

PERSONAL INFORMATION

Marina Panayotova



📍 9000 Varna (Bulgaria)

☎ (+359) 52 370 486

✉ mpanayotova@io-bas.bg

WORK EXPERIENCE

1997–2001

specialist ecology

Institute of oceanology – BAS, Varna (Bulgaria)

Taxonomy, biodiversity, ecology and population parameters of marine fishes; fish stock assessments, sustainable exploitation of the marine living resources.

2001–2002

Assistant III Grade

Institute of oceanology – BAS, Varna (Bulgaria)

Taxonomy, biodiversity, ecology and population parameters of marine fishes; fish stock assessments, sustainable exploitation of the marine living resources.

2002–2007

Assistant II Grade

Institute of oceanology – BAS, Varna (Bulgaria)

Taxonomy, biodiversity, ecology and population parameters of marine fish; hydroacoustic research, assessment of fish stocks and other biological resources; sustainable use and management of marine biological resources, marine protected areas and conservation-significant species, distribution and abundance of marine mammals.

2007–2015

Assistant I Grade, Chief assistant

Institute of oceanology – BAS, Varna (Bulgaria)

Taxonomy, biodiversity, ecology and population parameters of marine fish; hydroacoustic research, assessment of fish stocks and other biological resources; sustainable use and management of marine biological resources, marine protected areas and conservation-significant species, distribution and abundance of marine mammals

2015–Present

Associate professor

Institute of oceanology – BAS, Varna (Bulgaria)

Develops and coordinates the implementation of research projects and leads research teams; Collects, analyzes and summarizes scientific information and data on: taxonomy, biodiversity, ecology and population parameters of marine and diadronous fish species; hydroacoustic research, assessment of fish stocks and other biological resources; sustainable use and management of marine biological resources, marine protected areas and conservation-significant species, distribution and abundance of marine mammals; Carries out publishing activity; Prepares an assessment and reports on the ecological condition of the marine waters in fulfillment of the obligations of the IO-BAS to carry out monitoring in marine waters according to the national and European legislation; Performs expert and consulting activities and participates in advisory bodies and working groups at national and international bodies.

2006

Contract CA BG 06/07 111 with UNOPS as National expert on Biodiversity for the preparation of the Report „Transboundary Diagnostic Analysis of Black Sea 2007”

UNDP - UNOPS, BSERP, Istanbul (Turkey)

15/04/2019–15/06/2019 **Data analysis specialist**
Food and Agriculture Organization of the United Nations, Rome (Italy)

EDUCATION AND TRAINING

- 1992–1997 **Master Sc. degree in Ecology and Environment conservation (Diploma)**
Naval Academy „N. J. Vaptsarov”, Civil Faculty, Varna (Bulgaria)
- 1998–2007 **PhD in Hydrobiology (Diploma)/Fisheries science**
Institute of oceanology - BAS, Varna (Bulgaria)
- 07/09/1998–10/09/1998 **School for young scientists and students**
Institute of oceanology - BAS, Shkorpilovtsi (Bulgaria)
- 1998 **Training course on Biological effects of pollutants**
NIMRD "Grigore Antipa" under PHARE Project, Constanta (Romania)
Effect of pollutants on marine biota
- 24/09/2001–05/10/2001 **Summer school “ Approaches to assessing the ecological status of marine ecosystems and sustainable development”**
Institute of oceanology - BAS, Shkorpilovtsi (Bulgaria)
- 15/08/2005–19/08/2005 **Training on mesozooplankton sampling, identification and counting techniques**
IBSS (Ukraine), Project UNDP-GEF Black Sea Ecosystem Recovery Project, Odessa (Ukraine)
Sampling and processing of mesozooplankton
- 12/09/2005–16/09/2005 **Training on macrozoobenthos – sampling, identification and counting techniques**
Institute of oceanology - BAS, Varna (Bulgaria)
Sampling and processing of zoobenthic samples.
- 17/10/2005–18/10/2005 **Training “Study of cetaceans in the Black Sea”**
Permanent Secretariat of The Black Sea Commission of the Protection of the Black Sea Against Pollution and ACCOBAMS, Istanbul (Turkey)
Methods for studying of cetaceans.
- 2007 **GIS - introduction to applications, based on ArcGIS Desktop**
Institute of oceanology - BAS, Varna (Bulgaria)
Work with graphical software
- 2008 **Fisheries acoustics training course**
Institute of oceanology - BAS, lecturer Dr. Rolf J. Korneliusen (IMR/MAREC), Берген, Норвегия, Varna (Bulgaria)
Data collection, analyses and fish stock assessment by applying of hydroacoustic method

