

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)	Andrew Clive Banks	
Address(es)	Hellenic Centre for Marine Research (HCMR), Institute of Oceanography, Former US Base Gournes, 71500 Hersonissos, Crete, Greece (work). 39 Arvis Rd, Heraklion 71305, Crete, Greece (home).	
Telephone(s)	+30 2810 337815 (work) +30 2810 318825 (home)	Mobile: +30 6949345544
E-mail	andyb@hcmr.gr	
Nationality	British	
Date of birth	22.12.1967	
Gender	Male	

Occupational field

**Satellite Oceanography and Marine Optics
(Earth Observation / Remote Sensing / Oceanography / Marine Optics / Climate)**

Summary

Dr. Banks is a senior researcher in satellite oceanography of international standing. He has more than twenty years of research experience in earth observation / remote sensing since his first publication in the field in 1997 and is now author of >70 papers in peer reviewed journals and international conference proceedings. He was the satellite oceanography researcher at HCMR for 12 years before gaining wider international experience, first at the Joint Research Centre of the European Commission as a scientific officer for satellite oceanography for 3 years and then as a senior research scientist in earth observation at the National Physical Laboratory of the United Kingdom for another 3 years. From this experience Dr. Banks has gained strategic research expertise and a network of European and international contacts that, with his return to HCMR, will help to ensure the successful implementation of his vision for a greater integration of satellite oceanography and marine optics in Greece and the Eastern Mediterranean with the global EO and climate research community.

Work experience

Dates	July 2018 to present
Occupation or position held	Principal research scientist in satellite oceanography and marine optics (researcher Γ)
Main activities and responsibilities	Satellite oceanography & marine optics (particularly fiducial reference measurements (FRM) for satellite ocean colour validation & system vicarious calibration, and FRM for SST validation).
Name and address of employer	Hellenic Centre for Marine Research (HCMR), Institute of Oceanography, Former US Base Gournes, 71500 Hersonissos, Crete, Greece.
Type of business or sector	Research
Dates	April 2015 to July 2018
Occupation or position held	Senior research scientist in earth observation
Main activities and responsibilities	Metrological traceability in the earth observation of essential climate variables (including atmospheric correction, radiative transfer modelling, uncertainty analysis and system administration).
Name and address of employer	National Physical Laboratory (NPL), Hampton Rd, Teddington, Surrey, TW11 0LW, United Kingdom.

Type of business or sector	Research
Dates	July 2012 to April 2015
Occupation or position held	Researcher in satellite oceanography-remote sensing / scientific officer of the Commission
Main activities and responsibilities	Optical remote sensing of the extremes in European and African Seas, JRC ocean colour data processing in support of Copernicus climate and marine services (including cloud masking, atmospheric correction, georeferencing, radiative transfer modelling, spectral analysis and database administration).
Name and address of employer	European Commission - DG Joint Research Centre (JRC) , Via Enrico Fermi 2749, 21027 Ispra (VA), Italy.
Type of business or sector	Research
Dates	February 2004 to July 2012
Occupation or position held	Researcher in satellite oceanography/remote sensing
Main activities and responsibilities	Remote sensing research and project management.
Name and address of employer	Hellenic Centre for Marine Research (HCMR), Institute of Oceanography , P.O. Box 2214, Heraklion 71003, Crete, Greece
Type of business or sector	Research
Dates	April 2000 to January 2004
Occupation or position held	Post-doctoral research fellow in remote sensing
Main activities and responsibilities	Remote sensing research and project management.
Name and address of employer	Institute of Marine Biology of Crete (IMBC-now part of HCMR) , P.O. Box 2214, Heraklion 71003, Crete, Greece
Type of business or sector	Research
Dates	September 1987 to June 1990
Occupation or position held	Researcher and Programmer
Main activities and responsibilities	Global custody N.Y. task force researcher and financial systems programmer.
Name and address of employer	JPMorgan Chase , Chaseside, Bournemouth, Dorset, UK
Type of business or sector	Financial

