

**SCIENTIFIC MIRACLES IN THE**



*and*

**ANIMALS**

Yusuf Al-Hajj Ahmad



**DARUSSALAM**  
GLOBAL LEADER IN ISLAMIC BOOKS



# Scientific Miracles In The Oceans & Animals

---

Written By: Yusuf Al – Hajj Ahmad

Translated By: Nasiruddin Al – Khattab (Canada)

Edited By: Huda Khattab (Canada)

Published By: Darussalam Publishers & Distributors

Copyright: Darussalam Publishers

---

## **ALL RIGHTS RESERVED**

No part of this book may be reproduced or utilize in any form or by any means, electronic or mechanical, including photocopying and recording or by any information storage and retrieval system, without the written permission of the publisher.



## Contents

<b>Author's Note .....</b>	<b>8</b>
<b>Scientific Miracles In The Oceans.....</b>	<b>10</b>
<b>Water and Life .....</b>	<b>11</b>
<b>Composition of Water .....</b>	<b>16</b>
Origin of Water.....	16
Water is of Extraterrestrial Origin .....	17
Water is of Earthly Origin .....	18
<b>Signs of Allah, the Exalted, In the Seas and Oceans.....</b>	<b>19</b>
The Vastness of the Oceans .....	19
<b>The Power of the Sea .....</b>	<b>20</b>
<b>Sea Creatures .....</b>	<b>22</b>
Amoeba .....	23
Sponge.....	23
Fish .....	23
Starfish .....	24
Coral .....	25
Pearl Oyster .....	25
<b>The Darkness of the Sea and the Movement of the Waves .....</b>	<b>27</b>
Linguistic Explanation.....	27
Explanations of the <i>Mufasssireen</i> (Exegetes) .....	27
Historical Introduction .....	27
Scientific Facts .....	28
Scientific Explanation .....	28
Layers of darkness of the deep sea .....	28
Movement of Internal Waves .....	29
Scientific References .....	31

The Miraculous Aspect .....	31
<b>Water Barriers .....</b>	<b>32</b>
Linguistic Interpretation .....	32
Comments of the <i>Mufassireen</i> .....	33
A Barrier Between the Freshwater River and the Salty Sea .....	33
Historical Introduction .....	34
Some Scientific Facts .....	34
Scientific Explanation .....	35
Barrier Between Two Salty Seas .....	35
Barrier Between Freshwater River and Salty Sea .....	36
Water Barrier Surrounding the Estuary Region .....	36
<b>The Estuary Region and the Characteristics of the Partition .....</b>	<b>38</b>
Scientific References .....	39
The Miraculous Aspect .....	39
<b>The Sea Set on Fire .....</b>	<b>40</b>
Summary .....	42
<b>Salinity of the Seas .....</b>	<b>44</b>
<b>Ocean Waves and Coastal Erosion .....</b>	<b>47</b>
Explanation .....	47
Scientific Explanation .....	47
<b>And ‘We Have Made from Water Every Living Thing’ .....</b>	<b>49</b>
<b>Scientific Miracles in the Animals .....</b>	<b>51</b>
<b>Signs of Allah, the Exalted, in the Animals .....</b>	<b>52</b>
The Digestive Tract of Animals .....	52
Predators .....	52
Ruminants .....	53
Birds and Domesticated Fowl .....	53
Bones of Animals .....	54

<b>Amazing Adaptations .....</b>	<b>56</b>
New Zealand Raven .....	56
Dragonflies .....	56
Frogs .....	57
Octopus .....	58
Fighting Fish .....	58
<b>Respiratory System in Animals .....</b>	<b>60</b>
<b>Wonders of Animals .....</b>	<b>61</b>
The Camel.....	64
Camel's Milk .....	69
<b>Homing Pigeons - The First News Agency in History .....</b>	<b>71</b>
<b>Migration of Birds .....</b>	<b>73</b>
<b>Bees – A Major Sign .....</b>	<b>76</b>
Summary .....	80
<b>The Colony of the Ants.....</b>	<b>82</b>
Summary .....	83
<b>The Spider .....</b>	<b>85</b>
Summary .....	87
<b>The Beaver – Dam Builder.....</b>	<b>89</b>
<b>The Owl (Tytonidae) and the Arabs' View about it and Hammah.....</b>	<b>91</b>
<b>Butterflies and Moths; Extraordinary Creatures.....</b>	<b>93</b>
Symmetry of Wings .....	94
<b>Mosquitoes.....</b>	<b>95</b>
<b>Houseflies.....</b>	<b>98</b>
<b>Nests Built for the Young.....</b>	<b>99</b>
How Birds Build their Comfortable Nests.....	100
The Nests Stitched by the Tailorbird .....	101
The Weaver Bird.....	101

