

Scientific Miracles in the

OCEANS

and

ANIMALS

Yusuf Al-Hajj Ahmad

Translation

Nasiruddin al-Khattab (Canada)

Edited by:

Huda Khattab (Canada)



DARUSSALAM

GLOBAL LEADER IN ISLAMIC BOOKS

Riyadh • Jeddah • Al-Khobar • Sharjah
Lahore • London • Houston • New York



Contents

- Author's Note9
- Scientific Miracles in the Oceans12
- Water and Life.....14
- Composition of Water20
- Origin of Water22
- Water is of extraterrestrial origin22
- Water is of Earthly origin26
- The vastness of the Oceans28
- The Power of the Sea30
- Sea Creatures33
- Amoeba35
- Sponge.....36
- Fish.....37
- Starfish38
- Coral.....39
- Pearl oyster.....41
- The darkness of the Sea and the movement of the Waves42
- Verses concerning this miracle.....42
- Linguistic explanation.....43
- Explanations of the Mufasssireen (exegetes)43
- Historical introduction43
- Scientific facts45
- Scientific explanation.....45
- Layers of darkness of the deep sea45
- Movement of internal waves.....47
- Scientific references50
- The miraculous aspect.....51

➤ Water barriers.....	53
➤ Linguistic interpretation.....	54
➤ Comments of the Mufasssireen.....	55
➤ A barrier between the freshwater river and the salty sea.....	55
➤ Historical introduction.....	56
➤ Some scientific facts.....	57
➤ Scientific explanation.....	58
➤ Barrier between two salty seas.....	58
➤ Barrier between freshwater river and salty sea.....	60
➤ Water barrier surrounding the estuary region.....	62
➤ The estuary region and the characteristics of the partition.....	63
➤ Scientific references.....	64
➤ The miraculous aspect.....	65
➤ The Sea Set on Fire.....	66
➤ Salinity of the seas.....	73
➤ Ocean waves and coastal erosion.....	77
➤ Explanation.....	78
➤ Scientific Explanation.....	79
➤ And ‘ We have made from water every living thing’.....	81
➤ Scientific Miracles in the Animals.....	84
➤ Signs of Allah, the Exalted, in the animals.....	86
➤ The digestive tract of animals.....	86
➤ Predators.....	87
➤ Ruminants.....	88
➤ Birds and domesticated fowl.....	90
➤ Bones of animals.....	92
➤ Amazing adaptations.....	94
➤ New Zealand Raven.....	94
➤ Dragonflies.....	95
➤ Frogs.....	96
➤ Octopus.....	97



➤ Fighting fish	98
➤ Respiratory system in animals	100
➤ Wonders of animals.....	101
➤ The Camel	112
➤ Camel's milk.....	123
➤ Homing pigeons, the first news agency in history	126
➤ Migration of birds	130
➤ Bees – a major sign	136
➤ The colony of the ants.....	146
➤ The Spider.....	151
➤ The Beaver – Dam Builder	158
➤ The Owl (Tytonidae) and the Arabs'View about it and Hammah.....	161
➤ Butterflies and Moths; Extraordinary Creatures	163
➤ Symmetry of wings	166
➤ Mosquitoes	168
➤ Houseflies.....	174
➤ Nests built for the young.....	176
➤ How birds build their comfortable nests.....	179
➤ The nests stitched by the tailorbird	181
➤ The weaver bird	182
➤ The nests of the swallow	184
➤ Penguins' nests.....	186
➤ Nest of horned birds.....	186
➤ Nest built by different creatures	188
➤ The den of the polar bear	190
➤ Alligator dens.....	192
➤ The den of the blacksmith frog	193
➤ Underwater architects	194
➤ How do animals succeed in doing these things?.....	196
➤ The silkworm which operates according to a multi-stage plan.....	197
➤ Animals living in one family	200

➤ How the members of a family recognize one another	201
➤ Adaptation to the environment.....	204
➤ Amazing care given by living creatures to their eggs and the young ones..	208
➤ The emperor penguin and his unbelievable patience.....	213
➤ The Seahorse The only species in which the male becomes pregnant.....	215
➤ The grunion fish and a journey fraught with danger.....	216
➤ The nest built by fish from water moss	218
➤ The gray whale.....	219
➤ The cichlid and its extraordinary care of its young ones	220
➤ The devotion of the ostrich	222
➤ The wolf spider carries its young ones in a silken sac.....	223
➤ Care of wild bees for their young ones who will never see them	224
➤ Everything for the sake of the young ones.....	226
➤ Insects also protect their young ones	231
➤ Feeding the young ones	232
➤ Divers or loons and the feathers which they offer as food to their young ones	233
➤ The guacharo bird And the long distances it covers to bring food for its young ones.....	235
➤ The bustard that brings water for its young ones to drink	237
➤ Insects and how they feed their young ones	239
➤ Creatures moving their young ones	241
➤ Cooperation and solidarity among living beings	244
➤ Living creatures warning one another of approaching danger.....	246
➤ Living beings confronting danger together.....	246
➤ Mutual support and cooperation among the birds of Africa	249
➤ Animals cooperating at the time of birth	250
➤ Animals nursing the young ones of other animals.....	251
➤ Signs of sacrifice in the ant colony	253
➤ Images of sacrifice in the bees' nest.....	254