- 05/07/2010–09/07/2010 **E&IA Workshop “An Introduction to R and FLR for Quantitative Fisheries Analysis”**
Joint Research Center (JRC), lecturer Dr. Robert Scott (JRC), Athens (Greece)
Application of R and FLR for fish stock assessment.
- 30/04/2012–03/05/2012 **Utilization of equipment and techniques for stock assessment by scientific surveys**
Institute of oceanology - BAS, GFCM – Dr. Alvaro Abella (Agenzia Regionale per la protezione dell’Ambiente Toscana (ARPAT)), Livorno, Italy, lecturers: Dr. Fabio Fiorentino (CNR - IAMC), Mazara del Valo, Italy, Varna (Bulgaria)
Method for data processing and analysis of survey data.
- 25/06/2012–30/06/2012 **Application of acoustic surveys in the assessment of pelagic fish stocks**
Institute of oceanology - BAS, lecturer Patrick Schneider - AQUASON (Spain), Varna (Bulgaria)
Fisheries acoustics, design of acoustic survey, acoustic data processing by Echoview software
- 22/07/2012–25/07/2012 **Training for photo identification of cetaceans**
NIMRD „Grigore Antipa“; NGO “Green Blkans”, ACCOBAMS, lecturer Dr. Joan Gonzalvo (Thetys Institute, Italy), Constanta (Romania)
Basic skills for photo identification of cetaceans
- 15/01/2013–18/01/2013 **Training on bottom trawl survey’ methods for assessment of demersal fish stocks**
Central Fisheries Research Institute (CFRI), Trabzon (Turkey)
Methodology and protocol for demersal surveys at sea.
- 09/09/2013–13/09/2013 **Training in Analytical Fish Stock Assessment Methods**
YugNIRO, lecturers: Piera Carpi (CNR-ISMAR, Italy), Prof. Georgi Daskalov (IBER-BAS), Kerch (Ukraine)
Application of stock assessment methods and forecasts in fisheries science.
- 10/06/2013–14/06/2013 **Training workshop on the Ecosystem approach to Fisheries and to Aquaculture (EAF/EAA)**
FAO, lecturer Dr. Pedro de Barros, Rome (Italy)
Building of a common pool of knowledge on concepts and processes of the EAF/EAA as well as on how to translate the wider principles of EAF/EAA into practical management plans.
- 03/02/2014–07/02/2014 **Training workshop “Ecosystem approach to fisheries in the Mediterranean and Black Seas. Scientific bases”**
Mediterranean Agronomic Institute of Zaragoza (CIHEAM), Испания, Varna (Bulgaria)
Skills in ecosystem modelling and ecological data analysis.
- 12/12/2016–16/12/2016 **Training on „Estimation of marine mammal abundance and population parameters“**
ACCOBAMS, NGO Mare Nostrum (Romania), Constanta (Romania)

Marine mammals - estimation of abundance by mark - recapture, data analysis, surveydesign by DISTANCE software, sampling by line transect method, population sensitivity analysis.

PERSONAL SKILLS

Mother tongue(s) Bulgarian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C1
Russian	C2	C1	C1	C1	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages - Self-assessment grid

Communication skills Excellent communication skills, experience in participation in national and international research project teams.

Organisational / managerial skills Experience as team leader of national and international projects in the field of fisheries; management and organization of surveys, leading of scientific teams, organization and holding of workshops, seminars and trainings.

Job-related skills Extensive experience in demersal and pelagic surveys, acoustic surveys, fish sampling, fish samples processing, and ichthyoplankton sampling.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Independent user

Digital skills - Self-assessment grid

Excellent command in MS Office (Word, Excel, Power Point), VPA 3.1 (Lowestoft), FiSAT II (FAO), FishStat Plus, LSSS, ArcView 9.3, R Studio, FLR, Surba, Echoview, Primer 6.0, Statistica, SPSS, XLStat, DISTANCE

