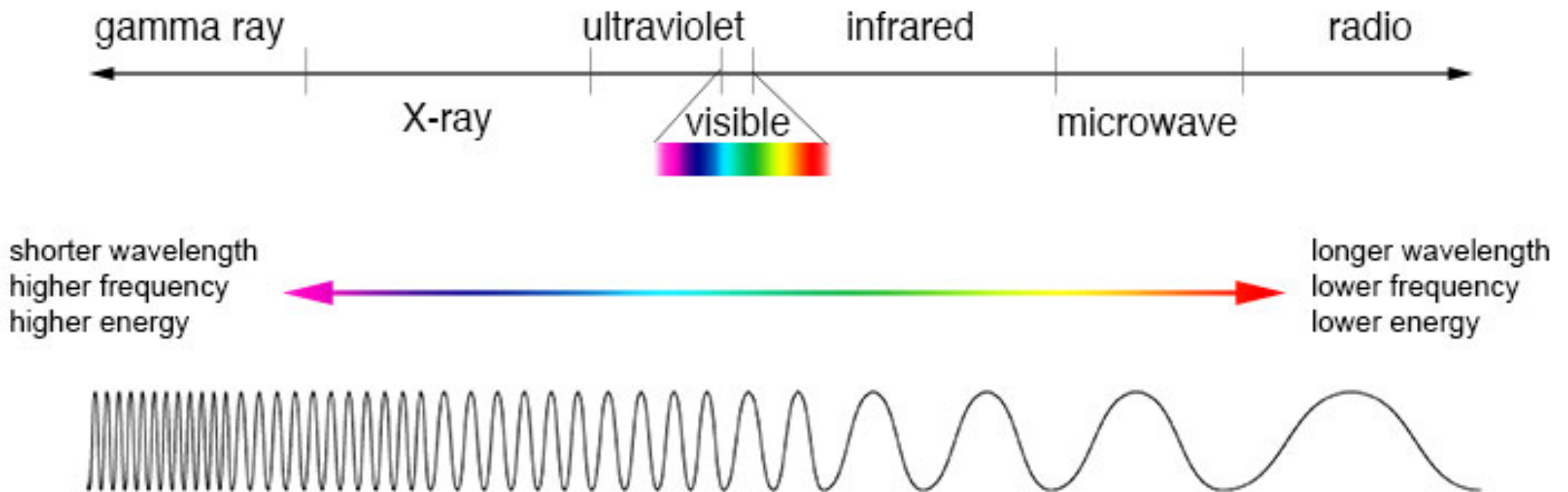


(b) H₂ emission spectrum (top), H₂ absorption spectrum (bottom)

The absorption spectrum of other elements



The electromagnetic spectrum



The overall nuclear reaction that is taking place in suns is the combining of two atoms of hydrogen to form one atom of helium; this is known as nuclear fusion. So any light coming from distant suns will always have absorption lines of both hydrogen and helium at least.

It is possible to predict where the absorptions will occur by using the Periodic Table. In fact helium was discovered in the sun, by examining the light emanating from the sun before it was found on earth.

A STIS absorption spectrum

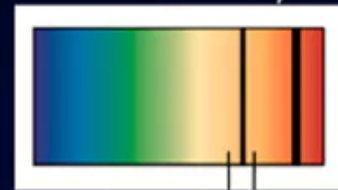
A beam of light coming to Earth from a distant quasar passes through numerous intervening gas clouds in galaxies and in intergalactic space. These clouds of primeval hydrogen subtract specific colors from the beam. The resulting 'absorption spectrum,' recorded by Hubble's Space Telescope Imaging Spectrograph (STIS), is used to determine the distances and chemical composition of the invisible clouds.



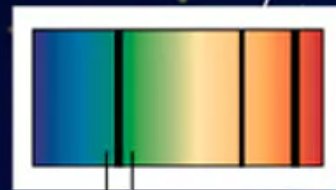
Cumulative absorption spectra



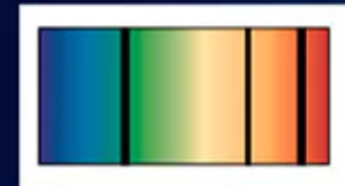
Subtracted by cloud 1



Subtracted by cloud 2



Subtracted by cloud 3



Final absorption spectrum recorded by STIS



Astronomer Edwin Hubble wrote in 1937:

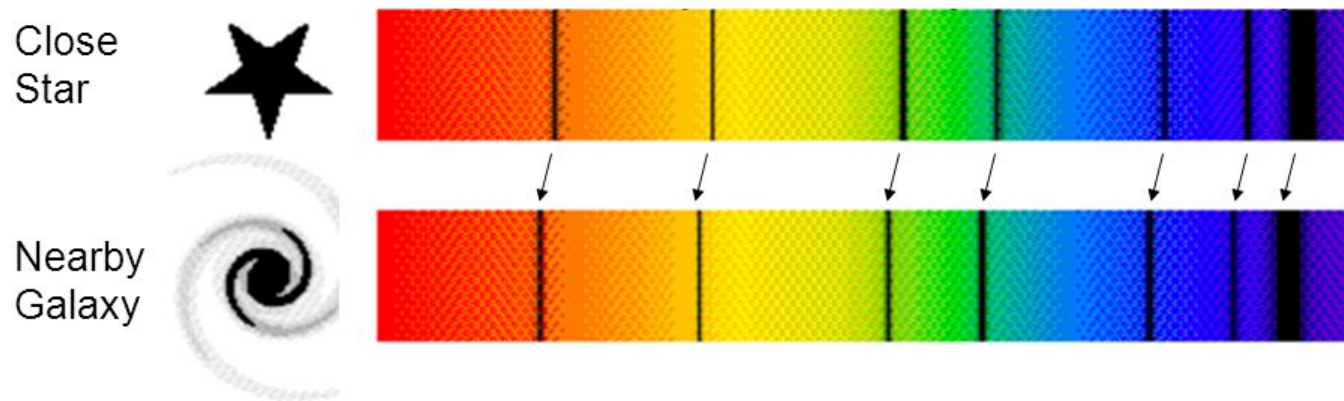
Although the spectra of the sun and of the nebulae (galaxies) exhibit the same pattern of absorption lines, there is one remarkable difference. The lines in the nebular spectra, in general, are not in their normal positions; they are displaced towards the red end of the spectrum to positions representing wave-lengths somewhat longer than normal.

