

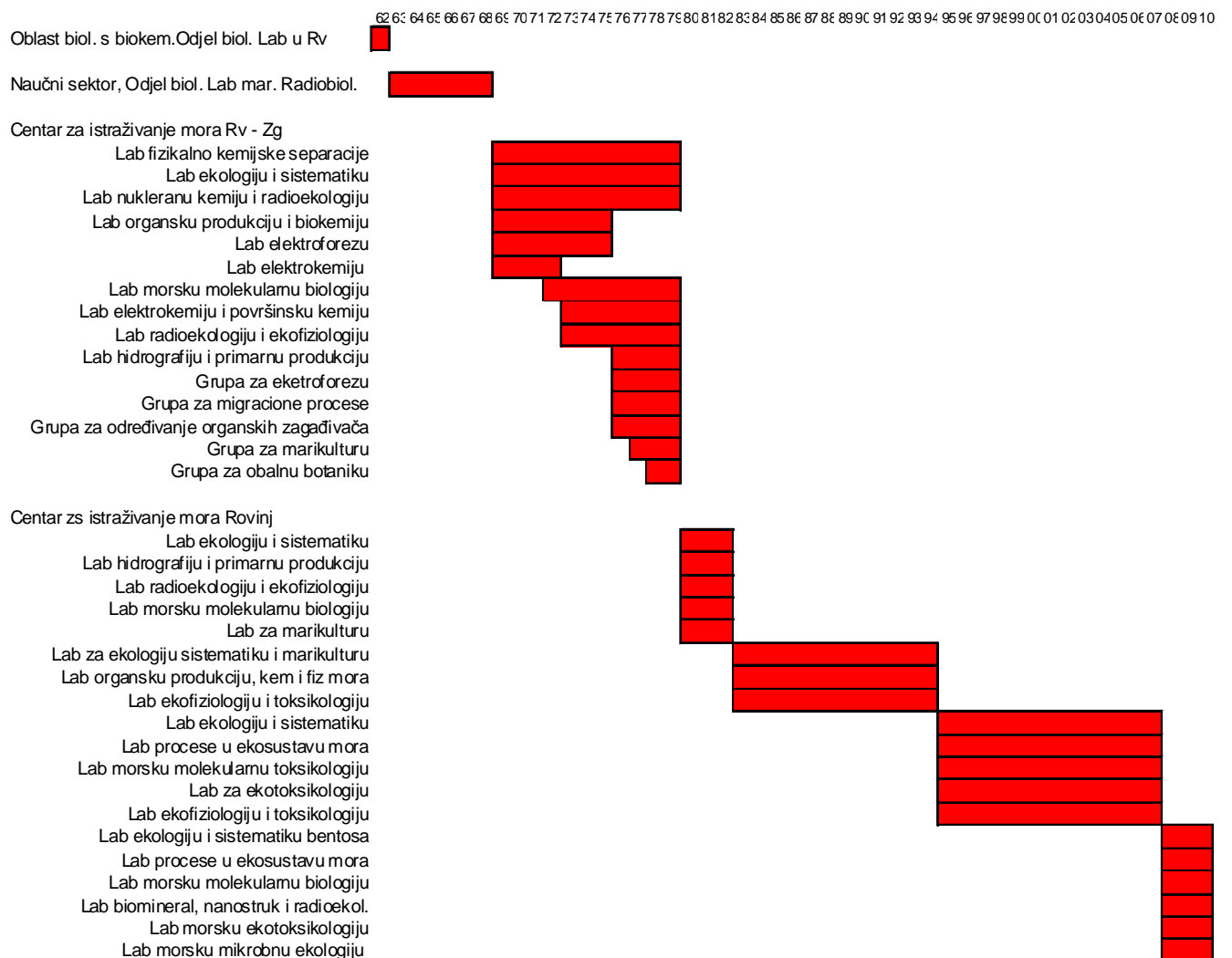
Bibliografija istraživanja mora u Rovinju i  
analiza literaturnih navoda, 1956 – 2010

Nevenka Bihari  
Rovinj, 2011

## UVOD

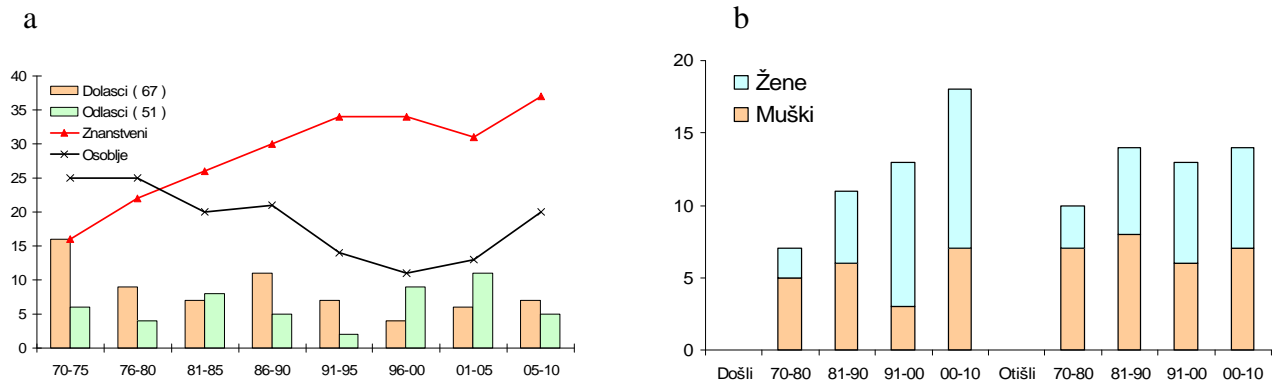
Za potrebe izrade bibliografije korištene su slijedeće baze podataka: internacionalna baza – web of science, nacionalna baza – bib.irb.hr, Godišnji izvještaji Instituta „Ruđer Bošković“ i Izvještaji kongresnih priopćenja CIESM. Literaturni navodi su podijeljeni u četiri poglavlja: I. radovi koji su citirani u Current Contents bazi podataka + u knjigama + u časopisima Thalassia Jugoslavica, Acta Adriatica i Periodicum Biologorum; II. radovi u ostalim, pretežno nacionalnim časopisima, III. radovi prezentirani na kongersima CIESM te IV. diplomski, magistarski i doktorski radovi. Ova četiri poglavlja predstavljaju glavninu djelatnosti Centra za istraživanje mora. Drugi dio djelatnosti CIM-a predstavljaju stručni radovi vezani za potrebe gospodarstva Republike Hrvatske koji nisu obuhvaćeni ovom bibliografijom.

