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UNDERGRADUATE STUDIES

University of Athens, Greece, B.Sc. in Physics, 1985

POSTGRADUATE STUDIES

University of the Aegean, Greece, Ph.D. in Dynamics of Marine Eutrophication, 1994

PROFESSIONAL SOCIETIES/INTERNATIONAL ORGANISATIONS

- American Society of Limnology and Oceanography, USA
- International Society for Ecological Modeling
- Coastal Ecology Committee of the International Committee for the Scientific Exploration of the Mediterranean Sea (CIESM), MONACO
- Hellenic Phycological Society

INTERNATIONAL DISTINCTIONS

- Evaluator of research project proposals at national and European level
- Reviewer in international scientific journals

RESEARCH INTERESTS

Dynamics of Coastal Marine Ecosystems; Coastal Ecology; Water Quality Assessment; Integrated Coastal Zone Management; Environmental Education

RESEARCH COLLABORATIONS

University of Athens, GREECE; University of Thessaly, GREECE; University of Patras, GREECE; Montpellier University 2, FRANCE; University of Galsgow, UK; University of Murcia, SPAIN; IFREMER, FRANCE; IPIMAR, PORTUGAL; JRC Environmental Institute, EU; University Fernando Pessoa, PORTUGAL; University of Siena, ITALY

FUNDING OF RESEARCH GRANTS

European Union; Local and Regional Authorities

PUBLICATIONS

Peer-reviewed Journals

33. Tamvakis, A., S. Spatharis, V. Trygonis, J. Myrirtzis and G. Tsirtsis, 2013. Optimizing biodiversity prediction from abiotic parameters. Environmental Modelling and Software (under review after revision)

32. Spatharis, S. and G. Tsirtsis, 2013. Zipf-Mandelbrot model behavior in marine eutrophication: Two way fitting on field and simulated phytoplankton assemblages. *Hydrobiologia*, 714(1), 191-199.
31. Kolovoyiannis, V. and G. Tsirtsis, 2013. Downscaling the marine modelling effort: Development, application and assessment of a 3D ecosystem model implemented in a small coastal area. *Estuarine Coastal and Shelf Science*, 126, 44-60.
30. Spyropoulou, A., S. Spatharis, G. Papantoniou and G. Tsirtsis, 2013. Potential response of a semi-arid ecosystem to climate change. *Hydrobiologia*, 705, 87-99.
29. Tamvakis, A., J. Miritzis, G. Tsirtsis, A. Spyropoulou and S. Spatharis, 2012. Effects of meteorological forcing on coastal eutrophication: Modelling with model trees. *Estuarine Coastal and Shelf Science*, 115, 210-217.
28. Tsirtsis, G. and S. Spatharis, 2011. Simulating the structure of natural phytoplankton assemblages: Descriptive vs. mechanistic approaches. *Ecological Modelling*, 222, 1922-1928.
27. Spatharis, S., S. Orfanidis, P. Panayotidis and G. Tsirtsis, 2011. Assembly processes in upper subtidal macroalgae: The effect of wave exposure. *Estuarine Coastal and Shelf Science*, 91(2), 298-305.
26. Spatharis, S. and G. Tsirtsis, 2010. Ecological quality scales based on phytoplankton for the implementation of Water Framework Directive in Eastern Mediterranean. *Ecological Indicators*, 10(4), 840-847.
25. Primpas, I., G. Tsirtsis, M. Karydis, G.D. Kokkoris, 2010. Principal Component Analysis: Development of a multivariate index for assessing eutrophication. *Ecological Indicators*, 10(2), 178-183.
24. Efstratiou, M.A. and G. Tsirtsis, 2009. Do New European Union Bathing Water Standards Exclude the Risk of Contact with Salmonella or *Candida albicans*? *Marine Pollution Bulletin*, 58(7), 1039-1044.
23. Spatharis, S., N. P. Dolapsakis, A. Economou-Amilli, G. Tsirtsis, D. B. Danielidis, 2009. Dynamics of potentially harmful microalgae in a confined Mediterranean gulf-Assessing the risk of bloom formation. *Harmful Algae*, 8, 736-743.
22. Spatharis S., D. Mouillot, G. Tsirtsis, T. Do Chi, D. Danielidis 2009. A niche-based modeling approach to phytoplankton community assembly rules. *Oecologia* 159(1), 171-180.
21. Tsirtsis G., S. Spatharis, A. Sampatakaki, A. Spyropoulou 2008. Thresholds of terrestrial nutrient loading for the development of eutrophication episodes in a coastal embayment in the Aegean Sea. *Transitional Water Bulletin*, 3, 25-37.
20. Primpas, I., M. Karydis, G. Tsirtsis 2008. Assessment of clustering algorithms in discriminating eutrophic levels in coastal waters. *Global NEST Journal*, Vol. 10, No 3, 359-365.
19. Spatharis, S., D. Mouillot, D. Danielidis, M. Karydis, T. Do Chi and G. Tsirtsis, 2008. Influence of terrestrial runoff on phytoplankton species richness-biomass relationships: a double stress hypothesis. *Journal of Marine Biology and Ecology* 362, 55-62.

