

## CURRICULUM VITAE

**Name:** Kalliopi A. PAGOU  
**Nationality:** Greek  
**Date of birth:** 25/07/1958 (F)  
**Place of birth:** Athens, Greece  
**Office Address:** Hellenic Centre for Marine Research (HCMR = former NCMR)  
 Institute of Oceanography, Department of Biological Oceanography  
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**Studies:** 1. BSc.: on Biology, Univ. of Thessaloniki (1981)  
 2. MSc.: on Biological Oceanography, Univ. of Athens (1985)  
 3. PhD.: on Environmental Sciences, Univ. of Aegean, Mytilini (1994).

**Experience:** **1982-1985:** N.R.C."DEMOKRITOS", research scholarship from the Greek Atomic Energy Commission.  
**1986-1997:** member of the scientific staff of National Center for Marine Research, department of Biological Oceanography, biogeochemical laboratory.  
**1997 - 2003:** Researcher at N.C.M.R.  
**2003 - 2009:** Senior Researcher at H.C.M.R. (former N.C.M.R.)  
**2009 – to day:** Research Director at H.C.M.R. (

### **Research activities:**

- Marine phytoplankton and autotrophic picoplankton ecology and community structure in coastal and open sea areas including Primary production studies, Biological processes, Carbon flow
- Marine ecosystems disturbed by human activities
- Eutrophication
- HABs (Harmful Algal Blooms) / Study of toxic phytoplankton in field and laboratory cultures
- Dinoflagellate cysts.
- Implementation of environmental policies

From 1986 till now involved in 55 research and monitoring projects (national and international projects). Among them being coordinator/scientific responsible in 14 of them (7 international, 7 national projects). Many of them concerned ecological studies and monitoring and assessment of Greek coastal and marine ecosystems, with emphasis in eutrophication processes and toxic phytoplankton. Also participation to several EU projects regarding eutrophication/HAB assessment and biogeochemical cycles, with special reference to:

1. «Technical Support in Relation to the Implementation of the Water Framework Directive (2000/60/EC)». **2006-2007-2008.** Partnership to consortium under WRc plc (Water Research center plc, United Kingdom) funded by DG ENVIRONMENT (EC).
2. “Assessment of eutrophication in the Mediterranean coastal waters”. **2006-2007.** MoU between UNEP/MAP and HCMR
3. Operation, Cooperation and Management of the European Topic Centre on Inland, coastal and Marine waters 2011-2013 (ETC/ICM) according to the Framework Partnership Agreement No. EEA/NSV/10/002, coordinator CENIA (Dr A. Kunitzer). Scientific manager for HCMR partnership: Dr K. Pagou
4. The EU project (coordinator: Prof. E. Graneli, Univ. of Kalmar, Sweden; K. Pagou: scientific responsible for HCMR, main partner) “FATE: Transfer and Fate of Harmful Algal Bloom (HAB) Toxins in European Marine Waters” (Contract number EVK3-CT-2001-00055).
5. “Development of an electrochemical immunosensor as an early warning system for toxin detection during Harmful Algae Blooms” **2006-2008.** Grant funded by the General Secretariat for Research and Technology, Ministry of Development, Greece.

### **Other activities:**

Involvement in several national and international committees, working groups and societies related to eutrophication issues, as the EC-group on Thresholds, UNEP consultation group on MED POL, EEA working group on Marine Eutrophication indicators, participation/membership in the ETC/MCE since 1997, which included participation in several meetings and tasks, among them being co-author in the chapter regarding “Eutrophication” for the EEA report (1999) on “State and pressures of the marine and coastal Mediterranean environment”.

Invited speaker in several meetings, workshops. Invited to give lectures in the frame of postgraduate studies in Greek universities, etc. Supervised several BSc and MSc theses and student training exercises in

collaboration with Greek Universities. Currently supervising a PhD thesis. Invited speaker in meetings with the general public or stakeholders.

#### **Affiliations and Posts (the last 10 years)**

2010 - 2011: Head of Biology Section, Institute of Oceanography, Anavissos, Attica, Athens

2011 – to day: Member of the IOC Intergovernmental Panel on Harmful Algal Blooms (IPHAB-X) UNESCO. Participation to the Tenth Session of the IOC Intergovernmental Panel on Harmful Algal Blooms (IPHAB-X) 12-14 April 2011, UNESCO Headquarters Paris, France.