Tijekom 50-tak godina istraživanja mora u Rovinju znanstvenici su djelovali u različitim organizacijskim strukturama u okviru Instituta „Ruđer Bošković“ (Slika 1.)



Slika 1. Promjene organizacijske strukture Centra za istraživanje mora tijekom vremena

Istraživanja su započela unutar jednog laboratorija 1962 godine a 2010 se odvijaju u okvirima Centra za istraživanje mora unutar kojeg djeluje 6 laboratorija. Organizacijske promjene tijekom vremena su na različite načine utjecale na razvoj istraživanja mora u Rovinju. Najuočljivije promjene se očituju u promjenama kadrovske strukture tijekom vremena (Slika 2a i 2b).

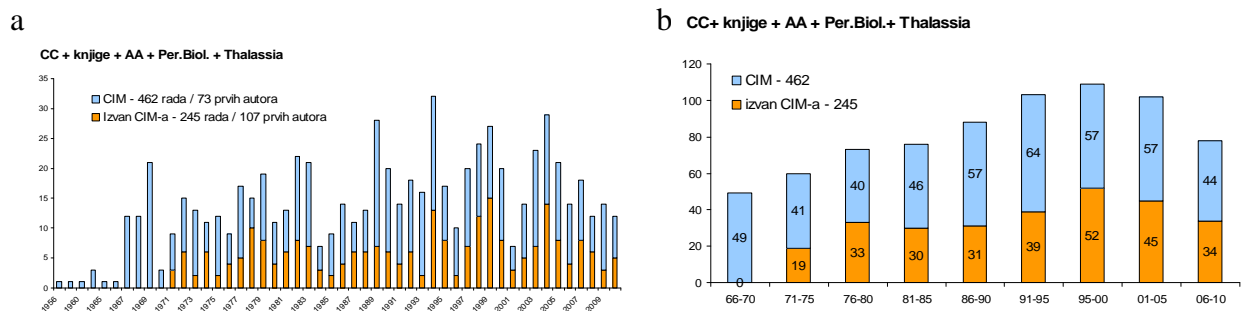


Slika 2. Kadrovske promjene tijekom vremena.

## ZNANSTVENA PRODUKCIJA

### I. Radovi koji su citirani u Current Contents bazi podataka + u knjigama + u časopisima Thalassia Jugoslavica, Acta Adriatica i Periodicum Biologorum

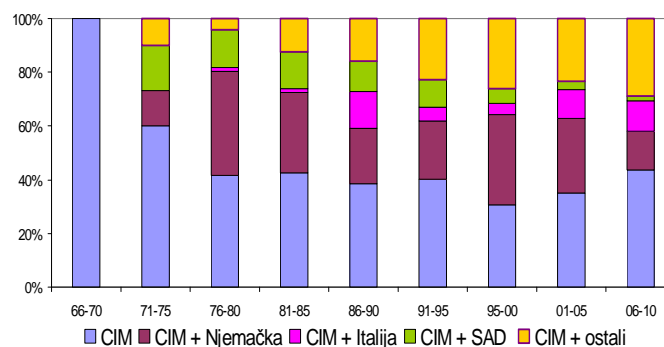
Od 1956 – 1970 godine znanstvena produkcija je rezultat djelovanja isključivo zaposlenih znanstvenika te 70-tih godina započinje i suradnja sa znanstvenicima izvan Rovinja, poglavito sa znanstvenicima iz inozemstva (Slika 3a i 3b).



Slika 3. Godišnja (a) i petogodišnja (b) znanstvena produkcija.

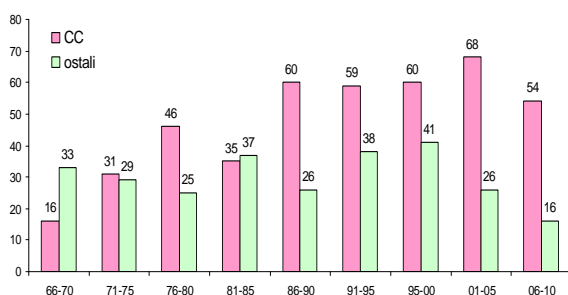
Znanstvenici Njemačke, Italije i SAD-a su značajno doprinjeli istraživanju mora čiji udio u znanstvenoj produkciji je prikazan na Slici 4.