Education

Dates	October 1994 to April 2000
Title of qualification awarded	Ph.D. in Remote Sensing and Environmental Physics (supervisor: Prof. R. J. Gurney)
Principal subjects/occupational skills covered	Thesis title: "Modelling Surface Reflectance for the Simulation of Remotely Sensed Data" (radiative transfer modelling, ecosystem modelling, atmospheric correction, modelling of satellite orbit and sensor characteristics).
Name and type of organisation providing education and training	NERC Environmental Systems Science Centre (now part of Meteorology), University of Reading, UK
Level in international classification	ISCED 6
Dates	October 1993 to September 1994
Title of qualification awarded	M.Sc. in Remote Sensing (thesis supervisors: Prof. M. J. Barnsley and Prof. P. Lewis)
Principal subjects/occupational skills covered	Thesis title: "The Influence of Diffuse Sky Radiation on Bidirectional Reflectance, Its Modelling, Model Inversion, and the Determination of Albedo." Core courses in satellite technology, data acquisition, sensor and image geometry, digital image processing, GIS, digital mapping, and various remote sensing applications. Specialisation courses in remote sensing of oceans and climate, atmospheric physics, advanced image processing, and vegetation science.
Name and type of organisation providing education and training	University College London (UCL) and Imperial College, University of London, UK
Level in international classification	ISCED 6

Dates	October 1990 to June 1993
Title of qualification awarded	B.Sc. (Hons) in Physical Geography
Principal subjects/occupational skills covered	Specialisation courses in Remote Sensing (2 years), GIS and Cartography, Applied Climatology, and Tropical Environments.
Name and type of organisation providing education and training	University of Reading, UK
Level in international classification	ISCED 5

Training

Course (dates), & training organisation	<p>Intermediate Programming with IDL (08-10/01/2013), Exelis Vis / European Commission</p> <p>Application Development with IDL (08-10/01/2013), Exelis Vis / European Commission</p> <p>Extending ENVI with IDL (29-31/01/2013), Exelis Vis / European Commission</p> <p>Using ENVI with ARCGIS (20-21/02/2013), Exelis Vis / European Commission</p> <p>Geoprocessing using Python (20-22/03/2013), ESRI / European Commission</p> <p>Matlab Programming Techniques (06-07/05/2014), MathWorks / European Commission</p> <p>Statistical Methods in Matlab (16-17/04/2014), MathWorks / European Commission</p> <p>Simulink for System & Algorithm Modelling (26-27/09/2013), MathWorks / European Commission</p> <p>Ethics and Integrity (03/10/2012), European Commission</p> <p>Speech Writing (11/12/2012), European Commission</p> <p>Public Speaking (28-29/12/2013), European Commission</p> <p>Scientific Writing (07-08/03/2013), European Commission</p> <p>Safety at Work – General Module (04/07/2014), European Commission</p> <p>Safety at Work – Firefighting (14/02/2014), European Commission</p> <p>Basics of Radioactivity for Non-Exposed Personnel (25/07/2013), European Commission</p> <p>INSPIRE EU Directive on Spatial Data (31/03/2014), European Commission</p> <p>The History and Stories Behind European Integration (24/06/2014), European Commission</p> <p>Advanced Outlook (14/05/2015), Microsoft / Best STL</p> <p>Introduction to Metrology (15/06/2015), National Physical Laboratory, UK</p> <p>Risk Assessment (01/07/2015), National Physical Laboratory, UK</p> <p>Fire Safety (22/07/2015), National Physical Laboratory, UK</p> <p>Manual Handling (24/09/2015), National Physical Laboratory, UK</p> <p>Wellness - MIND - Stress Management (26/11/2015), National Physical Laboratory, UK</p> <p>Getting to the point masterclass (19/04/2017), National Physical Laboratory, UK</p> <p>Impact from science workshop (08/07/2017), National Physical Laboratory, UK</p> <p>Strategic Thinking Workshop - Leadership Excellence (10/07/2017), National Physical Laboratory, UK</p>
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Personal skills & competences

