Nikolay Nezlin

397 W Summerfield Cir., Anaheim, CA 92802

nikolay.nezlin@gmail.com, Ph: (310) 770 1302

PERSONAL WEBSITE: https://nikolaynezlin.wixsite.com/website-8

AREA OF EXPERTISE

My interests and areas of expertise are data management, visualization and statistical analysis of oceanographic and Earth science datasets. I actively collaborate with researchers across multiple disciplines including ocean physics, chemistry and biology, as well as persons and organizations analyzing satellite and airborne imagery. My recent work is focused on:

* analysis of accuracy and stability of oceanographic sensors
* detecting the impact of stormwater and effluent plumes on coastal ocean
* creating interactive tools for data visualization and statistical analysis
* processing and analysis of aerial imagery over coastal water and land areas
* currently pursuing my GIS certification

EDUCATION

Ph.D. in Biological Oceanography (1983)

*P.P. Shirshov Institute of Oceanology, Moscow, Russia*

Specialization: Marine phytoplankton, Computer methods of data analysis

Dissertation title: *Structural and functional characteristics of coastal phytoplankton in the Black Sea*

Advisors: *O. J. Koblentz-Mishke* and *V. P. Keondjan*

M.S. in Oceanography (1981)

*P.P. Shirshov Institute of Oceanology, Moscow, Russia*

Specialization: Marine biology, Oceanography

Advisor: *O. J. Koblentz-Mishke*

B.S. in Zoology (1977)

*Moscow State University, Moscow, Russia*

Specialization: Zoology of invertebrates

Dissertation title: *Diurnal vertical migrations of zooplankton in the Sea of Japan*

Advisor: *K. V. Beklemishev*

PROFESSIONAL EXPERIENCE

**Physical Oceanographer, RBR Ltd., Ottawa, ON, Canada (2019-current)**

RBR Ltd is a company producing instruments measuring ocean water properties. The focus of my work is the analysis of accuracy and stability of these instruments.

**Oceanographer and Data Scientist, Southern California Coastal Water Research Project (SCCWRP), Costa Mesa, CA (2002 – 2018)**

SCCWRP is a joint powers agency that bridges science, policy and implementation. I participated in multiple projects, especially studying the impact of stormwater and wastewater discharge on nearshore ecosystem, estimating river flow from precipitation, accuracy of pH measurements, interannual trends of chlorophyll biomass and vertical structure and processing aerial imagery over coastal land and ocean.

**Consultant, Kuwait Institute of Scientific Research, Kuwait City, Kuwait (2012)**

Collaborated with local colleagues in using new computational approaches for the analysis of oceanographic data.

**Visiting Professor/Researcher/Lecturer, Institute of the Environment, University of California, Los Angeles, CA (2000-2009)**

I was analyzing different kinds of satellite data studying the effect of 1997–1998 El Niño along the California coast and lecturing the course ENV184 “*The Basics of Satellite Oceanography*” for undergraduate students.

**Visiting Scientist, Memorial University of Newfoundland. St. John's, NL, Canada (1999)**

I was studying seasonal dynamics of the patterns of surface chlorophyll and physical environment in the Newfoundland region based on ocean color and infrared imagery and satellite altimetry.

**Junior Researcher/Researcher/Senior Researcher, P.P. Shirshov Institute of Oceanology of the Russian Academy of Sciences. Moscow, Russia (1980-2002)**

I was analyzing physical, chemical and biological data collected in different regions of the World Ocean, participated in 15 marine expeditions of 2-4 month each, where I worked on computer analysis and visualization of collected data.

**Technician/Junior Researcher/Engineer, Institute of Higher Nervous Activity of Russian Academy of Sciences. Moscow, Russia (1978-1979)**

I worked in computer center writing computer codes for statistical analysis of the results of experiments.

**Technician, Moscow State University, Biological Department. Moscow, Russia (1978)**

I was studying algae of glaciers in the Caucasus Mountains.

**Technician, Institute of Higher Nervous Activity of Russian Academy of Sciences. Moscow, Russia (1977-1978)**

Assisting in computer analysis of experimental results.

