



PERSONAL  
INFORMATION

Bogdan Kirilov Prodanov

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Date of birth 23 May 1987 | Nationality Bulgarian

## WORK EXPERIENCE

1 Jun 2017–Present Senior Assistant, PhD, Coastal zone dynamics Department  
*Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria*

1 Feb 2016–31 May 2017 Assistant, Coastal zone dynamics Department  
*Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria*

3 Dec 2012–31 Jan 2016 Research specialist – geophysicist at Department “Coastal zone dynamics”  
*Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria*

6 Apr 2009–6 Jul 2012 Geophysicist at Department “Seismology”  
*National Institute of Geophysics, Geodesy and Geography - BAS, Sofia, Bulgaria*

Fev 2017–Present Participation in management bodies of the Bulgarian Academy of Sciences  
*Member of the Scientific Council of the Institute of Oceanology (young scientist)*

EDUCATION AND  
TRAINING

17 Jan 2017–Present PhD  
*Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria*  
Thesis: **Seabed mapping of the Bulgarian continental shelf in front of the Avren Plateau coastal area for habitat classification**

1 Sep 2013–1 Sep 2016 PhD - student, Coastal zone dynamics Department  
*Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria*

1 Oct 2006–18 Jul 2012 Master of Science in Exploration Geophysics

*University of Mining and Geology “St. Ivan Rilski”, Department of Applied Geophysics, Sofia, Bulgaria*

**Thesis: Application of Multibeam echo sounders systems in support of geological mapping of Burgas bottom sediments**

Master of Science in Geomorphology

*Sofia University “St. Kliment Ohridski”*

**Thesis: Beach-dune landforms and anthropogenic changes at the Kavatsite-Smokini Beaches (Bulgarian Black Sea Coast)**

#### Membership in Scientific Organizations

- VARNA SCIENTIFIC AND TECHNICAL UNIONS;
- Association of Geomorphologists in Bulgaria;
- International Association of Geomorphologists.

#### Participation in Scientific Working Groups

- COST Action CA16219, Harmonization of UAS techniques for agricultural and natural ecosystems monitoring
- Rocky Coast Working Group
- Submarine Geomorphology Working Group

#### Professional Awards

- First place in a competition for young scientists and specialists under 35 years of age “Eng. Zlatan Brachkov” (Prize winner) VARNA SCIENTIFIC AND TECHNICAL UNIONS - 2015
- First place in a competition for young scientists and specialists under 35 years of age “Eng. Zlatan Brachkov” (Prize winner) VARNA SCIENTIFIC AND TECHNICAL UNIONS - 2017
- Award "Prof. Marin Drinov" of the Bulgarian Academy of Sciences for scientific achievements in research division "Climate Change, Hazards and Natural Resources" - 2017.

## PERSONAL SKILLS

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Mother tongue(s) Bulgarian

Other language(s)	UNDERSTANDING		Other language(s)	UNDERSTANDING	
	Listening			Listening	
English	B1	English	B1	English	B1
Russian	B1	Russian	B1	Russian	B1

German

B1

German

B1

German

B1

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

**Communication skills** Teamwork (including international), responsibility, loyalty, adherence to principles and tolerance.

**Job-related skills**


- Application of geological, geophysical and remote sensing for seabed mapping;
- Bottom sediment sampling;
- Contemporary marine sedimentation;
- Experience in working with specialized equipment for marine research (multibeam echosounding, side-scan sonar systems), underwater diving surveys;
- Using of specialized geographic information systems;
- Application of unmanned aerial systems for mapping the coastal zone.

**Digital competence** Excellent knowledge of the programming package of MS Office (Windows, MS Word, MS Excel, MS PowerPoint, Internet). Proficiency of algorithmic languages: Basic, FORTRAN77, Pascal, C ++, as well as program packages for analytical data processing and many user programs for drawing maps and charts (Surfer, Grapher, AutoCAD, Global Mapper, ArcGIS), processing of images (Core / Draw, Photoshop), as well as of specialized navigational programs for data acquisition and processing of sonar data (Sonar Wiz.Map) and data from multi-beam echosounder and navigation (PDS2000).

## ADDITIONAL INFORMATION

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### Data Science profiles

1. Scopus Author ID: 57113604500  
<http://www.scopus.com/inward/authorDetails.url?authorID=57113604500&partnerID=MN8TOARS>
2.  <http://orcid.org/0000-0002-8118-30344>
3. Web of Science ResearcherID ID P-1173-2019 -  
<https://publons.com/researcher/P-1173-2019/>
4. Researchgate.net -  
[https://www.researchgate.net/profile/Bogdan\\_Prodanov](https://www.researchgate.net/profile/Bogdan_Prodanov)
5. Google Scholar -  
[https://scholar.google.com/citations?hl=bg&user=yxkUh68AAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.com/citations?hl=bg&user=yxkUh68AAAAJ&view_op=list_works&sortby=pubdate)

Scientific publications – 39 (until 07.07.2023)