Driving licence B

ADDITIONAL INFORMATION

Publications

1. Prodanov K.B., **M.D. Stoyanova**, K.R. Mikhailov, 1998. "Stock-Recruitment Relationships of the Black Sea Anchovy (*Engraulis encrasicolus* L.) and Possibilities for their use in Determining the Target (TRPs) and Limit Reference Points (LRPs)". *First International Symposium on Fisheries & Ecology*, Proceedings. September 2-4, 1998, Trabzon, Turkey, pp. 34-53.
2. Prodanov K.B., **M.D. Stoyanova**, 1999. Sustainable development and utilization of the marine living resources. "Steno", Varna, 325 pp., (in Bulgarian).
3. Prodanov K.B., **M.D. Stoyanova**, 2000. Biological resources of the World Ocean. "Steno", Varna, 335 pp., (in Bulgarian).
4. Prodanov K.B., **M.D. Stoyanova**, 2001. Stock assessments of the Black sea anchovy during the period 1979-1993. *Mediterranean Marine Science*, vol.2/2, Athens, Greece, 7-15 pp.
5. Ivanov L., **M. Panayotova**, 2001. Determination of the Black Sea anchovy stocks during the period 1968-1993 by Ivanov's combined method. *Pros. Inst.oceanology – BAS*, Varna, vol.3, 128-154 pp.

6. Ivanov L., M. **Panayotova**, 2001. Assessment of the methods for back calculations for the fish growth by means of regression equations. In: Month of the science – Varna. Union of Scientists – Varna, Series “Medicine and ecology” 2’2000, 1’2001, 59-62 pp.
7. **Panayotova M.**, 2001. Growth parameters of the Black Sea sprat (*Sprattus sprattus* L.) during the period 1998 – 2000 along the Bulgarian Black Sea coast. *Pros. Inst.oceanology – BAS*, Varna, vol.3, 163-169 pp.
8. Ivanov L., **M. Panayotova**, 2005. Forms of the regression equations for back - calculations on the fish growth. *Pros. Inst.oceanology – BAS*, vol.5, 271-283 pp.
9. Prodanov K., **Panayotova M.**, 2005. Overview on the Bulgarian fisheries during the period 1927 – 2000. *Journal of Environmental Protection and Ecology (JEPE)*, vol. 6, no. 2, 370 – 376 pp.
10. **Panayotova M.**, V. Todorova, 2008. Stocks, distribution and population parameters of Turbot (*Psetta maxima* L.) in front of the Bulgarian Black Sea coast in 2006. *Acta zool. bulg.*, Suppl.2, 317-324 pp.
11. Raykov V., Shlyakhov V., Maximov V., Radu G., Staicu I., **Panayotova M.**, Yankova M., Bikarska I., 2008. Limit and target reference points for rational exploitation of the turbot (*Psetta maxima* L.) and whiting (*Merlangius merlangus euxinus* Nordm.) in the western part of the Black Sea. *Acta zool. bulg.*, Suppl.2, 305-315 pp.
12. Todorova V., Panayotova M., Micu D., Konsulova Ts., 2008. Marine protected areas in Bulgaria. Present and perspectives. Publ.house “Steno”, Varna, Todorova V.(Ed.). 20 pp.
13. Todorova V., Micu D., **Panayotova M.**, Konsulova Ts., 2008. Priority sites for designation of new Marine Protected Areas in Bulgaria. Publ. House “Steno”, Varna, Todorova V. (Ed.), 20 стр.
14. **Panayotova M.**, 2008. Turbot in front of the Bulgarian Black Sea coast - trends and current state. *Bulletin of the National Oceanographic Committee*, vol.5, 12 – 19 pp.