The entire pattern of absorption lines, all details in a spectrum, appear to have been shifted towards the red. These displacements are commonly known as red-shifts. They are characteristic features in the spectra of all nebulae except a few that are in the immediate neighbourhood of our own stellar system.

Edwin Hubble, *The Observational Approach to Cosmology*, Oxford University Press, 1937

The absorption spectrum of hydrogen

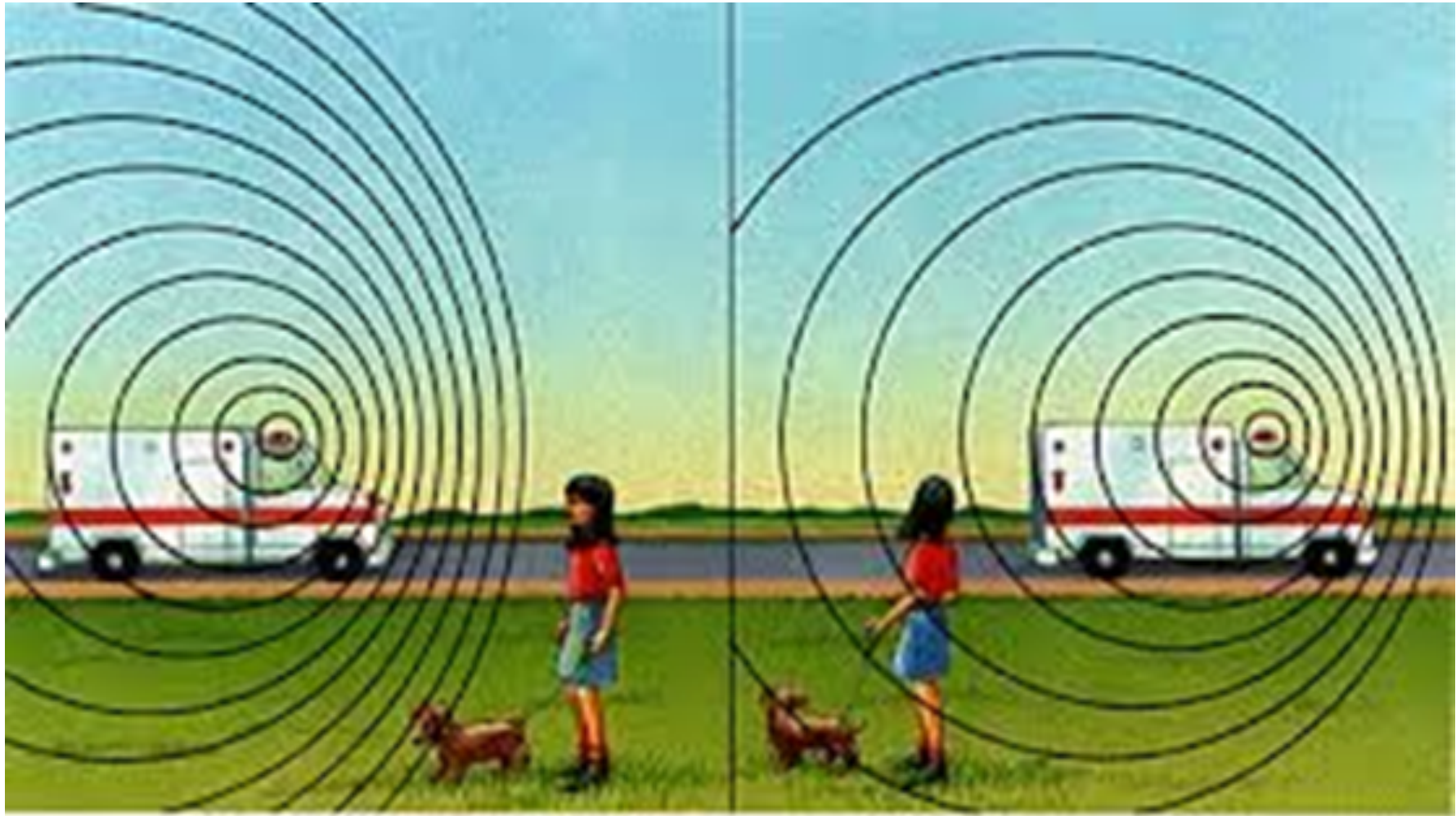
What We See



If the nearby galaxy wasn't moving, the absorption spectrum (the pattern of black lines) would be in the same place.

By 1925 astronomers had measured wavelength shifts of 45 galaxies. Hubble and later astronomers have increased this to 250,000 galaxies and the reason for the shifts was thought to be due to the Doppler Effect which is the change in frequency of emitted sound or light by the moving object that is emitting the sound or light. As shown in the sketch of a girl walking her dog, and as an ambulance passes her the frequency of the sound of its siren changes from a higher pitch (shorter wavelength) to a lower pitch (longer wavelength) as shown by the lines in the sketch.

The Doppler Effect



Hubble's Law

In 1924 Edwin Hubble began to use the 100 inch reflector telescope at the Mount Wilson observatory (USA) and after measuring the red shifts of many galaxies, he noticed a pattern emerging, the more distant galaxies had the greatest red shifts, that is, they were moving faster. In 1929 he published his results in which he stated his now famous Hubble's Law which says that some cosmic phenomenon causes redshifts to tend to increase in proportion to distance from the earth.