1. Andreeva, N., Eftimova, P., Valchev, N., Prodanov, B., Lambev, T., Dimitrov, L. (2023). Identification of Coastal Flooding Hotspots in a Large Bay Using an Index-Based Risk Assessment Approach. In: Dobrinkova, N., Nikolov, O. (eds) Environmental Protection and Disaster Risks. EnviroRISKS 2022. Lecture Notes in Networks and Systems, vol 638. Springer, Cham. [https://doi.org/10.1007/978-3-031-26754-3\\_5](https://doi.org/10.1007/978-3-031-26754-3_5)
2. Bekova, R., Prodanov, B., Lambev, T. 2022. Influence of the anthropogenic pressure on Varna and Beloslav Lakes and their ichthyofauna. Proceedings of the 22nd International Multidisciplinary Scientific GeoCongrence SGEM 2022, 22(5.1), <https://doi.org/10.5593/sgem2022/5.1/s20.032>
3. Bekova, R., Prodanov, B., Panayotova, M. 2022. Research of the ichthyofauna in the protected area „Mandra-Poda“, „Chengene Skele Bay“ and „Otmanli“ under NATURA 2000 in Bulgaria. Proceedings of the 22nd International Multidisciplinary Scientific GeoCongrence SGEM 2022, 22 (5.1):355-362, <https://doi.org/10.5593/sgem2022/5.1/s20.045>
4. Bekova, R., Prodanov, B. 2022. Food spectrum of three fish species from the Mugilidae family in brackish water along the Bulgarian Black Sea. Proceedings of the 22nd International Multidisciplinary Scientific GeoCongrence SGEM 2022, 22, 5.1:197-204, <https://doi.org/10.5593/sgem2022/5.1/s20.025>,
5. Bekova, R., Prodanov, B. 2022. Multidisciplinary ichthyological and geological research of the Durankulak Lake, Northern Bulgarian Black Sea Coast. Proceedings of the 22nd International Multidisciplinary Scientific GeoCongrence SGEM 2022 (5.1):295-302, <https://doi.org/10.5593/sgem2022/5.1/s20.038>;
6. Peev, P., Prodanov, B. 2022. The lost (or forgotten islands) of the Western Black Sea. Proceedings of the 22nd International Multidisciplinary Scientific GeoCongrence SGEM 2022, 2022, 1.1, <https://doi.org/10.5593/sgem2022/1.1/s01.005>
7. Todorova V. R., Panayotova M. D., Bekova R. Iv., Prodanov B.K. 2022. The recovery of *Flexopecten glaber* (Linnaeus, 1758) in the Bulgarian Black Sea – recent distribution, population characteristics and future perspectives for protection and commercial utilization of a valuable species. *Acta Zoologica Bulgarica*, 74, 3, 2022, ISSN:0324-0770, 437-444, <https://www.acta-zoologica-bulgarica.eu/2022/002597>

8. Kotsev, I., Prodanov, B., Bekova, R. 2021. Long-Term Impacts of Land Use Change Upon the Natural Flood Storage Reservoirs Along the North Bulgarian Black Sea Coast. In: Ferreira, C.S.S., Kalantari, Z., Hartmann, T., Pereira, P. (eds) Nature-Based Solutions for Flood Mitigation. The Handbook of Environmental Chemistry, Vol 107. Springer, Cham. [https://doi.org/10.1007/698\\_2021\\_765](https://doi.org/10.1007/698_2021_765)
9. Panayotova, M., Bekova, R., Prodanov, B. 2021. Assessment of the exploited fish population`s status along the Bulgarian Black Sea coast according to indicators of the EU Marine Strategy Framework Directive. In Proceedings of 21st International Multidisciplinary Scientific GeoConference SGEM 2021, Vol.21, Book 3.1, pp. 675-683, <https://doi.org/10.5593/sgem2021/3.1/s15.84>;
10. Panayotova, M., Bekova, R., Prodanov, B. 2021. Density and distribution of marine litter on the seafloor in the Bulgarian Black Sea Area, In: Proceedings of 21st International Multidisciplinary Scientific GeoConference SGEM 2021, Vol.21, Book 3.1, pp. 701-708, <https://doi.org/10.5593/sgem2021/3.1/s15.87>
11. Prahov, N., Prodanov, B., Dimitrov, K., Velkovsky, K. 2021. The negative impact of human activities on underwater cultural heritage: Case studies from the Bulgarian Black Sea Littoral. In: Proceedings of 21st International Multidisciplinary Scientific GeoConference SGEM 2021, Vol.21, Book 2.1, pp. 743-751, <https://doi.org/10.5593/sgem2021/2.1/s11.89>
12. Prodanov, B., Bekova, R., Kotsev, I., Vachkova, V. 2021. Habitat Lost: Analysis of the eutrophication magnitude at a protected coastal lake in Bulgaria using satellite and drone imagery. In: Proceedings of 21st International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM 2021, Vol. 21, Book 5.1, pp. 253-260, <https://doi.org/10.5593/sgem2021/5.1/s20.032>
13. Prodanov, B., Dimitrov, L., Lambev, T. 2021. Mapping of coastal and submarine morphological landforms using Unmanned Aerial Systems and Echo-sounding data, Case study: Bulgarian Black Sea coastal sector between cape Sivriburun and cape Kaliakra, In: 21st International Multidisciplinary Scientific GeoConference SGEM 2021, Vol. 21, Book 2.1, pp. 717-725, <https://doi.org/10.5593/sgem2021/2.1/s11.86>
14. Prodanov, B., Kotsev, I., Bekova, R., Dimitrov, L., Lambev, T., 2021.

- UAS photogrammetry as an effective tool for high-resolution mapping of depositional landforms and monitoring geomorphic change. Case Study: Kamchia-Shkorpilovtsi beach, Bulgarian Black Sea Coast, In: 21st International Multidisciplinary Scientific GeoConference SGEM 2021, Vol. 21, Book 2.1, pp. 623-634, <https://doi.org/10.5593/sgem2021/2.1/s10.75>
15. Bekova R., B. Prodanov, M. Panayotova, G. Raikova-Petrova. Population of the flathead grey mullet (*Mugil cephalus*, Linnaeus 1758) from the Bay of Burgas, Bulgarian Black Sea coast. In: *Ecologia Balkanica*, 12(3), Union of Scientists in Bulgaria – Plovdiv and the University of Plovdiv Publishing House, 2020, ISSN: 1313-9940, pp.169-176;
  16. Bekova R., G. Raikova-Petrova, M. Panayotova, B. Prodanov. Relationships between Size, Weight, Age and Fecundity of the *Chelon auratus* and *Chelon saliens* (Mugilidae) from the Bulgarian Black Sea coast. In: *Ecologia Balkanica*, 12(3), Union of Scientists in Bulgaria – Plovdiv and the University of Plovdiv Publishing House, 2020, ISSN: 1313-9940, pp.177-184;
  17. Kotsev, I., Prodanov, B. 2020. Linking pattern and process at a spatio-temporal scale: Present-day landscape structure and dynamics of the North Bulgarian Black Sea Coast. In: Proceedings of 20th International Multidisciplinary Scientific GeoConference SGEM 2020, 20, 2.2, pp. 405 – 412, <http://doi.org/10.5593/sgem2020/2.2/s11.048>.
  18. Kotsev, I., Prodanov, B., Lambev, T., Bekova, R. 2020. UAS-based mapping of depositional landforms along the North Bulgarian Black Sea coast in support of nature conservation. In: Proc. SPIE 11524, Eighth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2020), 1152426, <https://doi.org/10.1117/12.2571907>;
  19. Lambev, T., Prodanov, B., Dimitrov, L., Kotsev, I. 2020. Digital bathymetric model of the Broad Burgas Bay (Bulgarian Black Sea), In: Proc. SPIE 11524, Eighth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2020), 1152421, <https://doi.org/10.1117/12.2571101>;
  20. Lambev, T., Prodanov, B., Dimitrov, L., Kotsev, I. 2020. Digital terrain model of the Varna and Beloslav Lakes (North Bulgaria Black Sea Coast). In: Proc. SPIE 11524, Eighth International Conference on