The Nests of the Swallow .....	102
Penguins' Nests .....	103
Nest of Horned Birds .....	103
Nest Built by Different Creatures .....	104
<b>The Den of the Polar Bear.....</b>	<b>105</b>
<b>Alligator Dens.....</b>	<b>106</b>
<b>The Den of the Blacksmith Frog.....</b>	<b>107</b>
<b>Underwater Architects .....</b>	<b>108</b>
<b>How Do Animals Succeed in Doing these things? .....</b>	<b>109</b>
<b>The Silkworm which Operates According to a Multi-Stage Plan .....</b>	<b>110</b>
<b>Animals Living in one Family.....</b>	<b>111</b>
How the Members of a Family Recognize one another .....	111
<b>Adaptation to the Environment.....</b>	<b>113</b>
<b>Amazing Care Given by Living Creatures to their Eggs and the Young Ones .....</b>	<b>115</b>
The Emperor Penguin and His Unbelievable Patience .....	117
The Seahorse - The only species in which the male becomes pregnant .....	118
The Grunion Fish and a Journey Fraught with Danger .....	119
The Nest Built by Fish from Water Moss.....	119
The Gray Whale .....	120
The Cichlid and its Extraordinary Care of its Young Ones .....	120
The Devotion of the Ostrich .....	121
The Wolf Spider Carries its Young Ones in a Silken Sac.....	121
Care of Wild Bees for their Young Ones who will Never see them .....	122
Everything for the Sake of the Young Ones.....	122
<b>Feeding the Young Ones .....</b>	<b>126</b>
Divers or loons and the feathers which they offer as food to their young ones.....	126
The Guacharo Bird And the Long Distances it covers to Bring Food for its Young Ones.....	127
The Bustard that brings Water for its Young Ones to Drink.....	128

Insects and How they Feed their Young Ones.....	128
<b>Creatures Moving their Young Ones.....</b>	<b>130</b>
<b>Cooperation and Solidarity Among Living Beings.....</b>	<b>132</b>
<b>Living Creatures Warning one another of Approaching Danger .....</b>	<b>133</b>
Living Beings Confronting Danger Together .....	133
<b>Mutual Support and Cooperation among the Birds of Africa .....</b>	<b>135</b>
<b>Animals Cooperating at the Time of Birth.....</b>	<b>136</b>
Animals Nursing the Young Ones of Other Animals .....	136
<b>Signs of Sacrifice in the Ant Colony.....</b>	<b>137</b>
Images of Sacrifice in the Bees' Nest.....	138

## Author's Note

All praise is due to Allah (SWT). We praise Him and we seek for His assistance and forgiveness. We seek refuge with Him from the evils of our own souls and from our misdeeds. No one can mislead whomever Allah guides and no one can guide whomever Allah (SWT) causes to go astray.

I testify that there is no deity worthy of worship except Allah (SWT). He is One and He has no partner. I also testify that Muhammad (Peace and Blessings of Allah be upon him) is His Slave and Messenger. Allah (SWT) sent him with the religion of guidance so that it may prevail over all other religions even if the disbelievers dislike that.

Speaking about scientific miracles has become a necessity these days, as knowledge has made great and rapid strides that cannot be stopped even for a moment. Everyday there are new inventions and astounding discoveries. All this strengthens a Believer's faith and increases confusion in the confused person.

Allah (SWT) has blessed me with collecting all the conclusions that have been arrived at by the leaders in this art of scientific and medical miracles. I, then, decided that this compilation should comprehensively include every topic relating to miracles either from the Qur'an or from the authentic Sunnah. Some repetitions may be found in this work due to some benefits such as considering the differences in the scholars' methodologies of writing about one topic. The wisdom of this may be found in the popular saying: "You might find in a stream what you might not find in a sea."