RESEARCH PUBLICATIONS

1. **Nezlin,** **N.P.,** M. Dever, M. Halverson, J.-M. Leconte, G. Maze, C. Richards, I. Shkvorets, R. Zhang, G. Johnson. In press. Accuracy and long-term stability assessment of inductive conductivity cell measurements on Argo floats. *Journal of Atmospheric and Oceanic Technology,* DOI: 10.1175/JTECH-D-19-0106.1
2. Bednaršek, N., R.A. Feely, M.W. Beck, S.R. Alin, S.A. Siedlecki, P. Calosi, E.L. Norton, C. Saenger, J. Štrus, D. Greeley, **N.P. Nezlin**, M. Roethler, J.I. Spicer. 2020. Exoskeleton dissolution with mechanoreceptor damage in larval Dungeness crab related to severity of present-day ocean acidification vertical gradients. *Science of the Total Environment* 716:136610, DOI: 10.1016/j.scitotenv.2020.136610
3. **Nezlin,** **N.P.,** C. Beegan, A. Feit, J.R. Gully, A. Latker, K. McLaughlin, M.J. Mengel, G.L. Robertson, A. Steele, S.B. Weisberg. 2020. Colored Dissolved Organic Matter (CDOM) as a tracer of effluent plumes in the coastal ocean. *Regional Studies in Marine Science* 35:101163, DOI: 10.1016/j.rsma.2020.101163
4. Bednaršek, N., R.A. Feely, E.L. Howes, B.P.V. Hunt, F. Kessouri, P. León, S. Lischka8, A.E. Maas, K. McLaughlin, **N.P. Nezlin**, M. Sutula, S.B. Weisberg. 2019. Systematic review and meta-analysis toward synthesis of thresholds of ocean acidification impacts on calcifying pteropods and interactions with warming. *Frontiers in Marine Science* 6:227, DOI: 10.3389/fmars.2019.00227
5. McLaughlin, K., **N.P. Nezlin,** S.B. Weisberg, A.G. Dickson, J.A. Booth, C.L. Cash, A. Feit, J.R. Gully, M.D.A. Howard, S. Johnson, A. Latker, M.J. Mengel, G.L. Robertson, A. Steele, L. Terriquez. 2018. Seasonal patterns in aragonite saturation state on the southern California continental shelf. *Continental Shelf Research* 167: 77-86. DOI: 10.1016/j.csr.2018.07.009
6. **Nezlin,** **N.P.,** K. McLaughlin, J.A. Booth, C.L. Cash, D.W. Diehl, K.A. Davis, A. Feit, R. Goericke, J.R. Gully, M.D.A. Howard, S. Johnson, A. Latker, M.J. Mengel, G.L. Robertson, A. Steele, L. Terriquez, L. Washburn, S.B. Weisberg. 2018. Spatial and temporal patterns of chlorophyll concentration in the Southern California Bight. *Journal of Geophysical Research: Oceans* 123(1): 231-245. DOI: 10.1002/2017JC013324
7. McLaughlin, K., **N.P. Nezlin,** S.B. Weisberg, A.G. Dickson, J.A. Booth, C.L. Cash, A. Feit, J.R. Gully, S. Johnson, A. Latker, M.J. Mengel, G.L. Robertson, A. Steele, L. Terriquez. 2017. An evaluation of potentiometric pH sensors in coastal monitoring applications. *Limnology and Oceanography: Methods* 15(8): 679–751. DOI: 10.1002/lom3.10191
8. McLaughlin, K., **N.P. Nezlin,** M.D.A. Howard, C.D.A. Beck, R.M. Kudela, M.J. Mengel, G.L. Robertson. 2017. Rapid nitrification of wastewater ammonium near coastal ocean outfalls, Southern California, USA. *Estuarine,* *Coastal and Shelf Science* 186(Part B):263-275. DOI:10.1016/j.ecss.2016.05.013
9. **Nezlin, N.P.,** J.A.T. Booth, C. Beegan, C.L. Cash, J.R. Gully, A. Latker, M.J. Mengel, G.L. Robertson, A. Steele, S.B. Weisberg. 2016. Assessment of wastewater impact on dissolved oxygen around southern California’s submerged ocean outfalls. *Regional Studies in Marine Science* 7: 177–184. DOI:10.1016/j.rsma.2016.03.016