2010: Member of the Evaluation report for the Institute of Oceanography, HCMR (2005-2010)

2010: Member of the thematic evaluation committee of GSRT research projects of the bilateral R & T Greek-Hungary collaboration, Athens

2007 – to day: Member of the Greek Phycological Society

2007, 2009: Greek delegate with Dr O.Gotsis, in the working group of IOC experts for Harmful Algal Blooms (IOC Intergovernmental Panel on Harmful Algal Blooms).

2006 – to day: Member of ISSHA (International Society for the Study of Harmful Algae)

2006: Member of the evaluation committee of GSRT research projects in the frame of the bilateral R & T Greek – Turkey collaboration, Athens

2005-2006: Member of the Scientific Council of the Institute of Oceanography, HCMR.

2005: Member of the Excellency project for the Institute of Oceanography, HCMR (2005-2010)

2004-2011: Participation to the Mediterranean group (MEDGIG) for the Intercalibration exercise of the Quality of the Coastal and Transitional Waters of the European Waters (European Water Framework Directive:WFD 2000/60/EE) as national contact person-expert for phytoplankton.

2004-2007: Member of the technical secretariat to the Steering Group of the «Eutrophication Activity» for the implementation of the Water Framework Directive (under the technical support of EU to develop guidance for eutrophication assessment in the frame of WFD (2000/60/EE).

2003: Member of the working group for the 5-year scientific program (2004-2008) of the Institute of Oceanography

Member of the Greek Oceanography Association

Member of the Greek Biologists Association

#### **Congresses – Conferences**

Participation in organization of 7 conferences/workshops/meetings. Most important: Chair of the organizing committee of the **14<sup>th</sup> International Conference on Harmful Algae**, under the auspices of Institute of Oceanography-HCMR, and ISSHA (International Committee for the Study of Harmful Algae), Crete, 1-5 November 2010 (www.hab2010.gr): Almost 600 papers submitted, 530 accepted (150 orals, 380 posters). In the conference participated 500 scientists from 66 countries. **International Scientific Committee 14<sup>th</sup> International Conference on Harmful Algae**: Beatriz Reguera, Kin Chung Ho, Mingjiang Zhou, **Kalliopi Pagou**, Donald M. Anderson, riTA HORNER, Stephen Bates, JoAnn Burkholder, Jose Bustillos-Guzman, HenriK Enevoldsen, Patricia M. Glibert, Edna Graneli, Gustaaf Hallegraeff, Grant Pitcher, Sandra Shumway, University of Connecticut, Takashi Yasumoto, Yasuwo Fukuyo. **Local Organizing Committee 14<sup>th</sup> International Conference on Harmful Algae**: **Pagou K. (chair)**, Christou E., Dassenakis M., Economou-Amilli A., Giannakourou A., Giannoudi L., Gotsis-Skretas O., Katsaros C., Karydis M., Moustaka M., Papadakis M., Papathanassiou E., Reizopoulou S., Varkitzi I.

#### **Paper Reviewing**

Reviewer for the following journals: Chemistry & Ecology, Journal of the Marine Biological Association of UK, Fresenius Environmental Bulletin (FEB), Mediterranean Marine Science, Hydrobiologia, Journal of Plankton Research, Ecological Indicators, Aquaculture Research, Estuarine, Coastal & Shelf Science.

#### **Publications**

33 scientific papers published in International Referred Journals and book chapters. About 97 scientific papers presented at International (70) and National Conferences (27) with proceedings. More than 30 oral communications (without proceedings) in meetings, workshops, etc. Author/co-author of 125 technical reports (80 for national projects, 45 for international projects).

**Cited references**: 320 cited references for the published papers, including 76 self cited by all authors, according to the databases a) SCIENCE CITATION INDEX EXPANDED, SOCIAL SCISEARCH CITATION INDEX and ARTS & HUMANITIES CITATION INDEX of ISI®, b) the data base of Elsevier SCOPUS.

### **LIST OF MOST SIGNIFICANT PUBLICATIONS**

1. Ignatiades L., **Pagou K.** & A. Bassiliou (1986). Long term response of six diatom species to eutrophication. *Oceanologica Acta*, 9(4): 449-456.