18. Tsirtsis, G., S. Spatharis and M. Karydis, 2008. Application of the lognormal equation to assess phytoplanktonic community structural changes induced by marine eutrophication. *Hydrobiologia* 605, 89-98.
17. Spatharis, S., D. Danielidis and G. Tsirtsis, 2007. Recurrent *Pseudonitzschia calliantha* (Bacillariophyceae) and *A. insuetum* (Dinophyceae) winter blooms induced by agricultural run-off. *Harmful Algae*, 6, 811-822.
16. Spatharis, S., G. Tsirtsis, D. Danielidis, T. Do Chi and D. Mouillot, 2007. Effects of pulsed nutrient inputs on phytoplankton assemblage structure and blooms in an enclosed coastal area. *Estuarine Coastal and Shelf Science*, 73, 807-815.
15. Kontogianni, A., Z. Kavakli, E. Avagianou and G. Tsirtsis, 2007. Implementation of integrated scenario analysis and modelling for the sustainable development of a coastal area in Eastern Mediterranean. *Transitional Waters Monographs*, 1, 93-105.
14. Aloupi, M., M.O. Angelidis, A. Gabriel, M. Karantanelli, M. Koulousaris, A. Nikolaou, A. Petsas, G. Tsirtsis, M. Vagi, and F. Vlatsiotou, 2007. Marine monitoring along the eastern coastal area of the Island of Lesbos, Greece during 2004 in the framework of MEDPOL III. *Global NEST Journal*, Vol. 9, No 2, 83-97.
13. Zaldivar, J.M., C. Solidoro, G. Tsirtsis and D. Mouillot, 2006. Special Issue on Southern European coastal lagoons-Preface. *Ecological Modelling* 193, 1-3.
12. Arhonditsis, G., Karydis, M. and Tsirtsis, G., 2003. Analysis of phytoplankton community structure using similarity indices: A new methodology for discriminating among eutrophication levels in coastal marine ecosystems, *Environmental Management* 31(5), 619-632.
11. Arhonditsis, G., Eleftheriadou, M., Karydis, M. and Tsirtsis, G., 2003. Eutrophication risk assessment in coastal embayments using simple statistical models, *Marine Pollution Bulletin*, 46(9), 1174-1178.
10. Kefalas, E., Tsirtsis, G. and Castritsi-Catharios, J., 2003. Distribution and ecology of Demospongiae from the circalittoral of the islands of the Aegean Sea (Eastern Mediterranean, *Hydrobiologia*, 499(1-3), 125-134.
9. Arhonditsis, G., Tsirtsis, G. and Karydis, M., 2002. The effects of episodic rainfall events to the dynamics of coastal marine ecosystems: Applications to a semi-enclosed gulf in the Mediterranean Sea, *Journal of Marine Systems*, 35, 183-205.
8. Arhonditsis, G., Karydis, M. and Tsirtsis, G., 2002. Integration of mathematical modeling and multicriteria methods in assessing environmental change in developing areas: A case-study of a coastal system, *Journal of Coastal Research*, 18(4), 698-711.
7. Kitsiou, D., Tsirtsis, G. and Karydis, M., 2001. Developing an optimal sampling design: a case-study in a coastal marine ecosystem, *Environmental Monitoring and Assessment*, 71, 1-12.
6. Stefanou, P., Tsirtsis, G. and Karydis, M., 2000. Nutrient scaling for assessing eutrophication: the development of a simulated normal distribution, *Ecological Applications*, 10(1), 303-309.
5. Arhonditsis, G., Tsirtsis, G., Angelidis, M. and Karydis, M., 2000. Quantification of the effects of nonpoint nutrient sources to coastal marine eutrophication: applications to a semi-enclosed gulf in the Mediterranean Sea, *Ecological Modelling*, 129, 209-227.