15. Pilling G., Abella A., Di Natale A., Martin P., Guillen J., Cardinale M., Accadia P., Anastopoulou I., Colloca F., Daskalov G., Dimech M., Fiorentino F., Karlou-Riga C., Katsanevakis S., Leonart J., Maximov V., Murenu M., **Panayotova M.**, Petrakis G., Quetglas A., Radu G., Raykov V., Santojanni A., Sartor P., Shlyakhov V., Spedicato M. T., Tsitsika E., Vasiliades L., Zengin M., Cheilari A., Rätz, H. J., 2008. Scientific, Technical and Economic Committee for Fisheries. SGMED-08-03 Working Group on the Mediterranean Part III, Joint Black Sea Subgroup. EUR 23655 EN – Joint Research Centre – Institute for the Protection and Security of the Citizen, EUR – Scientific and Technical Research series, DOI 10.2788/47085, 525 pp.
16. Todorova V., Micu D., Zaharia T., **Panayotova M.**, 2008. Marine protected areas in the Western Black Sea - towards the development of an ecologically coherent network. Proceedings of the 9th international Conference Littoral 2008 “A changing coast: challenge for the environmental policies”, November 25 – 28, 2008, Venice, Italy. CDROM
17. **Panayotova M.**, K. Mikhailov, 2009. Some population parameters of sprat (*Sprattus sprattus* L.) and anchovy (*Engraulis encrasicolus* L.) along the Bulgarian Black Sea coast during the period 1998 – 2000. *Изв. на ИПП, Варна*, т. 27, 47-54 стр.
18. Daskalov G., V. Raykov, **M. Panayotova**, G. Radu, V. Maximov, V. Shlyakhov, E. Duzgunez and H.-J.Rätz, 2009. Scientific, Technical and Economic Committee for Fisheries. Report of the SGMED-09-01 working group on the review of advice on Black Sea Stocks for 2009. EUR 23848 EN – Joint Research Centre – Institute for the Protection and Security of the Citizen, EUR – Scientific and Technical Research series , DOI 10.2788/19709, 158 pp.
19. Casey, J., Bertignac, M., Daskalov, G., Holmes, S., Keatinge, M., Maximov, V., Munch-Petersen, S., O’Hare, B., **Panayotova, M.**, Stransky, C., Vanhee, W., Radu, G., Raid, T., Raykov, V., Shlyakhov, V. & Zengin, 2009. Scientific, Technical and Economic Committee for Fisheries (STECF). Review of scientific advice for 2010. Consolidated Advice on Stocks of Interest to the European Community. EUR 23981 EN– Scientific and Technical Research series, DOI 10.2788/33136.
20. Raykov, V. Yankova, **M. Panayotova**, M. Radu, Gh. Maximov, V.2010. Prediction modeling and reference conditions for sprat and turbot exploitation in EU waters of the Black Sea. *Cercetari Marine - Recherche marines*, vol. 39, pp. 259-280.
21. Radu G., Nicolaev, Anton E., Yankova M., **Panayotova M.**, Raykov V., 2010. Sprat and turbot fisheries in the Bulgarian and Romanian Black Sea area. *Cercetari Marine - Recherche marines*, vol. 39, pp. 191-210.
22. Daskalov G., Gümüş A., Maximov V., **Panayotova M.**, Radu G., Raykov V., Shlyakhov V., Zengin M., Rätz H.-J., Scott R., Druon J.-N., 2010. Scientific, Technical and Economic Committee for Fisheries. Review of scientific advice for 2010 - part 3b. Advice on Stocks of Interest to the European Community in the Black Sea. EUR 24656 EN – Joint Research Centre – Institute for the Protection and Security of the Citizen, EUR – Scientific and Technical Research series, doi: 10.2788/80318., 167