E. Hubble, A Relation between distance and radial velocity among extra galactic nebulae, *Proc. Nat. Acad. Sci. USA*, 15:18-173, 1929.

Boston Marathon



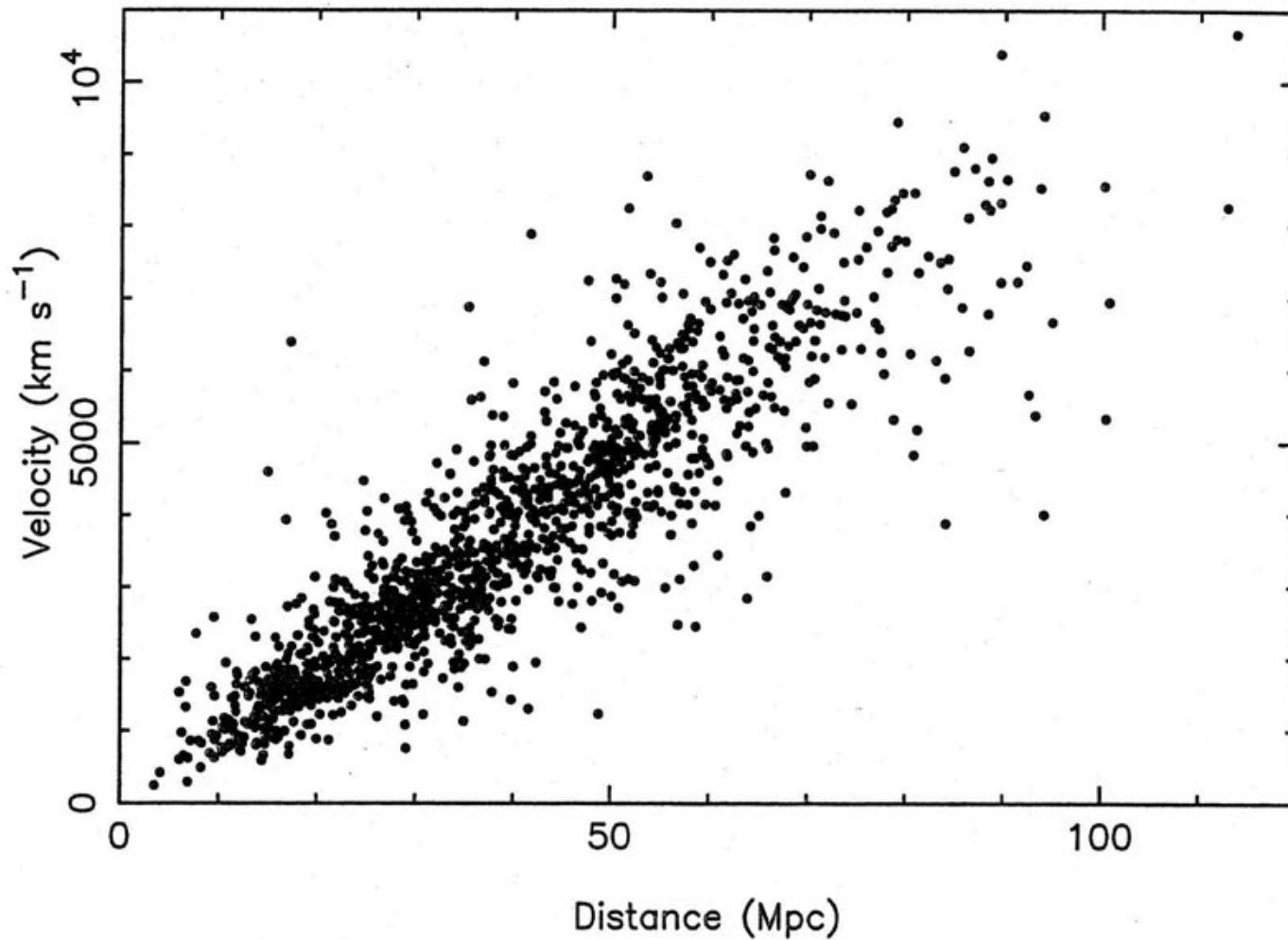


Figure 2.5 A plot of velocity versus estimated distance for a set of 1355 galaxies. A straight-line relation implies Hubble's law. The considerable scatter is due to observational uncertainties and random galaxy motions, but the best-fit line accurately gives Hubble's law. [The x -axis scale assumes a particular value of H_0 .]

When Edwin Hubble discovered the redshift in the spectrum of stars and galaxies and interpreted them as distance (known as the Hubble Law), he was horrified at the implication that the Earth could be in a special place. He wrote:

*Such a condition [red shifts] would imply that we occupy a unique position in the universe ... **But the unwelcome supposition of a favoured location must be avoided at all costs ... [and] is intolerable ...** moreover, it represents a discrepancy with the theory because the theory postulates homogeneity.*

Hubble, E.P., *The Observational Approach to Cosmology* The Clarendon Press, Oxford, UK, pp. 50–59, 1937.

Cosmologist George Francis Rayner Ellis also stated in 1995:

People need to be aware that there is a range of models that could explain the observations. ... For instance, I can construct you a spherically symmetrical universe with earth at its center, and you cannot disprove it based on observations. ... You can only exclude it on philosophical grounds. In my view there is absolutely nothing wrong in that. What I want to bring into the open is the fact that we are using philosophical criteria [beliefs] in choosing our models. A lot of cosmology tries to hide that.

Gibbs, W. Wayt, 1995. Profile: George F.R. Ellis; Thinking Globally, Acting Universally. *Scientific American* 273(4):28, 29.

All of the 250,000 plus galaxies that have had their absorption spectra measured, have shown a red shift. That is, they are moving away from us and this is what Hubble and others are fearful of. The Sloan Digital Sky Survey (SDSS), is ongoing as of 2013 and aims to measure the redshifts of around 3 million objects. So what is the big problem if all galaxies have red shifts?