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﴾ بَيْنَهُمَا بَرْزَخٌ لَا 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 كَانَا رَتْقًا
فَفَنَقْنَهُمَا وَجَعَلْنَا مِنَ الْمَاءِ كُلَّ شَيْءٍ حَيٍّ أَفَلَا يُؤْمِنُونَ﴾

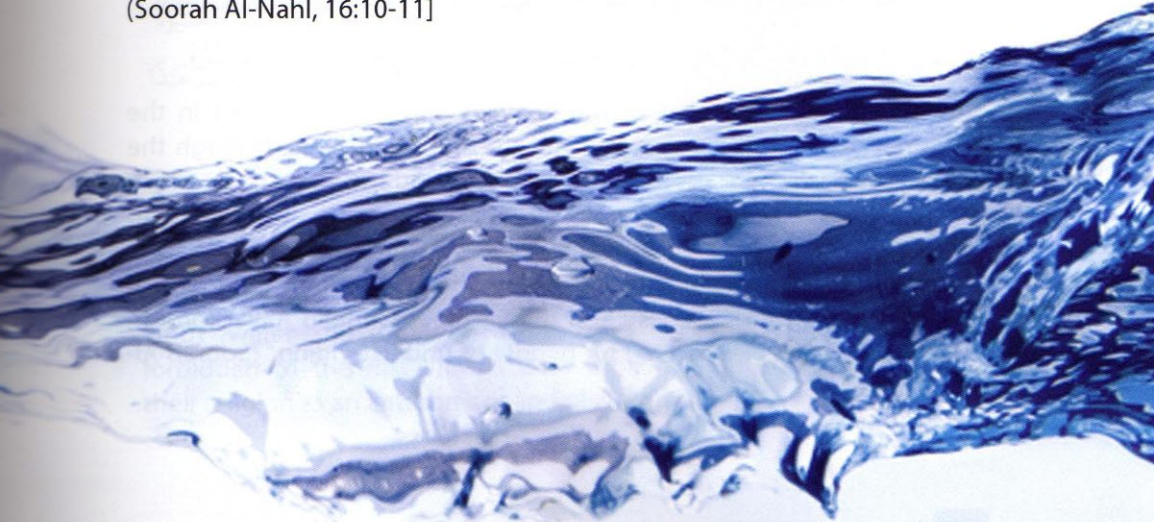
"Have not those who disbelieve known that the heavens and the Earth were joined together as one united piece, then We parted them? And We have made from water every living thing. Will they not then believe?" (Soorah Al-Anbiya, 21:30)

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 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﴾ يُنبِتُ لَكُمْ بِهِ
الزَّيْتُونَ وَالزُّبَيْبُونَ وَالنَّخِيلَ وَالْأَعْنَابَ وَمِنْ كُلِّ الثَّمَرَاتِ إِنَّ فِي ذَلِكَ لَآيَةً لِقَوْمٍ يَتَفَكَّرُونَ﴾

"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)





Sea Creatures

Scientists draw our attention to the wonderful world that swims in a drop of water, and invite us to ponder the living creatures in it, coming and going; how amazing their bodies are! Watch them as they seek their provision, attack their prey, flee from their enemies. All you can do is acknowledge that just as man has feelings, similar feelings also reside in the hearts of creatures too small to be seen.

The ocean is full of life. The number of species that exist in the seas is far greater than the number of species that exist on land.