### Suradnja



Slika 4. Udio znanstvenika iz pojedinih država u petogodišnjoj znanstvenoj produkciji

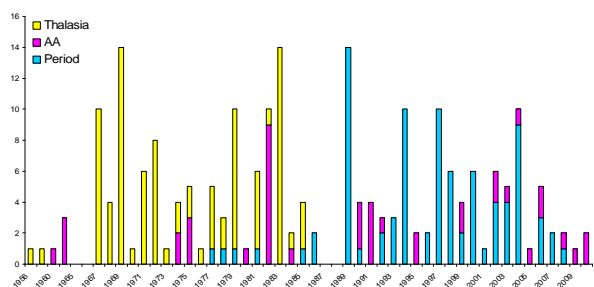
Krajem 60-tih glavnina znanstvene produkcije je objavljivana u časopisima Thalassia Jugoslavica, Periodicum Biologorum, Acta Adriatica i knjigima da bi se već 80-tih njihov udio u ukupnoj produkciji značajno smanjio u korist radova koje citira Current Contents (slika 5.).



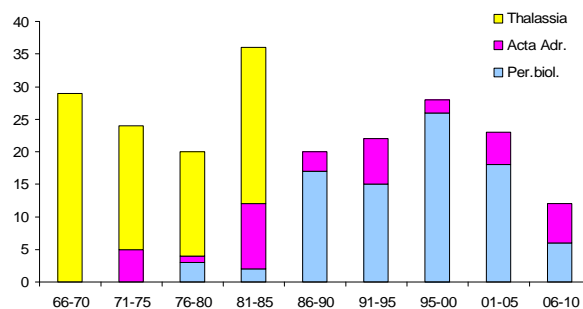
Slika 5. Usporedba petogodišnje znanstvene produkcije u časopisima koje citira CC s radovima objavljenim u časopisima Thalassia Jugosl., Period. Biol., Acta Adriat. i knjigama.

Iz godišnjeg prikaza znanstvene produkcije u časopisima Thalassia Jugosl., Period. Biol. i Acta Adriat. (Slika 6a) uočljivo je periodično objavljivanje većeg broja radova (> 10) u tematskim brojevima vezanim za more kao i prestanak izlazenja časopisa Thalassia Jugosl. čiju ulogu preuzima časopis Period. Biol. (Slika 6b).

a



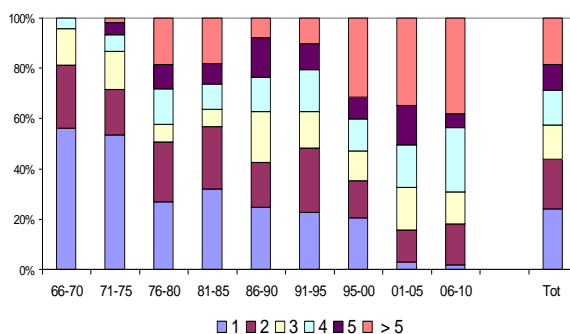
b



Slika 6. Godišnja (a) i petogodišnja (b) znanstvena produkcija u časopisima Thalassia Jugosl., Period. Biol. i Acta Adriat.

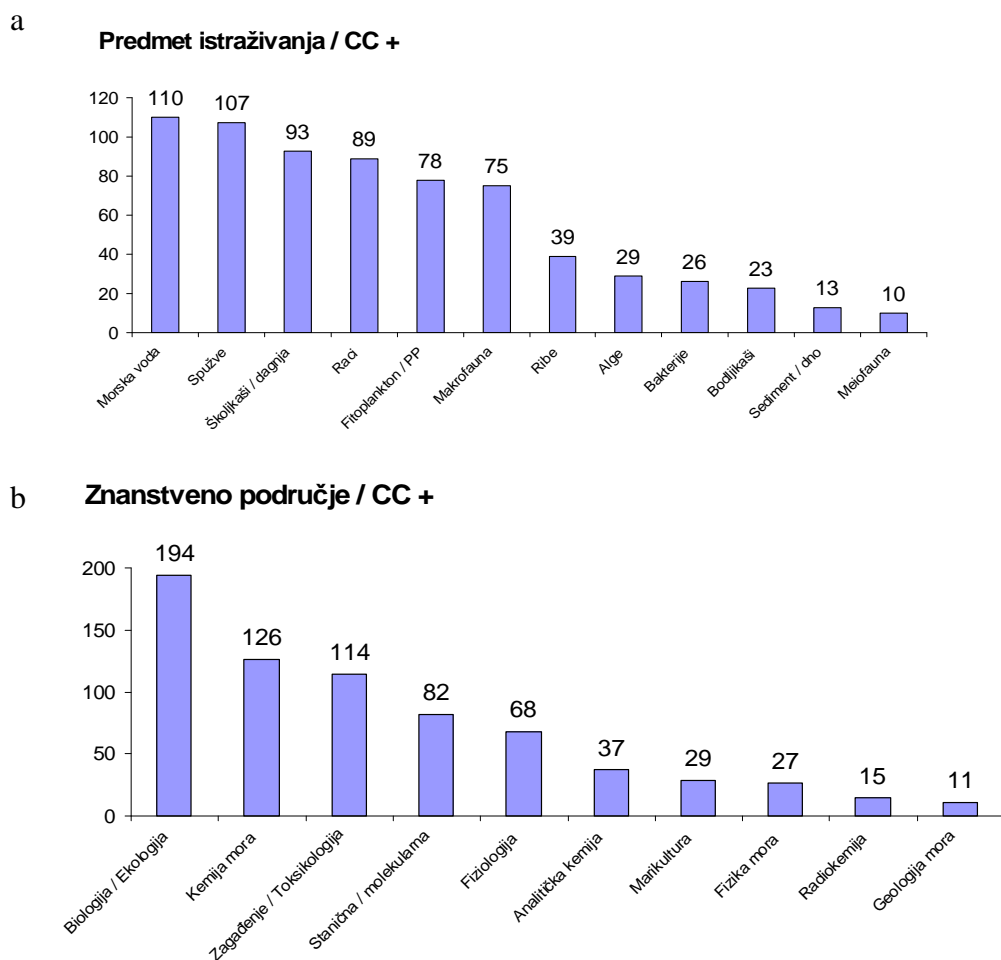
Udio jednoautorskih radova u petogodišnjim razdobljima tijekom vremena se značajno smanjio u korist više od 5 (do 10) autora po jednom radu. Slika 7.

