



## HERBARIUM SAMPLES OF MARINE ALGAE IN THE NATURAL HISTORY MUSEUM OF MONTENEGRO

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### SYNOPSIS

**Key words:**

Seaweed algae,  
Phaeophyta,  
Chlorophyta,  
Rhodophyta  
Herbarium samples,  
Gospa od Škrpjela.

This paper presents herbarium samples from the collection of seaweed algae Natural History Museum of Montenegro.

### INTRODUCTION

The study of algae and aquatic plants (macrophytes) and the formation of the Natural History Museum of Montenegro algae collection began in 1997.

Collected material was found at water habitats of Montenegro: Canyon of Mrtvica, Mareza, Vrela Ribnička, Skadar lake, Rijeka Crnojevića, Plavnica, Morača, Ulcinj, Vučje, Krново, Bokokotorski bay, Biogradska worse, Nikšić, Žabljak.

Collection of macrophytes, collected from 1997 to 2011, is kept in the wet collection in 4% formaldehyde solution (about 900 samples) and in the herbarium (about 200 samples).

Starting with 2011, Macrophytes are entered in an electronic database. The first samples entered into the database are just some marine algae, listed in this .

### MATERIAL AND METHODS

Algae material was collected during the field work near the Gospa od Škrpjela island, Bay of Kotor, July 1999.

Benthic marine algae are collected, surfaced and indentified by Vesna Mačić, researcher from the Institute of Marine Biology – Kotor, using the following references: Ercegovic, A (1952); Hiscock, S. (1986); Edwards, P. (1970); Blaženčić,

J. (1988), Guiry, M.D. & Guiry, G.M. (2011). Material was prepared and then placed in the herbarium of algae.

## RESULTS

This collection consists of 21 samples of the benthic marine algae, grouped into 8 types of appropriations in the Phaeophyta, Chlorophyta and Rhodophyta.

List of species follows. The numbers in front of the taxon names indicate Inventory / collector number of artifacts (objects).

### LIST OF SPECIES

#### RAZDIO PHAEOPHYTA – Brown algae

Order Dictyotales

Family Dictyotaceae

Genus Padina

**2970/ 2. Padina pavonica (L.) Thivy - 6 samples**

Genus Dictyopteris

**2977/ 9. Dictyopteris membranacea (Stackhouse) Batters – 1 sample**

Order Fucales

Family Sargassaceae

Genus Cystoseira

**2972/ 4. Cystosira sp. – 2 samples**

#### RAZDIO: CHLOROPHYTA – Green Algae

Order Bryopsidales

Family Codiaceae

Genus Codium

**2971/ 3. Codium vermilara (Olivi) Chiaje – 2 samples**

Family Udoteaceae

Genus Udotea

**2973/ 5. Udotea petiolata (Turra) Børgesen – 2 samples**

Family Halimedaceae

Genus Halimeda

**2974/ 6. Halimeda tuna (J. Ellis & Solander) J. V. Lamouroux – 4 samples**

Class Ulvophyceae

Order Ulvales

Family Ulvaceae

Genus Ulva

**2976/ 8. Ulva lactuca L. – 1 sample**

#### **RAZDIO RHODOPHYTA - Red algae**

Order Peyssonneliales

Family Peyssonneliaceae

Genus Peyssonnelia

**2975/ 7. Peyssonnelia squamaria (S. G. Gmelin) Decaisne – 3 samples**

#### **CONCLUSION**

This paper presents a collection of marine algae in the Natural History Museum. This collection includes 21 herbar copy of 8 algae species from appropriations in the Phaeophyta, Rhodophyta and Chlorophyta.

Although small in number of species, a collection of marine algae is part of a rich algae collection of Natural History Museum of Montenegro. Origins of this collection date from 1997.

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#### **REFERENCES:**

- Guiry, M.D. & Guiry, G.M. 2011. *AlgaeBase*. World-wide electronic publication, National University of Ireland, Galway. Available from <http://algaebase.org> (Last access: 12.10. 2011.)
- Blaženčić, J. 1988: Systematics algae - *Naučna knjiga*, Beograd, 297pp.
- Edwards, P. 1970: Illustrated guide to the seaweeds and sea grasses in the vicinity of Port Aransas, Texas - *University of Texas Press* Austrian and London, 128pp.

- Ercegović, A. 1952: Cistozire Adriatic: their morphology, ecology and development, fauna and flora of the Adriatic. - *Institute of Oceanography and Fisheries*, 212pp.
- Hiscock, S. 1986: A field key to the British red seaweeds (Rhodophyta) - *Field Studies Council*, 101pp.

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