Dear reader, on my part I have selected for you the most comprehensive, most authentic, most modern and most beautiful of these proofs. For the purpose of authentication, some of the specialists in these fields have shared their knowledge with me. I would mention, as an example, Dr. Muhammad Harb, a specialist obstetrician and gynecologist and Jihad 'Inayah and Mahir Kabab, who are both pharmacists. I am very grateful to them.

There is no doubt that this work that you are reading, as a first step on what the modern science has arrived at in our contemporary times, has already been mentioned in the Qur'an and mentioned by the Messenger of Allah, peace be upon him, more than 1,400 years ago. This is certainly not going to be the end either. There shall continue to be more and more discoveries that will show humanity that the Qur'an is truly Allah's Word. Allah says about the Qur'an:

﴿لَا يَأْتِيهِ الْبَاطِلُ مِنْ بَيْنِ يَدَيْهِ وَلَا مِنْ خَلْفِهِ تَنْزِيلٌ مِّنْ حَكِيمٍ حَمِيدٍ﴾

*"Falsehood cannot come to it from before it or behind it; (it is) sent down by the All-Wise, Worthy of all praise (Allah, Glorified and Exalted be He)." (Soorah Fussilat 41:42)*

He also says:

﴿وَمَا يَنْطِقُ عَنِ الْهَوَىٰ ۚ إِنْ هُوَ إِلَّا وَحْيٌ يُوحَىٰ﴾

*"Nor does he speak of (his own) desire. It is only a Revelation revealed." (Soorah An-Najm 53:3-4)*

This book includes two main topics. The main sections are:

1. Miracles in the sea
2. Miracles in animals

In short, these are the most important topics discussed in this work. I beseech Allah to make all that I have collected and written to make a reminder for those who have sound hearts, the ability to listen and have presence of mind, and to make it purely for His sake and to benefit me and the Muslims as a whole with it. Indeed, He has power over all things and He is worthy of accepting prayers. All praise is due to Allah, the Lord of the worlds. May the blessings and peace of Allah be upon our leader Muhammad, his family and his Companions.

Servant of the Sunnah,  
**Yusuf Al-Hajj Ahmad**

## Scientific Miracles In The Oceans

Modern images taken of the seas and oceans prove that the world's seas are not all the same in composition. Rather, they vary in temperature, salinity, density and oxygen content. In images taken by satellites each sea appears to be of a different color from the others. Some appear dark blue, some appear black and others appear yellow. This is due to the difference in temperature of each sea or ocean. In images taken from satellites using thermal imaging techniques, there also appears a thin white line separating one sea or ocean from another. This is what is called Barzakh (barrier).

Allah, the Exalted, says:

﴿مَرَجَ الْبَحْرَيْنِ يَلْتَقِيَانِ ﴿١٩﴾ يَنْهَمَا بَرَزَخٌ لَّا يَبْغِيَانِ﴾

*“He has let loose the two seas (the salt and freshwater) meeting together. Between them is a barrier which none of them can transgress.” (Soorah Al-Rahman, 55:19-20)*



## Water and Life



When Allah, the Exalted, created the Earth and the heavens, and He wanted to create man on this Earth, He created for him water that is essential for man and other living creatures around him.

Allah, Most High, says:

﴿أَوَلَمْ يَرِ الَّذِينَ كَفَرُوا أَنَّ السَّمَوَاتِ وَالْأَرْضَ كَانَتَا رَتْقًا  
فَفَقَعْنَاهُمَا وَجَعَلْنَا مِنَ الْمَاءِ كُلَّ شَيْءٍ حَيٍّ أَفَلَا يُؤْمِنُونَ﴾

*“Have not those who disbelieve known that the heavens and the Earth were joined together as one united piece, then We parted them? And We have made from water every living thing. Will they not then believe?” (Soorah Al-Anbiya’, 21:30)*

Water is the substance of life, the magic elixir without which life on this planet would be impossible. Allah, the Almighty, mentions water in the Qur’an 33 times in the indefinite form (Ma’un), and 16 times in the definite form (Al-Ma’).

