PERSONAL INFORMATION

Gerasimos Korres

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46.7 km Athinon-Souniou Ave., 19013, Anavyssos, Greece

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✉ gkorres@hcmr.gr

Sex M | | Nationality Greek

WORK EXPERIENCE

From 2017 – onwards | **Director of Research**

Institute of Oceanography, H.C.M.R., 46.7 km Athinon-Souniou Ave., 19013, Anavyssos, Greece

Research field: Wave and Hydrodynamic modelling; Data assimilation; Wave – Current interactions; Air – Sea interactions; Operational Oceanography: monitoring and forecasting in regional & shelf seas;
Scientific responsible for data assimilation, waves and hydrodynamic modelling and forecasting of the POSEIDON monitoring and forecasting system (www.poseidon.hcmr.gr)
Coordinator of the GreekArgo RI and Network (www.greekargo.gr)
Member of the Management Board of EuroArgo ERIC.
HCMR scientific responsible for the National Search & Rescue system operated by the Hellenic Air Force.
Participation in numerous EU and national projects related with operational oceanography (data management, numerical modelling) as scientific responsible, PI or task responsible

Since 2015, scientific expert of the Copernicus CMEMS MED MFC and overall responsible for Med-Waves analyses, re-analysis and forecasts.

Business or sector   Public Research Organization

From 2012 – to 2016 | **Senior Researcher**

Institute of Oceanography, H.C.M.R., 46.7 km Athinon-Souniou Ave., 19013, Anavyssos, Greece

Research field: Wave and Hydrodynamic modelling. Data assimilation in hydrodynamic and ecosystem models. Coastal Operational Oceanography
Since 2015 scientific expert of CMEMS MED MFC and PU responsible for Med-Waves

Business or sector   Public Research Organization

From 2008 – to 2011 | **Associate Researcher**

Institute of Oceanography, H.C.M.R., 46.7 km Athinon-Souniou Ave., 19013, Anavyssos, Greece

Research field: Wave and Hydrodynamic modelling. Data assimilation in hydrodynamic and ecosystem models. Coastal Operational Oceanography

Business or sector   Public Research Organization

From 2003 to 2007 | **Research Scientist**

Institute of Oceanography, H.C.M.R., 46.7 km Athinon-Souniou Ave., 19013, Anavyssos, Greece
Research field: Data assimilation in hydrodynamic and ecosystem models.

Participation in EU and national research projects related to data assimilation, hydrodynamic and wave modelling.

Business or sector　Public Research Organization

| From 1996 to 2003 | **Research Scientist** |

University of Athens, Division of Environmental Physics, Ocean Physics and Modelling Group

Research field: Hydrodynamic and wave modelling; Air – Sea interaction.
Participation in EU and national research projects related to hydrodynamic and wave modelling.
Development of TRITON wave forecasting system (http://www.oc.phys.uoa.gr/dok1.htm)
Development of NIREAS wave forecasting system for the Hellenic National Meteorological Service.
Development of the POSEIDON hydrodynamic and wind waves modelling system (www.poseidon.hcmr.gr)
Development of the POSEIDON data assimilation system for hydrodynamic models.

Business or sector　University

EDUCATION AND TRAINING

| from 1991 to 1996 | **Phd in Physical Oceanography** |

INGV – CNR, Italy. - Dept. of Applied Physics, University of Athens, Greece

Ph.D.

| from 1990 to 1992 | **MSc in Physical Oceanography** |

Dept. of Applied Physics, University of Athens, Greece

MSc

| from 1984 to1989 | **BSc in Physics** |

Dept. of Physics, University of Athens, Greece.