- Remote Sensing and Geoinformation of the Environment (RSCy2020), 1152422, <https://doi.org/10.1117/12.2571104>;
21. Panayotova M., Bekova R., Stefanova K., Todorova V., Gumus M., Slabakova V., Prodanov B., Mihova S., 2020. Seasonal composition and density of marine litter on Asparuhovo beach, Varna, Bulgaria. In: *Ecologia Balkanica*, 12(3), Union of Scientists in Bulgaria – Plovdiv and the University of Plovdiv Publishing House, ISSN: 1313-9940, pp.85-94;
  22. Panayotova, M., R. Bekova, B. Prodanov. 2020. Assessment of marine cetacean populations in Bulgarian Black Sea in 2017 according to indicators of the EU Marine Strategy Framework Directive. In: *Ecologia Balkanica*, 12(3), Union of Scientists in Bulgaria – Plovdiv and the University of Plovdiv Publishing House, 2020, ISSN: 1313-9940, pp.73-83;
  23. Prahov, N., Prodanov, B., Dimitrov, K., Dimitrov, L., Velkovsky, K. 2020. Application of Aerial Photogrammetry in the Studies of Underwater Archaeological Heritage of Nesebar In: *Proc. of 20th International Multidisciplinary Scientific GeoConference SGEM 2020, 2.2, 2020*, ISBN:978-619-7603-07-1, ISSN:1314-2704, pp. 175-182; <http://doi.org/10.5593/sgem2020/2.2/s10.021>,
  24. Prodanov, B., Dimitrov, L. 2020. Morphology of the Strandzha Coastal zone, Southern Bulgarian Black Sea Coast. In: . *Proc. of 20th International Multidisciplinary Scientific GeoConference SGEM 2020, 20, 2.2, pp. 186-196*, <http://doi.org/10.5593/sgem2020/1.1/s01.024>
  25. Prodanov, B., Kotsev, I., Lambev, T., Bekova, R. 2020. Unmanned Aerial Vehicles for surveying the Bulgarian Black Sea Coast. In: *Comptes rendus de l'Academie Bulgarie des Sciences*, Vol.73, №5, pp. 666-672, <http://doi.org/10.7546/CRABS.2020.05.09>;
  26. Prodanov, B., Kotsev, I., Lambev, T., Dimitrov, L. 2020. 3D high-resolution mapping and identification of coastal landforms using Unmanned Aerial Vehicles, case study: Shabla Municipality coastal sector, Bulgaria. In: *Proc. SPIE 11524, Eighth International Conference on Remote Sensing and Geoinformation of the Environment (RSCy2020)*, 115242D, <https://doi.org/10.1117/12.2571059>;
  27. Bekova, R., Raikova-Petrova, G., Prodanov, B. 2019. Maturity, sex ratio and spawning time of *Liza Aurata* Risso, 1810 and *Liza Saliens*

- Risso, 1810 (Mugilidae) from the Bulgarian Black Sea Coast. In: Comptes rendus de l'Academie Bulgarie des Sciences, 72(7), pp.916-923, <http://doi.org/10.7546/CRABS.2019.07.09>;
28. Dimitrov, L., Prodanov, B., Doncheva, V., Berov, D., Trifonova, E., 2019. Seabed mapping of the Bulgarian coastal zone between Sozopol and Tsarevo (Southern Bulgarian Black Sea). In: Comptes rendus de l'Academie Bulgarie des Sciences, 72(5), pp.634-640, <http://doi.org/10.7546/CRABS.2019.05.11>;
  29. Lambev, T., Prodanov, B., 2019. Digital terrain model of the seafloor of South Bulgarian Black Sea Coast. In: 10th Congress of the Balkan Geophysical Society (BGS2019), European Association of Geoscientists & Engineers, Volume 1, pp.1-6, <https://doi.org/10.3997/2214-4609.201902665>;
  30. Prodanov, B., Keremedchiev, St., Dimitrov, L., Andreeva, N. 2019. Seabed Morphology of the Varna Bay coastal zone, Bulgarian Black Sea. In: Comptes rendus de l'Academie Bulgarie des Sciences, 72(8), pp.1078-1085, <https://doi.org/10.7546/CRABS.2019.08.10>;
  31. Prodanov, B., Kotsev, I., Lambev, T., Dimitrov, L., Bekova, R., Dechev, D. 2019. Drone-based geomorphological and landscape mapping of Bolata Cove, Bulgarian coast, In: Sustainable Development and Innovations in Marine Technologies, Georgiev & Guedes Soares (Eds.). Taylor & Francis Group, London, pp. 592-598, ISBN: 978-036740951-7 (link);
  32. Prodanov, B., Lambev, T., Bekova, R., Kotsev, I. 2019. Applying Unmanned Aerial Vehicles for high-resolution geomorphological mapping of the Ahtopol coastal sector (Bulgarian Black Sea coast). In: Proceedings of International Multidisciplinary Scientific GeoConference: SGEM, 19(2.2), pp. 465-472, <https://doi.org/10.5593/sgem2019/2.2/S10.057>
  33. Andreeva, N., Valchev, N., Prodanov, B., Eftimova, P., Kotsev, I., Dimitrov, L. 2017. Assessment of coastal receptors' exposure and their vulnerability to flood hazard along Varna regional coast. In: Proceedings of the 35th Int. Conf. on Coastal Engineering, Antalya, Turkey, DOI: <https://doi.org/10.9753/icce.v35.management.8>;
  34. Eftimova, P., Valchev, N., Andreeva, N., Prodanov, B., Dimitrov, L. 2017. Calculation of maximum wave run-up at Varna regional coast (Western Black Sea) using empirical models. In: Proceedings of the 35th Int. Conference on Coastal Engineering, Turkey, DOI:



<https://doi.org/10.9753/icce.v35.management.17>;

35. Kuznetsova, Ya. Shtremel, M., Kuznetsov, S., Karzinin, D., Trifonova, E., Andreeva, N., Valchev, N., Prodanov, B., Eftimova, P., Lambev, T., Dimitrov, L. 2017. Dynamics of sandy beach in dependence on wave parameters. In: Maritime Transportation and Harvesting of Sea Resources – Guedes Soares & Teixeira (Eds.) © 2018 Taylor & Francis Group, London, pp. 1075-1079, ISBN 978-0-8153-7993-5, (link);
36. Prodanov, B., Dimitrov, L., Andreeva, N., Keremedchiev, St. 2017. Geomorphological setting of the coastal zone between cape Galata and cape Paletsa, Bulgaria Black Sea. In: Comptes rendus de l'Academie Bulgare des Sciences, Volume 70, №8, pp.1137-1142, (link);
37. Boero, F., Foglini, F., Frascetti, S., Goriup, P., Macpherson, E., Planes, S., - Dimitrov, L., Ivanova, P., Todorova, V., Panayotova, M., Doncheva, V., Kotsev, I., Prodanov, B. & The CoCoNet Consortium. (2016). 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. SCIRES-IT, 6, 1-95. <https://doi.org/10.2423/i22394303v6Sp1>
38. Valchev, N., Andreeva, N., Eftimova, P., Prodanov, B., Kotsev, I., 2016. Assessment of vulnerability to storm induced flood hazard along diverse coastline settings. In E3S Web Conf. Volume 7, 3rd Eu. Conf. on Flood Risk Management (FLOODrisk 2016), p.11, (link);
39. Todorova, V., Dimitrov, L., Doncheva, V., Trifonova, E., Prodanov, B., 2015. Benthic Habitat Mapping in the Bulgarian Black Sea. In: Proceedings of 12th International Conference on the Mediterranean Coastal Environment (MEDCOAST 2015), V.1, Varna, pp. 251-262, (link);
40. Andreeva, N., Eftimova, P., Valchev, N., Prodanov, B., Lambev, T., Dimitrov, L. (2023). Identification of Coastal Flooding Hotspots in a Large Bay Using an Index-Based Risk Assessment Approach. In: Dobrinkova, N., Nikolov, O. (eds) Environmental Protection and Disaster Risks. EnviroRISKS 2022. Lecture Notes in Networks and Systems, vol 638. Springer, Cham. [https://doi.org/10.1007/978-3-031-26754-3\\_5](https://doi.org/10.1007/978-3-031-26754-3_5)
41. Bekova, R., Prodanov, B., Lambev, T. 2022. Influence of the anthropogenic pressure on Varna and Beloslav Lakes and their ichthyofauna. Proceedings of the 22nd International Multidisciplinary

- Scientific GeoCongrence SGEM 2022, 22(5.1),  
<https://doi.org/10.5593/sgem2022/5.1/s20.032>
42. Bekova, R., Prodanov, B., Panayotova, M. 2022. Research of the ichthyofauna in the protected area „Mandra-Poda“, „Chengene Skele Bay“ and „Otmanli“ under NATURA 2000 in Bulgaria. Proceedings of the 22nd International Multidisciplinary Scientific GeoCongrence SGEM 2022, 22 (5.1):355-362,  
<https://doi.org/10.5593/sgem2022/5.1/s20.045>
  43. Bekova, R., Prodanov, B. 2022. Food spectrum of three fish species from the Mugilidae family in brackish water along the Bulgarian Black Sea. Proceedings of the 22nd International Multidisciplinary Scientific GeoCongrence SGEM 2022, 22, 5.1:197-204,  
<https://doi.org/10.5593/sgem2022/5.1/s20.025>,
  44. Bekova, R., Prodanov, B. 2022. Multidisciplinary ichthyological and geological research of the Durankulak Lake, Northern Bulgarian Black Sea Coast. Proceedings of the 22nd International Multidisciplinary Scientific GeoCongrence SGEM 2022 (5.1):295-302,  
<https://doi.org/10.5593/sgem2022/5.1/s20.038>;
  45. Peev, P., Prodanov, B. 2022. The lost (or forgotten islands) of the Western Black Sea. Proceedings of the 22nd International Multidisciplinary Scientific GeoCongrence SGEM 2022, 2022, 1.1,  
<https://doi.org/10.5593/sgem2022/1.1/s01.005>
  46. Todorova V. R., Panayotova M. D., Bekova R. Iv., Prodanov B.K. 2022. The recovery of *Flexopecten glaber* (Linnaeus, 1758) in the Bulgarian Black Sea – recent distribution, population characteristics and future perspectives for protection and commercial utilization of a valuable species. *Acta Zoologica Bulgarica*, 74, 3, 2022, ISSN:0324-0770, 437-444, <https://www.acta-zoologica-bulgarica.eu/2022/002597>
  47. Kotsev, I., Prodanov, B., Bekova, R. 2021. Long-Term Impacts of Land Use Change Upon the Natural Flood Storage Reservoirs Along the North Bulgarian Black Sea Coast. In: Ferreira, C.S.S., Kalantari, Z., Hartmann, T., Pereira, P. (eds) *Nature-Based Solutions for Flood Mitigation. The Handbook of Environmental Chemistry*, Vol 107. Springer, Cham. [https://doi.org/10.1007/698\\_2021\\_765](https://doi.org/10.1007/698_2021_765)
  48. Panayotova, M., Bekova, R., Prodanov, B. 2021. Assessment of the exploited fish population`s status along the Bulgarian Black Sea coast according to indicators of the EU Marine Strategy Framework Directive. In *Proceedings of 21st International Multidisciplinary*