Allah (SWT) reminds the Believers that He has sent down to them water which is essential for their lives, as He says:

﴿هُوَ الَّذِي أَنْزَلَ مِنَ السَّمَاءِ مَاءً لَكُمْ مِنْهُ شَرَابٌ وَمِنْهُ شَجَرٌ فِيهِ تُسِيمُونَ ﴿١٠﴾ يُنْبِتُ لَكُمْ بِهِ  
الزَّيْتُونَ وَالنَّخِيلَ وَالْأَعْنَابَ وَمِنْ كُلِّ الثَّمَرَاتِ إِنَّ فِي ذَلِكَ لَآيَةً لِقَوْمٍ يَعْلَمُونَ﴾

*“He it is Who sends down water (rain) from the sky; from it you drink and from it (grows) the vegetation on which you send your cattle to pasture. With it He causes to grow for you the crops, the olives, the date palms, the grapes, and every kind of fruit. Verily, in this is indeed an evident proof and a manifest Sign for people who give thought.” (Soorah Al-Nahl, 16:10-11)*

Allah, the Exalted, describes water as being blessed, i.e., productive and says:

﴿وَنَزَّلْنَا مِنَ السَّمَاءِ مَاءً مُبْرَكًا فَأَنْبَتْنَا بِهِ جَنَّاتٍ وَحَبَّ الْحَصِيدِ﴾

*“And We send down blessed water (rain) from the sky, then We produce therewith gardens and grain (every kind of harvests) that are reaped.” (Soorah Qaf, 50:9)*

The sending down of rain from the Heavens and reviving the earth after it is dead are signs of the existence of Allah, the Almighty. He says:

﴿إِنَّ فِي خَلْقِ السَّمَوَاتِ وَالْأَرْضِ وَاخْتِلَافِ اللَّيْلِ وَالنَّهَارِ وَالْفُلْكِ الَّتِي تَجْرِي فِي الْبَحْرِ بِمَا يَنْفَعُ النَّاسَ وَمَا أَنْزَلَ اللَّهُ مِنَ السَّمَاءِ مِنْ مَّاءٍ فَأَحْيَا بِهِ الْأَرْضَ بَعْدَ مَوْتِهَا وَبَثَّ فِيهَا مِنْ كُلِّ دَابَّةٍ وَتَصْرِيفِ الرِّيْحِ وَالسَّحَابِ الْمُسَخَّرِ بَيْنَ السَّمَاءِ وَالْأَرْضِ لَآيَاتٍ لِقَوْمٍ يَعْقِلُونَ﴾

*“Verily, in the creation of the heavens and the Earth, and in the alternation of night and day, and the ships which sail through the sea with that which is of use to mankind, and the water (rain) which Allah sends down from the sky and makes the earth alive therewith after its death, and the moving (living) creatures of all kinds that He has scattered therein, and in the veering of winds and clouds which are held between the sky and the Earth, are indeed Aayat (proofs, evidences and Signs, etc.) for people of understanding.” (Soorah Al-Baqarah, 2:164)*

﴿وَمِنْ آيَاتِهِ يُرِيكُمْ الْبَرْقَ خَوْفًا وَطَمَعًا وَيُنَزِّلُ مِنَ السَّمَاءِ مَاءً فَيُخْجِي بِهِ الْأَرْضَ بَعْدَ مَوْتِهَا إِنَّ فِي ذَلِكَ لَآيَاتٍ لِقَوْمٍ يَعْقِلُونَ﴾

*“And among His Signs is that He shows you the lightning, for fear and for hope, and He sends down water (rain) from the sky, and therewith revives the earth after its death. Verily, in that are indeed Signs for a people who understand.” (Soorah Al-Room, 30:24)*

Allah, Most High, reminds the disbelievers that He has made every living thing from water and says:

﴿أَوَلَمْ يَرِ الَّذِينَ كَفَرُوا أَنَّ السَّمَوَاتِ وَالْأَرْضَ كَانَا رَتْقًا فَفَنَقْنَاهُمَا وَجَعَلْنَا مِنَ الْمَاءِ كُلَّ شَيْءٍ حَيٍّ أَفَلَا يُؤْمِنُونَ﴾

*“Have not those who disbelieve known that the heavens and the Earth were joined together as one united piece, then We parted them? And We have made from water every living thing. Will they not then believe?” (Soorah Al-Anbiya', 21:30)*

Allah, the Exalted, describes water as being one of the blessings of Paradise, and states that the people of Hell will be tormented by being deprived of it. He says:

﴿وَنَادَىٰ أَصْحَابُ النَّارِ أَصْحَابَ الْجَنَّةِ أَنِ افْضُوا عَلَيْنَا مِنَ الْمَاءِ أَوْ مِمَّا رَزَقَكُمُ اللَّهُ قَالُوا إِنَّ اللَّهَ حَرَّمَهُمَا عَلَى الْكَافِرِينَ ﴿٥٠﴾ الَّذِينَ اتَّخَذُوا دِينَهُمْ لَهْوًا وَلَعِبًا وَغَرَّتْهُمُ الْحَيَاةُ الدُّنْيَا فَالْيَوْمَ نَنْسَاهُمْ كَمَا نَسُوا لِقَاءَ يَوْمِهِمْ هَذَا وَمَا كَانُوا بِعَائِنِنَا يُجْحَدُونَ﴾

“And the dwellers of the Fire will call on the dwellers of Paradise: ‘Pour on us some water or anything that Allah has provided you with.’ They will say: ‘Both (water and provision) Allah has forbidden to the disbelievers who took their religion as an amusement and play, and the life of the world deceived them. So this day We shall forget them as they forgot their meeting of this day, and as they used to reject Our Aayat (proofs, evidences, Verses, lessons, Signs and revelations, etc.).’”  
(Soorah Al-A ‘raf, 7:50-51)



He also describes water as one of the forces of Allah, the Exalted, and a means of destroying the disbelievers:

﴿حَقَّ إِذَا جَاءَ أَمْرُنَا وَفَارَ التَّنُّورُ قُلْنَا احْمِلْ فِيهَا مِنْ كُلِّ زَوْجَيْنِ اثْنَيْنِ وَأَهْلَكَ إِلَّا مَن سَبَقَ عَلَيْهِ الْقَوْلُ وَمَنْ ءَامَنَ وَمَا ءَامَنَ مَعَهُ إِلَّا قَلِيلٌ ﴿٤٠﴾﴾ وَقَالَ ارْكَبُوا فِيهَا بِسْمِ اللَّهِ مَجْرِبَهَا وَمُرسَهَا إِنَّ رَبِّي لَغَفُورٌ رَّحِيمٌ ﴿٤١﴾ وَهِيَ تَجْرِي بِهِمْ فِي مَوْجٍ كَالْجِبَالِ وَنَادَىٰ نُوحٌ ابْنَهُ، وَكَانَ فِي مَعْزِلٍ يَبْنَىٰ أَرَكَبَ مَعَنَا وَلَا تَكُنْ مَعَ الْكَافِرِينَ ﴿٤٢﴾ قَالَ سَتَأَوِي إِلَىٰ جَبَلٍ يَعْصِمُنِي مِنَ الْمَاءِ قَالَ لَا عَاصِمَ الْيَوْمَ مِنْ أَمْرِ اللَّهِ إِلَّا مَنْ رَحِمَ وَحَالَ بَيْنَهُمَا الْمَوْجُ فَكَانَ مِنَ الْمُغْرَقِينَ ﴿٤٣﴾ وَقِيلَ يَتَّأَرَضُ ابْنُكَ مَاءً لِكَوْنِهِ أَفَلَيْ غَضِ الْمَاءِ وَقُضِيَ الْأَمْرُ وَأُسْتُوتِرَ عَلَى الْجُودِيِّ وَقِيلَ بُعْدًا لِلْقَوْمِ الظَّالِمِينَ﴾

“(So it was) till when Our Command came and the oven gushed forth (water like fountains from the earth). We said: ‘Embark therein, of each kind two (male and female), and your family — except him against whom the Word has already gone forth — and those who believe. And none believed with him, except a few.’ And he [Nooh (Noah)] said: ‘Embark therein: in the Name of Allah will be its (moving)

course and its (resting) anchorage. Surely, my Lord is Oft-Forgiving, Most Merciful'. " So it (the ship) sailed with them amid waves like mountains, and Nooh called out to his son, who had separated himself (apart), 'O my son! Embark with us and be not with the disbelievers.' The son replied, 'I will betake myself to some mountain, it will save me from the water.' Nooh said, 'This day there is no savior from the Decree of Allah except him on whom He has Mercy.' And waves came in between them, so he (the son) was among the drowned. And it was said: 'O earth! Swallow up your water, and O sky! Withhold (your rain).' And the water was made to subside and the Decree (of Allah, the Exalted) was fulfilled (i.e. the destruction of the people of Nooh). And it (the ship) rested on (Mount) Judi, and it was said: 'Away with the people who are zalimoon (polytheists and wrongdoers)'!" (Soorah Hood, 11:40-44) [Tafseer At-Tabari]