Mother tongue(s)
Other language(s)
Self-assessment
European level ()*

English

Greek, Italian, French, German

English
French
German
Greek
Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient User	C2	Proficient User	C2	Proficient User	C2	Proficient User	C2	Proficient User
A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User
A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User	A1	Basic User
B2	Independent User	B2	Independent User	B2	Independent User	B2	Independent User	B2	Independent User
B2	Independent User	B2	Independent User	B2	Independent User	B2	Independent User	B2	Independent User

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences

In my opinion, modern scientific research is best carried out in dedicated teams or collaborative networks. This has been reinforced through the numerous European projects I have been involved in where I have developed good project management and teamwork skills and a real appreciation for what collaborative efforts can achieve. I have developed my communication and presentation skills to a higher level during each consecutive project. Furthermore, living and working in a number of different European countries and the international nature of these research projects has also exposed me to multicultural environments. This has broadened my perspective, scientifically and personally, and improved my ability to collaborate with colleagues from all over the world.

Organisational skills and competences

- Successful organization of the work plan, timetable and deadlines, deliverables, personnel, and budget for a number of European Commission and European Space Agency projects.
- Successful organization and scientific lead of numerous research cruises, field surveys, lab and round-robin intercomparisons and scientific equipment installations within the framework of international research projects.
- Head of Lab – Management of HCMR Remote Sensing and Image Processing Laboratory (2007-12).
- Head of station and principal investigator – NASA AERONET (FORTH_CRETE site, 2005-2017).
- Organization and teaching of M.Sc. lecture series on "Satellite Remote Sensing – Environmental Monitoring - Remote Sensing in Oceanography", University of Crete
- Chair of IEEE/OES Baltic Symposium, IGARSS 2015 sessions and ESA international workshop and laboratory intercomparisons.
- Organisation, management and system administration of the NPL earth observation computing infrastructure, including Chair of the NPL-EO computing and software development committee, purchasing and configuring the NPL-EO server, and negotiating and administering the NPL-EO workspace and account on the UK's environmental and climate research supercomputer JASMIN.

Technical skills and competences

- Extensive computer programming and system administration experience on UNIX and Linux networks (see below)
- Field data collection expertise with hyperspectral radiometers and marine IOP sensors (e.g. GER-1500, TRIOS RAMSES, WetLabs ECO Backscatter and ACS), acquired during satellite data validation work in research projects
- Georeferencing and geodetic expertise with GPS/DGPS hand helds, fixed and portable stations, acquired during surveys for research projects
- Marine video and sonar survey expertise (side scan, sea bottom classification, bathymetric), acquired during research project cruises
- Landscape geometry and land cover survey experience as input to vegetation canopy radiative transfer models, acquired during Ph.D. fieldwork

Computer skills and competences

Operating System and Networks

- Linux (from 2000 to present): system administration and user experience of LINUX on networked PCs, servers, clusters, NAS, laptops and the UK environmental super computer JASMIN (Red Hat, Mandrake, SUSE, Debian, Fedora, Ubuntu, Centos)
- MacOS (from 2012 to present) user experience of OSX on networked iMac and Macbook Pro
- UNIX (from 1990 to 2000): system administration and user experience of UNIX (SOLARIS and SUNOS versions) on networked SUN workstations
- Windows (from 1987 to present): user experience of DOS and WINDOWS (3.1, 98, NT, XP) on networked PCs and laptops

