

## Appendix

### MONOGRAPHS AND COLLECTIONS OF PAPERS ISSUED BY MURMANSK MARINE BIOLOGICAL INSTITUTE OF KOLA SCIENTIFIC CENTER RUSSIAN ACADEMY OF SCIENCES IN 1990–1998

1990

**Denisenko, N. V.** 1990. Raspredelenie i ekologija mshanok Barentseva morja [Distribution and ecology of pearlworts of the Barents Sea.] Apatity, 158 p. (In Russian)

**Matishov, G. G., Pavlova, L. G.** 1990. Obschaja ekologija i paleogeografija poljarnyh okeanov [General ecology and paleography of polar oceans.] L., 224 p. (In Russian)

**Morfologija i ekologija parazitov morskikh zhivotnyh.** 1990. [Morphology and ecology of the parasites of marine animals]. In Otv. red. A. A. Dobrovol'skij [Edited by A.A. Dobrovolsky.] Apatity, 115 p. (In Russian)

**Savinova, T. N.** 1990. Himicheskoe zagrjaznenie severnyh morej. [Chemical contamination of the northern seas.] Apatity, 146 p. (In Russian)

**Sensornaja fiziologija morskikh ryb (metodicheskie aspekty).** Otv. red. N. Akoev. [Sensory physiology of marine fishes (methodical aspects). Edited by N. Akoev]. Apatity, 128 p. (In Russian)

**Strukturno-funkcional'naja organizacija ekosistem Barentseva morja.** 1990. Otv. red. G. G. Matishov. AN SSSR, Kol. nauch. centr, Mur. mor. biol. in-t. [VINITI 05.10.90, 1'5272-V90. Dep. in All- Union Inst .Tech. Inf. [Structural- functional organization of the Barents Sea ecosystems. Edited by G .G Matishov AS USSR, Kola scient. Center Murm. Biol. Inst.] Apatity, 246 p. (In Russian)

**Teplinskaja, N. G.** 1990. Processy bakterial'noj produkci i destrukcii orga-nicheskogo veschestva v severnyh morjah. [Processes of bacterial production and destruction of the organic matter in the northern seas.] Apatity, 106 p. (In Russian)

**Chernickij, A. G., Loenko, A. A.** 1990. Biologija zavodskoj molodi semgi posle vypuska v reku. [Biology of the fish farms' young of salmon after the release into the river.] Apatity, 118 p. (In Russian)

**Ekologija i biologicheskaja produktivnostj Barentseva morja/** 1990. Otv. red. G. G. Matishov. [Ecology and biological productivity of the Barents Sea. Edited by G. G .Matishov.] M., 119 p. (In Russian)

1991

**Voskobojnikov, G. M., Kamnev, A. N.** 1991. Morofunktional'nye izmenenija hloroplastov v ontogeneze vodoroslej. [Morpho-functional changes of chloroplasts in the ontogenesis of algae.] SPb., 96 p. (In Russian)

**Produkcionno-destrukcionnye processy pelagiali pribrezh'ja Barentseva morja.** 1991. Pod red. G. G. Matishova. [Production- destruction processes of the pelagial of the Barents Sea. Edited by G.G. Matishov.] Apatity, 108 p. (In Russian)

**Chernova, N. V.** 1991. Liparovye ryby evroaziatskoj Arktiki. [Sea snails in the Euro-Asian Arctic.] Apatity, 111 p. (In Russian)

**Ekologicheskaja situacija i ohrana flory i fauny Barentseva morja.** 1991. Otv. red. G. G. Matishov. [Ecological situation and the flora and the fauna protection in the Barents Sea. Edited by G. G. Matishov.] Apatity, 208 p. (In Russian)

1992

**Matishov, G. G.** Antropogennaja destrukcija ekosistem Barentseva i Nor-vezhskogo morej. [Anthropogenic destruction of the ecosystems of the Barents and the Norwegian Seas.] Apatity, 112 p. (In Russian)

**Primenenie metodov informatiki i statistiki v gidrobiologicheskikh issledovaniyah Barentseva morja.** 1992. Pod red. G. G. Matishova. [Application of the statistics and computation methods in the marine biology investigations of the Barents Sea. Edited by G. G. Matishov.] Apatity, 128 p. (In Russian)

**Problemy kajnozojskoj paleoekologii i paleogeografii morej Severnogo Ledovitogo okeana.** 1992. Otv. red. G. G. Matishov. [Problems of Cenozoic paleoecology and paleogeography of the Arctic Ocean seas. Edited by G. G. Matishov,] M., 193 p. (In Russian)

**Soderzhanie v nevole i obuchenie lastonogih severnogo regiona.** 1992. Pod red. I. A. Shparkovskogo. [Maintenance in captivity and training of the pinnipeds on the northern region. Edited by I .A .Shparkovsky.] Apatity, 106 p. (In Russian)

**Teoreticheskie podhody k izucheniju jkoxistem morej Arktiki i Subarktiki.** 1992. Otv. red. N. M. Adrov. [Theoretical approaches to the investigation of the ecosystems of the Arctic and Sub-Arctic Seas. Edited by N .M. Adrov.] Apatity, 164 p. (In Russian).