- Scientific GeoConference SGEM 2021, Vol.21, Book 3.1, pp. 675-683, <https://doi.org/10.5593/sgem2021/3.1/s15.84>;
49. Panayotova, M., Bekova, R., Prodanov, B. 2021. Density and distribution of marine litter on the seafloor in the Bulgarian Black Sea Area, In: Proceedings of 21st International Multidisciplinary Scientific GeoConference SGEM 2021, Vol.21, Book 3.1, pp. 701-708, <https://doi.org/10.5593/sgem2021/3.1/s15.87>
50. Prahov, N., Prodanov, B., Dimitrov, K., Velkovsky, K. 2021. The negative impact of human activities on underwater cultural heritage: Case studies from the Bulgarian Black Sea Littoral. In: Proceedings of 21st International Multidisciplinary Scientific GeoConference SGEM 2021, Vol.21, Book 2.1, pp. 743-751, <https://doi.org/10.5593/sgem2021/2.1/s11.89>
51. Prodanov, B., Bekova, R., Kotsev, I., Vachkova, V. 2021. Habitat Lost: Analysis of the eutrophication magnitude at a protected coastal lake in Bulgaria using satellite and drone imagery. In: Proceedings of 21st International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management – SGEM 2021, Vol. 21, Book 5.1, pp. 253-260, <https://doi.org/10.5593/sgem2021/5.1/s20.032>
52. Prodanov, B., Dimitrov, L., Lambev, T. 2021. Mapping of coastal and submarine morphological landforms using Unmanned Aerial Systems and Echo-sounding data, Case study: Bulgarian Black Sea coastal sector between cape Sivriburun and cape Kaliakra, In: 21st International Multidisciplinary Scientific GeoConference SGEM 2021, Vol. 21, Book 2.1, pp. 717-725, <https://doi.org/10.5593/sgem2021/2.1/s11.86>
53. Prodanov, B., Kotsev, I., Bekova, R., Dimitrov, L., Lambev, T., 2021. UAS photogrammetry as an effective tool for high-resolution mapping of depositional landforms and monitoring geomorphic change. Case Study: Kamchia-Shkorpilovtsi beach, Bulgarian Black Sea Coast, In: 21st International Multidisciplinary Scientific GeoConference SGEM 2021, Vol. 21, Book 2.1, pp. 623-634, <https://doi.org/10.5593/sgem2021/2.1/s10.75>
54. Bekova R., B. Prodanov, M. Panayotova, G. Raikova-Petrova. Population of the flathead grey mullet (*Mugil cephalus*, Linnaeus 1758) from the Bay of Burgas, Bulgarian Black Sea coast. In: *Ecologia Balkanica*, 12(3), Union of Scientists in Bulgaria – Plovdiv

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55. Bekova R., G. Raikova-Petrova, M. Panayotova, B. Prodanov. Relationships between Size, Weight, Age and Fecundity of the *Chelon auratus* and *Chelon saliens* (Mugilidae) from the Bulgarian Black Sea coast. In: *Ecologia Balkanica*, 12(3), Union of Scientists in Bulgaria – Plovdiv and the University of Plovdiv Publishing House, 2020, ISSN: 1313-9940, pp.177-184;
  56. Kotsev, I., Prodanov, B. 2020. Linking pattern and process at a spatio-temporal scale: Present-day landscape structure and dynamics of the North Bulgarian Black Sea Coast. In: *Proceedings of 20th International Multidisciplinary Scientific GeoConference SGEM 2020*, 20, 2.2, pp. 405 – 412, <http://doi.org/10.5593/sgem2020/2.2/s11.048>.
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- cape Paletsa, Bulgaria Black Sea. In: Comptes rendus de l'Academie Bulgarie des Sciences, Volume 70, №8, pp.1137-1142, (link);
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77. Valchev, N., Andreeva, N., Eftimova, P., Prodanov, B., Kotsev, I., 2016. Assessment of vulnerability to storm induced flood hazard along diverse coastline settings. In E3S Web Conf. Volume 7, 3rd Eu. Conf. on Flood Risk Management (FLOODrisk 2016), p.11, (link);
78. Todorova, V., Dimitrov, L., Doncheva, V., Trifonova, E., Prodanov, B., 2015. Benthic Habitat Mapping in the Bulgarian Black Sea. In: Proceedings of 12th International Conference on the Mediterranean Coastal Environment (MEDCOAST 2015), V.1, Varna, pp. 251-262, (link);

Management of **6** scientific projects.  
Participation in **29** scientific projects.