BSc

PERSONAL SKILLS

| Mother tongue(s) | Greek |

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2 PROFICIENT USER	C2 PROFICIENT USER	C2 PROFICIENT USER	C2 PROFICIENT USER	C2 PROFICIENT USER

ENGLISH

| Communication skills | Advanced communication skills gained through my participation in numerous European and National projects. |

| Organisational / managerial skills | Member of the Management Board of EuroArgo ERIC (2014- on going), Coordinator of the GreekArgo Network (2011 – on going), Coordinator of the GreekArgo RI (2012 – on going), Member of EuroGOOS Science Advisory Working Group, Coordinator of two national projects, National focal point for Argo Program, PI in several EU projects, Head of the Scientific Advisory Board of the Institute of Oceanography/HCRM (2013-2014). |

| Job-related skills | Advanced Wave & Hydrodynamic modelling – Data assimilation (OI, Reduced order Kalman Filters)– Oceanographic data analysis |

| Computer skills | Programming languages: FORTRAN – MATLAB
 Operating systems: LINUX, UNIX, MS Windows |

ADDITIONAL INFORMATION
Publications

2019

Jansen, E., S. Pimentel, W.-H. Tse, D. Denaxa, G. Korres, I. Mirouze, and A. Storto. **Using Canonical Correlation Analysis to produce dynamically-based highly-efficient statistical observation operators**. *Ocean Sci., 15, 1023-1032, https://doi.org/10.5194/os-15-1023-2019*, 2019

Korres, G., Denaxa, D., Jansen, E., Mirouze, I., Pimentel, S., Tse, W.-H., and Storto, A., 2019: **Assimilation of SST data in the POSEIDON system using the SOSSTA statistical-dynamical observation operator,** Ocean Sci. Discuss., https://doi.org/10.5194/os-2018-158, 2019.

Pimentel, S., Tse, W.-H., Xu H., Denaxa, D., Jansen, E., Korres, G., Mirouze, I. and Storto, A., 2019: **Modeling the Near-Surface Diurnal Cycle of Sea Surface Temperature in the Mediterranean Sea**, Journal of Geophysical Research: Oceans, 124, https://doi.org/10.1029/2018JC014289, 2019.

2018

Ravdas, M., Zacharioudaki, A., and Korres, G., 2018.: **Implementation and validation of a new operational wave forecasting system of the Mediterranean Monitoring and Forecasting Centre in the framework of the Copernicus Marine Environment Monitoring Service**. Nat. Hazards Earth Syst. Sci., 18, 2675-2695, https://doi.org/10.5194/nhess-18-2675-2018, 2018.

Katsafados, P., Varlas, G., Papadopoulos, A., Spyrou, C., and Korres, G., 2018: **Assessing the implicit rain impact on sea state during Hurricane Sandy (2012)**. Geophysical Research Letters,45,12,015–12, 022 .https://doi.org/10.1029/2018GL078673, 2018.

Petihakis, G., Perivoliotis, L., Korres, G., Ballas, D., Frangoulis, C., Pagonis, P., Ntoumas, M., Pettas, M., Chalkiopoulos, A., Sotiropoulou, M., Bekiari, M., Kalampokis, A., Ravdas, M., Bourma, E., Christodoulaki, S., Zacharioudaki, A., Kassis, D., Potiris, E., Triantafyllou, G., Tsiaras, K., Krasakopoulou, E., Velanas, S., and Zisis, N., 2018: **An integrated open-coastal biogeochemistry, ecosystem and biodiversity observatory of the eastern Mediterranean – the Cretan Sea component of the POSEIDON system**. Ocean Sci., 14, 1223-1245, https://doi.org/10.5194/os-14-1223-2018, 2018.

Schuckmann K., P.-Y. Le Traon, and co-authors, 2018. **Copernicus Marine Environment Monitoring Service Ocean State Report**, Journal of Operational Oceanography, Volume 11, Issue sup1, Pages S1-S142 .

2017

Schuckmann K., P.-Y. Le Traon, and co-authors 2017. T**he Copernicus Marine Environment Monitoring Service Ocean State Report (CMEMS OSR)**, Journal of Operational Oceanography, Vol. 9, No. S2, s235–s320, 2017.

Varlas, G., P. Katsafados, A. Papadopoulos and G. Korres, 2017. **Implementation of a two-way coupled atmosphere-ocean wave modelling system for assessing air-sea interaction over the Mediterranean Sea,**, Journal of Atmospheric Research.