10. Panteleev, G., V. Luchin, **N.P. Nezlin,** T. Kikuchi. 2013. Seasonal climatologies of oxygen and phosphates in the Bering Sea reconstructed by variational data assimilation approach. *Polar Science* 7(3-4): 214-232. DOI:10.1016/j.polar.2013.10.001
11. **Nezlin, N.P.,** M.A. Sutula, R.P. Stumpf, A. Sengupta. 2012. Phytoplankton blooms detected by SeaWiFS along the central and southern California coast. *Journal of Geophysical Research-Oceans* 117(C7):C07004. DOI:10.1029/2011JC007773
12. Piontkovski, S.A., **N.P. Nezlin,** A. Al-Azri, K. Al-Hashmi. 2012. Mesoscale eddies and variability of chlorophyll-a in the Sea of Oman. *International Journal of Remote Sensing* 33(17):5341-5346. DOI:10.1080/01431161.2012.661096
13. Svejkovsky, J., **N.P. Nezlin,** N.M. Mustain, J.B. Kum. 2010. Tracking storm water discharge plumes and water quality of the Tijuana River with multispectral aerial imagery. *Estuarine, Coastal and Shelf Science* 87(3):387-398. DOI:10.1016/j.ecss.2010.01.022
14. **Nezlin, N.P.,** I.G. Polikarpov, F. Al-Yamani, D.V. Subba Rao, A.M. Ignatov. 2010. Satellite monitoring of climatic factors regulating phytoplankton variability in the Arabian (Persian) Gulf. *Journal of Marine Systems* 82(1-2):47-60. DOI:10.1016/j.jmarsys.2010.03.003
15. Reifel, K.M., S.C. Johnson, P.M. DiGiacomo, M.J. Mengel, **N.P. Nezlin,** J.A. Warrick, B.H. Jones. 2009. Impacts of stormwater runoff in the Southern California Bight: Relationships among plume constituents. *Continental Shelf Research* 29(15):1821-1835. DOI:10.1016/j.csr.2009.06.011
16. **Nezlin, N.P.,** K. Kamer, J. Hyde, E.D. Stein. 2009. Dissolved oxygen dynamics in an eutrophic estuary, Upper Newport Bay, California. *Estuarine, Coastal and Shelf Science* 82(1):139-151. DOI:10.1016/j.ecss.2009.01.004
17. **Nezlin, N.P.,** P.M. DiGiacomo, D.W. Diehl, B.H. Jones, S.C. Johnson, M.J. Mengel, K.M. Reifel, J.A. Warrick, M. Wang. 2008. Stormwater plume detection by MODIS imagery in the southern California coastal ocean. *Estuarine, Coastal and Shelf Science* 80(1):141-152. DOI:10.1016/j.ecss.2008.07.012
18. **Nezlin, N.P.,** K. Kamer, E.D. Stein. 2007. Application of color infrared aerial photography to assess macroalgal distribution in an eutrophic estuary, Upper Newport Bay, California. *Estuaries and Coasts* 30(5): 855-868. DOI:10.1007/BF02841339
19. Warrick, J.A., P.M. DiGiacomo, S.B. Weisberg, **N.P. Nezlin,** M. Mengel, B.H. Jones, J.C. Ohlmann, L. Washburn, E.J. Terrill, K.L. Farnsworth. 2007. River plume patterns and dynamics within the Southern California Bight. *Continental Shelf Research* 27(19):2427-2448. DOI:10.1016/j.csr.2007.06.015
20. Morozov, A.Y., S.V. Petrovskii, **N.P. Nezlin.** 2007. Towards resolving the paradox of enrichment: The impact of zooplankton vertical migrations on plankton systems stability. *Journal of Theoretical Biology* 248(3):501-511. DOI:10.1016/j.jtbi.2007.05.028
21. **Nezlin, N.P.,** S.B. Weisberg, D.W. Diehl. 2007. Relative availability of satellite imagery and ship sampling for assessment of stormwater runoff plumes in coastal southern California. *Estuarine, Coastal and Shelf Science* 71(1-2):250-258. DOI:10.1016/j.ecss.2006.07.016