4. Tsirtsis, G. and Karydis, M., 1998. Evaluation of phytoplankton community indices for detecting eutrophic trends in the marine environment, *Environmental Monitoring and Assessment*, 50, 255-269.
3. Tsirtsis, G. and Karydis, M., 1997. Aquatic microcosms: A methodological approach for the quantification of eutrophication processes, *Environmental Monitoring and Assessment*, 48, 193-215.
2. Karydis, M. and Tsirtsis, G., 1996. Ecological indices: a biometric approach for assessing eutrophication levels in the marine environment, *Science of the Total Environment*, 186, 209-219.
1. Tsirtsis, G., 1995. A Simulation Model for the Description of a Eutrophic System with Emphasis on the Microbial Processes, *Water Science and Technology*, Vol. 32, 9-10, 189-196.

Chapters in books

1. Kontoyiannis, H., I. Krestenitis, G. Petihakis and G. Tsirtsis, 2005. Coastal areas: Circulation and hydrological features. In Papatthanassiou, E. and A. Zenetos (eds), *State of the Hellenic Marine Environment. HCMR Publ.*, 95-103.

Conference Publications

67. Spyropoulou, A., E. Kostopoulou and G. Tsirtsis, 2013. The role of Teleconnection Patterns on climate variability in the Aegean Sea, Eastern Mediterranean. 40th CIESM Congress, Marseille, France.
66. Tzoura, M., A. Klonari and G. Tsirtsis, 2013. Utilization of new technologies (GIS and GPS) in Elementary education: A case-study. 8th Panhellenic Conference of Teaching Physics and New Technologies in Education, 26-28 April 2013, Volos, Greece.
65. Tsirtsis, G. and E. Kostopoulou, 2012. A quantitative modeling framework for the integrated management of insular areas. 2nd RETI/ENIT Conference, 'Islands and Sustainability: Identities, Development, Management and Planning', 19-21 October, Lesvos, Greece.
64. Tzoura, M., A. Klonari and G. Tsirtsis, 2012. Can we effectively use new technologies in combination with field studies for Environmental education in Elementary schools? 6th Panhellenic Conference of Panhellenic Union of Teachers of Environmental education, 30 November-2 December, Thessaloniki, Greece.
63. Tsoukala, A., M. Tzoura, G. Kofopoulos and G. Tsirtsis, 2012. Factors influencing the CO₂ emission of the residents of Lesvos island, Greece: an analysis based on questionnaires. 6th Panhellenic Conference of Ecology, 4-7 October, Athens.
62. Tzoura, M., A. Klonari and G. Tsirtsis, 2012. Utilization of new technologies for the environmental education in Elementary school: evaluation of the efficiency of the multithematic approach. 6th Panhellenic Conference of Ecology, 4-7 October, Athens.
61. Tsakalakis, I., G.. Tsirtsis, G. Petihakis and S. Spatharis, 2012. Study of the autoecology of the potentially harmful diatom *Pseudonitzschia delicatissima* in a batch culture: Use of a simulation model. 6th Panhellenic Conference of Ecology, 4-7 October, Athens.