Clementi, E., P. Oddo, M. Drudi, N. Pinardi, G. Korres and A. Grandi, 2017. **Coupling hydrodynamic and wave models: first step and sensitivity experiments in the Mediterranean Sea**. Ocean Dynamics, DOI 10.1007/s10236-017-1087-7.

Katsafados, P., G Varlas, A Papadopoulos, G Korres, 2017. **Implementation of a Hybrid Surface Layer Parameterization Scheme for the Coupled Atmosphere-Ocean Wave System WEW**. Perspectives on Atmospheric Sciences, pp 159-165, 2017. DOI: 10.1007/978-3-319-35095-0_23.

2016

Kassis D., G. Korres, A. Konstantinidou and L. Perivoliotis, 2016. **Comparison of high resolution hydrodynamic model outputs with in-situ Argo profiles in the Ionian Sea**. Mediterranean Marine Science. DOI: 10.12681/mms.1753.

Kassis, D., E. Krassakopoulou, G. Korres, G. Petihakis, G. Triantafyllou, 2016. **Hydrodynamic features of the**

South Aegean Sea derived from the introduction of Argo floats with DO sensors and additional oceanographic measurements during 2010-2015, Ocean Dynamics. DOI 10.1007/s10236-016-0987-2

Katsafados, P., Papadopoulos, A., Korres, G., and Varlas, G. 2016. *A fully coupled Atmosphere–Ocean Wave modeling system (WEW) for the Mediterranean Sea: interactions and sensitivity to the resolved scales and mechanisms*, Geoscientific Model Development, 9, 161–173, 2016

Pistoia, J., N. Pinardi, P. Oddo, M. Collins, G. Korres, and Y. Drillet, 2016*. Development of Super-Ensemble techniques for ocean analyses: the Mediterranean Sea case,* Nat. Hazards Earth Syst. Sci., 16, 1807–1819, 2016.

2015

Zacharioudaki, A., G. Korres and L. Perivoliotis, 2015. *Wave climate of the Hellenic Seas obtained from a wave hindcast for the period 1960–2001.* Ocean Dynamics: Volume 65, Issue 6 (2015), Page 795-816.

Kassis, D., G. Korres, L. Perivoliotis and G. Petihakis, 2015. *Hydrodynamic variability of the Cretan Sea derived from Argo float profiles and multi-parametric buoy measurements during 2010-2012*. Ocean Dynamics. Volume 65, Issue 12 (2015), Page 1585-1601.

2014

Korres, G., M. Ntoumas, M. Potiris and G. Petihakis, 2014. *Assimilating Ferry Box data into the Aegean Sea model.* Journal of Marine Systems, 140 (2014) 59–72

Theocharis, A., Krokos, G., Velaoras D., Korres, G., 2014. *An internal mechanism driving the alternation of the Eastern Mediterranean dense/deep water sources*. In: Borzelli, G.L.E., Gačić M., Malanotte-Rizzoli, P., (Eds.), The Mediterranean Sea: Temporal Variability and Spatial Patterns, AGU-Wiley Book Series.

Krokos, G., D. Velaoras, G. Korres, L. Perivoliotis and A. Theocharis, 2014.*On the continuous functioning of an internal mechanism that drives the Eastern Mediterranean thermohaline circulation: the recent activation of the Aegean Sea as a dense water source area*. Journal of Marine Systems, 129, 484-489.

2012

Katsafados, P., S. Kalogirou , A. Papadopoulos and G. Korres, 2012. *Mapping long-term atmospheric variables over Greece*. Journal of Maps, Vol. 8, Issue 2, 181-184

Tsiaras K., D.E. Raitsos, V.H. Kourafalou, G. Triantafyllou, G. Petihakis and G. Korres, 2012. *Inter-annual productivity variability in the North Aegean Sea: influence of thermohaline circulation during the Eastern Mediterranean Transient.*. Journal of Marine Systems, 96-97, 72-81.