### **Academic projects with international funding**

#### **1. Dates (from-to): 2017 - present**

Project name: *Find Researchers Everywhere and Share*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *European Commission, Executive Agency for Small and Medium-sized Enterprises (EASME)*

#### **2. Dates (from-to): 2017 - present**

Project name: MARine Litter, Eutrophication and Noise assessment tools –MARLEN (<http://eugrant.io-bas.bg/marlen.html>)

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *BG02 "Integrated management of marine and inland waters" priority BG 02.03: "Improved monitoring of marine waters" co-financed by the Financial Mechanism of the European Economic Area (EEA FM) 2009-2014*

#### **3. Dates (from-to): 2017**

Project name: *"EMODnet - Lot1 Geology" - European marine Observation and Data Network (contract: EASME/EMFF/2016/1.3.1.2 – Lot 1/SI2.750862 Lot 1 -Geology), <http://www.emodnet-geology.eu>*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *European Commission, Executive Agency for*

*Small and Medium-sized Enterprises (EASME)*

**4. Dates (from-to): 2017 - present**

Project name: *"EMODnet-High Resolution Seabed Mapping" - European Marine Observation and Data Network, EASME/EMFF/2018/007, 2018/S 108-245177 <http://www.emodnet-hydrography.eu/>*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *European Commission, Executive Agency for Small and Medium-sized Enterprises (EASME)*

**5. Dates (from-to): 2015-2016**

Project name: *ISMEIMP - "Investigations on the State of the Marine Environment and Improving Monitoring Programs developed under MSFD" <http://eeagrants.org/project-portal/project/BG02-0005>*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *EEA and Norway Grants 2009-2014*

**6. Dates (from-to): 2014 – 2016**

Project name: *"EMODnet-Geology" - European Marine Observation and Data Network (<http://www.emodnet-geology.eu/>)*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *European Commission, Executive Agency for Small and Medium-sized Enterprises (EASME)*

**7. Dates (from-to): 2014 - 2016**

Project name: *"EMODnet-Bathymetry portal" - European Marine Observation and Data Network (<http://www.emodnet-hydrography.eu>)*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *European Commission, Executive Agency for Small and Medium-sized Enterprises (EASME)*

**8. Dates (from-to): 2013 - 2016**

Project name: *"Resilience-Increasing Strategies in Coasts – toolKIT (RISC-KIT)", financed by FP7 of EU, FP7-ENV-2013-two-stage, Project ID: 603458, Funded under FP7-ENVIRONMENT, Call ID: FP7-ENV-2013, GA No 603458, 2013-2016*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *Seventh Framework Program of the European Commission*

**9. Dates (from-to): 2012 - 2016**

Project name: *Towards Coast-to-Coast NETWORK of marine protected areas coupled with sea-based energy potential (CoCoNET), funded through Seventh Framework Program of the European Commission, Grant agreement no: 287844*



Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *Seventh Framework Program of the European Commission*

**10. Dates (from-to): 2011-2012**

Project name: *SPUX - Spatial methane flux quantification from a pockmark area in the Black Sea.*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *Seventh Framework Program of the European Commission*

**11. Dates (from-to): 2010-2014**

Project name: *Pan-European infrastructure for management of marine and ocean.*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *Seventh Framework Program of the European Commission*

**Nationally funded projects**

**12. Dates (from-to): 2018**

Project name: *Bilateral agreement between MOEW and IO-BAS for execution of monitoring of coastal water – 2018 №409/03.07.2018*

Work position: *Sample collection*

Employer: *Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria*

Financing organization: *Ministry of Environment and Water of Bulgaria*

**13. Dates (from-to): 2017**

Project name: *Bilateral agreement between MOEW and IO-BAS for execution of monitoring of coastal water - 2017*

Work position: *Sample collection*

Employer: *Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria*

Financing organization: *Ministry of Environment and Water of Bulgaria*

**14. Dates (from-to): 2016**

Project name: *Bilateral agreement between MOEW and IO-BAS for execution of monitoring of coastal water - 2016, No. D-33-5 / 05.01.2016*

Work position: *Sample collection*

Employer: *Institute of Oceanology – Bulgarian Academy of Sciences, Varna, Bulgaria*

Financing organization: *Ministry of Environment and Water of Bulgaria*

**15. Dates (from-to): 2015**

Project name: *Bilateral agreement between MOEW and IO-BAS for execution of monitoring of coastal water - 2015*

Work position: *Sample collection*

Financing organization: *Ministry of Environment and Water of Bulgaria*

**16. Dates (from-to): 2014**

Project name: *Bilateral agreement between MOEW and IO-BAS for execution of monitoring of coastal water - 2014"*

Work position: *Sample collection*

Financing organization: *Ministry of Environment and Water of Bulgaria*

**17. Dates (from-to): 2013 – 2014**

Project name: *Monitoring and assessment of the ecological state of the marine environment within the Bulgarian sector of the Black Sea ", funded under Contract № 0-33-18 / June 12, 2013 between IO-BAS and the Bulgarian Ministry of Environment and Water*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *Ministry of Environment and Water of Bulgaria*

**18. Dates (from-to): 2012 - 2013**

Project name: *Initial state assessment, definition of criteria for good environmental status and targets for the marine environment*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *Ministry of Environment and Water of Bulgaria*

**Foreign-funded projects**

**19. Dates (from-to): 2015 - present**

Project name: *"Black Sea M.A.P - Maritime Archaeology Project" - Complex geophysical and geological surveys in support of Underwater Archaeology in the Bulgarian Black Sea Sector*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Employer: *University of Southampton u Centre for Underwater Archaeology - Ministry of Culture, Sozopol, Bulgaria*

**20. Dates (from-to): 2014**

Project name: *Marine geophysical and cultural heritage surveys for a gas pipeline "South Stream" in the Black sea "*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Employer: *Centre for Underwater Archaeology - Ministry of Culture, Sozopol, Bulgaria*

**21. Dates (from-to): 2014 - 2015**

Project name: *Cross-Border Cooperation for Revitalization of Archaeological Heritage (CrossCoopArch-2)*

Work position: *Diving surveys*

Employer: *Centre for Underwater Archaeology - Ministry of Culture, Sozopol, Bulgaria*

**22. Dates (from-to): 2012 - 2013**

Project name: *CROSS-BORDER COOPERATION FOR CAPACITY DEVELOPMENT IN THE FIELD OF ARCHAEOLOGICAL HERITAGE (CrossCoopArch).*

