

Lighthouses, Sea Wizards, Polish coast and Grandchild

Stories are promoting sea coast, each is connected with different Sea Wizzard that lives in different lighthouse – from Szczecin Lagoon to Krynica Morska. Here the first six stories are presented, new are in preparation.



In each story, one adventure is presented. The Grandchild is getting familiar with some water microorganisms, learns about their role in ecosystem and observes important natural phenomena (eutrophication, hypoxia etc.). Books are prepared by professional marine scientists, contain real information, presented in light form.



Knowledge in stories – some organisms that play a role...



That how look Tardigrada – the water bear. Is so small that you cant see it without microscope, its smaller that little dot in this text. Tardigrades live almost everywhere – from the depth of the ocean, to the shallows, wet soil and on land plants. Water bears moves slowly on eight fat legs pointed with suction or little claws. There are many species of Tardigrades, that differs in shape and plays different role in nature. One is a vegetarian, other predator, another one feeds on bacteria. Their peculiar characteristics is un compared durability and resistance to hot, cold, drying and hunger. It is believed that Tardigrada are the only living creatures, that can survive in the Space.



Harpacticoida are the minute crustaceans, relatives of crayfish. They live among sand grains in the beach and in many other sea spaces. Their coloration is often sandy or greenish, use to be vegetarians and can swim fast. Their hairy antennae help them to detect food from a distance.



Turbellaria are smaller than the dot in this text. They often are colored and some species possess distinc eyes in the front of the head. Most of Turbellaria are voracious carnivores, that dwell among sand grains and hunt for smaller animals. In Europe alone, more than 1000 species of minute Turbellaria were described.



Oligochaeta are relatives to earthworms, yet are much smaller, usually equal to the – sign in this text. They feed on decaying plants and can expand and constrict their segmented body, while moving among sand grains in the beach. Oligochaeta are very common in shallow waters, soil, sands – there are more than 1000 species of this kind in Europe.



Gastrotricha are miniature, scale covered animals, most often the size of the dot in the text. They are carnivorous, can swim fast among sand grains in wet beach. Although they can be very numerous there are not many different species in this kind – below 100 were described so far.

Adventures in an unknown world

Marine fairy tales meant for kids 6-12 years old. The Grandchild guided by Sea Wizards is introduced to the little known world of microscopic organisms and their functions.



Each tale presents one adventure. Books are prepared by professional marine biologists, who demonstrate real processes and phenomena.

Books are richly illustrated in the fairy tale part, and at the end the real organisms are presented with their basic characteristics. Our goal is to built public concern about biodiversity and the role of the sea in our life.

<http://book.impan.gda.pl/projects/illustracje/index.html>

1.

Green water

(published - ISBN 978-83-931394-8-4)

Auth. J. M. Węśławski i Lech Kotwicki,
illustr. Grażyna Rigall.

Sea Wizzard from the Sopot Lighthouse demonstrates to the Grandson who is responsible for the phytoplankton bloom and what are the roots of the problem. Kids will learn about variety of microbes and learn who is the fastest in the Microcosmos.

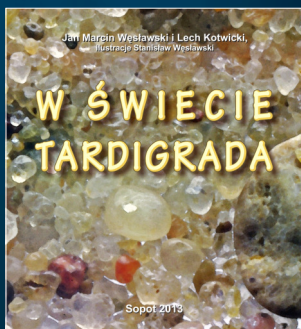
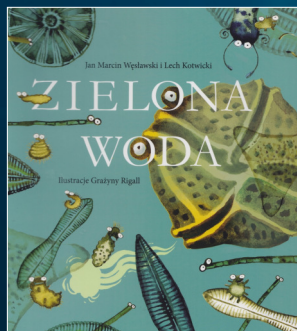
2.

In the World of Tardigrada

(published - ISBN 978-83-936609-0-2)

Auth. J.M. Węśławski i Lech Kotwicki,
illustr. Stanisław Węśławski.

Stilo Lighthouse Wizzard shows where the clean water is to be found on the hot, summer beach, who lives among sand grains, and how Tardigrades can survive the Space travel.



3.

Who will save the beach ?

Auth. J.M. Węśławski i Lech Kotwicki,
illustr. Karol Żbikowski.

Sea Wizzard from Rowy Lighthouse shows what happens to the marine sand during storm, what is the role of marine organisms in the coastal protection.

4.

Nematoda adventure

Auth. Lech Kotwicki i J.M. Węśławski,
illustr. ND.

Sea Wizzard from Ustka shows the variety of Nematoda, their different roles in the importance for the ecosystem and relations to humans.

5.

Who bite me ?

Auth. J.M. Węśławski i Lech Kotwicki,
illustr. Jan Erszkowski.

Sea Wizzard from the Szczecin Lagoon Lighthouse helps to find differences between bugs that may bite you at the brackish water meadow, with special reference to the Black fly.

6.

Hypoxia

(w przygotowaniu)

Auth. J.M. Węśławski i Lech Kotwicki,
illustr. Siergiej Kanarski.

Władysławowo Lighthouse inhabitant – Sea Wizzard shows to the Grandson why the water smells badly and who may help to combat the oxygen deficiency.

Illustrators – each story is being illustrated by different artist, each one in different style :

Jan Erszkowski

Michał Erszkowski

Siergiej Kanarski

Grażyna Rigall

Stanisław Węśławski

Karol Żbikowski



Authors:

Jan Marcin Węśławski

Lech Kotwicki