60. Spatharis, S., G. Tsirtsis and D.L. Roelke, 2012. How species supersaturation is achieved in phytoplankton assemblages? 6th Panhellenic Conference of Ecology, 4-7 October, Athens.
59. Tamvaki, A., S. Spatharis, I. Miritzis and G. Tsirtsis, 2012. Is it possible to predict biodiversity from abiotic data? 6th Panhellenic Conference of Ecology, 4-7 October, Athens.
58. Tsoukala, A., M. Tzoura, G. Kofopoulos and G. Tsirtsis, 2011. A GI Application for Sensitizing Elementary School Students in Carbon Emission Issues. Learning with Geoinformation 2011, July 4-8, Salzburg, Austria.
57. Tsirtsis, G., I. Tsakalakis and S. Spatharis, 2010. Study of the growth kinetics of *P. delicatissima* on nitrate and phosphate in a batch culture using a simulation model. 14th International Conference on Harmful Algae, 1-5 November, Hersonissos, Crete, Greece.
56. Tsirtsis, G. and S. Spatharis, 2010. Assembly mechanisms of phytoplankton assemblages in the Aegean sea: Considerations from the application of the Zipf-Mandelbrot and niche-apportionment models. 5th Panhellenic Conference of Ecology, Patra, Greece.
55. Spyropoulou, A. and G. Tsirtsis, 2010. Effects of the recent climate changes to the water budget of a semi-enclosed gulf in Eastern Mediterranean. 39th CIESM Congress, Venice, Italy.
54. Spatharis, S. and G. Tsirtsis, 2008. Development of model phytoplankton communities and assessment of their applicability in coastal eutrophication studies. ASLO Summer Meeting 8-13 June, Newfoundland & Labrador, Canada.
53. Spyropoulou, A. and G. Tsirtsis, 2008. Effects of the climate change on the water budget of a small watershed in Eastern Aegean: Modelling the runoff and erosion processes. AQUA-2008 Conference, October 2008, Athens.
52. Tsirtsis G., S. Spatharis, A. Sampatakaki and A. Spyropoulou, 2007. Thresholds of terrestrial nutrient loading for the development of eutrophication episodes in a coastal embayment in the Aegean. 3rd European Conference on Lagoon Research: Conservation and Management in Coastal Ecosystems, 19-23 November 2007, Naples, Italy, p. 110
51. Spatharis S., D. Mouillot, D. B. Danielides, T. Do Chi and G. Tsirtsis, 2007. Effects of terrestrial runoff on the phytoplankton diversity of shallow coastal ecosystems. 3rd European Conference on Lagoon Research: Conservation and Management in Coastal Ecosystems, 19-23 November 2007, Naples, Italy, p. 104
50. Paspatis, M., P. Katikou, S. Spatharis, A. Spyropoulou and G. Tsirtsis, 2007. Phycotoxic and microbiological restrictions on shellfish collection in Kalloni gulf, Lesvos, Greece. 13th Panhellenic Conference of Ichthyologists, 27-30 September, Mytilini, Greece.
49. Tsirtsis, G., E. Avagianou, Z. Kavakli and A. Kontogianni, 2007. Development and testing of a decision support prototype for integrated coastal zone management in the Mediterranean. 1st Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE), Ιούλιος 2007, Σκιάθος.
48. Kostopoulou, M., G. Tsirtsis, O. Zoboli and K. Gioousoglou, 2007. Spatial and temporal trends of ecological variables along intermittent rivers influenced by

anthropogenic processes in the surrounding watershed. 1st Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE), Ιούλιος 2007, Σκιάθος.

47. Spatharis, S., D. Mouillot, G. Tsirtsis, D. Daniilides and T. Do Chi, 2007. Dynamics of phytoplankton community structure in an enclosed coastal system influenced by terrestrial runoff. CIESM-38th Congress, Istanbul, Turkey, 9-13 April 2007.

46. Spatharis, S., D. Daniilides, N. Dolapsakis and G. Tsirtsis, 2007. Dynamics of a HAB developed after an episodic rainfall event in a coastal area. CIESM-38th Congress, Istanbul, Turkey, 9-13 April 2007.

45. Kavakli, Z., G. Tsirtsis, N. Korovessis and M. Karydis, 2006. A comparative analysis of the ecological systems of two Greek seasonal solar saltworks (Mesolonghi and Kalloni): Implication for salt production. Proceedings of the 1st International Conference on the Ecological Importance of Solar Saltworks, Santorini island, Greece, 20-22 October 2006.

44. Tsirtsis, G., 2006. Development of an information technology tool for the management of European Southern lagoons under the influence of river-basin runoff (The DITTY project). International Workshop on Transitional states in transitional coastal waters, Kavala, Greece, 1-2 June 2006.

43. Kitsiou, D., Th. Nitis, A. Tsaknakis and G. Tsirtsis, 2006. A Web-GIS application for the management of semi-enclosed coastal areas: A case-study in the gulf of Gera. International Workshop on the challenges for the Mediterranean coastal lagoons: Issues and tools for their sustainable management. Valmagne, France, 22-23 February 2006.