pp

23. Raykov V., I. Bikarska, **M. Panayotova**, K. Lisichkov, 2011. Fishing Vessel Monitoring System (VMS): Application and Challenges in Bulgarian Black Sea Coastal Waters, *Journal of Environmental Protection and Ecology (JEPE)*, Vol. 12(1) 2011, 205-214 pp.
24. Todorova V., **Panayotova M.**, 2015. Infralittoral rocks and other hard substrates. In: Biserkov, V. et al. (Eds) 2015. Red book of the Republic of Bulgaria, Vol. 3, Natural habitats, p. 54-56. BAS & MOEW
25. Тодорова В., **Панайотова М.**, 2015. Cystoseira spp. on exposed to waves infralittoral bedrock and boulders. In: Biserkov, V. et al. (Eds) 2015. Red book of the Republic of Bulgaria, Vol. 3, Natural habitats, p. 56-58. BAS & MOEW.
- Todorova V., **Panayotova M.**, 2015. Sublittoral sands. In: Biserkov, V. et al. (Eds) 2015. Red book of the Republic of Bulgaria, Vol. 3, Natural habitats, p. 60-62. BAS & MOEW.
27. Todorova V., **Panayotova M.**, 2015. Sublittoral mussel beds on sediment. In: Biserkov, V. et al. (Eds) 2015. Red book of the Republic of Bulgaria, Vol. 3, Natural habitats, p. 62-63. BAS & MOEW.
28. Vassilev M., A. Apostolou, B. Velkov, P. Ivanova, **M. Panayotova**, D. Dobrev, L. Pehlivanov, 2011. Status of Gobiid Ichthyofauna (Gobiidae) in Bulgaria: taxonomical, conservative, ecological and social aspects. *Natura Montenegrina*, 10(2): 115-124.
29. Atanassov I., P. Ivanova, **M. Panayotova**, A. Tsekov, K. Rusanov, 2011. Mitochondrial control region DNA variation in turbot populations from the Bulgarian and Romanian Black Sea coasts. *Biotechn & Biotechn Eq.*, vol.25 (4), DOI: 10.5504/bbeq.2011.0068.
30. Radu, Gh. Eugen, A. Golumbeanu, M. Raykov, V. Yankova, **M. Panayotova**, M. Shlyahov, V. Zengin, M. 2011. State of the main Black Sea commercial fish species correlated with ecological conditions and fishing effort. *Environmental Protection and Ecology (JEPE)*, 12, No.2, 549-557.
31. **Panayotova M.**, V. Raykov, V. Maximov, Gh. Radu, E. Anton, 2012. Distribution, abundance and population structure of Turbot (*Psetta maxima* L.) in the Bulgarian and Romanian Black Sea area in spring 2010. *Compt. rend. Acad. bulg. Sci.*, Tome 65, vol.1, 63-66 pp.
32. **Panayotova M.**, V. Raykov, V. Todorova, 2012. Turbot (*Psetta maxima* L.) abundance indices and stock dynamics off Bulgarian Black Sea coast during the period 2006 - 2009. *Acta Zool. Bulg.*, 64 (1), 85-91 pp.
33. Raykov V., **M. Panayotova**, P. Ivanova, I. Dobrovolov, V. Maximov, 2012. First discovery of European mud-minnow *Umbra krameri* WALBAUM, 1792 (Pisces: Umbridae) in the Black Sea. *Compt. rend. Acad. bulg. Sci.*, vol.1, Tome 65, vol.1, 49-52 pp.
34. Dobrovolov I. S., Ivanova P. P., Georgiev Zh. M., **Panayotova M. D.** and Raykov V. S. 2012. Allozyme variation and genetic identification of shad species (Pisces: Clupeidae, Genus Alosa) along the Bulgarian Black Sea coast. *Acta zool. bulg.*, 64 (2), 175-183 pp.
35. **Panayotova M.**, V. Raykov, P. Ivanova, I. Dobrovolov, 2012. Landings, distribution, size structure and genetics of Pontic shad (*Alosa immaculata* BENNETT, 1835) in the Bulgarian Black Sea area. *Journal of Environmental Protection and Ecology (JEPE)* 2012 vol.13, no. 3A, 1856-1864 pp.
36. Raykov V., **M. Panayotova**, 2012. Cetaceans sightings off the Bulgarian Black Sea coast over the period 2006 – 2010. *Journal of Environmental Protection and Ecology (JEPE)*, vol.13, no. 3A, 1824-1835 pp.
37. Daskalov, G., Cardinale, M., Aysun Gümüş, Zengin, M., **Panayotova, M.**, Duzgunes, E., Shlyakhov, V., Genç, Y., Radu, G., Yankova, M., Maximov, V., Mikhaylyuk, A., Raykov, V. and Rätz, H.-J., Casey, J., Abella, J. A., Andersen, J., Bailey, N., Bertignac, M., Cardinale, M., Curtis, H., Delaney, A., Döring, R., Garcia Rodriguez, M., Gascuel, D., Graham, N., Gustavsson, T., Jennings, S., Kenny, A., Kirkegaard, E., Kraak, S., Kuikka, S., Malvarosa, L., Martin, P., Motova, A., Murua, H., Nowakowski, P., Prellezo, R., Sala, A., Somarakis, S., Stransky, C., Theret, F., Ulrich, C., Vanhee, W. & Van Oostenbrugge, H., 2011. Scientific, Technical and Economic Committee for Fisheries. Opinion by written procedure Assessment of Black Sea Stocks (STECF-OWP-11-06). EUR – Scientific and Technical Research series, doi:10.2788/94711.
38. Daskalov G., Cardinale, M., Haref, A., Duzgunes, E., Genç, Y., Gümüş, A., Maximov, V., Mikhaylyuk, A., Nikolaev, S., Osio, G. C., **Panayotova, M.**, Radu, G., Raykov, V., Shlyakhov, V., Yankova, M. and Zengin, M. STECF members: Casey, J., Abella, J. A., Andersen, J., Bailey, N., Bertignac, M., Cardinale, M., Curtis, H., Daskalov, G., Delaney, A., Döring, R., Garcia Rodriguez, M., Gascuel, D., Graham, N., Gustavsson, T., Jennings, S., Kenny, A., Kirkegaard, E., Kraak, S., Kuikka, S., Malvarosa, L., Martin, P., Motova, A., Murua, H., Nowakowski, P., Prellezo, R., Sala, A., Somarakis, S., Stransky, C., Theret, F., Ulrich, C., Vanhee, W. and Van Oostenbrugge, H., 2012. Scientific, Technical and Economic Committee for Fisheries. Assessment of Black Sea Stocks (STECF-12-15). EUR – Scientific and Technical Research series, 277 pp.
39. Sampson, D., Ak, O., Daskalov, G., Cardinale, M., Charef, A., Duzgunes, E., Genç, Y., Gucu, A.C.,