Because it shows that we, our galaxy, is at the centre or very close to the centre of the universe.

Note the galaxies that are very close to us like Andromeda are actually coming towards us because of the gravitation pull of our Milky Way galaxy.

So in the case of galaxies what is moving, the galaxies or the space which contains them? In the illustrations given below, both the motorboat and the surfboard rider are moving. In the case of the boat, it is the boat which is moving across the water. However, the surfboard rider is being taken along by the sea. Most astronomers are of the opinion that it is the space that is expanding and taking the galaxies with it.



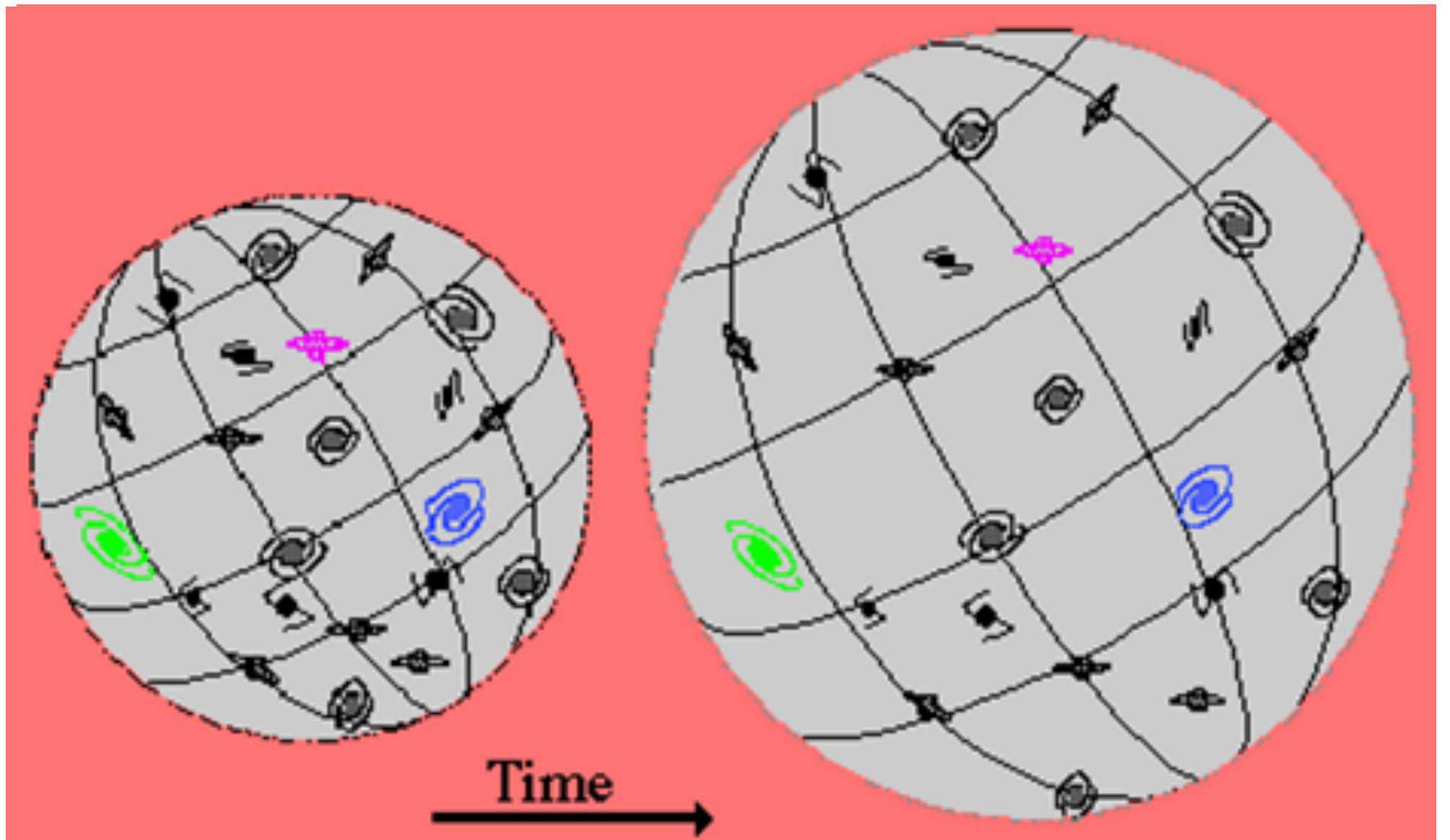
The Bible tells us that God stretched the heavens

Job 9:8; Psalm 104:2; Isaiah 40:22, 42:5, 44:24, 45:12, 48:13, 51:13; Jeremiah 10:12, 51:15; Zechariah 12:1.

Some Bible believing scientists are of the view, that God did all of the stretching on day four of the creation week. This basically means that the sky Adam looked at is essentially the same as we see.

The Big Bang Model

However, there is another model which could explain the same observations which is that of an expanding space like a balloon being inflated and all the galaxies are on the surface as shown. Again, all galaxies would be moving away from each other. This is the Big Bang model. But it has serious problems; it reduces space to two dimensions that is, to the surface of the balloon and it requires 96% of all matter and energy to be Dark Matter and Dark Energy. That is, they cannot be observed or detected and are only included to make this model work.



Cosmologist Alan Guth proposed the idea of *inflation*, that 10^{-35} seconds after the Big Bang, the universe expanded by a factor of 10^{25} in 10^{-35} seconds. Twenty five orders of magnitude is mind boggling—it is like going from smaller than a pea to the size of our galaxy an expansion much faster than the speed of light.

It is important to note that it is space itself that is expanding, so inflation does not violate relativity which prohibits only mass/energy moving faster than light.