**Hranenie i obrabotka eksperimental'nyh dannyh. Matematicheskoe modelirovanie.** 1992. [Preserving and processing of the experimental data. Mathematical modeling.] Apatity, 89 p. (In Russian)

**Phytoplankton of the Barents Sea.** 1992. Ed. G. G. Matishov. Apatity, 118 p.

## 1993

**Adrov, N. M.** 1993. Transformacija vodnyh mass sistemy Gol'fstrima. [Transformation of the water masses of the Gulf Stream system.] Apatity, 171 p. (In Russian).

**Arkticheskie morja: bioindikacija sostojaniya sredy, biotestirovanie i tehnologija destrukcii zagrjaznenij.** 1993. Otv. red. I. A. Shparkovskij. [Arctic seas: bioindication of the state of environment, biotesting and technology of destruction of contamination. Edited by I. A. Shparkovsky.] Apatity, 182 p. (In Russian)

**Galaktionov, K. V.** 1993. Zhiznennye cikly trematod kak komponenty ekosistem (opyt analiza na primere predstavitelej semejstva Microphallidae). [Vital cycles of trematods as components of the ecosystems (the experience of the representatives of the Microphallidae family).] Apatity, 187 p. (In Russian)

**Matishov, G. G., Sochnev, O. Ja., Chernook ,V. I.** 1993. Distacionnyj ekogicheskij monitoring Barentseva morja. [Remote sensing ecological monitoring of the Barents Sea.] Apatity, 125 p. (In Russian)

**Orlova, E. L., Matishov, G. G.** 1993. Strukturno-funktional'naja rolj treski v ekosisteme Barentseva morja. [Structural- morphological role of cod in the ecosystem of the Barents Sea.] Apatity, 163 p. (In Russian)

**Sensornaja morfofiziologija morskikh ryb.** (Materialy mezhdunarodnogo seminara). 1993. Otv. red.: P. S. Enger, I. A. Shparkovskij. [Sensory morpho-physiology of the marine fishes. (Materials of the International Seminar). Edited by P. S. Enger, I. A Shparkovsky.] Apatity, 112 p. (In Russian)

**Environment and ecosystems of the Franz Josef Land** (Archipelago and shelf) 1993. Ed. G. G. Matishov. Apatity, 262 p.

**Matishov, G. G.** 1993. Antropogenous destruction of the ecosystems in the Barents and the Norwegian seas. Apatity, 116 p.

## 1994

**Gidrobiologicheskie issledovanija v zalivah i buhtah severnyh morej Rossii.** 1994. Otv. red. G. G. Matishov. [Hydrobiological investigations in the gulfs, bays and straits of the northern seas in Russia. Edited by G. G. Matishov.] Apatity, 175 p. (In Russian)

**Zakonomernosti formirovaniya syr'evyh resursov pribrezh'ja Barentseva morja i rekomendacii po ikh promyslovomu ispol'zovaniju.** 1994. Pod red. G. G. Matishova. [Regularities of the formation of the raw resources in the coastal zone of the Barents Sea and recommendation for their commercial exploitation. Edited by G .G Matishov.] Apatity, 150 p. (In Russian)

**Korsun, S. A., Pogodina, I. A., Tarasov, G. A., Matishov, G. G.** 1994. Foraminifery Barentseva morja (gidrobiologija i chetvertichnaja paleoekologija). [Foraminiferas of the Barents Sea (Hydrobiology and Quaternary paleoecology).] Apatity, 136 p. (In Russian)

**Matishov, G. G., Matishov, D. G., Schipa, E., Rissanen, K.** 1994. Radionuklidы v ekosisteme regiona Barentseva i Karskogo morej. [Radio-nuclides in the ecosystem of the Barents and the Kara Sea region.] Apatity, 238 p. (In Russian)

**Matishov, G. G., Timofeev, S. F., Drobysheva, S. S., Ryzhov V. M.** 1994. Evolucija ekosistem i biogeografija morej evropejskoj Arktiki. [Evolution of the ecosystems and biogeography of the seas of the European Arctic.] SPb., 220 p. (In Russian)

**Sreda obitanija i ekosistemy Zemli Franca-Josifa.** 1994. Otv. red. G. G. Matishov [Environment and the ecosystems of the Franz Josef Land. Edited by G. G. Matishov.] Apatity, 256 p. (In Russian)

**Biosorbents and Absorbents in Oil Spill Combating in Sea Environment.** 1994. First Report of research phase 1. Micro -Scale Tests. Finnish- Russian offshore Technology Working Group: Report 17/ VTT- MMBI, Finland, 135 p.