- Maximov, V., Mikhaylyuk, A., Orio, A., Osio, G. C., **Panayotova, M.**, Radu, G., Raykov, V., Shlyakhov, V., Yankova, M. and Zengin, M. STECF members: Casey, J., Abella, J. A., Andersen, J., Bailey, N., Bertignac, M., Cardinale, M., Curtis, H., Daskalov, G., Delaney, A., Döring, R., Garcia Rodriguez, M., Gascuel, D., Graham, N., Gustavsson, T., Jennings, S., Kenny, A., Kirkegaard, E., Kraak, S., Kuikka, S., Malvarosa, L., Martin, P., Motova, A., Murua, H., Nord, J., Nowakowski, P., Prellezo, R., Sala, A., Scarcella, G., Somarakis, S., Stransky, C., Theret, F., Ulrich, C., Vanhee, W. & Van Oostenbrugge, H., 2013. Scientific, Technical and Economic Committee for Fisheries (STECF) – 2013. Assessment of Black Sea stocks (STECF 13-20). EUR – Scientific and Technical Research series, doi:10.2788/34535, 429 pp.
40. Coll M., Ph. Cury, E. Azzurro, M. Bariche, G. Bayadas, J. M. Bellido, Ch. Chaboud, J. Claudet, A.F. El-Sayed, D. Gascuel, L. Knittweis, C. Pipitone, Y. Samuel-Rhoads, S. Taleb, S. Tudela, A. Valls and **Workshop Participants**, 2013. The scientific strategy needed to promote a regional ecosystem-based approach to fisheries in the Mediterranean and Black Seas. *Reviews in Fish Biology and Fisheries*, 23:415-434, DOI 10.1007/s11160-013-9305-y.
41. Raykov V., **M. Panayotova**, Gh.Radu, V. Maximov, E. Anton, S. Nicolaev, 2013. International pelagic trawl survey in the EU waters of the Black Sea, June 2010. *Journal of Environmental Protection and Ecology*, vol.14, No.1, 172-179 pp.
42. **Panayotova M.**, V. Marinova, V. Raykov, K. Stefanova, G. Shtereva, A. Krastev, V., 2014. Pilot acoustic study of fish stocks and distribution in the Northern Bulgarian Black Sea area. *Compt. rend. Acad. Bulg. Sci.*, Tome 67, vol.7, 959-964 pp.
43. Sampson, D., Ak, O., Cardinale, M., Chashchyn, O., Damalas, D., Dagtekin, M., Daskalov, G., Duzgunes, E., Genç, Y., Gucu, A.C., Gumus, A., Maximov, V., Osio, G. C., **Panayotova, M.**, Radu, G., Raykov, V., Yankova, M. and Zengin, M.. STECF members: Abella, J. A., Andersen, J., Bailey, N., Bertignac, M., Cardinale, M., Curtis, H., Daskalov, G., Delaney, A., Döring, R., Garcia Rodriguez, M., Gascuel, D., Graham, N., Gustavsson, T., Jennings, S., Kenny, A., Kraak, S., Kuikka, S., Malvarosa, L., Martin, P., Murua, H., Nord, J., Nowakowski, P., Prellezo, R., Sala, A., Scarcella, G., Somarakis, S., Stransky, C., Theret, F., Ulrich, C., Vanhee, W. & Van Oostenbrugge, H., 2014. Scientific, Technical and Economic Committee for Fisheries - Black Sea Assessments (STECF-14-14). *EUR–Scientific and Technical Research series*, doi: 10.2788/19168, 421 pp.
44. **Panayotova M.**, Todorova V., 2015. Distribution of three cetacean species along the Bulgarian Black Sea coast in 2006-2013. *J. Black Sea/Mediterranean Environment*, vol. 21, No. 1: 45-53 pp.
45. **Panayotova M.**, V. Todorova, 2015. Diversity and community structure of fish in the Bulgarian Black Sea shelf area. *Journal of Research in Agriculture and Animal Science*, Vol.3, issue 3 pp: 07-14, ISSN (Online) : 2321-9459.
46. **Panayotova M.**, Todorova V., 2015. Using opportunistic sightings to assess the distribution of small cetaceans in the Bulgarian Black Sea in 2012. *Acta Zool. Bulg.*, 67 (3), 421-427-91 pp.
48. **Panayotova M.**, 2015. Assessment of turbot (*Scophthalmus maximus* L.) stock status along Bulgarian Black Sea coast according to the indicators of EU Marine Strategy Framework Directive. Proc. „Seminar of Ecology – 2015 with international participation”, 23 – 24 April, 2015, Sofia, 79 –87 pp.
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Projects

