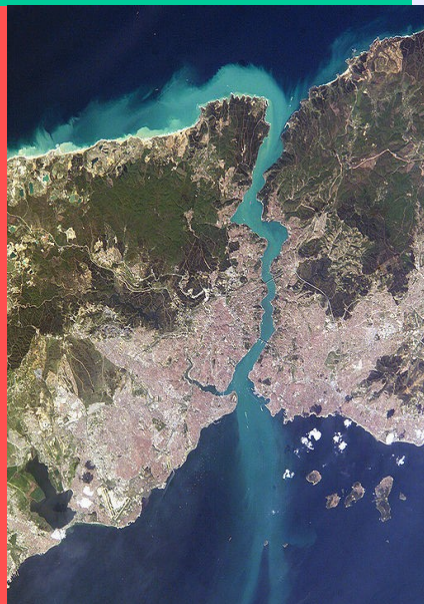


A paradise journey

Oceanographic adventure

The SESAME Project contains in making our own diary of an 6 days expedition we took part in. We went in Bosphorus and talk to a planktologist. This study was carried out to present the species of the Crustacea

fauna of the Bosphorus. It was seen that totally 94 crustacean species had been recorded from this region and Amwtsand Decapoda was the second in respect to the



species number, with 37 and 36 species, respectively.

7TH APRIL
2009

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CONTENTS OF THE PAGES 2,3,4:

- *The description of the mission*
- *The interview*
- *What about the weather?*

Introduction

The Bosphorus is a gateway between the Black Sea and the Sea of Marmara. Through the Bosphorus, brackish waters of

the Black Sea flow to the Sea of Marmara by means of a surface current whereas the Mediterranean origi-

nated saline waters flow to the Black Sea by means of a bottom current (Ytice and Türker, 1991).

THE PLANKTON

Plankton consist of any drifting organisms (animals, plants, archaea, or bacteria) that inhabit the pelagic zone of oceans, seas, or bodies of fresh water.

While some forms of plankton are capable of independent movement and can swim up to several hundreds of meters vertically in a single day (a behavior called diel vertical migration), their horizontal position is primarily determined by currents in the body of water they inhabit. By definition, organisms

classified as plankton are unable to resist ocean currents.

This is in contrast to nekton organisms that can swim against the ambient flow of the water environment and control their position (e.g. squid, fish, and marine mammals).

THE PHOTO OF THE DAY:

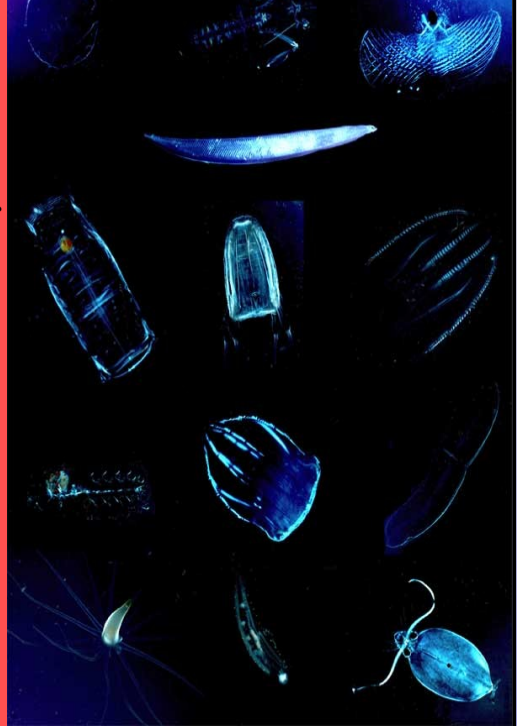
Maria holds a plankton net. Note the mesh funnel that leads to the cod container where the plankton accumulates and can be collected.



The interview (with Michael Johnson)

Q : Our aim of this study is to present the complete species list belonging to different groups of the Crustacea fauna in the light of the above literature. What could you tell us about it, Mr.Johnson?

A : The species list of the Crustacea fauna of the Bosphorus was reported in the light of the previously conducted research by describing some suspicious species, within the framework of the modern system.



Q : How many crustacean species exist? What are they exactly?

A: Totally 94 crustacean species 4 of which belong to Cirripedia, 36 to Decapoda, 3 to Mys-



dacea, 3 to Tanaidacea, 11 to Isopoda and 37 to Amphipoda were recorded from the Bosphorus (Tab. 1). Groups represented by maximum species number are Amphipoda and Decapoda.

Q: Which are the parameters that influence the fauna ?

A: The fauna of the Bosphorus is influenced by this two-layered water system

“Nature is the international weekly journey of science.”

and shows a rich diversity.

Moreover, the Bosphorus serves as an acclimatization zone for species exchange between the Black Sea and the Sea of Marmara.



Name and address of the class:
10B5, "Ovidius" Highschool
Constanta, Romania, 2,
Basarabi street, 900710

Age—16-17 years old

Number of students: 14

Coordinating teacher: Carmen
Bucovala

Weather forecast of the day

Day 6 - Continued sampling on the survey grid Friday, 14/04/2009 N 47° 06'.43 W 125° 07'.42

Water temperature: 13.5°C

Salinity: 32.4 (on the practical salinity scale)

Menu of the Day:

Breakfast 08:00 AM): sliced cheese, tomatoes, cucumbers, olives, orange juice, eggs

Lunch: salami, fried fish, paste