## 1995

**Biologicheskie resursy pribrež'ja Kol'skogo poluostrova** (sovremennoe sostojanie i racional'noe ispol'zovanie). 1995. Otv. red. G. G. Matishov. [Biological resources of the coastal area of the Kola peninsula (current state and rational exploitation). Edited by G. G. Matishov.] Apatity, 158 p. (In Russian)

**Vlijanie Gol'fstrima na zhiznj v pelagiali arkticheskikh morej**/1995. Otv. red. G. G. Matishov. [The Gulf Stream impact on the life in the pelagic of the Arctic seas. Edited by G. G. Matishov.] Apatity, 154 p. (In Russian)

**Karamushko, O. V., Karamushko, L. I.** 1995. Pitanie i bioenergetika osnovnyh promyslovyh ryb Barentseva morja na raznyh etapah ontogeneza. [Feeding and bioenergetics of the main commercial fishes of the Barents Sea at different stages of ontogenesis.] Apatity, 220 p. (In Russian)

**Krasnov, Ju. V., Matishov, G. G., Galaktionov, K. V., Savinova, T. N.** 1995. Morskie kolonial'nye pticy Murmana. [Sea colonial birds of Murman.] SPb, 224 p. (In Russian)

**Norvillo, G.** V. 1995. Ichtioplankton morej Severo-Vostochnoj Atlantiki. [Ichthyoplankton of the North-Atlantic seas.] Apatity, 136 p. (In Russian)

**Sreda obitanija i ekosistemy Novoj Zemli**(arhipelag i shel'f). 1995. Otv. red. G. G. Matishov. [Environment and the ecosystems of the Novaya Zemlya (archipelago and shelf). Edited by G. G. Matishov.] Apatity, 201 p. (In Russian)

**Fomin, O. K.** 1995 Rolj barentsevomorskogo kaljanusa v troficheskoj seti pelagiali morja. [Role of the Barents Sea Calanus in the trophic network of the sea pelagic.] Apatity, 122 p. (In Russian).

1996

**Atlanticheskaja treska: biologija, ekologija, promysel.** 1996. Pod obsch. red. G. G. Matishova A. V. Rodina. [Atlantic cod: biology, ecology, fishery. Edited by G. G. Matishov, A. V. Rodin.] SPb, 237 p. (In Russian)

**Biogeocenozy glacial'nyh shel'fov Zapadnoj Arktiki.** 1996. Otv. red. chl.-korr. RAN G. G. Matishov. [Biogeocenoses of glacial shelves of the West Arctic. Edited by corr- member RAS G. G. Matishov.] Apatity, 286 p. (In Russian)

**Kavcevich, N. N., Erohina, I. A.** 1996. Biohimicheskie i citologicheskie issledovanija morskih mlekopitajuschih v Arktike [Biochemical and cytological investigations of marine mammals in the Arctic.] Apatity, 169 p. (In Russian)

**Timofeev, S. F.** Ekologija ontogeneza evfauzievyh rakoobraznyh (Crustacea, Euphausiacea) severnyh morej. 1996. [Ecology of onthogenesis of the euphausiid crustaceans (Crustacea. Euphausiacea) of the northern seas.] SPb, 156 p. (In Russian)

**Hrustalev, Ju. P., Matishov, G. G.** 1996. Ekologo-geograficheskij slovarj. [Ecological- geographic dictionary.] Apatity, 144 p. (In Russian)

**Ekosistemy, bioresursy i antropogennoe zagrjaznenie Pechorskogo morja.** 1996. Otv. red. chl.-korr. RAN, prof. G. G. Matishov. [Ecosystems, bioresources and anthropogenic contamination of the Pechora Sea. Edited by corr.-member RAS G. G. Matishov]. Apatity, 162 p. (In Russian)

**Ekosistemy pelagiali morej Zapadnoj Arktiki.** 1996. Otv. red. chl.-korr. RAN, prof. G. G. Matishov. [Ecosystems of the pelagic of the West Arctic Seas. Ed. Corr-member RAS G. G. Matishov.] Apatity, 176 p. (In Russian)

1997

**Voprosy gidrobiologii, ekologii, okeanologii v issledovanijah Murmanskogo morskogo biologicheskogo instituta:** Bibliograficheskij ukazatelj literatury (1990–1995 gg.). 1997. Otv. red. akad. RAN G. G. Matishov. [Problems of hydrobiology, ecology, oceanology in the investigations of the Murmansk Marine Biological Institute. Bibliographical list of literature (1990-1995). Edited by Acad. RAS G. G. Matishov.. Murmansk, 192 p. (In Russian)]