2. Ignatiades L., Karydis M. & **K. Pagou** (1987). Patterns of dark  $^{14}\text{CO}_2$  incorporation by natural marine phytoplankton communities. *Microb. Ecol.*, 13: 249-259.
3. **Pagou K.** and L. Ignatiades (1988). Phytoplankton seasonality patterns in eutrophic marine coastal waters. *Biological Oceanography*, 5: 229-241.
4. Panayotidis P. & **K. Pagou** (1990). Algal blooms and nutrient conditions in the Greek seas. *Water Pollution Research Reports*, 12: 225-232.
5. Psyllidou-Giouranovits R., Satsmadjis J. & **K. Pagou** (1990). Factors affecting nutrients and chlorophyll-a in a hypertrophied Greek gulf. *Rev.Int.Oceanogr.Med.*, Tomes LXXXXVII-LXXXXVIII: 72-89.
6. **Pagou K.**(1990). Eutrophication problems in Greece. *Water Pollution Research Reports*, 16:97-114.
7. **Pagou K.** & L. Ignatiades (1990). The periodicity of *Gymnodinium breve* (Davis) in Saronikos Gulf, Aegean Sea. In: E. Graneli *et al.* (eds) "*Toxic Marine Phytoplankton*", Elsevier, N. York, pp: 206-208.
- 8.**Pagou K.** and O. Gotsis-Skretas (1990). A comparative study of phytoplankton in S. Aegean, Levantine and Ionian Seas during March-April 1986. *Thalassografica*, 13(1): 13-18.
9. Ignatiades L., **Pagou K.** & V. Gialamas (1992). Multivariate analysis of phytoplanktonic parameters: a sample study. *J. Exp. Mar. Biol. Ecol.*, 160: 103-114.
10. Christou E.D., **Pagou K.**, Christianides, S. & E. Papatthanassiou (1995). Spatial and temporal variability of plankton communities in a shallow embayment of the Eastern Mediterranean. In: A. Eleftheriou *et al.* (eds) *Biology and Ecology of Shallow Coastal Waters*. 28 EMBS Symposium. Olsen & Olsen, Fredensborg, International Symposium Series. p.: 3-10.
11. **Pagou K.**, Siokou-Frangou I., Christianidis S., Friligos N. & R. Psyllidou-Giouranovits (1996). Pollution effects on plankton composition and spatial distribution near the sewage outfall of Athens. *MAP Technical Reports Series*, 96: 1-100. (ISBN 92-807-1624-7)
12. Gotsis-Skretas O., **Pagou K.**, Moraitou-Apostolopoulou M. & Ignatiades L. (1999). Seasonal variability in primary production and standing stocks of phytoplankton and zooplankton in the Eastern Mediterranean: S. Aegean Sea and the Straits of the Cretan Arc. *Progress in Oceanography*, 44: 625-649.
13. Izzo, J. & **Pagou K.** (1999). Environmental status and threats – Eutrophication. In "State and pressures of the marine and coastal Mediterranean environment", Papatthanassiou E., Izzo J. & A. Kunitzer (eds), European Environment Agency, *Environmental assessment series*, No 5: 76-82.