22. Zeidberg, L.D., W.M. Hamner, **N.P. Nezlin,** A. Henry. 2006. The fishery for California market squid (*Loligo opalescens*) (Cephalopoda: Myopsida), from 1981 through 2003. *Fishery Bulletin* 104(1):46-59.
23. Caldeira, R.M.A., P. Marchesiello, **N.P. Nezlin,** P.M. DiGiacomo, J.C. McWilliams. 2005. Island wakes in the Southern California Bight. *Journal of Geophysical Research-Oceans* 110(C11):C11012. DOI:10.1029/2004JC002675
24. **Nezlin,** N.P., P.M. DiGiacomo, E.D. Stein, D. Ackerman. 2005. Stormwater runoff plumes observed by SeaWiFS radiometer in the Southern California Bight. *Remote Sensing of Environment* 98(4):494-510. DOI:10.1016/j.rse.2005.08.008
25. **Nezlin, N.P.,** P.M. DiGiacomo. 2005. Satellite ocean color observations of stormwater runoff plumes along the San Pedro Shelf (southern California) during 1997 to 2003. *Continental Shelf Research* 25(14):1692-1711. DOI:10.1016/j.csr.2005.05.001
26. Ahn, J.H., S.B. Grant, C.Q. Surbeck, P.M. DiGiacomo, **N.P. Nezlin,** S. Jiang. 2005. Coastal water quality impact of stormwater runoff from an urban watershed in southern California. *Environmental Science & Technology* 39(16):5940-5953. DOI:10.1021/es0501464
27. **Nezlin,** N.P., E.D. Stein. 2005. Spatial and temporal patterns of remote-sensed and field-measured rainfall in southern California. *Remote Sensing of Environment* 96(2):228-245. DOI:10.1016/j.rse.2005.02.005
28. Morozov, A.Y., **N.P. Nezlin,** S.V. Petrovskii. 2005. Invasion of a top predator into epipelagic ecosystem can bring a paradoxical top-down trophic control. *Biological Invasions* 7(5):845-861. DOI:10.1007/s10530-005-5213-y
29. **Nezlin, N.P.,** A.G. Kostianoy, B.L. Li. 2005. Inter-annual variability and interaction of remote-sensed vegetation index and atmospheric precipitation in the Aral Sea region. *Journal of Arid Environments* 62(4):677-700. DOI:10.1016/j.jaridenv.2005.01.015
30. **Nezlin,** N.P., J.J. Oram, P.M. DiGiacomo, N. Gruber. 2004. Subseasonal to interannual variations of sea surface temperature, salinity, oxygen anomaly, and transmissivity in Santa Monica Bay, California from 1987 to 1997. *Continental Shelf Research* 24(10):1053-1082. DOI:10.1016/j.csr.2004.03.012
31. **Nezlin, N.P.,** G. Lacroix, A.G. Kostianoy, S. Djenidi. 2004. Remotely sensed seasonal dynamics of phytoplankton in the Ligurian Sea in 1997-1999. *Journal of Geophysical Research-Oceans* 109(C07):C07013. DOI:10.1029/2000JC000628
32. **Nezlin, N.P.,** A.G. Kostianoy, S.A. Lebedev. 2004. Interannual variations of the discharge of Amu Darya and Syr Darya estimated from global atmospheric precipitation. *Journal of Marine Systems* 47(1-4):67-75. DOI:10.1016/j.jmarsys.2003.12.009
33. Gregoire, M., K. Soetaert, **N.P. Nezlin,** A. Kostianoy. 2004. Modeling the nitrogen cycling and plankton productivity in the Black Sea using a three-dimensional interdisciplinary model. *Journal of Geophysical Research-Oceans* 109(C05):C05007. DOI:10.1029/2001JC001014
34. **Nezlin, N.P.,** B.L. Li. 2003. Time-series analysis of remote-sensed chlorophyll and environmental factors in the Santa Monica-San Pedro Basin off Southern California. *Journal of Marine Systems* 39(3–4):185-202. DOI:10.1016/S0924-7963(03)00030-7