**Kol'skij zaliv: okeanografija, biologija, ekosistemy, polljutancy.** 1997. Otv. red. akad. RAN G. G. Matishov. [The Kola bay: oceanography, biology, ecosystems, pollutants. Ed. Acad. RAS. G. G. Matishov.] Apatity, 265 p.(In Russian)

**Nauchno-metodicheskie podhody k ocenke vozdejstvija gazoneftedobychi na ekosistemy morej Arktiki** (na primere Shtokmanovskogo proekta). 1997. Pod obsch. red. G. G. Matishova i B. A. Nikitina. [Scientific and methodical approaches to the estimation of the impact on the oil-gas excavation on the ecosystems of the Arctic seas (on the example of the Stockman's project). Ed. G. G. Matishov, B. A. Nikitin.] Apatity, 393 p. (In Russian)

**Ocenka vozdejstvija na okruzhajuschuju sredu poiskovo-ocenochnyh rabot na neftj na ploschadi Medynskaja -more v jugo-vostochnoj chasti Barenceva morja.** 1997. [Environmental Impact Assessment of scouting and the estimation works on oil over the area Medynskaya-sea in the south-eastern part of the Barents Sea.] G. G. Matishov, N. V. Denisenko, A. N. Zuev, O. V. Karamushko, O. Ja. Sochnev, I. A. Shparkovskij. Murmansk, 85 p. (In Russian)

**Perspektivnye ob'ekty rybnogo promysla v Barencevom more (kambala-ersh, zvezdchatyj skat, pinagor).** 1997. [Perspective objects of fishery in the Barents Sea [Long-rough dab, starry skate, lump-fish.] E. G. Berestovskij, V. M. Muravejko, A. D. Chinarina, N. V. Chernova, O. Ju. Kudrjavceva. Apatity, 229 p. (In Russian)

**Plankton morej Zapadnoj Arktiki.** 1997. Otv. red. akad. RAN G. G. Matishov. [Plankton of the West Arctic Seas. Ed. Acad. RAS G. G. Matishov.] Apatity, 352 p. (In Russian)

**Himicheskie processy v ekosistemah severnyh morej (gidrohimija, geohimija, neftjanoe zagraznenie).** 1997. [Chemical processes in the ecosystems of the northern seas (hydrochemistry, geochemistry, oil contamination).] G. G. Matishov, L. G. Pavlova, G. V. Il'in, T. L. Schekaturina, O. G. Mironov, V. S. Petrov. Apatity, 404 p. (In Russian)

**Ekologija ptic i tjulenej v morjah Severo-Zapada Rossii.** 1997. Otv. red. chl.-korr. RAN, prof. G. G. Matishov. [Ecology of birds and seals in the seas of the North-West of Russia. Ed. Corr. Member RAS prof. G. G. Matishov.] Apatity, 228 p. (In Russian)

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**Biologija i okeanografija Karskogo i Barenceva morej**(po trasse Sevmorputi). 1998. Otv. red. akad. RAN G. G. Matishov. [Biology and oceanography of the Kara and the Barents Seas (along the route of the Northern Sea Route) Ed. Acad. RAS G. G. Matishov.] Apatity, 467 p. (In Russian)

**Galaktionov, K. V., Dobrovolskij, A. A.** 1998. Proisxozhdzenie i evoljucija zhiznennyh ciklov trematod. [The origin and the evolution of the vital cycles of trematods.] SPb., 404 p. (In Russian)

**Zhuravljova, N. G., Zenzerov, V. S.** 1998. Ekologo-morfologicheskie osnovy markul'tury ryb v Zapoljar'e. [Ecologo-morphological bases of the marine culture in Zapolyarie.] Apatity, 374 p. (In Russian)

**Promyslovye i perspektivnye dlja ispol'zovanija vodorosli i bespozvonochnye Barenceva i Belogo morej.** 1998. Otv. red. akad. RAN, prof. G. G. Matishov. [Commercial and perspective for the exploitation algae and invertebrates of the Barents and the White Seas. Ed. Acad. RAS prof. G. G. Matishov.] Apatity, 628 p. (In Russian)

**Shipilov, E. V., Tarasov, G. A.** 1998. Regional'naja geologija neftegazonosnyh osadochnyh bassejnov Zapadno-Arkticheskogo shel'fa Rossii. [Regional geology of the oil-gas bearing sedimentary basins of the West-Arctic shelf of Russia.] Apatity, 306 p. (In Russian)

**Matishov, G., Zuev, A., Golubev, V., Adrov, N., Slobodin, V., Levitus, S., Smolyar, I.** 1998. Climatic Atlas of the Barents sea. Temperature, Salinity, Oxygen. Version 1. April 1998, NOAA/NODC, Washington, 98 p.