CC+/Broj autora



Slika 7. Udio broja autora po publikaciji u petogodišnjoj znanstvenoj produkciji

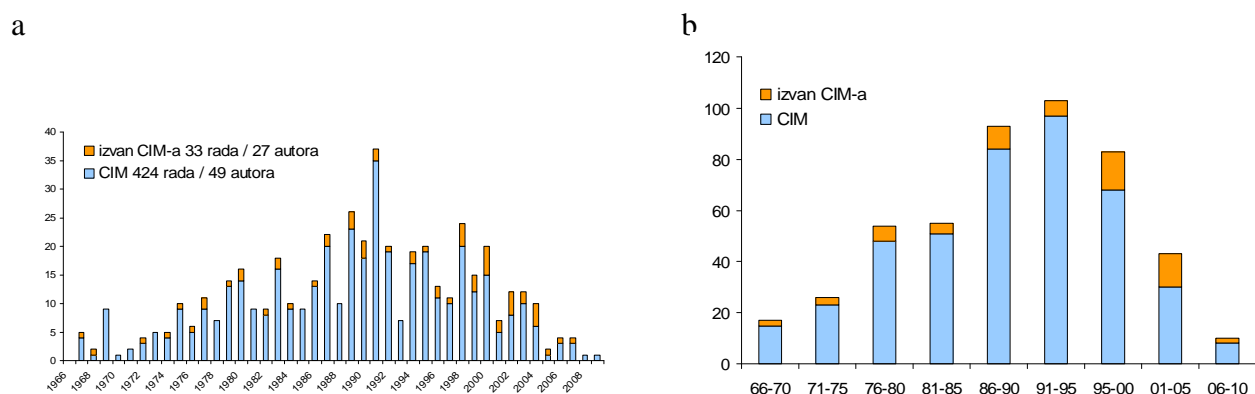
Učestalost pojedinih predmeta istraživanja kao i znanstvenih područja koja obuhvaćaju znanstveni radovi prikazani su na Slici 8a i 8 b.



Slika 8. Predmet istraživanja (a), znanstveno područje (b).

## II. Radovi u ostalim pretežno nacionalnim časopisima

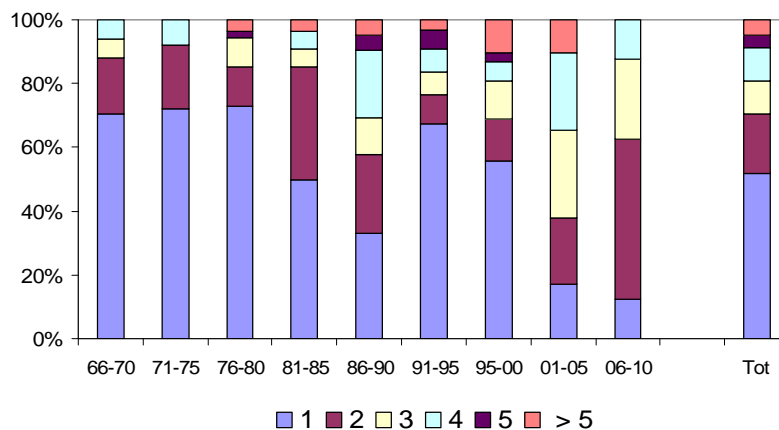
Drugi ne zanemariv dio znanstvene produkcije je objavljivan u ostalim, pretežno nacionalnim časopisima, gospodarskim vjesnicima i časopisima za popularizaciju znanosti. U periodu od 1985 – 2000 broj radova je značajno povećan u odnosu na prethodno razdoblje (Slika 9a) što je uočljivo iz petogodišnjeg prikaza produkcije na slici 9 b. Posebno se ističe 1992 godina sa 37 objavljenih radova.



Slika 9. Godišnja (a) i petogodišnja (b) znanstvena produkcija ostalih radova.

Pretežno su jedno- i dvoautorski radovi do 2001 godine kada više autora zajedno publiciraju i u ostalim časopisima (Slika 10.).