35. **Nezlin, N.P.,** J.C. McWilliams. 2003. Satellite data, empirical orthogonal functions, and the 1997-1998 El Niño off California. *Remote Sensing of Environment* 84(2):234-254. DOI:10.1016/S0034-4257(02)00109-8
36. Ginzburg, A.I., A.G. Kostianoy, **N.P. Nezlin,** D.M. Soloviev, S.V. Stanichny. 2002. Anticyclonic eddies in the northwestern Black Sea. *Journal of Marine Systems* 32(1–3):91-106. DOI:10.1016/S0924-7963(02)00035-0
37. Ginzburg, A.I., A.G. Kostianoy, V.G. Krivosheya, **N.P. Nezlin,** D.M. Soloviev, S.V. Stanichny, V.G. Yakubenko. 2002. Mesoscale eddies and related processes in the northeastern Black Sea. *Journal of Marine Systems* 32(1–3):71-90. DOI:10.1016/S0924-7963(02)00030-1
38. **Nezlin, N.P.,** Y.D. Afanasyev, A.I. Ginzburg, A.G. Kostianoy. 2002. Remotely sensed studies of phytoplankton dynamics under physical forcing in different ocean regions. *Advances in Space Research* 29(1):99-106. DOI:10.1016/S0273-1177(01)00222-8
39. Caldeira, R.M.A., S. Groom, P. Miller, D. Pilgrim, **N.P. Nezlin.** 2002. Sea-surface signatures of the island mass effect phenomena around Madeira Island, Northeast Atlantic. *Remote Sensing of Environment* 80(2):336-360. DOI:10.1016/S0034-4257(01)00316-9
40. Afanasyev, Y.D., **N.P. Nezlin,** A.G. Kostianoy. 2001. Patterns of seasonal dynamics of remotely sensed chlorophyll in the Newfoundland Region. *Remote Sensing of Environment* 76(2):268-282. DOI:10.1016/S0034-4257(00)00209-1
41. **Nezlin, N.P.** 2001. Unusual phytoplankton bloom in the Black Sea during 1998-1999: Analysis of remotely sensed data. *Oceanology, English Translation* 41(3):375-380.
42. Ginzburg, A.I., A.G. Kostianoy, V.G. Krivosheya, **N.P. Nezlin,** D.M. Soloviev, S.V. Stanichny, V.G. Yakubenko. 2000. Peculiarities of the water dynamics and chlorophyll a distribution in the northeastern part of the Black Sea in autumn 1997. *Oceanology, English Translation* 40:316-328.
43. **Nezlin, N.P.,** A.G. Kostianoy, M. Gregoire. 1999. Patterns of seasonal and interannual changes of surface chlorophyll concentration in the Black Sea revealed from the remote sensed data. *Remote Sensing of Environment* 69(1):43-55. DOI:10.1016/S0034-4257(99)00007-3
44. Shushkina, E.A., M.E. Vinogradov, V.Y. Dyakonov, **N.P. Nezlin.** 1999. Structural peculiarities of epipelagic communities in the North Atlantic in the waters of different productivity measured by remote sensing. *Oceanology, English Translation* 39:701-708.
45. Vinogradov, M.E., E.A. Shushkina, **N.P. Nezlin,** V.I. Vedernikov, V.I. Gagarin. 1999. Correlation between different parameters of the ecosystem of the epipelagic zone of the World Ocean. *Oceanology, English Translation* 39:64-74.
46. Vinogradov, M.E., E.A. Shushkina, **N.P. Nezlin,** G.N. Arnautov. 1998. Vertical distribution of zooplankton in the frontal zone of Gulf Stream and Labrador Current. *Journal of Plankton Research* 20(1):85-103. DOI:10.1093/plankt/20.1.85
47. **Nezlin, N.P.,** V.Y. Dyakonov. 1998. Analysis of interannual variations of the surface chlorophyll concentration in the Black Sea from the data of an CZCS radiometer. *Oceanology, English Translation* 38:636-641.