Allah, the Exalted, mentions one of the benefits of water, which is purification:

﴿إِذْ يُغَشِّيكُمُ النُّعَاسَ أَمَنَةً مِنْهُ وَيُنْزِلُ عَلَيْكُمْ مِنَ السَّمَاءِ مَاءً لِيُطَهِّرَكُم بِهِ وَيُذْهِبَ عَنْكُمْ رِجْزَ الشَّيْطَانِ وَلِيَرْبِطَ عَلَى قُلُوبِكُمْ وَيُثَبِّتَ بِهِ الْأَقْدَامَ﴾

"(Remember) when He covered you with a slumber as a security from Him, and He caused water (rain) to descend on you from the sky, to clean you thereby and to remove from you the Rijz (whispering, evil suggestions) of Shaitan (Satan), and to strengthen your hearts, and make your feet firm thereby." (Soorah Al-Anfal, 8:11)

﴿وَهُوَ الَّذِي أَرْسَلَ الرِّيحَ بُشْرًا بَيْنَ يَدَيْ رَحْمَتِهِ وَأَنْزَلْنَا مِنَ السَّمَاءِ مَاءً طَهُورًا﴾

"And it is He Who sends the winds as heralds of glad tidings, going before His Mercy (rain); and We send down pure water from the sky." (Soorah Al-Furqan, 25:48)

Allah, Most High, enjoins us to perform Wudhoo (ablution) at the time of every prayer and Ghusl (ritual bath) with water every time we enter a state of Janabah (sexual impurity). Allah (SWT) says:

﴿يَا أَيُّهَا الَّذِينَ ءَامَنُوا إِذَا قُمْتُمْ إِلَى الصَّلَاةِ فَاغْسِلُوا وُجُوهَكُمْ وَأَيْدِيَكُمْ إِلَى الْمَرَافِقِ وَامْسَحُوا بِرُءُوسِكُمْ وَأَرْجُلَكُمْ إِلَى الْكَعْبَيْنِ وَإِنْ كُنْتُمْ جُنُبًا فَاطَّهَّرُوا وَإِنْ كُنْتُمْ مَرْضَىٰ أَوْ عَلَىٰ سَفَرٍ أَوْ جَاءَ أَحَدٌ مِنْكُم مِّنَ الْغَائِطِ أَوْ لَمَسْتُمُ النِّسَاءَ فَلَمْ يَجِدُوا مَاءً فَتَيَمَّمُوا صَعِيدًا طَيِّبًا فَامْسَحُوا بِوُجُوهِكُمْ وَأَيْدِيكُمْ مِنْهُ مَا يُرِيدُ اللَّهُ لِيَجْعَلَ عَلَيْكُمْ مِنْ حَرَجٍ وَلَٰكِنْ يُرِيدُ لِيُطَهِّرَكُمْ وَلِيُتِمَّ نِعْمَتَهُ عَلَيْكُمْ لَعَلَّكُمْ تَشْكُرُونَ﴾

"O you who believe! When you intend to offer Salah (the prayer), wash your faces and your hands (forearms) up to the elbows, rub (by passing wet hands over) your heads, and (wash) your feet up to the ankles. If you are in a state of Janabah (i.e. after a sexual discharge), purify yourselves (bathe your whole body). But if you are ill or on a journey, or any of you comes after answering the call of nature, or you have been in contact with women (i.e. sexual intercourse), and you find no water, then perform Tayammum with clean earth and rub therewith your faces and hands. Allah does not want to place you in difficulty, but He wants to purify you, and to complete His Favor to you that you may be thankful." (Soorah Al-Ma'idah, 5:6)

The Messenger of Allah, peace and blessings be upon him, commanded us to be economical in our use of water and not be extravagant.

It was narrated that once he passed by the Companion Sa'd Ibn Abi Waqqas, may Allah be pleased with him, when he was performing ablution and said: "What is this extravagance?"

Sa'd asked, "Is there any extravagance in doing Wudhoo?"