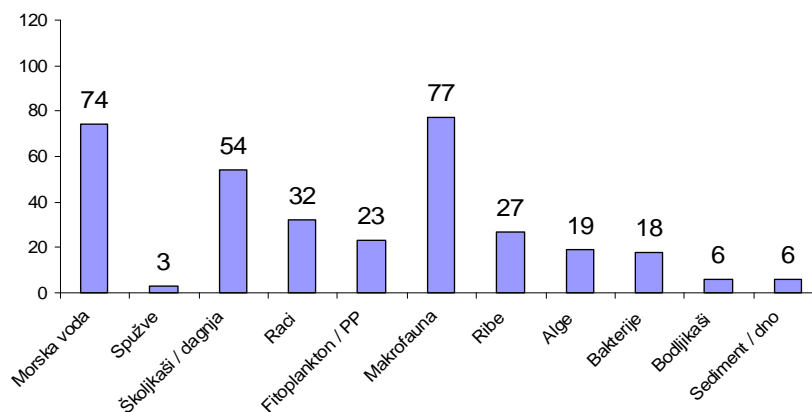
### Ostali radovi / Broj autora



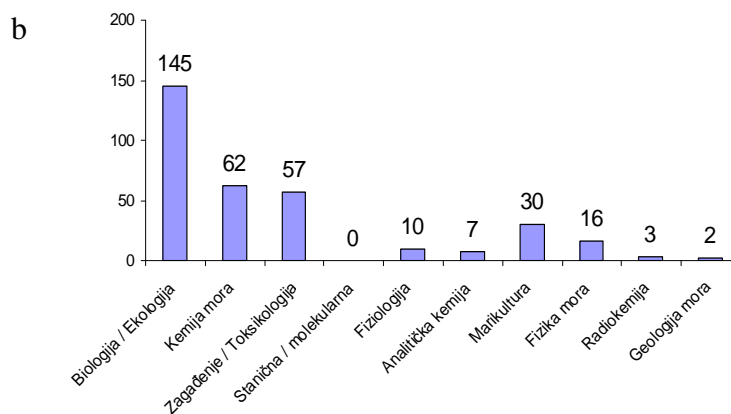
Slika 10. Udio broja autora po publikaciji u petogodišnjoj znanstvenoj produkciji

Učestalost pojedinih predmeta istraživanja kao i znanstvenih područja koja obuhvaćaju znanstveni radovi objavljeni u ostalim časopisima prikazani su na Slici 11a i 11 b.

### a Predmet istraživanja / ostali radovi



### b Znanstveno područje / ostali radovi

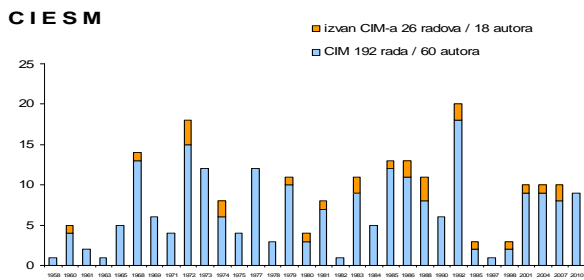


Slika 11. Predmet istraživanja (a), znanstveno područje (b) radova objavljenih u ostalim časopisima

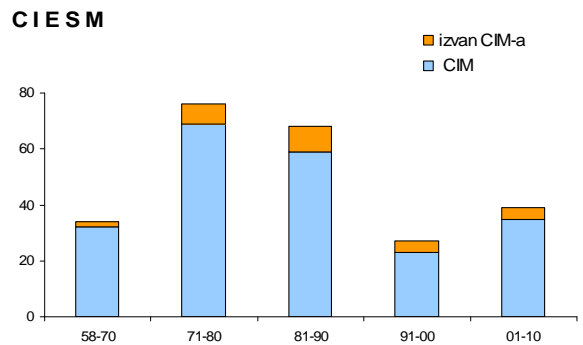
### III. Radovi prezentirani na kongresima CIESM

Treći dio znanstvene produkcije je objavljuvan na međunarodnim kongresima CIESM koji su izuzetno značajni za istraživače mora na Mediteranu. Prošireni sažeci sa kongresa su dostupni globalnoj znanstvenoj zajednici putem izvještaja s kongresa, Rapp. Comm. Int. Mer. Medit. Dinamika prisustvovanja kongresima je prikazana na Slici 12a a iz deseto-godišnjeg prikaza (Slika 12b) je uočljivo slabo prisustvovanje 90-tih godina.

a

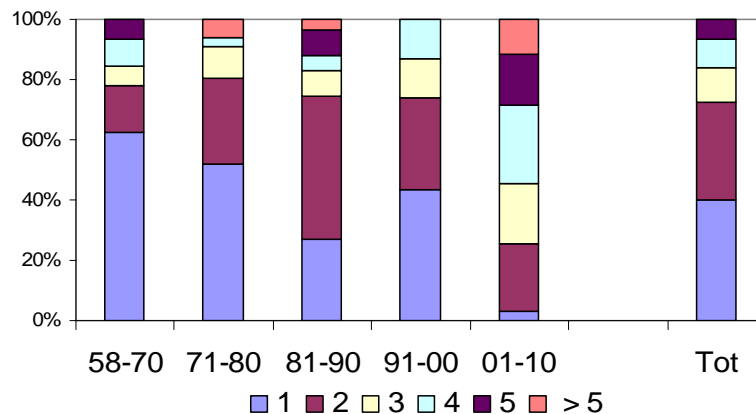


b



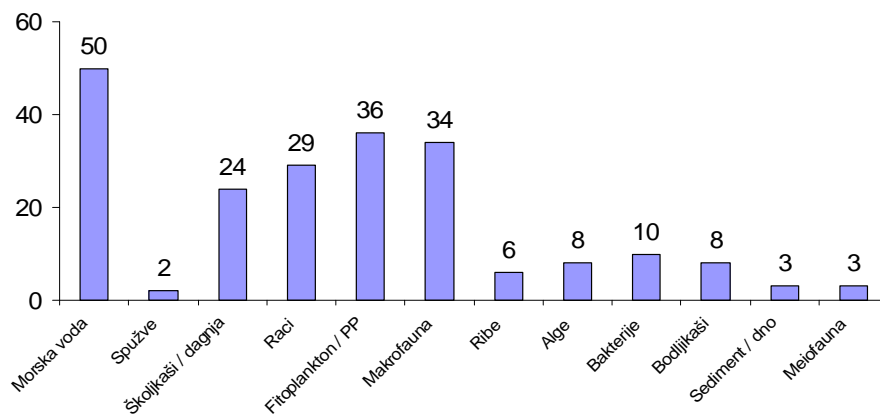
Do 2000 godine su pretežno jedno- i dvoautorski radovi a od 2001 godine više autora zajedno prisustvuju kongresima i objavljuju svoje rezultate kao produžene sažetke (Slika 13.).