48. Vinogradov, M.E., E.A. Shushkina, V.I. Vedernikov, **N.P. Nezlin,** V.I. Gagarin. 1997. Primary production and plankton stocks in the Pacific Ocean and their seasonal variation according to remote sensing and field observations. *Deep-Sea Research II* 44(9-10):1979-2001. DOI:10.1016/S0967-0645(97)00086-6
49. **Nezlin, N.P.,** E.I. Musaeva, V.Y. Dyakonov. 1997. Estimation of plankton stocks in the western part of Bering Sea and the Sea of Okhotsk. *Oceanology, English Translation* 37: 370-375.
50. Oguz, T., H. Ducklow, P. Malanotte-Rizzoli, S. Tugrul, **N.P. Nezlin,** U. Unluata. 1996. Simulation of annual plankton productivity cycle in the Black Sea by a one-dimensional physical-biological model. *Journal of Geophysical Research* 101(C7):16585-16599. DOI:10.1029/96JC00831
51. Vinogradov, M.E., E.A. Shushkina, A.L Vereshchaka, **N.P. Nezlin.** 1996. On migrations of *Calanus finmarchicus* s.l. in the Norwegian Sea during the polar day. *Oceanology, English Translation* 36:59-63.
52. Musaeva, E.I., **N.P. Nezlin.** 1995. Comparison of various zooplankton sampling tools based on catches in the Bering Sea. *Oceanology, English Translation* 35:857-861.
53. Shushkina, E.A., M.E. Vinogradov, S.V. Sheberstov, **N.P. Nezlin,** V.I. Gagarin. 1995. Characteristics of epipelagic ecosystems of the Pacific Ocean on the basis of the satellite and field observations. The plankton stock in the epipelagial. *Oceanology, English Translation* 35:643-649.
54. Vinogradov, M.E., E.A. Shushkina, A.L Vereshchaka, **N.P. Nezlin.** 1995. Population of the Sea of Norway in the region of catastrophe of the nuclear submarine "Komsomolets". *Biology Bulletin* 22:512-522.
55. Vinogradov, M.E., E.A. Shushkina, V.I. Vedernikov, V.I. Gagarin, **N.P. Nezlin,** S.V. Sheberstov. 1995. Characteristics of the pacific epipelagic ecosystems based on the satellite and expedition data: Abiotic parameters, and production indices of phytoplankton. *Oceanology, English Translation* 35:208-217.
56. Nesis, K.N., **N.P. Nezlin.** 1993. Intraspecies groupings in gonatid squids. *Russian Journal of Aquatic Ecology* 2(2):91-103.
57. **Nezlin, N.P.,** Y.V. Yakushev. 1988. Analysis of the distribution of hydrochemical characteristics in the Benguela Upwelling Region by the principal component method. *Oceanology, English Translation* 28:316.
58. **Nezlin, N.P.,** K.N. Nesis. 1988. Biomass distribution of pelagic fish, cephalopods, decapods and euphausiids in the Southeastern Atlantic off Namibia. *Oceanology, English Translation* 28:235-239.
59. Rudyakov, Y.A., N.V. Kucheruk, **N.P. Nezlin,** A.M. Neuronov. 1987. Distribution of seston along the coast of Southwest Africa (Namibia section). *Oceanology, English Translation* 27:626-631.
60. Ivanova, E.V., **N.P. Nezlin.** 1986. Identification of an association of planktonic foraminifera in present-day ocean sediments by means of factor analysis. *Oceanology, English Translation* 26:67-70.
61. Semina, G.I., **N.P. Nezlin.** 1985. Ecological groups of phytoplankton in the Bering Sea. *Oceanology, English Translation* 25:637-641.
62. **Nezlin, N.P.** 1982. Seasonal species groupings of phytoplankton in the Black Sea littoral zone. *Oceanology, English Translation* 22:458-461.