The Messenger of Allah, peace and blessings be upon him, said: "Yes, even if you are by a flowing river." (Hadith: hasan, narrated by Ibn Majah)

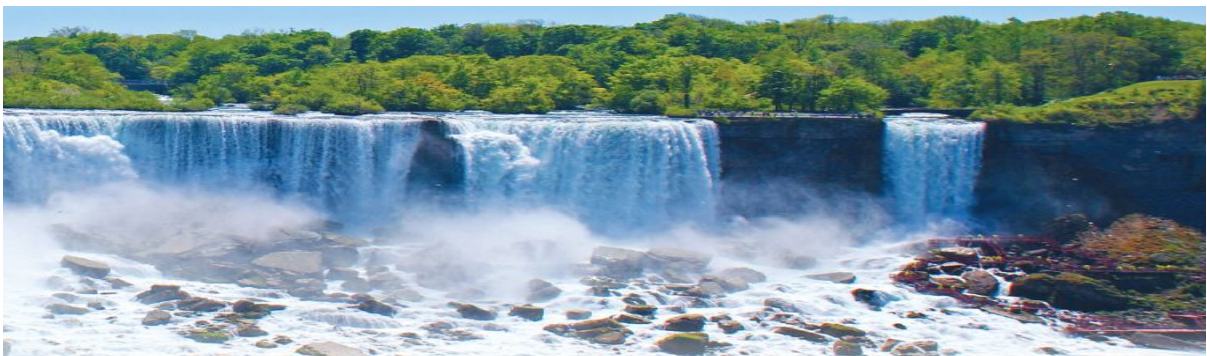
## Composition of Water



Water consists of particles that are firmly attached to one another. A molecule of water consists of one atom of oxygen attached to two atoms of hydrogen. The atoms are joined by chemical bonds which are forces of attraction that hold atoms together. It is the bonds between atoms that give molecules different properties than the atoms they are composed of. The oxygen-hydrogen bond is polar, one end of the molecule is partially negative whilst the two hydrogen atoms become partially positive. The molecules of water are attracted to one another, with the slightly positive hydrogen atoms attracted to the negative “ends” (the oxygen atoms) of other water molecules. This intermolecular attraction is termed “hydrogen bonding”, and acts almost like a glue holding the molecules of water together. In the case of water the effect on the physical properties of water are quite astounding, the boiling point of water, for example, is very much greater than would be the case if such bonding did not exist. This fact alone should make human beings and other living creatures grateful for the unique physical and chemical properties of water.

## Origin of Water

There are a number of theories which explain the origin of water on Earth. These theories include the following:



## Water is of Extraterrestrial Origin

In brief, this theory says that water came to Earth from outer space: there are rays which flow continuously throughout the universe, consisting of particles that are endowed with great energy and containing nuclei of hydrogen atoms, i.e. protons. As the Earth rotated on its axis and around the sun, these protons penetrated the Earth's atmosphere and acquired the necessary electrons, thus forming hydrogen atoms which interacted directly with oxygen and formed molecules at a high altitude under very low temperatures. These condensed into particles of space dust, forming silver clouds. Scientists also believe that the water which was formed in this way during the long period of the Earth's formation was sufficient to fill all the oceans on Earth.

In the Holy Qur'an, Allah, The Exalted, mentions this phenomenon, as He says that He sent down water from heavens. He mentions water without a definite article so as to indicate that water in general came down from heavens. This appears in more than twenty Verses, including the following:

﴿الَّذِي جَعَلَ لَكُمُ الْأَرْضَ فِرَاشًا وَالسَّمَاءَ بِنَاءً وَأَنْزَلَ مِنَ السَّمَاءِ مَاءً فَأَخْرَجَ بِهِ مِنْ الثَّمَرَاتِ رِزْقًا لَكُمْ فَلَا تَجْعَلُوا لِلَّهِ أَنْدَادًا وَأَنْتُمْ تَعْلَمُونَ﴾

*“Who has made the Earth a resting place for you, and the sky as a canopy, and sent down water (rain) from the sky and brought forth therewith fruits as a provision for you. Then do not set up rivals unto Allah (in worship) while you know (that He Alone has the right to be worshipped).” (Soorah Al-Baqarah, 2:22)*