42. Avagiannou, E. and G. Tsirtsis, 2006. Development and application of the Loop analysis model for the evaluation of scenarios for the coastal area of the gulf of Gera, island of Lesbos, Greece. 8th Panhellenic Symposium of Oceanography and Fisheries, 4-8 June 2006, Thessaloniki, Greece, NCMR.

41. Kavakli, Z., P. Papapetrou, S. Spatharis and G. Tsirtsis, 2006. A water and nutrient LOICZ budget analysis for the gulf of Gera, island of Lesbos, Greece. 8th Panhellenic Symposium of Oceanography and Fisheries, 4-8 June 2006, Thessaloniki, Greece, NCMR.

40. Kolovoyiannis, V. and G. Tsirtsis, 2006. Exploration of the 3-d hydrodynamic circulation of a coastal ecosystem: Application of POM model in the gulf of Gera, island of Lesbos, Greece. 8th Panhellenic Symposium of Oceanography and Fisheries, 4-8 June 2006, Thessaloniki, Greece, NCMR.

39. Polatidou, M., H. Polatidis and G. Tsirtsis, 2006. Development of a Decision Support System for the management of coastal areas under the influence of the surrounding basins: A case-study in the gulf of Gera, island of Lesbos, Greece. 8th Panhellenic Symposium of Oceanography and Fisheries, 4-8 June 2006, Thessaloniki, Greece, NCMR.

38. Spatharis, S. and G. Tsirtsis, 2006. Review of statistical and biological models for detecting changes in phytoplankton community structure. 8th Panhellenic Symposium of Oceanography and Fisheries, 4-8 June 2006, Thessaloniki, Greece, NCMR.

37. Spatharis, S., G. Tsirtsis and D. Danielidis, 2006. Variability of phytoplankton community alpha diversity in the coastal waters of the Aegean. 8th Panhellenic Symposium of Oceanography and Fisheries, 4-8 June 2006, Thessaloniki, Greece, NCMR.
36. Kitsiou, D., Th. Nitis, A. Tsaknakis, M.A. Esteve, M. Falcao, G. Giordani, L. Loubersac and G. Tsirtsis, 2006. Development of a WebGIS application for supporting the management of Southern European coastal lagoons. Proceedings of CoastGIS '06-GIS for the coastal zone: Spatial data, modeling and management, Sydney, 12-16 July 2006.
35. Kolovoyiannis, V. and G. Tsirtsis, 2005. Implementation of a high resolution, 3 dimensional hydrodynamic model to a shallow, semi-enclosed water body, gulf of Gera, Lesvos. Proceedings of the 9th International Conference on Environmental Science and Technology, Rhodes, Greece, A791-797.
34. Kavakli, Z., P. Papapetrou, S. Spatharis and G. Tsirtsis, 2005. Application of LOICZ budget analysis to a semi-enclosed coastal ecosystem in the Aegean. Proceedings of the 9th International Conference on Environmental Science and Technology, Rhodes, Greece, A751-756.
33. Spatharis, S. and G. Tsirtsis, 2005. Description of phytoplankton community structure in the Aegean Sea: A comparative analysis of the logseries and lognormal statistical models. Proceedings of the 9th International Conference on Environmental Science and Technology, Rhodes, Greece, A1377-1382.
32. Papasavvas, S., J. Kanavakis, S. Spatharis, A. Bodini and G. Tsirtsis, 2005. Application of the network analysis methodology for the study of the ecological properties of a shallow marine ecosystem in the Aegean. Proceedings of the 13th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Thessaloniki, Greece, 8-12 October 2005.
31. Spatharis, S., N. Kattavenos and G. Tsirtsis, 2005. Application of species accumulation curves for the estimation of phytoplankton species richness: Differences among sites and trophic states in Eastern Mediterranean. EURECO '05, X European Ecological Congress, November 8-13 2005, Izmir, Turkey, 88.
30. Kavakli, Z., S. Spatharis, P. Papapetrou and G. Tsirtsis, 2005. An integrated coastal zone management approach based on scenario development and LOICZ budget analysis: Application to a coastal system in the Aegean, Eastern Mediterranean. Coasts and coastal people. Scenarios of change and response, LOICZ II Inaugural Open Science Meeting. Egmond aan Zee, Netherlands, 27-29 June 2005.
29. Spatharis, S. and G. Tsirtsis, 2005. Phytoplanktonic species abundance patterns in the Aegean/Eastern Mediterranean: Application and comparative analysis of various statistical and biological models. International ASLO Summer Meeting, Santiago de Compostela, Spain, 19-24 June 2005.
28. Spatharis, S., D. Danielidis and G. Tsirtsis, 2004. Behaviour of the taxonomic indices of diversity along a eutrophication gradient using phytoplankton data. Proceedings of the Conference of the Union of Greek Ecologists and the Greek Zoological Society, 216-220, 18-21 November 2004, Mytilini, Greece.
27. Tsirtsis, G., S. Spatharis and M. Karydis, 2004. Application of the lognormal equation for the analysis of the structure of phytoplankton communities in the Aegean