Soukissian, T., N. Gizari, D. Fytilis, A. Papadopoulos, G. Korres, A. Prospathopoulos, 2012. *Wind and Wave Potential in Offshore Locations of the Greek Seas*. Proceedings of the Twenty-second (2012) International Offshore and Polar Engineering Conference Rhodes, Greece, June 17–22, 2012 Copyright © 2012 by the International Society of Offshore and Polar Engineers (ISOPE), ISBN 978-1-880653-94–4

Tonani, M., Nilsson, J. A. U., Lyubartsev, V., Grandi, A., Aydogdu, A., Azzopardi, J., Bolzon, G., Bruschi, A., Drago, A., Garau, T., Gatti, J., Gertman, I., Goldman, R., Hayes, D., Korres, G., Lorente, P., Malacic, V., Mantziafou, A., Nardone, G., Olita, A., Ozsoy, E., Pairaud, I., Pensieri, S., Perivoliotis, L., Petelin, B., Ravaioli, M., Renault, L., Sofianos, S., Sotillo, M. G., Teruzzi, A., and Zodiatis, G., 2012:¨**Operational evaluation of the Mediterranean Monitoring and Forecasting Centre products: implementation and results**. Ocean Sci. Discuss., 9, 1813-1851, doi:10.5194/osd-9-1813-2012, 2012.

2011

Korres, G., G. Triantafyllou, G. Petihakis, D. Raitsos, I. Hoteit, A. Pollani, S. Colella and K. Tsiaras, 2011. *A data assimilation tool for the Pagasitikos Gulf ecosystem dynamics: methods and benefits.* Journal of Marine Systems, 94, S102-S117.

Raitsos D.E., Korres G., Triantafyllou G., Petihakis G., Tsiaras K. and Pollani A., 2011..*Assessing phytoplankton biomass variability in relation to the biogeochemical regime in Pagasitikos Gulf, Greece*. Journal of Marine Systems, 94, S16-S22.

Petihakis, G., K. Tsiaras, G. Triantafyllou, G. Korres, T. Tsagaraki, M. Tsapakis, P. Vavillis, A. Pollani and C. Fragoulis, 2011. *Application of a complex ecosystem model to evaluate effects of finfish culture in Pagasitikos Gulf, Greece.* Journal of Marine Systems. 94, S65-S77.

Petihakis, G., Triantafyllou G., Korres G., and A. Theodorou, 2011. *Ecosystem modelling: Towards the development of a management tool for a marine coastal system Part-II, Ecosystem processes and biogeochemical fluxes.* Journal of Marine Systems, 94, S49-S64.

Petihakis, G., Triantafyllou G. N., Korres G. and A. Theodorou 2011. *Ecosystem modelling: Towards the development of a management tool for a marine coastal system. Part-I, General circulation, hydrological and dynamical structure.* Journal of Marine Systems, 94, S34-S48.

Banks, A., P. Prunet, J. Donnadille, P. Pina, J. Chimot, E. Jeansou, M. Lux, G. Petihakis, G. Korres, G. Triantafyllou, C. Fontana, C. Estournel, C. Ulses and L. Fernandez, 2011. *A Satellite Ocean Colour Observation Operator System for Eutrophication Assessment in Coastal Waters.* Journal of Marine Systems, 94, S2-S15.

Perivoliotis, L., G. Krokos, K. Nittis and G. Korres, 2011**.** *The Aegean Sea marine security decision support system***. Ocean Science,** 7, 1–13.

Korres, G., A. Papadopoulos, P. Katsafados, D. Ballas, L. Perivoliotis and K. Nittis, 2011. *A 2-year intercomparison of the WAM-Cycle4 and the WAVEWATCH-III wave models implemented within the Mediterranean Sea.* Mediterranean Marine Science, 12(1), 129-152.

Papadopoulos, A., G. Korres, P. Katsafados, D. Ballas, I. Perivoliotis and K. Nittis, 2011.*Dynamic downscaling of the ERA-40 data using a mesoscale meteorological model*. Mediterranean Marine Science, 12(1), 183-198.