#### CIESM / Broj autora

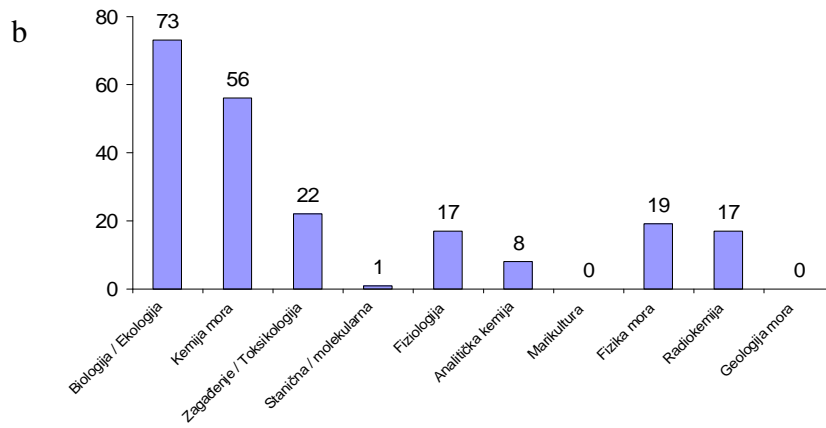


Učestalost pojedinih predmeta istraživanja kao i znanstvenih područja koja obuhvaćaju znanstveni radovi objavljeni u zbornicima sažetaka CIESM prikazani su na Slici 14a i 14 b.

#### a Predmet istraživanja / CIESM



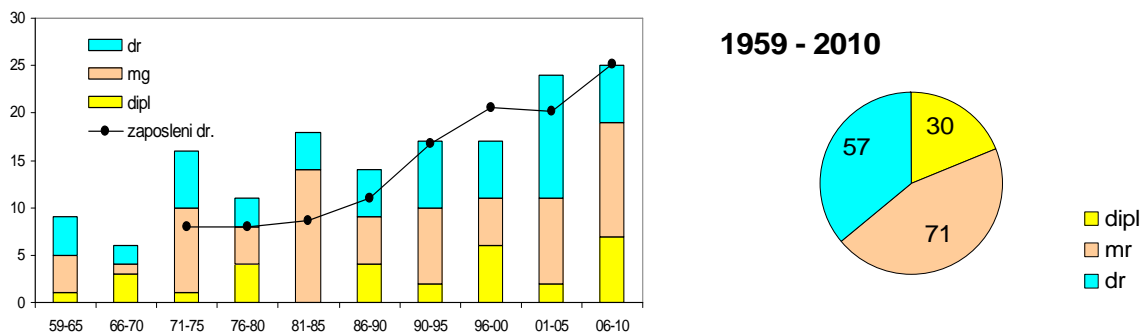
### Znanstveno područje / CIESM



Slika 14. Predmet istraživanja (a), znanstveno područje (b) radova objavljenih u zbornicima sažetaka CIESM.

### IV. Diplomski, magistarski i doktorski radovi

Prijenos znanja je jedna od važnih djelatnosti a odvija se kroz mentoriranje diplomskih, magistarskih i doktorskih radova prikazanih na Slici 15.

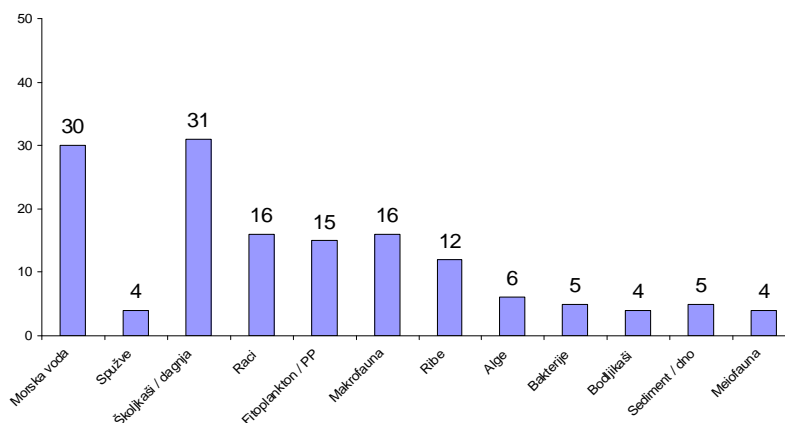


Slika 15. Učestalost diplomskih, magistarskih i doktorskih radova u peto-godišnjem periodu tijekom vremena.

Učestalost pojedinih predmeta istraživanja kao i znanstvenih područja koja obuhvaćaju diplomski, magistrski i doktorski radovi prikazani su na Slici 16a i 16 b.

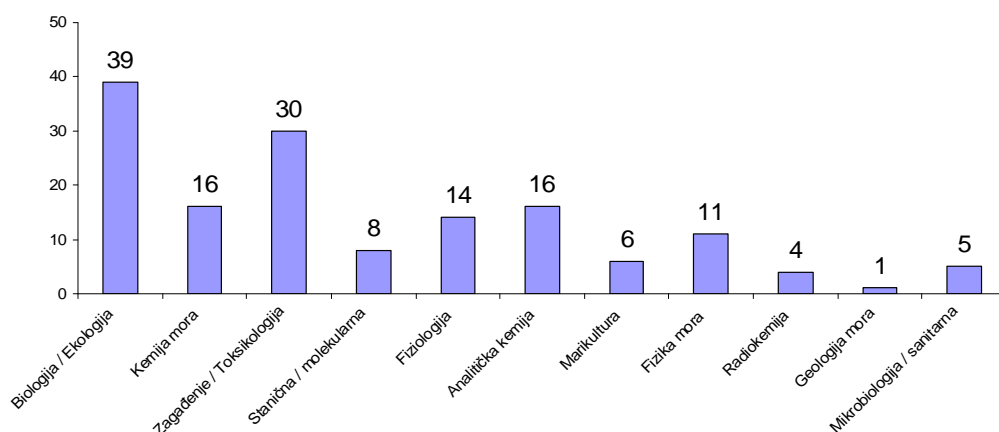
a

### Predmet istraživanja / dr. mr. dipl.





b **Znanstvene discipline / dr. mr. dipl.**



Slika 16. Predmet istraživanja (a), znanstveno područje (b) diplomskih, magistarskih i doktorskih radova.