BOOK CHAPTERS

1. **Nezlin, N.P.** 2008. Seasonal and interannual variability of remotely sensed chlorophyll. pp. 333-349 *in:* A.G. Kostianoy and A.N. Kosarev (eds.), *The Black Sea Environment (The Handbook of Environmental Chemistry).* Springer Verlag. Berlin, Germany. ISBN 978-3-540-74292-0
2. **Nezlin, N.P.** 2005. Patterns of seasonal and interannual variability of remotely sensed chlorophyll. pp. 143-157 *in:* A.G. Kostianoy and A.N. Kosarev (eds.), *The Caspian Sea Environment (The Handbook of Environmental Chemistry),* Volume 5, Part P. Springer Verlag. Berlin, Germany. ISBN: 978-3-540-28281-5 (Print) 978-3-540-31505-6 (Online)
3. **Nezlin, N.P.** 2000. Remote-sensing studies of seasonal variations of surface chlorophyll-a concentration in the Black Sea. pp. 257-271 *in:* D. Halpern (ed.), *Satellites, Oceanography, and Society.* Elsevier Science. Amsterdam, The Netherlands. DOI:10.1016/S0422-9894(00)80015-X
4. Vinogradov, M.E., E.A. Shushkina, A.S. Mikaelyan, **N.P. Nezlin.** 1999. Temporal (seasonal and interannual) changes of ecosystem of the open waters of the Black Sea. pp. 109-129 *in:* S. Besiktepe, U. Unluata, and A.S. Bologa (eds.), *Environmental Degradation of the Black Sea: Challenges and Remedies.* NATO ASI Series. Kluwer Academic Publishers. Dordrecht, The Netherlands. ISBN: 978-0-7923-5676-9 (Print) 978-94-011-4568-8 (Online)
5. Sukhanova, I.N., O.V. Maksimova, **N.P. Nezlin.** 1999. Abundance and biomass of phytoplankton and chlorophyll concentration in eastern Mediterranean in late summer period. pp. 169-179 *in:* P. Malanotte-Rizzoli and V. N. Eremeev (eds.), *The Eastern Mediterranean as a Laboratory Basin for the Assessment of Contrasting Ecosystems.* NATO ASI Series. Kluwer Academic Publishers. Dordrecht, The Netherlands. ISBN: 978-0-7923-5586-1 (Print) 978-94-011-4796-5 (Online)
6. **Nezlin, N.P.,** V.Y. Dyakonov. 1998. Seasonal and interannual variations of surface chlorophyll concentration in the Black Sea on CZCS data. pp. 137-150 *in:* L.I. Ivanov and T. Oguz (eds.), *Ecosystem Modeling as a Management Tool for the Black Sea.* Volume 1, NATO ASI Series. Kluwer Academic Publishers. Dordrecht, The Netherlands. ISBN 978-0-7923-5245-7
7. Vinogradov, M.E., E.A. Shushkina, L.P. Lebedeva, **N.P. Nezlin.** 1998. Structural and functional analysis of planktonic communities of the Black Sea. pp. 237-255 *in:* L.I. Ivanov and T. Oguz (eds.), *Ecosystem Modeling as a Management Tool for the Black Sea.* Volume 1, NATO ASI Series. Kluwer Academic Publishers. Dordrecht, The Netherlands. ISBN 978-0-7923-5245-7
8. Shushkina, E.A., M.E. Vinogradov, L.P. Lebedeva, T. Oguz, **N.P. Nezlin,** V.Y. Dyakonov, L.L. Anokhina. 1998. Studies of structural parameters of planktonic communities of the open part of the Black Sea relevant to ecosystem modeling. pp. 311-325 *in:* L.I. Ivanov and T. Oguz (eds.), *Ecosystem Modeling as a Management Tool for the Black Sea.* Volume 1, NATO ASI Series. Kluwer Academic Publishers. Dordrecht, The Netherlands. ISBN 978-0-7923-5245-7
9. Vinogradov, M.E., **N.P. Nezlin,** A.S. Mikaelyan. 1998. Ecosystems sustainability of open Black Sea regions. pp. 201-220 *in:* V. Kotlyakov, M. Uppenbrink, and V. Metreveli (eds.), *Conservation of the Biological Diversity as a Prerequisite for Sustainable Development in the Black Sea Region.* NATO ASI Series. Kluwer Academic Publishers. Dordrecht, The Netherlands. ISBN: 978-94-010-6149-0 (Print) 978-94-011-5114-6 (Online)
10. **Nezlin, N.P.** 1997. Seasonal variation of surface pigment distribution in the Black Sea on CZCS data. pp. 131-138 *in:* E. Ozsoy and A. Mikaelyan (eds.), *Sensitivity to Changes: Black Sea, Baltic Sea, and North Sea.* NATO ASI Series. Kluwer Academic Publishers. Dordrecht, The Netherlands. ISBN: 978-94-010-6429-3 (Print) 978-94-011-5758-2 (Online)