- 14.Siokou-Frangou, I., Gotsis-Skretas, O., Christou, E.D. & **K. Pagou** (1999). Plankton characteristics in the NW Levantine Sea and the adjacent areas. In: P. Malanotte-Rizzoli & V.N. Eremeev (eds) *The Eastern Mediterranean as a laboratory basin for the assessment of contrasting ecosystems*, Kluwer Academic Publications, p: 205-223.
15. Moncheva, S., Gotsis-Skretas, O., **Pagou, K.** & A. Krastev (2001). Phytoplankton blooms in Black Sea and Mediterranean coastal ecosystems: similarities and differences. *Est. Coast. Shelf Sci.*, 53(3): 281-295.
16. **Pagou K.**,Krasakopoulou E.,Pavlidou A., Assimakopoulou G.,Kontoyiannis H. & Anagnostou Ch. (2001). Inner Thermaikos Gulf (NW Aegean Sea, E. Mediterranean): a preliminary approach. In: Dupra V. *et al.*(eds) Coastal and Black Sea regions: carbon, nitrogen and phosphorous fluxes, *LOICZ Reports & Studies*, No 19,i+101pages, LOICZ, Texel, The Netherlands, pp.:6-11 (also at LOICZ website: [http://data.ecology.su.se/mnode/Europe/Med\\_Aegean\\_BlackSea/Greece/InnerThermaikos/thermaikosbud.htm](http://data.ecology.su.se/mnode/Europe/Med_Aegean_BlackSea/Greece/InnerThermaikos/thermaikosbud.htm)).
17. Ignatiades, L., Psarra, S., Zervakis, V., **Pagou, K.**, Souvermezoglou, E., Assimakopoulou, G., Gotsis-Skretas, O. (2002). Phytoplankton size-based dynamics in the Aegean Sea (Eastern Mediterranean). *J. Mar. Sys.*, 36: 11-28.
18. Glibert P, Granéli E, Anderson D, Lipiatou E, Sellner K, Smetacek V, Smayda T, Estrada M, Wassman P, Armbrust G, Banahan S, Blauw A, Boicourt W, Dale B, Dortch Q, Donaghay P, Fennel W, Figueiras F, Fonda Umani S, Franca S, Franks P, Garrison D, Gentien P, Hansen P.-J, Hickey B, Kudela R, Lancelot C, Lewis J, Olli K, **Pagou K**, Perry MJ, Pettersson L, Pitcher G, Raine R, Rassoulzadegan F, Reguera B, Seitzinger S, Sholin C, Sieracki M, Stock C, Tamminen T, Taylor P, Tomlinson S, Trainer V, Veldhuis M, Villareal T, Zingone A. (2003). *The EU-US Scientific Initiative on Harmful Algal Blooms: A Report from a Workshop Jointly Funded by the European Commission – Environment and Sustainable Development Programme and the U.S. National Science Foundation*, 5-8 September 2002 - Trieste, Italy (ISBN 92-894-5700-7).
19. Karageorgis, A.P, Skourtos, M.S., Kapsimalis, V., Kontogianni, A.D., Skoulikidis, N.Th., **Pagou, K.**, Nikolaidis, N.P., Drakopoulou, P., Zanou, B., Karamanos, H., Levkov, Z., Anagnostou, Ch. (2005) An Integrated Approach to Watershed Management within the DPSIR Framework: Axios River catchment and Thermaikos Gulf. *Regional Environmental Change*, 5: 138-160.
20. Svensen C., Stroglyoudi E., Wexels Riser C., Dahlmann J. Legrand C., Wassmann P., Graneli E., **Pagou K.** (2005). Reduction of cyanobacterial toxins through coprophagy in *Mytilus edulis*. *Harmful Algae*, 4: 329-336.