sea. Proceedings of the Conference of the Union of Greek Ecologists and the Greek Zoological Society, 259-264, 18-21 November 2004, Mytilini, Greece.

26. Kolovoyiannis, V., G. Arhonditsis and G. Tsirtsis, 2003. Development of a coupled 3D hydrodynamic-ecological-terrestrial model and application to a semi-enclosed gulf in the Eastern Mediterranean. In Murray, C.N., J.M. Zaldivar, G. Giordani and P. Viaroli (eds) Proceedings of the International Conference on Southern European coastal lagoons: The influence of river basin-coastal zone interactions, 73.

25. Tsirtsis, G., P. Zouganeli and E. Avagianou, 2003. Development of a statistical methodology for eutrophication assessment in coastal areas of Eastern Mediterranean. In Murray, C.N., J.M. Zaldivar, G. Giordani and P. Viaroli (eds) Proceedings of the International Conference on Southern European coastal lagoons: The influence of river basin-coastal zone interactions, 132.

24. Christoforidou, F., F. Vlatsiotou, G. Tsirtsis, M. Karydis and N. Korovesis, 2003. Spatial and temporal variability of the ecological system of a seasonal solar saltworks (Kalloni in Lesbos Island): Implications for salt production. 8th Conference of Environmental Science and Technology, 8-10 September 2003, Lemnos, Greece.

23. Kolovoyiannis, V. and G. Tsirtsis, 2003. A simulation model of the water mass circulation in the strait of Mytilini, with emphasis on the waste water treatment plant dispersion field. 8th Conference of Environmental Science and Technology, 8-10 September 2003, Lemnos, Greece.

22. Vlatsiotou, F. and G. Tsirtsis, 2003. Development of a laboratory methodology for the quantification of the nutrient and organic matter fluxes in microcosms, using sediment corers. 6th Panhellenic Symposium of Oceanography and Fisheries, 6-9 May 2003, Chersonissos, Crete, NCMR.

21. Kolovoyiannis, V. and G. Tsirtsis, 2003. Development of a 3-d coupled ecological model for studying ecology and hydrodynamics in coastal systems: Application and evaluation in a coastal area of the Aegean. 6th Panhellenic Symposium of Oceanography and Fisheries, 6-9 May 2003, Chersonissos, Crete, NCMR.

20. Mpazigou, F., G. Chatzigeorgiou, K. Vasileiadou, G. Tsirtsis and M. Karydis, 2003. Assessment of coastal eutrophication in the Aegean sea: a new methodology based on the multivariate methods of Principal Component Analysis and Discriminant Analysis. 6th Panhellenic Symposium of Oceanography and Fisheries, 6-9 May 2003, Chersonissos, Crete, NCMR.

19. Vlatsiotou, F. and G. Tsirtsis, 2003. Quantification of the nutrient and organic matter flows between sediment and water column in a coastal area of the Aegean. 6th Panhellenic Symposium of Oceanography and Fisheries, 6-9 May 2003, Chersonissos, Crete, NCMR.

18. Arhonditsis, G., M. Karydis and G. Tsirtsis, 2001. Phytoplankton community similarity indices: A new methodology for detecting eutrophication trends in coastal marine ecosystems. *Rapp. Comm. Int. Mer Medit.* 36, 353.

17. Vlatsiotou, F., Makri, E. and Tsirtsis, G., 2001. A modeling approach to the quantification of sediment-water column interactions in aquatic microcosms, in Lekkas, Th. (ed.) Proceedings of the 7th Conference on Environmental Science and Technology, 928-935.