Tsagaraki; T., G. Petihakis; K. Tsiaras; G. Triantafyllou, M. Tsapakis; G. Korres, V. Zervakis, C. Frangoulis; I. Karakassis, 2011. *Beyond the cage: Ecosystem Modelling for impact evaluation in Aquaculture.* Ecological Modelling 222 (2011,) 2512– 2523.

2010

Korres, G., K. Nittis, L. Perivoliotis, K. Tsiaras, A. Papadopoulos, I. Hoteit and G. Triantafyllou, 2010. *Forecasting the Aegean Sea hydrodynamics within the POSEIDON-II operational system*.. Journal of Operational Oceanography, Vol. 3, nu. 1, 37-49.

Korres, G., K. Nittis, I. Hoteit and G.Triantafyllou, 2009. *A high resolution data assimilation system for the Aegean Sea hydrodynamics*. Journal of Marine Systems, 77, 325-340.

2009

Petihakis, G., G.Triantafyllou, K. Tsiaras, G.Korres, A.Polani and I.Hoteit, 2009. *Eastern Mediterranean Biochemical Flux model: simulations of the pelagic ecosystem*. Ocean Science, 5, 29-46.

2008

Hoteit, I., D.-T.Pham, G.Triantafyllou and G.Korres, 2008. *A New Approximate Solution of the Optimal Nonlinear Filter for Data Assimilation in Meteorology and Oceanography*. Monthly Weather Review, 136, 317-334.

2007

Soukissian, T., Hatzinaki, M., Korres, G., A. Papadopoulos, G. Kallos and E. Anadranistakis, 2007. **Wind and Wave Atlas of the Hellenic Seas**. Hellenic Centre for Marine Research Publ., 300pp.

Triantafyllou, G., G.Korres, I.Hoteit, G.Petihakis, A.C.Banks, 2007. *Assimilation of ocean colour data into a Biochemical Flux Model of the Eastern Mediterranean Sea*. Ocean Science, 3, 397- 410.

Petihakis, G., C.J. Smith, G. Triantafyllou, G. Sourlantzis, K.-N. Papadopoulou, A. Pollani, and G. Korres, 2007. *Scenario testing of fisheries management strategies using a high resolution ERSEM-POM ecosystem model*. ICES Journal of Marine Science, 64 (9), 1627-1640.

Korres, G., I.Hoteit and G.Triantafyllou, 2007. *Data assimilation into a Princeton Ocean Model of the Mediterranean Sea using advanced Kalman filters*. Journal of Marine Systems 2007, issues 1-4, 84-104

2006

Nittis, K., L.Perivoliotis, G.Korres, C.Tziavos and I.Thanos, 2006. **Operational monitoring and forecasting for marine environmental applications in the Aegean Sea**. Environmental Modelling and Software, 21, 243-257.

Nittis K., L.Perivoliotis, D.Ballas, T.Soukissian, A.Papadopoulos, D.Georgopoulos, A.Mallios, G.Korres, G.Triantafyllou, A.Pollani, V.Zervakis, V.Papathanassiou, and G. Chronis, 2006. POSEIDON II : A second generation monitoring and forecasting system for the Eastern Mediterranean. In "European Operational Oceanography: Present and Future", Publication of the European Communities, ISBN- 92-894-9788-2, pp 585-590.

2005

Triantafyllou, G., G.Korres, I.Hoteit, A.Polani and G.Petihakis, 2005. **Simultaneous assimilation of physical and biological observations into a coupled ecosystem model using Joint and Dual Kalman filtering**. Lecture series on computer and computational sciences: Volume 4A, pp. 843-847, Advances in Computational Methods in Sciences and Engineering 2005 (ICCMSE 2005)

Hoteit, I., G.Korres and G.Triantafyllou, 2005. **Joint state-parameter estimation in highly dimensional systems**. International Conference on Numerical Analysis and Applied Mathematics 2005 (ICNAAM), T.Simos and C.Tsitouras (Eds.), Wiley-VCH, 244-248.

Hoteit, I., G.Korres and G.Triantafyllou, 2005. **Comparison of Extended and Ensemble based Kalman filters with low and high resolution primitive equation ocean models**. Nonlinear Processes in Geophysics, 12, 755-765.