J. Sarfati, *Refuting Compromise*, Creation Book Publishers, 2011, page 155.

The Big Bang theory has many other problems; even the weekly journal, *New Scientist*, has discarded it. One cosmologist, Eric Lerner, who is president of Lawrenceville Plasma Physics in West Orange, New Jersey, is reported as saying:

This is not science. Big Bang predictions are constantly wrong and are being fixed after the event.

Another, Joao Magueijo, of Imperial College, London, says:

The standard model is ugly and embarrassing; I hope it will soon come to breakdown point.

New Scientist, July 2, 2005.

The situation was so serious that 50 astronomers and physicists met in Port Angeles, Washington, USA, on September 7–11, 2008, to discuss an alternative to the theory. All agreed that it needed to be replaced, but nobody could devise a satisfactory alternative.

Source: John Hartnett, creation.com, retrieved November 8, 2008.

The problem still exists with theoretical scientists going well ahead of experimental observations and this was the subject of a conference called by the Perimeter Institute in Waterloo, Canada from June 20-24, 2015. They addressed the problem of why 96% of the universe appears to be missing and one delegate, Maria Spiropulu stated; “Dark matter is the biggest problem in physics today.”

New Scientist, July 4, 2015. pages 6-7.

The big dilemma for atheists is that they cannot tolerate the idea that the earth has a very special place in the universe because it is powerful evidence for creation. Yet this is what the observations and measurements show.

More revelations

In the early 1970s William Tift using the Steward Observatory in Tucson Arizona, noticed these redshifts were in groups with spacings of 0.024%. The spacings are about 72 km/s when it is expressed in terms of Doppler shift and after more studies, he published his results. The same pattern was confirmed when the radio wave region of the electromagnetic spectrum was examined rather than the visible light and in a publication in 1984 he stated;

There is now very firm evidence that the redshift of galaxies are quantized with a primary interval of near 72 km/s.⁹

W. G. Tift, *Astrophysical J.*, 1976, **206**:38-56.

W. G. Tift and W. J. Cooke, Global Redshifts quantization, *Astrophysical J.*, 1984, **287**:492-502.

W. J. Cooke, W. G. Tift, Statistical procedure and the significance of periodicities in double galaxy redshifts, *Astrophysical J.* 1991, **368**(2), 383-389.

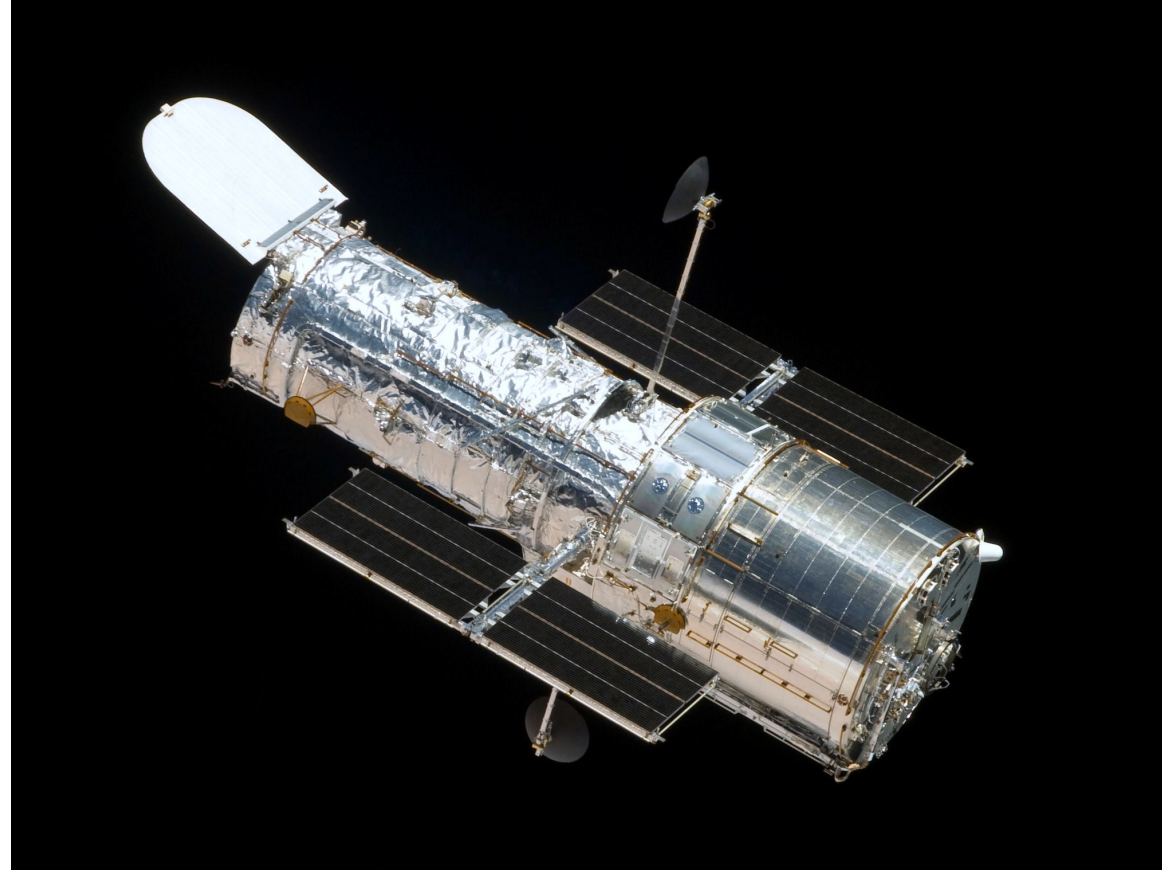
In 1997 an independent study of 250 galaxy redshifts by William Napier and Bruce Guthrie confirmed Tifft's basic observations they stated:

--- the redshift distribution has been found to be strongly quantized in the galactocentric frame of reference. The phenomenon is easily seen by eye and apparently cannot be ascribed to statistical artefacts, selection procedures or flawed reduction techniques. Two galactocentric periodicities have so far been detected, $\sim 71.5 \text{ km s}^{-1}$ in the Virgo cluster, and $\sim 37.5 \text{ km s}^{-1}$ for all other spiral galaxies within $\sim 2600 \text{ km s}^{-1}$ [roughly 100 million light years]. The formal confidence levels associated with these results are extremely high.'