16. Arhonditsis, G. and G. Tsirtsis, 2000. Coupling hydrodynamics and biology in a shallow coastal ecosystem in the Mediterranean. International Conference on 'Coastal and Ocean Modeling'. Valetta, Malta.
15. Arhonditsis, G., G. Tsirtsis and M. Angelidis, 1999. An integrated modelling approach for the assessment of coastal marine eutrophication: The effects of the terrestrial sources. First International Symposium 'Issues in Environmental Pollution', Denver, Colorado.
14. Tsirtsis, G. and Karydis, M., 1999. Application of discriminant analysis for water quality assessment in the Aegean, in Lekkas, Th. (ed.) Proceedings of the 6th Conference on Environmental Science and Technology, 243-249.
13. Lekkas, D., Plomaritis, Th., Tsirtsis, G. and Karydis, M., 1999. Antifouling toxicity on marine microalgae, in Lekkas, Th. (ed.) Proceedings of the 6th Conference on Environmental Science and Technology, 473-479.
12. Tsirtsis, G. and M. Karydis, 1998. Coastal eutrophication assessment: Development of a water quality classification system using phytoplankton ecological indices. Rapp. Comm. Int. Mer Medit. 35:590.
11. Tsirtsis, G., Kitsiou, D. and Arhontitsis, G., 1997. Development of a computational algorithm for the presentation of environmental parameters at spatial and temporal scales using a personal computer, in Lekkas, Th. (ed.) Proceedings of the 5th Conference on Environmental Science and Technology, 115-121.
10. Arhonditsis, G., G. Tsirtsis, C. Giourga and M. Karydis, 1997. Quantitative assessment of the effects of agricultural runoff to coastal marine eutrophication. Proceedings Coastlines 97 (Coastal Environment Management), Ed. G. Randazzo, EUCC-ITALY/EUCC.
9. Kitsiou, D., G. Tsirtsis and M. Karydis, 1997. Optimal design of sampling stations in eutrophication studies. Proceedings Coastlines 97 (Coastal Environment Management), Ed. G. Randazzo, EUCC-ITALY/EUCC.
8. Tsirtsis, G. and M. Karydis, 1997. Sensitivity analysis of ecological indices for the detection of eutrophic trends using standard phytoplankton communities. Proceedings of the 5th Panhellenic Symposium of Oceanography and Fisheries, NCMR.
7. Tsirtsis, G., 1995. Modelling the nitrogen cycle in a eutrophic coastal marine environment influenced by sewage effluent. Kolovoyiannis, V. and G. Tsirtsis, 2005. Implementation of a high resolution, 3 dimensional hydrodynamic model to a shallow, semi-enclosed water body, gulf of Gera, Lesvos. Proceedings of the 9th International Conference on Environmental Science and Technology, Rhodes, Greece, A791-797.s. Proceedings of the 2nd International Conference on 'The Mediterranean Coastal Environment', Ed. E. Ozhan, 1347-1356.
6. Tsirtsis, G. and M. Karydis, 1995. Quantification of biological changes of coastal systems for assessing eutrophication. Proceedings of the 8th International Symposium on 'Environmental Pollution and its Impact on Life in the Mediterranean Region', 110.
5. Tsirtsis, G., 1995. Dynamics of marine bacteria in a coastal eutrophic ecosystem: Development of a simulation model, in Lekkas, Th. (ed.) Proceedings of the 4th Conference on Environmental Science and Technology, 234-243.
4. Tsirtsis, G., 1995. Simulation model of a coastal ecosystem influenced by eutrophication. Rapp. Comm. Int. Mer Medit. 34:149.

3. Gatsiou, E., G. Tsirtsis and M. Karydis, 1995. Eutrophication assessment based on phytoplankton community analysis. *Rapp. Comm. Int. Mer Medit.* 34:207.
2. Tsirtsis, G., 1994. A Simulation Model for the Description of a Eutrophic System with Emphasis on the Microbial Processes. Διεθνές Συμπόσιο WTSAC (Water Treatment Scientists Association of Cyprus) 'Pollution of the Mediterranean Sea', 2-4 November 1994, Nicosia, Cyprus.
1. Tsirtsis, G., M. Gioka, E. Panagopoulou and P. Vouros, 1992. Dynamics of bacterial-phytoplanktonic systems influenced by eutrophication. *Rapp. Comm. Int. Mer Medit.* 33:203.