Hoteit, I., G.Triantafyllou and G.Korres, 2005. **Treating the Model Error in a Low-Rank Ensemble Kalman filter** International Conference on Numerical Analysis and Applied Mathematics 2005 (ICNAAM), T.Simos and C.Tsitouras (Eds.), Wiley-VCH, 249-253.

2003

Pinardi, N., I.Allen, E.Demirov, P.De Mey, G.Korres, A.Lascaratos, P-Y. Le Traon, C.Maillard, G.Manzella and C.Tziavos, 2003. **The Mediterranean Ocean Forecasting System: First phase of implementation (1998-2001) .** Analles Geophysicae, MFSPP – Part I Special Issue, 21, 3-20.

Triantafyllou, G., G.Korres, G. Petihakis, A. Pollani, and A.Lascaratos, 2003. **Accessing the phenomenology of the Cretan Sea shelf area using coupling modelling techniques**. Analles Geophysicae, MFSPP – Part II Special issue, 21, 237-250.

Zodiatis, G., R. Lardner, A. Lascaratos, G. Georgiou, G. Korres and M. Syrimis, 2003. **High resolution nested forecasting model for the Cyprus, NE Levantine Basin and the Eastern Mediterranean Sea.** Analles Geophysicae, MFSPP – Part II Special Issue, 21, 221-236.

Korres G. and A.Lascaratos, 2003. **A one-way nested eddy resolving model of the Aegean and Levantine basins: Implementation and climatological runs**. Analles Geophysicae, MFSPP – Part I Special Issue, 21, 205-220.

2002

Korres, G., A.Lascaratos, E. Hatziapostolou and P.Katsafados, 2002. **Towards an Ocean Forecasting System for the Aegean Sea.** The Global Atmosphere and Ocean System, Vol. 8, No. 2-3, 191-218.

Beckers, J.-M., M.Rixen, P.Brasseur, J.-M.Brankart, A.Elmoussaoui, M.Crepon, C.Herbaut, F.Martel, F.Van den Berghe, L.Mortier, A.Lascaratos, P.Drakopoulos, G.Korres, K.Nittis, N.Pinardi, E.Masetti, S.Castellari, P.Carini, J.Tintore, A.Alvarez, S.Monserrat, D.Parilla, R.Vautard, S.Speich, 2002. **Model intercomparison in the Mediterranean: MEDMEX simulations of the seasonal cycle**. Journal of Marine Systems, 33-34, 215-251.

2000

Korres, G., N.Pinardi and A.Lascaratos, 2000. **The ocean response to low frequency interannual atmospheric variability in the Mediterranean Sea. Part II: Empirical Orthogonal Functions analysis.** Journal of Climate, 13, 732-745.

Korres, G., N.Pinardi and A.Lascaratos, 2000. **The ocean response to low frequency interannual atmospheric**

variability in the Mediterranean sea. Part I: Sensitivity experiments and energy analysis. Journal of Climate, 13, 705-731.

| Projects | Participation in scientific projects (since 2000) |

2018-today, "MED-MFC 'Mediterranean Monitoring and Forecasting Centre – Phase II", Funded by EU through Mercator Ocean International, PI for HCMR

2015-2018, "MED-MFC 'Mediterranean Monitoring and Forecasting Centre – Phase I", Funded by EU through Mercator Ocean International, PI for HCMR

2016-2017, "Statistical-Dynamical Observation Operator for SST Data Assimilation – SOSSTA", Funded by Mercator Ocean, PI for HCMR

2014-2015, 'Pre-Operational Marine Service Continuity in Transition towards Copernicus - MyOcean FO', Funded by EU, PI for HCMR

2012-2015, 'GreekArgo implementation project', Funded by the Greek General Secretariat for Research and Technology, Coordinator.

2012-2014, 'A Pan-European concerted and integrated approach to operational wave modelling and forecasting – a complement to GMES MyOcean services (MyWave)', Funded by EU, PI for HCMR (Development and validation of a high resolution atmosphere – wave coupled system for the Mediterranean Sea).