Work position: *Diving surveys*

Employer: *Centre for Underwater Archaeology - Ministry of Culture, Sozopol, Bulgaria*

**Contracts with business****23. Dates (from-to): 2016**

Project name: *Monitoring study to determine the actual water volume of Kardzhali Dam by means of hydro acoustic measurement with Multibeam Echo Sounders*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Employer: *Institute of Fisheries and Aquaculture*

**24. Dates (from-to): 2015**

Project name: *Technical passports of Varna Port`s waterways, Chanel-1 and Channel-2*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Employer: *Hydromap Ltd. (Private organization)*

**25. Dates (from-to): 2014**

Project name: *Marine geophysical and cultural heritage surveys for gas pipeline "South Stream" in the Black sea*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Employer: *Centre for Underwater Archaeology - Ministry of Culture, Sozopol, Bulgaria*

**26. Dates (from-to): 2013**

Project name: *Hydrographic, geophysical and geotechnical works within a complex geological and geophysical survey for a gas pipeline "South Stream" in the Black sea*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Employer: *Private organization*

**Projects funded by the Ministry of Education and Science (Republic of**

## **Bulgaria) and Bulgarian Academy of Sciences**

### **27. Dates (from-to): 2019 – present date**

Project name: „Morphological mapping of areas along the southern Bulgarian Black Sea coast using unmanned aerial systems“, *Agreement № IIMC 203/19.09.18.*

Work position: *Scientific Project Manager*

Financing organization: *Ministry of Education and Science, Bulgaria*

### **28. Dates (from-to): 2019 – present date**

Project name: „Application of remotely piloted aircraft systems for geomorphological mapping of the Bulgarian Black Sea coast“, *Agreement № IIMC 203/19.09.18.*

Work position: *Scientific Project Manager*

Financing organization: *Ministry of Education and Science, Bulgaria*

### **29. Dates (from-to): 2019 – present date**

Project name: „Mapping and monitoring of depositional areas along the North Bulgarian Black Sea coast using Unmanned Aerial Vehicles“ *Agreement № KII-06-KOCT-12/06.08.2019*

Work position: *Scientific Project Manager*

Financing organization: *National Science Fund, Ministry of Education and Science, Bulgaria*

### **30. Dates (from-to): 2019 – present date**

Project name: *Multidisciplinary study of Burgas Bay – MidBay. (Composition of a detailed digital model of the bottom relief with analysis of modern geomorphological conditions and archaeological forecasting modelling), Project № KII-06 III34/2*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *National Science Fund, Ministry of Education and Science, Bulgaria*

### **31. Dates (from-to): 2019 – present date**

Project name: „Spatial analysis of the present-day morphological and landscape pattern of the Bulgarian Black Sea coastal zone between Cape Sivriburun and Cape Emine“ *Agreement № KII-06-MY-24-1/28.12.2018*

Work position: *Scientific Project Manager*

Financing organization: *National Science Fund, Ministry of Education and Science, Bulgaria*

### **32. Dates (from-to): 2019 – present date**

Project name: *Protect the environment and reduce the risk of adverse events and natural disasters. Cooperation between IO-BAS, Sofia University, NIGGG-BAS and IBER-BAS funded by the Ministry of Education and Science*

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *National Science Fund, Ministry of*

*Education and Science, Bulgaria*

**33. Dates (from-to): 2017 – present date**

Project name: "The influence of environmental condition of Varna and Burgas bays on population-biological parameters of Mullet Species (*Mugil cephalus*, *Liza aurata* and *Liza saliens*)" Agreement № 2/15.12.2017

Work position: *GIS/marine remote sensing research specialist and cartographer*

Financing organization: *National Science Fund, Ministry of Education and Science, Bulgaria*

**34. Dates (from-to): 2017 – present date**

Project name: „Seabed mapping of the southern Bulgarian Black Sea coastal zone for habitat classification" funded by Bulgarian Academy of Sciences in the frame of "Program to support young scientists at BAS", Project № 17-103/28.07.2017

Work position: *Scientific Project Manager*

Financing organization: *Bulgarian Academy of science*

**35. Dates (from-to): 2016 – present date**

Project name: „Creation of integrated GIS geo-database of seabed data in front of Avren coast" funded by Bulgarian Academy of Sciences in the frame of "Program to support young scientists at BAS", Project № 36/20.04.2016.

Work position: *Scientific Project Manager*

Financing organization: *Bulgarian Academy of science*

**International Scientific Events– 24**

24.09.2013 - Second European SCGIS conference "Conservation of Natural and Cultural Heritage for Sustainable Development: GIS-based Approach ", September 24th, 2013, Sofia, Bulgaria

**Oral presentation:**

1. Prodanov, B., I. Kotsev, St. Keremedchiev, V. Todorova, L. Dimitrov. (2013) *Initial assessment of the technogenic pressure in the mediolittoral zone of the Bulgarian Black Sea coast* (<http://www.proc.scgis.scgisbg.eu/index2013.html>)

17-20.09.2013 - International Conference "MARINE RESEARCH HORIZON 2020" September 17-20 2013, Golden Sands, Varna, Bulgaria

**Oral presentation :**

2. Todorova, V., Panayotova, M., Dimitrov, L., Prodanov, B., Kotsev, I. (2013) *Initial assessment of the physical pressure from commercial fisheries on the seafloor in the Bulgarian Black Sea* ()

25-27.09.2014 - 12th Int. Conference on Marine Science and Technology "Black Sea" 2014, Varna