- 21. Pagou K.** (2005). Eutrophication in Hellenic coastal areas, p.: 311-317 In: State of the Hellenic Marine Environment. E. Papathanassiou & A. Zenetos (eds), Inst. Oceanography, HCMR publ., 360 p. (ISBN 960-86651-8-3)
- 22.** Giannakourou A., Orlova, T., Assimakopoulou, G., **Pagou K.** (2005). Dinoflagellate cysts in Recent Marine Sediments from Thermaikos Gulf, Greece. Possible implications of resuspension events on the onset of phytoplankton blooms. *Continental Shelf Research*, 25(19-20): 2585-2596.
- 23.** Price N.B., Karageorgis A.P., Kaberi H., Zeri C., Krasakopoulou E., Voutsinou-Taliadouri F., Lindsay F., Assimakopoulou G. & **Pagou K.** (2005). Temporal and spatial variations in the geochemistry of major and minor particulate and selected dissolved elements of the Thermaikos Gulf, northwestern Aegean Sea. *Continental Shelf Research*, 25(19-20): 2428-2455.
- 24.** Nikolaidis N.P., Karageorgis A., Kapsimalis V., Marconis G., Drakopoulou P., Kontoyiannis H., Krasakopoulou E., Pavlidou A., **Pagou K.** (2006). Circulation and nutrient modeling of Thermaikos Gulf, Greece. *J. Mar. Sys.*, 60: 51-62.
- 25.** Zervoudaki S., Christou E.D. T. G. Nielsen T.G., Siokou-Frangou I., Assimakopoulou G., Giannakourou A., Maar M., **Pagou K.**, Krasakopoulou E., Christaki U., and Moraitou-Apostolopoulou M. (2007). The importance of small-sized copepods in a frontal area of the Aegean Sea. *Journal of Plankton Research*, 29: 317-338; doi:10.1093/plankt/fbm018
- 26. Pagou K.** (2007). Approaches to the assessment of eutrophication in Mediterranean coastal waters (Draft). UNEP(DEPI)/MED WG.321/Inf.6: 98 pp
- 27.** Reizopoulou, S., Strogyloudi, E., Giannakourou, A., **Pagou, K.**, Hatzianestis, I., Pyrgaki, C., Graneli, E. (2008). Okadaic acid accumulation in macrofilter feeders subjected to natural blooms of *Dinophysis acuminata*. *Harmful Algae*, 7: 228-234; doi:10.1016/j.hal.2007.08.001
- 28.** Ignatiades, L., Gotsis-Skretas, O., **Pagou, K.**, Krasakopoulou, E. (2008). Diversification of phytoplankton community structure and related parameters along a large-scale longitudinal east-west transect of the Mediterranean Sea. *Journal of Plankton Research*, doi:10.1093/plankt/fbn124, available online at [www.plankt.oxfordjournals.org](http://www.plankt.oxfordjournals.org)
- 29.** Varkitzi I., **Pagou K.**, Granéli E., Hatzianestis I., Pyrgaki C., Pavlidou A., Montesanto B, & Economou-Amilli A. (2010). Unbalanced N:P ratios and nutrient stress controlling growth and toxin production of the harmful dinoflagellate *Prorocentrum lima* (Ehrenberg) Dodge. *Harmful Algae*, 9/3, 304-311.
- 30.** Pavlidou A., H. Kontoyiannis, Ch. Anagnostou, I. Siokou-Frangou, **K. Pagou**, E. Krasakopoulou, G. Assimakopoulou, S. Zervoudaki, Ch. Zeri, J. Chatzianestis and R. Psyliidou (2010). Biogeochemical Characteristics in the Elefsis Bay (Aegean Sea, Eastern Mediterranean) in relation to anoxia and climate changes. In: E.V. Yakushev (ed.), Chemical Structure of Pelagic Redox Interfaces: Observation and Modeling, Hdb Env Chem, DOI 10.1007/698\_2010\_55, Springer Verlag Berlin Heidelberg 2010.
- 31.** Krasakopoulou E. & **Pagou K.** (2011). Seasonal steady-state budgets of nutrients and stoichiometric calculations in an Eastern Mediterranean lagoon (Papas Lagoon-Greece). *Medit. Mar. Sci.*, 12/1, 21-41.
- 32.** Zervoudaki S., Christou E.D., Assimakopoulou G., Örek H., Gucu A.C., Giannakourou A., Pitta P., Terbiyik T., Yücel N., Moutsopoulos T., **Pagou K.**, Psarra S., Özsoy E., Papathanassiou E. (2011). Copepod communities, production and grazing in the Turkish Straits System and the adjacent northern Aegean Sea during spring. *J. Marine Sys.* 86 (3-4), pp. 45-56.
- 33.** Zoi Konstantinou, Yannis Krestenitis, Dionysis Latinopoulos, Kalliopi Pagou, Sofia Galinou-Mitsoudi, Yiannis Savvidis (2012). Aspects of the mussel-farming activity in Chalastra, Thermaikos Gulf, Greece: an effort to untie a management Gordian knot. *ECOLOGY AND SOCIETY Special Feature: A Systems Approach for Sustainable Development in Coastal Zones* (in press)
- 34.** Giannoudi L., Varkitzi I., Petrou P.S., C. Pyrgaki C., Kakabakos S.E , **K. Pagou** (2011). An Amperometric immunosensor tested on *Prorocentrum lima* cultures. *Biotechnology Advances* (submitted).
- 35.** Varkitzi I., Pagou K., Maneiro I., Erler, K., Luckas, B., Krasakopoulou E., (2012). Fate and impact of the neurotoxin domoic acid after ingestion of the diatom *Pseudo-nitzschia multiseriis* (Hasle) Hasle by the grooved carpet shell clam *Ruditapes decussatus* L. *Scientia Marina* (submitted)

