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ANNOTATED BIBLIOGRAPHY ON THE MACROPHYTOBENTHOS ALONG THE ROMANIAN BLACK SEA COAST (1881-1986)

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ABSTRACT:

An exhaustive bibliography for the period 1881-1986 consisting in 151 references concerning the macrophytobenthos off the Romanian Black Sea coast is being reviewed.

The following 18 main topics are dealt with: algology, bibliography, biochemistry, distribution, ecology, economic aspects, embryology, endocrinology, environmental parameters and pollution, flora, vegetation and phytocoenology, generalities, morphology, physiology, production and productivity, radioactivity and radiochemistry, radioecology and radioprotection, reproduction, taxonomy.

Out of the total references, originating in 50 indigenous and international periodical or occasional publications, the Romanian and Russian titles are translated and transliterated (and translated), respectively, in English.

KEY WORDS: macrophytobenthos, Black Sea,
Romanian coast

The Romanian algological bibliography concerning the Black Sea macrophytobenthos covers at present a period of over 100 years.

The researches, initially restricted to render the evidence and to describe the main species of green, brown, and red algae existing off the Romanian coast, endured a continuous development with time.

Thus the first information on the native marine macro-algal flora due to SCHAARSCHMIDT (in KANITZ, 1879-1881) were followed by thorough algological observations and studies carried out mainly by TEODORESCU (1907) and CELAN (1935-1983).

Marine algal species were mentioned in the synopsis of TARNAVSCHI and OLTEAN (1956, 1958), BUSNITA and SERBANESCU (1965) and BUSNITA et al. (1967) which reported on the Romanian Black Sea sector too.

Later on the check-list of macrophytes belonging to SKOLKA (1969) and the complete lists of Cyanophyta, Chlorophyta, Phaeophyta and Rhodophyta published by BAVARU (1977) added to the relevant references in this field.

The studies on the algal flora and vegetation are the oldest ones. Several decades ago they showed a much higher number of species, subspecies and varieties as presently found in the coastal waters. A special interest permanently deserved the most common species of Enteromorpha, Cystoseira, Ceramium and Laurencia. The continuous qualitative and quantitative lowering of algal diversity and biomasses becomes evident when analysing the reviewed literature. This fact is most dramatically evinced by the almost complete disappearance of the former productive belts of the perennial brown alga Cystoseira barbata (GOOD. et WOOD.) AG. previously playing a very important ecological role.

A constant attention was payed to field researches dealing with marine algal communities. Most of them endured severe qualitative and quantitative changes. Consequently, some completely disappeared, together with most of the associated epiphytic algae and fauna.

The taxonomic studies completed the known inventory of marine macrophytes. They revealed numerous new species for the Romanian coast, for the whole Black Sea, and Geladiella antipae CELAN, discovered by CELAN (1938), as nov.sp. for science.

Some species were erroneously considered as new taxa,

like Dictocarpus callagrar by CELAN in 1960 (actually a development stage of Desmotrichum undulatum (J.AG.) REINKE), or Laurencia lacustris by SKOLKA in 1961 (= L.caspica A.ZIN.et ZABERZH.).

Measurements and analyses on major natural and anthropic environmental parameters - which positively or negatively influenced the evolution of the local flora - were often performed, as well as other ecological observations in this Black Sea sector.

There are also results on the chemical composition and on some biochemical compounds in marine algae.

Several observations on the morphology, cytology, embryology, physiology and reproduction of the most wide spread macrophytes were also undertaken.

The information on the spacial and seasonal distribution of seaweeds were constantly enriched with field data on the productive potential of the few persisting species, especially of green and red algae, although diminished quantitatively, but not completely negligible as biomass in the shallow waters.

During the last two decades gross alpha and beta radioactivity measurements and gamma spectrometry analyses were also performed with respect to the most common marine algae along the Romanian shore.

The survey of natural and artificial radioactivity was more recently completed with experimental work on radioecology and radioprotection, mainly by determining the concentration factors for critical radionuclides in marine macroalgae too, in order to establish bioindicators for this type of pollution.

Due to the economic importance of seaweeds from the littoral ecosystem, as natural resources, they were investigated, in spite of their present quantitatively decline, under this aspect: beside their utility as fertilizer, animal food supplement, and source of raw materials, interesting endocrinological data were also obtained on domestic and laboratory animals.

For all reviewed papers originating in indigenous and international publications, the number of tables, figures, plates, and references are given; the titles of papers issued in Romanian were translated, and those in Russian transliterated and translated in English.

A subject index, an author index, and a list of reviewed publications (with abbreviations used) complete the following bibliographical list.

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- Protecția ecosistemelor - Constanța
- Rapp.Comm.int.Mer Médit. (Rapports et Procès-Verbaux des Réunions
Commission Internationale pour l'Exploration Scientifi-
que de la mer Méditerranée) - Monaco
- Rev.creșt.anim. (Revista de creștere a animalelor) - București
- Rev.ind.lemn.cel.hîrt. (Revista de industrializare a lemului,
celulozei și hîrtiei) - București
- Rev.Muz.Monum. (Revista Muzeelor și Monumentelor) - București
- Rev.Roum.Biol., Biol.veget. (Revue Roumaine de Biologie, Série
Biologie végétale) - București
- Rev.Roum.Biol., Botanique (Revue Roumaine de Biologie, Série
Botanique) - București
- Rev.Roum.Med.-Endocrinol. (Revue Roumaine de Médecine-Endocrino-
logie) - București
- Rev.Rour.Phys. (Revue Roumaine de Physique) - București
- Rev.șt."V.Adamachi" (Revista științifică "V.Adamachi") - Iași
- Rev.zootehn.med.vet. (Revista de zootehnie și medicină veteri-
nară) - București
- Ses.jub.XXV ani FCTPATP Galați (Sesiunea jubiliară de XXV ani a
Facultății de Chimie și Tehnologia Produselor Alimen-
tare și Tehnică Piscicolă) - Galați
- Studia Univ."Babeș-Bolyai", Ser.biol. (Studia Universitatis "Babeș-
Bolyai", Seria Biologie) - Cluj-Napoca
- St.cerc.biol., Seria biol.anim. (Studii și cercetări de biologie,
Seria biologie animală) - București

St.cerc.biol.,Seria biol.veget. (Studii și cercetări de biologie,
Seria biologie vegetală) - București

St.cerc.biol., Seria botanică (Studii și cercetări de biologie,
Seria botanică) - București

Thalassia Jugoslavica - Zagreb

Tratat de algologie - București

Trav.Mus.Hist.nat."Grigore Antipa" (Travaux du Muséum d'Histoire
naturelle "Grigore Antipa") - București

Vă semnalăm (COCPCIA) (Vă semnalăm. Centrul de Organizare, Calcul
și Perfecționarea Cadrelor pentru Industria Alimen-
tară) - București

Zh.Russk.bot.obsch. (Zhurnal Russkogo botanicheskogo obschestva)-
Leningrad