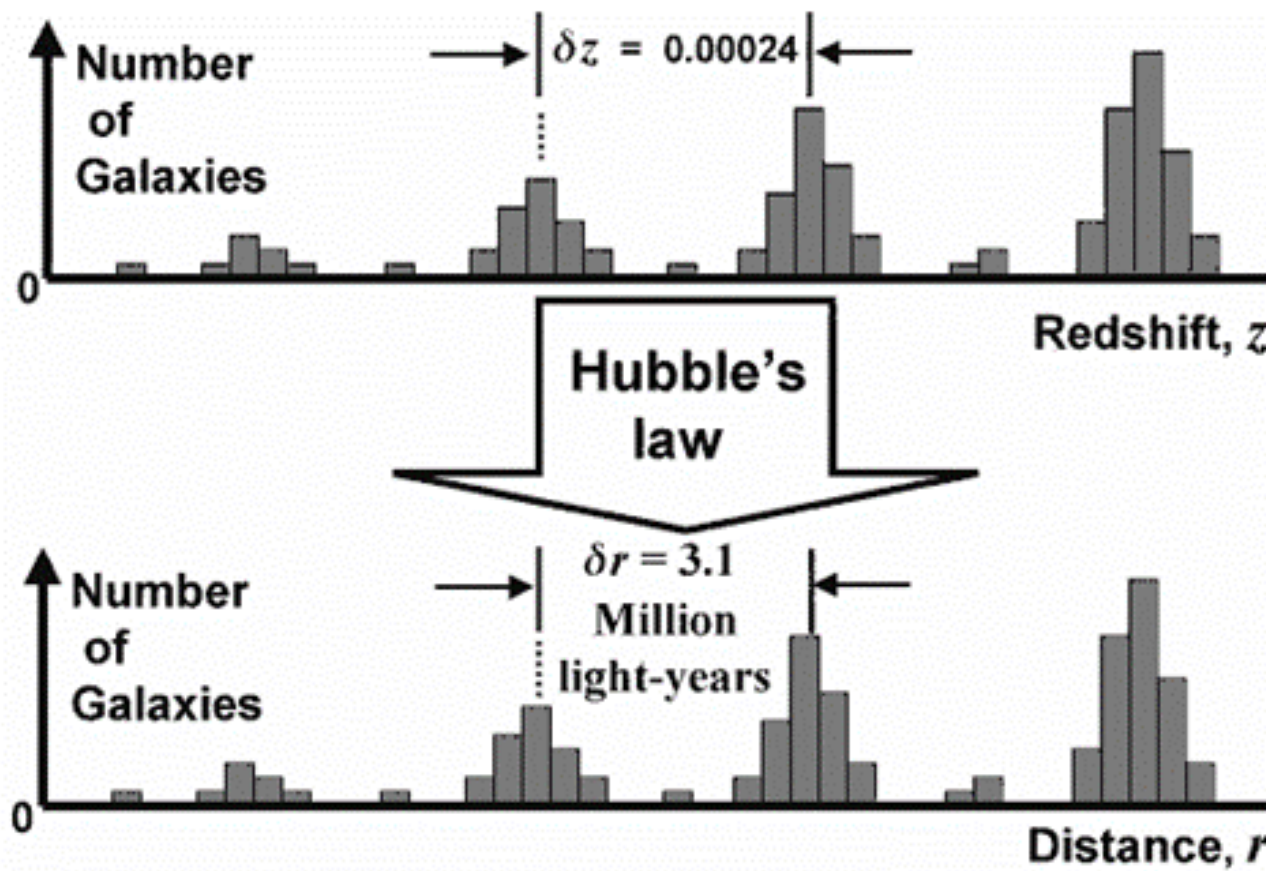
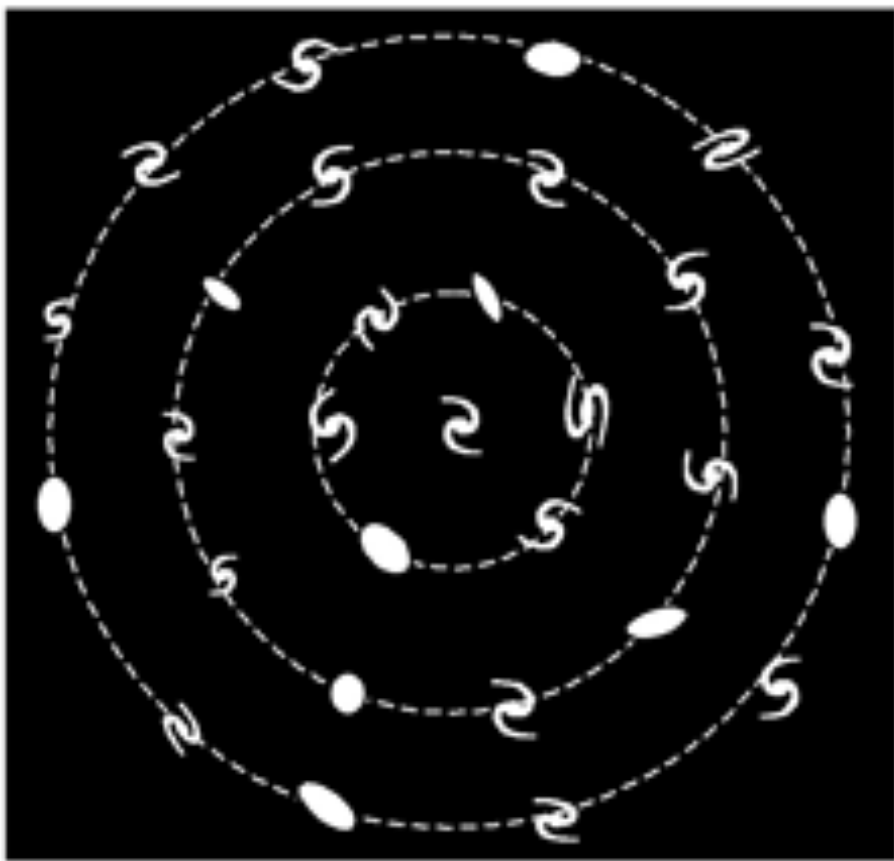
W. M. Napier, and B. N. G. Guthrie, Quantized redshifts: a status report, *J. Astrophysics and Astronomy* 1997, **18**(4):455–463.