#### **Other publications:**

- Pagou K.** (2000). A toxic phenomenon in Thermaikos Gulf. *Gaiorama*, Vol. 37, May-June 2000 (in greek).
- Pagou K.** (2008). Eutrophication related monitoring tasks and WFD for coastal waters in Greece. Paper presented at: <http://www.encora.eu/coastalwiki/>

**INVITED TALKS** (the last 10 years)

1. Meeting in Brussels, 6 November 2001 on «Thresholds of Environmental Sustainability: The case of nutrients». European Commission, Research Directorate-General (invited, EU funding).
2. Oral presentation on «National and International projects related to HABs in Greece» in a workshop in Brussels (7 November 2001) on “The research and infrastructural needs for the management of Harmful Algal Blooms in European Seas”, European Commission, Research Directorate-General. Invited, EU funding.
3. Review Meeting on MED POL – Phase III. Monitoring activities. Rome, 5-7 December 2001. Invited by UNEP as eutrophication expert. Funded by UNEP.
4. Oral presentation «North Aegean: The exception to the low trophic level of the Greek Seas» in the meeting «The marine environment of the N.Aegean. Wealth-Pollution-Protection. Special report for the Chios marine area» Organisation by a local cultural club, Municipality of Chios, 28 April 2001, Chios (invited)
5. Oral presentation «Monitoring, protection and management of the Papa’s lagoon, Araxos» in the meeting “Protection and restoration of the coastal zone of the Achaia Prefecture” organized by the prefecture of Achaia, 24 January 2002, Patras.
6. The EU-US Workshop on Harmful Algal Blooms, 5-8 September 2002, Trieste, Italy (Invited by EC – Research Directorate General)
7. Consultation Meeting on MED POL Eutrophication Monitoring Strategy. UNEP, Athens, 20-21 September 2002.
8. 3<sup>rd</sup> Review meeting on MED POL – PHASE III monitoring activities, Palermo (Italy), 12-15 December 2005, after invitation as eutrophication expert
9. Experts meeting from the EU member states in the frame of the debate for the «New Directive for bathing waters», 22 May 2003, Brussels, Organized by the Greek Presidency (invited by the Ministry of Environment)
10. Meeting in Rome (ICRAM) for the MED POL project activities, related to eutrophication of the marine environment in Mediterranean. Invited by MED POL Programme / UNEP, 3-4 October 2005
11. 3<sup>rd</sup> Review meeting on MED POL – PHASE III monitoring activities, Palermo (Italy), 12-15 December 2005, after invitation as eutrophication expert
12. Participation in Public Consultation of the Organisation for the Regulatory Plan and Environmental Protection of Thessaloniki and the University of Thessaloniki for a “Environmental and Sustainability Indicators System for Thessaloniki”, 11 June 2007, Thessaloniki (After invitation).
13. Participation to the «Review Meeting of MED POL Monitoring Activities and the use of indicators», Athens, 12-14 December 2007, after invitation as eutrophication expert
14. Oral presentation entitled “Eutrophication in Thermaikos Gulf: A problem under management” during the meeting “Ecological conditions and productivity in the coastal area of Western Thermaikos Gulf” organized by the “Axios-Loudias-Aliakmon Estuaries Management Authority”, Halastra, 12 December 2008 (invited speaker).
15. Participation to Meeting of MEDPOL experts on “Marine Pollution Indicators to assess ecosystem stress (Biological Quality Elements)” Athens, 12 October 2009

**OTHER RESEARCH PROJECTS IN THE LAST 10 YEARS****Recent Research Projects**

- 2011-2014: Mediterranean Sea Acidification under changing climate (MedSeA), 381204 €, FP7 / EC (66.21%) & GSRT (33.79%), Contribution to the “Quantification of the impacts of ocean acidification and warming on ecologically and socio economically important species” by assessing the ecological response of the harmful algal bloom (HAB) species *Alexandrium minutum* to ocean acidification and warming in the Eastern Mediterranean using laboratory experiments. PI.
- 2011-2012: Dynamics of Harmful Algal Blooms (HABs) in three eutrophicated bays in Greece and Turkey. Resting cysts and their role in the establishment of HABs. Joint Research and Technology Programmes. Turkey- Greece, 2010 – 2011, GSRT.15000 €, PI
- 2007-2011: SPICOSA IP: Science and Policy Integration for Coastal Systems Assessment, FP6 / EC (66.21%) & GSRT (33.79%), Contribution to the formulation of a System Approach Framework (SAF), in order to explore the dynamics of Coastal-Zone Systems and potential consequences of alternative policy scenarios in the frame of Integrated Coastal Zone Management in Thermaikos Gulf. The sustainable management of mussel cultures will be investigated in relation to marine environment eutrophication and its impacts (as are Harmful Algae Blooms). Data supply.