﴿وَهُوَ الَّذِي أَنْزَلَ مِنَ السَّمَاءِ مَاءً فَأَخْرَجْنَا بِهِ نَبَاتَ كُلِّ شَيْءٍ فَأَخْرَجْنَا مِنْهُ خَضِرًا نُخْرِجُ مِنْهُ حَبًّا مُتَرَاكِبًا وَمِنَ النَّخْلِ مِنْ طَلْعِهَا قِنْوَانٌ دَانِيَةٌ وَجَنَّاتٍ مِنْ أَعْنَابٍ وَالزَّيْتُونَ وَالرُّمَّانَ مُشْتَبِهًا وَغَيْرَ مُتَشَبِهٍ انْظُرُوا إِلَى ثَمَرِهِ إِذَا أَثْمَرَ وَيَنْعِهِ إِنَّ فِي ذَلِكَ لَآيَاتٍ لِقَوْمٍ يُؤْمِنُونَ﴾

*“It is He Who sends down water (rain) from the sky, and with it We bring forth vegetation of all kinds, and out of it We bring forth green stalks, from which We bring forth thick clustered grain. And out of the date-palm and its spathe come forth clusters of dates hanging low and near, and gardens of grapes, olives and pomegranates, each similar (in kind) yet different (in variety and taste). Look at*

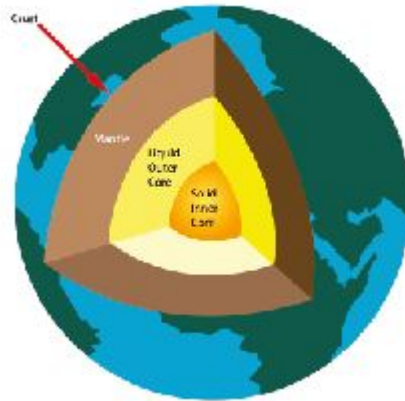
their fruits when they begin to bear, and the ripeness thereof. Verily, in these things there are Signs for people who believe.” (Soorah Al-An‘am, 6:99)

﴿إِذْ يُغَشِّيكُمُ النُّعَاسَ أَمْنَةً مِّنْهُ وَيُنْزِلُ عَلَيْكُم مِّنَ السَّمَاءِ مَاءً لِّيُطَهِّرَكُم بِهِ  
وَيُذْهِبَ عَنْكُم رِجْزَ الشَّيْطَانِ وَلِيَرْبِطَ عَلَى قُلُوبِكُمْ وَيُثَبِّتَ بِهِ الْأَقْدَامَ﴾

“(Remember) when He covered you with a slumber as a security from Him, and He caused water (rain) to descend on you from the sky, to clean you thereby and to remove from you the Rijz (whispering, evil suggestions) of Shaitan (Satan), and to strengthen your hearts, and make your feet firm thereby.” (Soorah Al-Anfal, 8:11)

﴿أَنْزَلَ مِنَ السَّمَاءِ مَاءً فَسَالَتْ أَوْدِيَةٌ بِقَدَرِهَا فَاحْتَمَلَ السَّيْلُ زَبَدًا رَّابِيًا وَمِمَّا يُوقِدُونَ عَلَيْهِ فِي النَّارِ  
أَبْتِغَاءَ حِلْيَةٍ أَوْ مَتَاعٍ زَبَدٌ مِّثْلُهَا كَذَلِكَ يُضْرِبُ اللَّهُ الْحَقَّ وَالْبَاطِلَ فَأَمَّا الزَّبَدُ فَيَذْهَبُ جُفَاءً وَأَمَّا مَا يَنْفَعُ  
النَّاسَ فَيَمْكُتُ فِي الْأَرْضِ كَذَلِكَ يَضْرِبُ اللَّهُ الْأَمْثَالَ﴾

“He sends down water (rain) from the sky, and the valleys flow according to their measure, but the flood bears away the foam that mounts up to the surface — and (also) from that (ore) which they heat in the fire in order to make ornaments or utensils, rises a foam like unto it, thus does Allah (by parables) show forth truth and falsehood. Then, as for the foam it passes away as scum upon the banks, while that which is for the good of mankind remains in the earth. Thus Allah sets forth parables (for the truth and falsehood, i.e. belief and disbelief).” (Soorah Al-Ra‘d, 13:17)



## Water is of Earthly Origin

In brief, this theory states that the rocks which form the layer (mantle) between the Earth’s core and its crust melt in some places as a result of the heat emanating from radioactive fission of radioactive substances, which releases components such as ozone and chlorine, and the various compounds of carbon and sulphur, but most of what is released is water. And Allah, Most High, knows best.