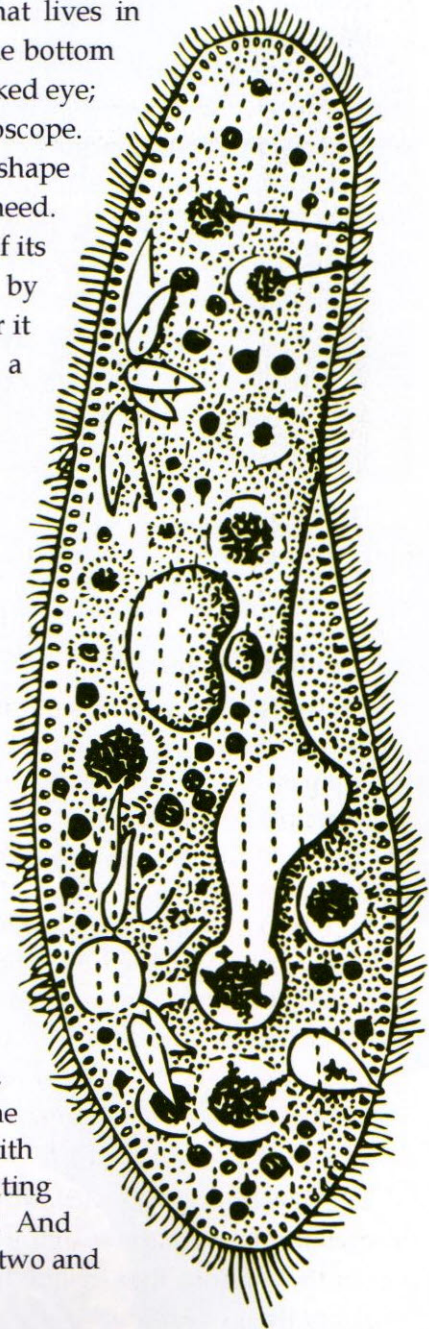
Amoeba

The amoeba is a tiny creature that lives in swamps and ponds or on rocks at the bottom of the sea. It cannot be seen by the naked eye; it is visible only with the aid of a microscope. It is an invertebrate that changes shape according to circumstances and need. When it moves, it stretches out part of its body to form something like a foot, by means of which it moves to wherever it wants to go. This extension is called a pseudopodium ("false foot").



When the amoeba finds food, it seizes it with one or two pseudopodia, excretes some digestive substances, and absorbs nutrients from it. The waste is then expelled from its body.

It breathes with its entire body, taking oxygen from the water. Imagine this creature which cannot be seen with the naked eye, living and moving, eating and breathing, expelling its waste! And when it is fully grown, it divides into two and each part forms a new creature.



Signs of Allah, the Exalted, in the animals

Allah says:

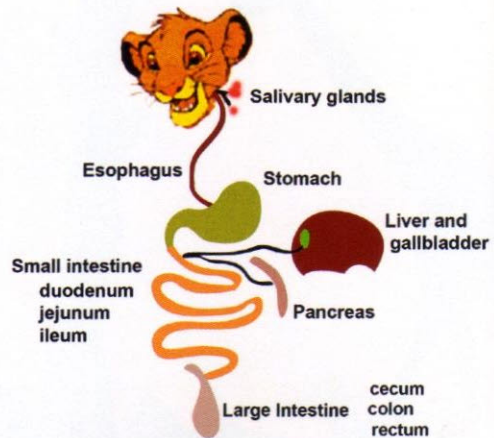
﴿ وَمَا مِنْ دَابَّةٍ فِي الْأَرْضِ وَلَا طَائِرٍ يَطِيرُ بِجَنَاحَيْهِ إِلَّا أُمَمٌ أَمْثَالُكُمْ مَا فَرَّطْنَا فِي الْكِتَابِ مِنْ شَيْءٍ ثُمَّ إِلَيْنَا رُجُوعُهُمْ ﴾

“There is not a moving (living) creature on Earth, nor a bird that flies with its two wings, but are communities like you. We have neglected nothing in the Book, then, unto their Lord they (all) shall be gathered.”
(Soorah Al-An'am, 6:38)

Animals may be regarded as an open book for everyone who wants to study the wonders of life in living creatures. Scientists estimate that there are more than two million animal genera (sing. Genus) but until now only a small portion of them has been studied, but this study of this small portion has resulted in belief in the existence of Allah, Most High, Who created it and shaped in due proportion (cf. *Soorah Al-Qiyamah* 75:38).

The digestive tract of animals

There are many places in which animals exist, and their digestive systems vary greatly to suit the environment in which an animal lives and the food that is available to it. The mouth is the first stage of the digestive process, and it has been designed in such a way that it speaks of the glory of its Creator.

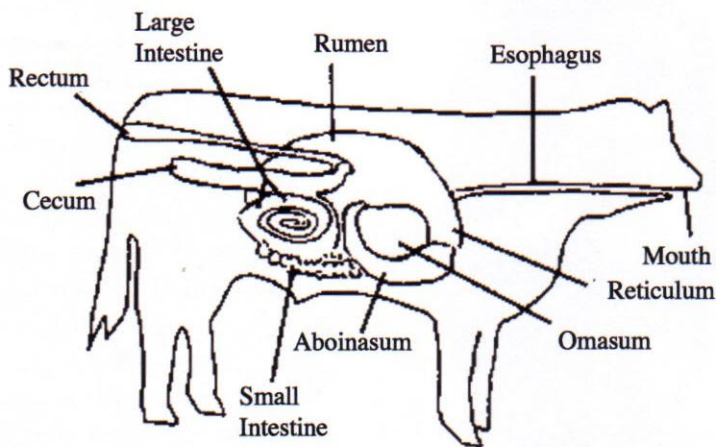


Ruminants

Some animals live by grazing and are looked after by man, who provides them with a basic diet of plants and shrubs. These animals include cattle, buffalo, sheep, goats and others.



Their digestive systems have a design that is suited to their environment. Their mouths are relatively wide and do not have strong canines or molars; rather they have teeth that enable them to clip grass and plants quickly and swallow them in one go, so that they are able to provide man with the services for which they were created. By the design of Allah, the Exalted, these animals have been created with a most amazing digestive system. The food that is consumed enters the first stomach or rumen, where it is stored, then, when the animal ceases activities and lays down to rest, the food is returned via the second stomach (reticulum) to the mouth where it is chewed thoroughly, then it



DIGESTIVE SYSTEM OF THE BOVINE