## UKUPNA ANALIZA

Deskriptivna statistička analiza je prikazana u Tablici 1.

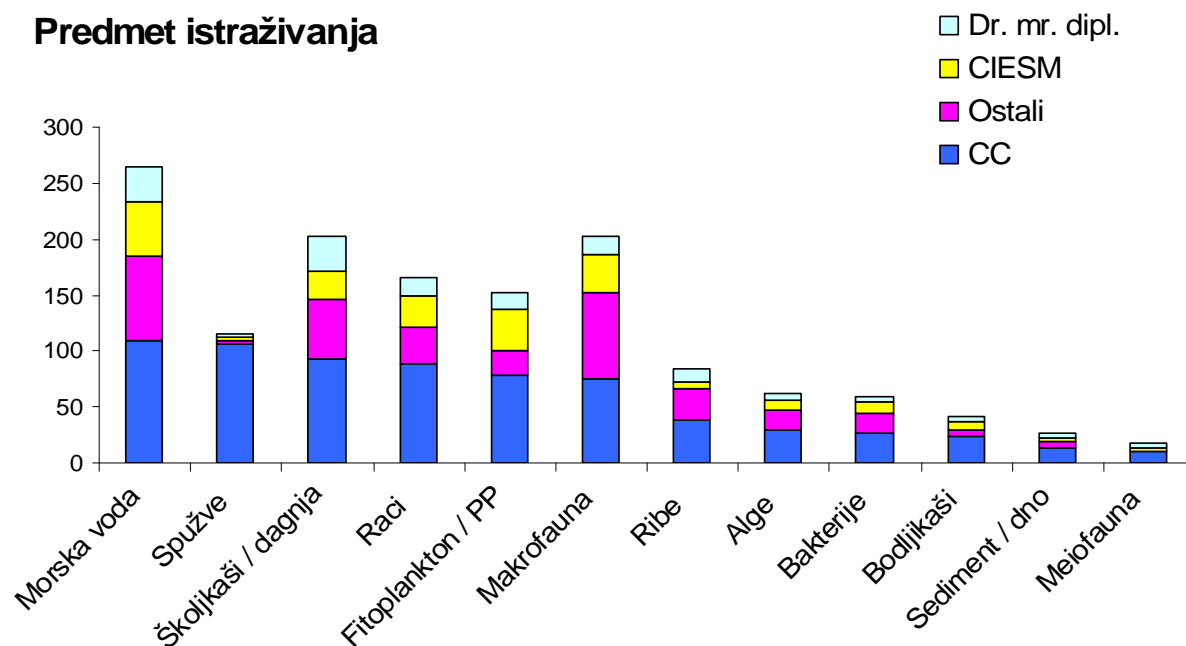
	CC +	Ostali radovi	CIESM	Dipl. mr. dr.
AVG	14	11	8	3
STD	7	8	5	2
MED	14	10	7	3
MAX	32	37	20	8
MIN	1	1	1	0

a analiza autora u Tablici 2.

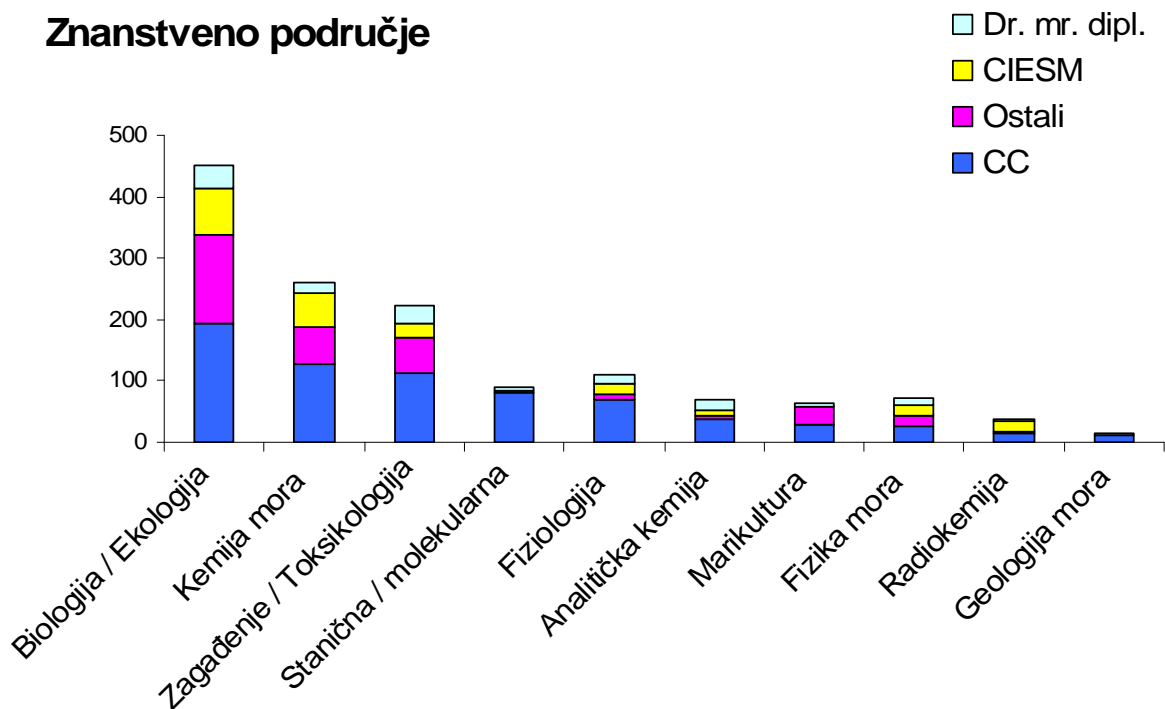
Vrsta rada	Broj radova	Prvi autor iz CIM-a		Prvi autor izvan CIM-a			
		Broj radova	%	Broj autora	Broj radova	%	Broj autora
CC +	707	462	<b>65.3</b>	73	245	34.7	107
Ostali	457	424	<b>92.8</b>	49	33	7.2	27
CIESM	218	192	<b>88.1</b>	60	26	11.9	18
Dipl.	30						
Mag.	71						
Dr.	57						
<b>Ukupno</b>	<b>1540</b>						