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28. **Expansion of the ecological network NATURA 2000 in the Bulgarian Black Sea area to overcome the average insufficiency in terms of marine habitats 1110 "Permanently covered with sea water sand and mud shoals" and 1170 "Reefs" and the species 4125 *Alosa immaculata*, 1349 *Tursiops truncatus* and 1351 *Phocoena phocoena* and partial replenishment of scientific reserves for habitat 1180 "Underwater structures formed by the action of linking gases" and species 1349 *Tursiops truncatus* in accordance with the conclusions of the European Thematic Center for Biodiversity of the Biogeographical Seminar on the Black Sea, 15 June 2010, Brindisi, PUOOS, 2011 – 2012.**
29. **"Stock assessment of turbot by swept area method along Bulgarian Black Sea coast in spring 2011 "**. Project between IO-BAS and NAFA – Sofia, MAF, 2011 – 2012.
30. **"Stock assessment of turbot by swept area method along Bulgarian Black Sea coast in autumn-winter 2011"**. Project between IO-BAS and NAFA – Sofia, MAF, 2011 - 2012.
31. **"Stock assessment of sprat stocks in front of Bulgarian and Romanian Black Sea coasts (community waters) in autumn season in 2011 by hydroacoustic methods"**. Project between IO-BAS and NAFA – Sofia, MAF, 2011 - 2012.
32. **"Stock assessment of turbot by swept area method along Bulgarian Black Sea coast in spring 2012 "**. Project between IO-BAS and NAFA – Sofia, MAF, 2012 – 2013.
33. **"Stock assessment of turbot by swept area method along Bulgarian Black Sea coast in autumn-winter season in 2012 "**. Project between IO-BAS and NAFA – Sofia, MAF, 2012 - 2013.
34. **PERSEUS – Protecting European Seas and borders through the intelligent use of surveillance, 7FP, 2012 – 2016.**
35. **COCONET - Towards COast to COast NETWORKS of marine protected areas (from the shore to the high and deep sea), coupled with sea-based wind energy potential (CoCoNET), 7FP, 2012 – 2016.**
36. **Project with MGU „South Stream“ on conducting preliminary environmental engineering studies along the route for the construction of the "South Stream" gas pipeline "**, 2011.
37. **Agreement between MOEW and Institute of oceanology – BAS, Varna for fulfillment of the obligations of IO-BAS, arising from the Law for waters for monitoring of coastal and open sea waters , 2012-2013.**
38. **"Genetic Structure Analyses of Shared Turbot Stocks Along Turkish and Bulgarian Coasts in Connection with its Bilateral Sustainable Exploitation"**, Joint Bilateral Research Project Bulgaria - Turkey, 2013 – 2016.
39. **"Research and assessment of sprat stocks off the Bulgarian Black Sea coast by applying of hydroacoustic method " and „Biological monitoring of commercial landings of target species sprat (*Sprattus sprattus*)"**. Project between IO-BAS and NAFA – Sofia, MAF, 2014, 19.08.2014 – 31.03.2015 r
40. **" ISMEIMP - Investigations on the State of the Marine Environment and Improving Monitoring Programs developed under MSFD"**. Program BG 02.02 "Improved monitoring of marine waters". Financial Mechanism of European Economic Area. Norwegian Financial Mechanism, 2015 – 2017, Partnership Agreement from 21.03.2015 Black Sea Basin Directorate - Varna and IO-BAS, Varna (Appendix №8 to Contract № Д-34-13/02.04.2015), 2015 – 2017.
41. **Initial assessment of the state , formulation of criteria for good state and ecological targets for the marine environment of Republic of Bulgaria.** Contract with Black Sea Basin Directorate, MOEW, 2012 – 2013.
42. **Study on the Evaluation of specific management scenarios for the preparation of multiannual management plans in the Mediterranean and the Black Sea.** EC DG MARE, MARE/2014/27, 2015.