- 2007-2010: Monitoring of the inner Saronikos Gulf ecosystem, under the influence of the Psittalia sewage treatment plant. Ministry of Environment. PI: Responsible for the task regarding phytoplankton studies (biomass, communities, primary production). Eutrophication assessment. Technical report compilation. 1,026,771 € (3 subsequent projects)
- 2006-2008: THERMAIKOS 2006: Monitoring the marine environment quality of Thessaloniki Gulf for year 2006. General Secretariat for Public Works, Ministry of Environment. **Coordinator / Scientific**
- 2005-2006: Monitoring of the inner Saronikos Gulf ecosystem, under the influence of the Psittalia sewage treatment plant. Ministry of Environment. Responsible for the task regarding phytoplankton studies (biomass, communities, primary production). Eutrophication assessment. Technical report compilation, 190,391€
- 2004-2005: Assumption of studies and technical consultant services for the Saronikos Gulf. Assessment of the trophic and ecological status of Saronikos Gulf. Ministry of Environment. Eutrophication assessment. Technical report, PI, 224,200€
- 2003-2005: THERMAIKOS 2004: Monitoring the marine environment quality of Thessaloniki Gulf for year 2004. General Secretariat for Public Works, Ministry of Environment. **Coordinator / Scientific Responsible** 133,965 €
- 2003-2004: The integrated monitoring of the Romanian Black Sea Coast between Midia-Varna Veche. EC (through the PHARE programme). Determination of technical specification for the monitoring project of Romanian coasts Determination of specifications for the necessary instruments, boats, methods, etc, for the realization of the monitoring project of Romanian coasts in relation to eutrophication studies. PI.
- 2001-2003: EUROCAT: European Catchments. Catchment changes and their impact on the coast FP5 / EC (50%) & GSRT (50%). Analysis of nutrients and phytoplankton data in order to apply models for the Axios river Basin. Impact of eutrophication to the coastal ecosystem of Thermaikos gulf. Elaboration of proposal for the management of the area according to DPSIR framework (Drivers, Pressures, State, Impact, Response) and sustainable development.
- 2000-2004: Monitoring of the inner Saronikos Gulf ecosystem, under the influence of the Psittalia sewage treatment plant. Ministry of Environment. Responsible for the task regarding phytoplankton studies (biomass, communities, primary production). Eutrophication assessment. Technical report compilation, PI, 939,105 Euros
- 2000-2003: INTERPOL: Impact of natural and trawling events on resuspension, dispersion and fate of pollutants. FP5 / EC & ITET. Scientific responsible for the following subtasks ( in the frame of *WP4: Transport pathways and cycling of the resuspended key elements and pollutants and released nutrients to the near bottom waters. Impact to the (coastal-shelf) ecosystem and associated biochemical processes*): Subtask 4.1. Biochemical effects of resuspension in water column (recycling of nutrients and key elements), Subtask 4.2. Possible environmental (toxic blooms) effects of resuspended resting phytoplankton stages (cysts). PI, 610000 Euros
- 2000-2001: Assessment of the role of different pollution sources to the water quality of Thessaloniki gulf. Thessaloniki Water Supply and Sewerage Co. S. A. (EYATH). **Coordinator / Scientific Responsible**, 46000 Euros
- 1999-2001: THERMAIKOS 2000: Monitoring the marine environment quality of Thessaloniki Gulf for the biennium 2000-2001. Thessaloniki Water Supply and Sewerage Co. S. A. (EYATH), **Coordinator / Scientific Responsible**, 155000 Euros
- 1999-2001: Study of the relationship between environmental characteristics and mussel culture sustainability: Case study “The Halastra Loudia area” Prefecture of Thessaloniki. Responsible for planning and realization of the phytoplankton study (biomass, communities). Assessment of the existing trophic status, impact of phytoplankton standing stock and toxic species to mussels. Reporting.
- 1997-2000: INTERREG N. AEGEAN: Infrastructure creation for the inter-regional pollution in North Aegean Sea. Hellenic Ministry of National Economy. Responsible for the planning and realization of the phytoplankton study (biomass, communities), in relation to the hydrological status of N. Aegean, application of new methods (HPLC, flow cytometer), food web. Reporting.