Učestalost pojedinih predmeta istraživanja kao i znanstvenih područja koja obuhvaćaju znanstveni radovi objavljeni u svim kategorijama prikazani su na Slici 17a i 17 b.

a



b



Slika 17. Predmet istraživanja (a), znanstveno područje (b) svih kategorija publikacija .

I. Radovi koji su citirani u Current Contents bazi podataka + u knjigama + u časopisima *Thalassia Jugoslavica*, *Acta Adriatica* i *Periodicum Biologorum*

**1956**

Marinković, M.: Terminska hidrografska opažanja kod Rovinja u godini 1954/55. *Thalassia Jugosl.*, 1, (1956) 183-192.

**1959**

Marinković, M.: Terminska hidrografska opažanja kod Rovinja - II. Nastavak u godinama 1955-1957. *Thalassia Jugosl.* 1 (1959) 41-68.

**1960**

Zavodnik, D.: Echinodermata der Insel Krk. *Acta Adriat.* 9, 2 (1960) 1-19

**1964**

Golubić, S., Haber, M.: O problemima mjerenja svjetlosnih prilika u moru. *Acta Adriat.* 11 (1964) 111-114.

Hrs-Brenko, M.: *Mytilicola intestinalis* Steuer, parazit dagnje u prirodnim staništima i uzgajalištima istočne jadranske obale. *Acta Adriat.* 11, 21 (1964) 161-165.

Zavodnik, D.: Kratak osvrt na poznavanje faune Echinodermata Sjevernog Jadrana. *Acta Adriat.* (1964) 11, 285-288.

**1965**

Hrs-Brenko, M., Božić, M.: Influence of the parasite *Mytilicola intestinalis*, Steuer, on mussels. *GFCM, Proc. Gen. Fish. Coun. Medit.*, 8, (1965) 179-183.

**1966**

Kečkeš, S., Pučar, Z., Marazović, Lj.: The influence of physico-chemical form of  $^{106}\text{Ru}$  on its uptake by mussel from sea water. *Radioecological concentration processes*, Pergamon Press, Oxford, 1966, pp. 993-994.

**1967**

Golubić, S.: Preliminarna istraživanja svjetlosnih prilika u Jadranskom moru. *Thalassia Jugosl.* 3 (1967) 201-219.

Hrs-Brenko, M.: *Mytilicola intestinalis*, Steuer (Copepoda parasitica), a parasite mussel in the east Adriatic. *Thalassia Jugosl.*, 3 (1967) 143-155.

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Kečkeš, S.: Quantitative analysis of fertilization in sea urchins. *Rev. Biol.* 6 (1967) 119-126

Kečkeš, S., Pučar, Z., Marazović, Lj.: Accumulation of electroanalytically separated physico-chemical forms of  $^{106}\text{Ru}$  by mussel. *Int. J. Oceanol. Limnol.* 1 (1967) 246-253.

Zavodnik, D.: Adriatic echinoderms inhabiting the phytal. *Thalassia Jugosl.* 3 (1967) 11-22.

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Zavodnik, D.: Contribution to the ecology of *Pinna nobilis* L.(Moll., Bivalvia) in the Northern Adriatic. *Thalassia Jugosl.* 3 (1967) 103.

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Zavodnik, D., Zavodnik, N.: Observations on the biometry and numerical characteristics in sprat (*Sprattus sprattus* L.) in the Northern Adriatic. *Thalassia Jugosl.* 3 (1967) 183-194.

**1968**

Hrs-Brenko, M.: The contamination of sandy and muddy sea bottom by  $^{56,57,58}\text{Co}$  and their decontamination. *Bull. Scient.*, 13, 7-8 (1968) 240.

Hrs-Brenko, M.: Biometrical analyses of the mussel (*Mytilus galloprovincialis*, Lmk.) along the eastern coast of the Adriatic. *Thalassia Jugosl.*, 4 (1968) 19-30.

Hrs-Brenko, M., Igić, Lj.: Effects of fresh water and saturated sea-water brine on the survival of mussels, oysters and some epibionts on them., *Stud. Rev. Gen. Fish. Coun. Medit.*, 37 (1968) 29-44.

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- Ozretić, B, Krajnović, M.: The turnover of Zn<sup>65</sup> during the early embryonal development of the sea urchin *Paracentrotus lividus* Lam. Rev. Intern. Oceanogr. Med. 11 (1968) 101-106.
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