- 43. Sea basin checkpoint** LOT NO: 4 – Black Sea (Анализ на морския басейн ЛОТ 4 - Черно море). EC DG MARE, EMFF/2014/1.3.1.3 - MARE/2014/09 – Lot 4, 2015 - 2017.
- 44. Black Sea Watch - Black Sea marine environment research with public participation.** The project is co-funded by the European Union and Republic of Turkey (within the framework of the Civil Society Dialogue between EU and Turkey-IV Programme Environment, 2016 – 2017.
- 45. COST Action № CA15121** Advancing marine conservation in the European and contiguous seas, (MarCons), 2015 – 2020.
- 46. EEA - Norway grant BG03.PDP2** - "Mapping and assessment of freshwater ecosystem services in Bulgaria" (FEMA), Additional activities - „Mapping and assessment of marine ecosystems and their services in Bulgaria in the areas outside NATURA 2000 network by available data“, approved in the frame of Program BG03 Biological diversity and ecosystems, funded by Financial Mechanism of European Economic Area) 2009-2014 г., Additional agreement № 2 from 23.08.2016 to Contract № Д-33-87/27.08.2015 г. (2016 – 2017).
- 47. Grant procedure MARE/2016/22 - "Strengthening regional cooperation in the area of fisheries data collection"**. Biological data collection in Mediterranean and Black Sea (STREAM), 2017- 2019.
- 48. EASME/EMFF/2016/032: "Framework contract for the provision of scientific advice for the Mediterranean and the Black Seas"**. RECOVERY of FISheries Historical time series for the Mediterranean and Black Sea stock assessment (RECFISH) - EASME/EMFF/2016/1.3.2.5/01/SI2.770039, 2017 – 2019.
- 49. Assessing the vulnerability of the Black Sea marine ecosystem to human pressures (ANEMONE)**. CBC Black Sea. Joint Operational Programme "Black Sea Basin 2014-2020", 2018 – 2020 г.
- 50. Agreement №Д-33-28/31.07.2017 г. between MOEW and IO-BAS for fulfillment of the obligations of IO-BAS, arising under art. 171, para 2, item 3 of the Water Act (WA) for implementation of the monitoring requirements of the Water Framework Directive (WFD) and the Marine Strategy Framework Directive (MSFD) for 2017**, 2017 - 2018.
- 51. Agreement №409/03.07.2018 г. between BSBD-Varna and IO-BAS according to Order №РД-410/03.07.2018 of the Minister of Environment and Waters for the implementation of the marine waters monitoring program in 2018 in relation to Marine Strategy Framework Directive (MSFD)**, 2018 г.
- 52. „Agreement Д-33-36/28.05.2018 г. between MOEW and IO-BAS for fulfillment of the obligations of IO-BAS, arising under art. 171, para 2, item 3 of the Water Act (WA) for implementation of the monitoring requirements of the Water Framework Directive (WFD) and the Marine Strategy Framework Directive (MSFD) for 2018.**
- 53. Support MSFD implementation in the Black Sea through establishing a regional monitoring system of cetaceans (D1) and noise monitoring (D11) for achieving GES – CeNoBS**, Contract № 110661/2018/794677/SUB/ENV.C2, funded by DG ENV. C2, MSFD 2018 call: "Marine Strategy Framework Directive – Second Cycle: Implementation of the New GES Decision and Programmes of Measures", 1.01.2019 – 01.01.2021.

Наукометрични показатели

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