TECHNICAL REPORTS

1. McLaughlin, K., **N.P.** **Nezlin,** S.B. Weisberg, A.G. Dickson, J.A.T. Booth, C.L. Cash, A. Feit, J.R. Gully, M.D.A. Howard, S. Johnson, A. Latker, M.J. Mengel, G.L. Robertson, A. Steele, L. Terriquez. 2018. Seasonal patterns in aragonite saturation state on the southern California continental shelf. *Southern California Coastal Water Research Project Technical Report 1050.* Costa Mesa, CA.
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CONFERENCE PROCEEDINGS

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3. **Nezlin,** **N.P.** 2016. Water quality monitoring around submerged wastewater outfalls in southern California: From compliance assessment to impact of climate change. *2016 Ocean Sciences Meeting.* New Orleans, LA, USA
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HONORS AND AWARDS:

1. Award of the journal “*Estuarine, Coastal and Shelf Science*” as a Top Cited Author (2008–2012)
2. Award of the International Publishing House "*Nauka*" (Russia) for best publication (1997)

JOURNAL REVIEWING

1. Continental Shelf Research
2. Ecological Complexity
3. Environmental Science & Technology
4. Estuaries and Coasts
5. Estuarine, Coastal and Shelf Science
6. IEEE Geoscience and Remote Sensing Letters
7. International Journal of Oceans and Oceanography
8. International Journal of Remote Sensing
9. Journal of Applied Remote Sensing
10. Journal of Coastal Research
11. Journal of Geophysical Research-Oceans
12. Journal of Great Lakes Research
13. Journal of Marine Systems
14. Journal of Oceanography
15. Journal of Plankton Research
16. Journal of Sea Research
17. Limnology and Oceanography: Methods
18. Marine Ecology Progress Series
19. Marine Environmental Research
20. Marine Pollution Bulletin
21. Mathematical Modelling of Natural Phenomena
22. Remote Sensing
23. Remote Sensing of Environment
24. Science of the Total Environment
25. Sensors

AD HOC REVIEWER OF FUNDING AGENCIES

1. National Aeronautics and Space Administration (NASA)
2. Space Research Organization Netherlands (SRON)
3. The Netherlands Foundation for the Advancement of Tropical Research (WOTRO)

SOFTWARE SKILLS

* R (including R-studio, statistical packages, visualization and web tools, spatial and time series analysis packages)
* MATLAB
* Pix4D (drone mapping and photogrammetry software)
* Fortran, Pascal, C++, Visual Basic, SQL

STUDENT MENTORING AND TEACHING

1. Lecturing the course ENV184 “The basics of satellite oceanography” at the Institute of the Environment, University of California Los Angeles (UCLA), 2001-2009
2. Invited lecturer for the course AS130: “California’s ocean” at the Atmospheric and Oceanic Sciences, University of California Los Angeles (UCLA), 2004-2009