Measurements using the Hubble Telescope show similar clustering out to distances of billions of light years.

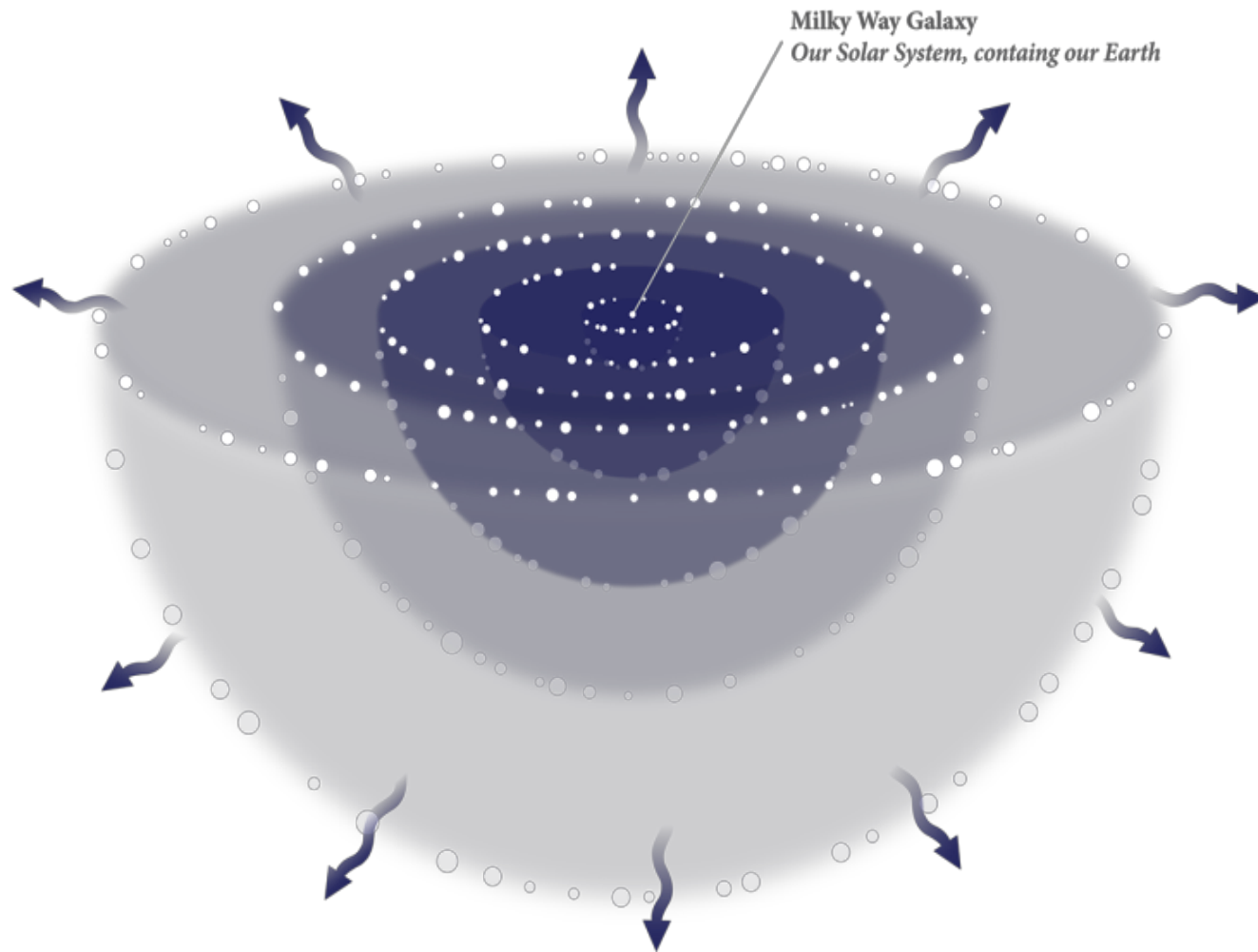
Cohen et al, Redshift clustering in the Hubble deep field, *Astrophysics and Astronomy*, 1996, **471**:L5-L9.



The notion of quantised redshifts of galaxies with our galaxy as the point of reference is shown pictorially below as our galaxy being surrounded by consecutive layers of galactic shells. That is, the whole cosmos wraps around us.