2012-2014, 'IONIO', Interreg-III Greece-Italy, Participant Scientist (Hydrodynamic and Wave modelling)

2012-2014, 'Prototype Operational Continuity for the GMES Ocean Monitoring and Forecasting Service - MyOcean2', Funded by EU, PI for HCMR (Wave – current interactions & Backup System)

2011-2015, Jerico project, Funded by EU (FP7), Participant Scientist (Data assimilation – OSSE experiments)

2011-2013, 'Strengthening International Dimension of Euro-Argo Research Infrastructure (SIDERI)', Funded by EU, PI for HCMR.

2010-2011, 'GreekArgo Research Infrastructure', Funded by the Greek General Secretariat for Research and Technology, Coordinator.

2010-2012, 'Decadal scale Variability of the Mediterranean Ecosystem (MedEcos). MarinERA funded project' Funded by the Greek General Secretariat for Research and Technology, Participant Scientist (60 years Hindcast experiment for the Med Sea)

2009-2012, 'Development of upgraded capabilities for existing GMES fast-track services and related (pre)operational services - MyOcean', Funded by EU, PI for HCMR (Wave modelling & Wave – current interactions)

2008-2010, 'Global Ocean Observing Infrastructure – EURO ARGO', Funded by EU, PI for HCMR

2007-2009, 'European Coastal-shelf Sea Operational and forecasting system – ECOOP', Funded by EU, Participant Scientist (Aegean Sea data assimilation system)

2007-2008, 'AQUA-PLANNER', INTEREG-III Greece – Cyprus, Participant Scientist (Very high resolution hydrodynamic modelling)

2006-2009, 'Data Integration System for Eutrophication Assessment in Coastal Waters – INSEA', Funded by EU, Participant Scientist (Numerical modelling – Data assimilation at the coastal scale)

2006-2007, 'Prevention and management of sea originated risks to the coastal – CORI', Funded by EU and GSRT, PI for HCMR (Numerical modelling, HF Radar System implementation)

2006, 'Environmental assessment study in the Elefsis Gulf from the thermal outflow imposed by the two planned electrical power stations with total power 824MW', Funded by Halyvourgiki S.A., Participant Scientist (Hydrodynamic modeling)

2005-2008, 'Marine and Coastal Information Services – MARCOAST', Funded by ESA, Participant Scientist (Hydrodynamic and wave modelling).

2005-2008, 'POSEIDON II', Funded by EFTA-EEA GRANTS, Participant scientist (Numerical modelling and Information Systems)

2004-2007, 'An integrated Operational Wave Monitoring and Forecasting System with applications to Shipping in Greece – ESPEN' , Funded by GSRT – EPAN, Participant Scientist (Wave modelling)

2003-2004, 'Oceanographic measurements and development of Saronikos gulf currents and waves numerical models for the Olympic Games of 2004, - Athens 2004', Funded by General Secretariat of Spots, Participant scientist (Wave and hydrodynamic modeling)

2003-2004, 'Marine EnviRonment and Security in the European Area–MERSEA, Strand 1', Funded by EU, Participant Scientist (Numerical modeling)

2002-2005, 'From Online Oceanographic Measurements to Environmental Information – FERRYBOX', Funded by EU, Participant Scientist (Data assimilation)

2002-2003, 'Study of thermal outflow in Thessaloniki Gulf', Funded by ASPROFOS, Participant Scientist (Numerical modelling)

2002-2005, 'Mediterranean Forecasting System Toward Environmental Predictions - MFSTEP', Funded by EU, Participant Scientist (Hydrodynamic modelling)

2002-2005, 'Development and Application of Validated Geophysical Wave Products from ENVISAT, ASAR and ERA-2 Instruments (ENVIWAVE)', Funded by EU, Participant Scientist (Wave modelling)

1998-2001, 'Mediterranean Forecasting System Pilot Project (MFSPP)', Funded by EU, Participant Scientist (Hydrodynamic modelling)