**Oral presentation :**

3. Valchev, N., Andreeva, N., Prodanov, B. (2014) *Study on wave exposure of Bulgarian Black Sea coast.*

4. Prodanov, B., Kotsev, I., Dimitrov, L. (2014) *Seascape-based Modeling of Benthic Habitats Spatial Distribution. Case Study: Avren Plateau Sublittoral Zone, Bulgarian Black Sea.*
5. Kotsev, I., Prodanov, B., Dimitrov, L. (2014) *Marine Landscape Studies – what is the State of the Science? Emergence, Definition of Core Ideas and Scientific Development from the Late XIX Century until the Late XX Century.*
6. Hineva, E., Prodanov, B. (2014) *Ecological Status of Macrophytobenthos Community along the Bulgarian Black Sea Coast.*
7. Mihaleva, V., Dzhurova, B., Prodanov, B. (2014) *Varna-Beloslav Lake System as a Habitat for the Common Ragworm HEDISTE DIVERSICOLOR (O. F. MUELLER,1776) (ANNELIDA: POLYCHAETA).*

05-07.10.2015 - 12th International Conference on the Mediterranean Coastal Environment (MEDCOAST 2015), Varna, Bulgaria (<https://www.medcoast.net/>)

**Oral presentation :**

8. Todorova, V., Dimitrov, L., Doncheva, V., Trifonova, E., Prodanov, B. (2015) *Benthic Habitat Mapping in the Bulgarian Black Sea.*

20.10.2015 - International Scientific Conference`2015 of UMG-Sofia, Sofia, Bulgaria

**Oral presentation:**

9. Prodanov, B., Dimitrov, L. (2015) *Morpho-lithological characterization of the Shelf in front of Avren coast, Bulgarian Black Sea*
10. Prodanov, B., Dimitrov, L. (2015) *Application of Multi-Beam Echo-Sounding in seabed geological mapping. Case study: Pasha dere Coastal zone, Northern Bulgarian Black Sea*

17-21.10.2016 - 3rd European Conference on Flood Risk Management (FLOODrisk 2016), Lyon, France (<http://floodrisk2016.net/>)

**Oral presentation :**

11. Valchev, N., Andreeva, N., Eftimova, P., Prodanov, B., Kotsev, I. (2016) *Assessment of vulnerability to storm induced flood hazard along diverse coastline settings.*

28.10.2016 – International Scientific Conference`2016 of UMG- Sofia, Bulgaria

**Oral presentation :**

12. Prodanov, B., Dimitrov, L. (2016) *Integrated geo-database of seabed data in front of Avren coast, Bulgarian*

17-20.11.2016 – 35th International Conference on Coastal Engineering, Antalya, Turkey

**Oral presentation :**

- 13. Andreeva, N., N. Valchev, B. Prodanov, P. Eftimova, I. Kotsev, L. Dimitrov. (2016) Assessment of coastal receptors' vulnerability to flood hazard along Varna regional coast.*

23-26.04.2017 - European Geosciences Union (EGU), General Assembly, Vienna, Austria

**Poster:**

- 14. Andreeva, N., P. Eftimova, N. Valchev, B. Prodanov (2017) Coastal flooding impact evaluation using an INtegrated DisRUption Assessment (INDRA) model for Varna region, Western Black Sea (poster).*

- 15. Valchev, N., P. Eftimova, N. Andreeva, B. Prodanov (2017) Using Bayesian Network as a tool for coastal storm flood impact prediction at Varna Bay (Bulgaria, Western Black Sea) (poster).*

18-22.10.2017 г. - V International Scientific and Technical Conference. "Geology and Hydrocarbon Potential of the Balkan-Black Sea Region", 18-22 September 2017, Varna, Bulgaria

**Oral presentation:**

- 16. Prodanov, B., Lambev, T., Dimitrov, L., Borisova, E. 2017. Geomorphic and lithologic characteristics of the Bulgarian Black Sea central shelf. Proceedings of the V International Scientific and Technical Conference. "Geology and Hydrocarbon Potential of the Balkan-Black Sea Region;*

- 17. Lambev, T., Dimitrov, L., Prodanov, B., Borisova, E. 2017. Using of remote sensing methods for mapping of the Bulgarian Black Sea coast. Proceedings of the V International Scientific and Technical Conference. "Geology and Hydrocarbon Potential of the Balkan-Black Sea Region"*

18.10.2018 – 61<sup>st</sup> International Scientific Conference 2018 "University of Mining and Geology "St. Ivan Rilski", 19 October 2018, Sofia, Bulgaria

**Oral presentation:**

- 18. Prodanov, B., Dimitrov, L., Doncheva, V., Lambev, T., 2018. Integrated Geodatabase for the Coastal Zone between Sozopol and Tsarevo (South Bulgarian Black Sea Coast)*

10.10.2018 – 12.10.2018 – 14<sup>th</sup> International Conference on Marine Sciences and Technologies, October 2018, Varna, Bulgaria

**Oral presentation:**

- 19. Bekova, R., Prodanov, B., Panayotova, M. Lambev, T. 2018. The influence of environmental condition of Varna and Burgas bays on population-biological parameters of Mullet's species (Mugil cephalus, Chelon auratus and Chelon saliens).*

- 20. Eftimova, P., Valchev, N., Andreeva, N., Prodanov, B., Dimitrov, L.*

2018. Coastal flooding hazard assessment at vulnerable locations along Varna regional coast.

21. Andreeva, N., Eftimova, P., Valchev, N., Prodanov, B. 2018. Assessment of flood-driven direct impacts on coastal receptors along Varna municipality seaside.
22. Bekova, R. Rajkova-Petrova, G., Panayotov, M., Prodanov, B. 2018. Age-size structure and growth rate of the Golden grey bob mullet and Leaping mullet (*Chelon auratus* and *Chelon saliens*) in Bulgarian Black Sea coast.
23. Bekova, B., Raikova-Petrova, Panayotova, M., Prodanov, B. 2018. Age and growth of Flathead grey mullet (*Mugil cephalus*, Linnaeus 1758) in Bulgarian Black Sea coast.

18.11.2018 – International Scientific Conference “Kliment’s Days”2018, Sofia University "St. Kliment Ohridski", 18-19 November 2018, Sofia, Bulgaria

**Poster:**

24. Bekova, R., Prodanov, B., Lambev, T. 2018. Mullet fish and influence of the ecological status of Burgas Bay on their population (poster)