THE GALACTOCENTRIC UNIVERSE

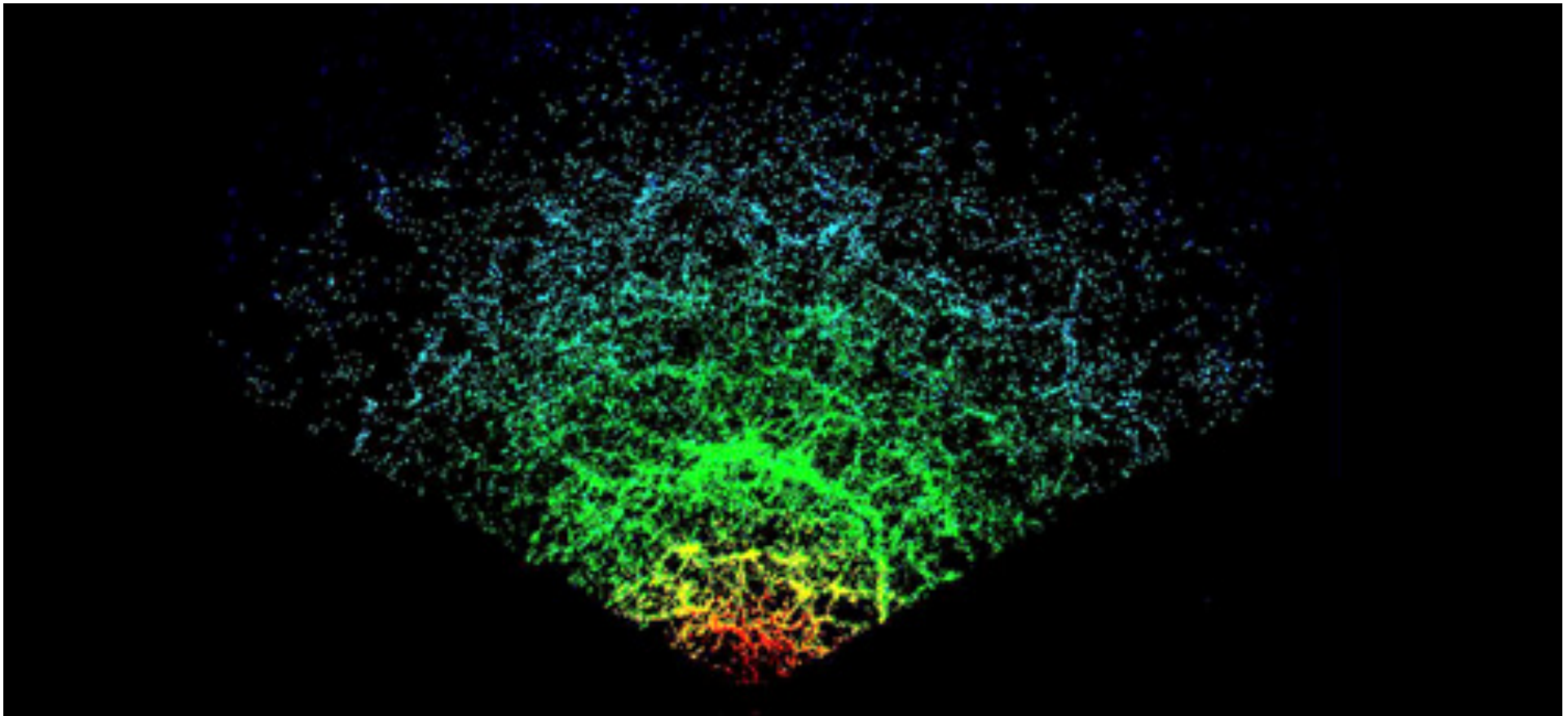


These findings have been in scientific journals now for about 45 years where they have been open to peer review, but the fact that our galaxy (The Milky Way) is at the centre of the universe and all of the other galaxies form shells around it, still stands.

Further measurements

On October 27, 2003, astronomers from the Sloan Digital Sky Survey (SDSS) announced the result of the largest astronomical survey ever undertaken, with more than 200 astronomers at 13 institutions around the world. The SDSS used among other sensitive instruments, a very sensitive digital camera that can take pictures of the night sky in various colours to determine the position and brightness on millions of celestial objects in one quarter of the entire sky.

Sloan Digital Sky Survey (SDSS) map, each point showing the position of galaxies with respect to Earth at the apex. Their distances were determined from their spectra to create a 2 billion light-year-deep 3D map where each galaxy is shown as a single point. Dr John Hartnett, Journal of Creation 24(2):105–107 August 2010.



Conclusion

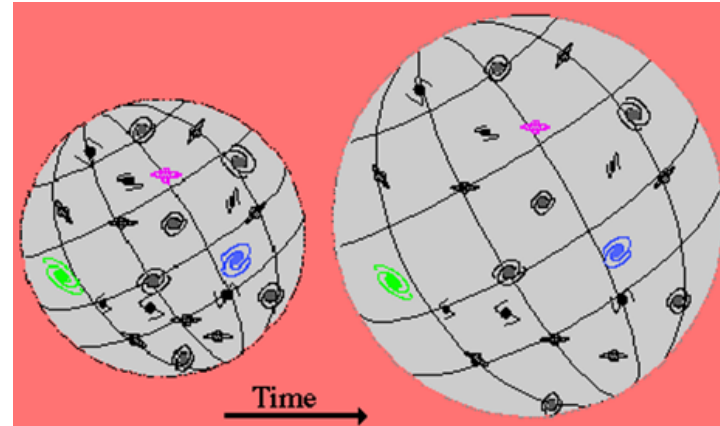
Edwin Hubble measured the absorption lines of hydrogen in the light coming from distant galaxies and found that they were red shifted.

Hubble shows through plotting his observations on a graph that the greater the red shift the greater the distance from earth is the galaxy.

Hubble and other astronomers realise the implications if all galaxies are moving away from us, which is the earth is at the centre of the universe.

Further evidence comes from observations that show the red shifts are quantised, that is the galaxies are in layers around us with earth being in the centre.

The standard Big Bang model has been totally discredited by these observations as it has all matter on the two dimensional surface of a balloon as it expands.



The largest survey ever under taken, the SDSS shows the cosmos is wrapped around our galaxy as is strongly implied by scripture:

God made two great lights—the greater light to govern the day and the lesser light to govern the night. He also made the stars. Genesis 1:16

The Big Bang model as a way of explaining what is observed is completely deficient and is a joke.

The biblical account of creation is consistent with astronomical observations and measurements.