Specialist Software

- Modelling/Maths: MATLAB mathematical analysis and visualization software; DX/OpenDX; SURFER; Second Simulation of the Satellite Signal in the Solar Spectrum (6S); HYDROLIGHT radiative transfer numerical model for natural water bodies; LOWTRAN-MODTRAN; Bidirectional Reflectance Distribution Function (BRDF) code (some self generated)
- Remote Sensing/Image Analysis: BEAM-VISAT; ENVI; ERDAS; ERMAPPER; HIPS; I2S; IDL; MUSIPS; PCI EASI-PACE; PVWAVE; R-CHIPS; SEADAS; UNIRAS
- GIS and Databases: ARC-GIS; ARC-INFO; ARC-VIEW; GRASS; IDRISI; POST-GIS and POSTGRESQL
- Marine: GeoPro sidescan sonar data acquisition; MATISSE underwater video mosaicing; HYPACK MAX navigation and tracking; SEETRACK marine survey; MAXSEA professional marine navigation and charting; ROXANN/ROXMAP sea bed data acquisition and classification; TRACKPOINT ROV navigation system; SEANET Trittech sonar data acquisition

Programming Languages

- Expert: Python, IDL, UNIX/Linux shell programming, perl, awk, Matlab, C.
- Extensive previous experience: FORTRAN, sed, aml programming for ARC-INFO, Visual BASIC, HTML.

Business and Office

During my 3 years of non-academic employment I gained programming experience in FORTRAN, NATURAL and COBOL using an IBM 3090 mainframe and experience of many business software packages and systems analyst work. I also have graphic design and desktop publishing expertise with software such as AUTOCAD, COREL DRAW, ILLUSTRATOR, PHOTOSHOP and QUARK XPRESS. I have an excellent command of all OFFICE tools (Microsoft and OpenOffice).

Earth Observation Data

I have worked extensively with data from many optical, infrared and microwave sensors (e.g. ATM, CASI, LIDAR, TM, SPOT, MERIS, ATSR-2, AVHRR, MODIS, SeaWiFS, MSI, OLCI, SAR and ASAR, TOPEX/POSEIDON and JASON radar altimeters) with particular expertise in HDF and NetCDF file formats.

Other skills and competences

- BSAC and PADI qualified scuba diver (up to rescue diver level with some technical diving experience for the installation of scientific equipment)
- Certified yacht captain for yachts up to 15m

Driving licence

- Full UK clean driving licence with entitlement to drive vehicle categories B, BE, C1, C1E, D1, D1E, F, K, L, N, P.
- Full European (Greek) professional clean driving licence with entitlement to drive vehicle categories AM, A, B1, B, C1, D1, BE, C1E, D1E.

Additional information

Publications

Author of >70 papers in peer reviewed journals and international conference proceedings.

Example Publications:

Ruddick, K.G., Voss K., **Banks, A.C.**, Boss, E., Castagna A., Frouin R., Hieronymi M., Jamet, C., Johnson B.C., Kuusk J., Lee, Z., Ondrusek M., Vabson, V. and Vendt, R., 2019. A Review of Protocols for Fiducial Reference Measurements of Downwelling Irradiance for the Validation of Satellite Remote Sensing Data over Water. *Remote Sensing*. 2019, 11, 1742; doi:10.3390/rs11151742.

Gorroño, J., Hunt, S., Scanlon, T., **Banks, A.**, Fox, N., Woolliams, E., Underwood, C., Gascon, F., Peters, M., Fomferra, N., Govaerts, Y., Lamquin, N. and Bruniquel, V., 2018. Providing uncertainty estimates of the Sentinel-2 Top-of-Atmosphere measurements for radiometric validation activities. *European Journal of Remote Sensing 01/2018; 51(1)*, pp. 650-666.

Banks, A.C., Hunt, S.E., Gorroño, J., Scanlon, T., Woolliams, E.R., and Fox, N.P., 2017. A comparison of validation and vicarious calibration of high and medium resolution satellite-borne sensors using RadCalNet. *Proceedings of SPIE Remote Sensing Conference: Satellite-based imaging systems and the data generated by them, 11-14 September, Warsaw, Poland*.

Gorroño, J., **Banks, A.**, Fox, N. and Underwood, C., 2017. Radiometric Inter-Sensor Cross-Calibration Uncertainty using a Traceable High Accuracy Reference Hyperspectral Imager. *ISPRS Journal of Photogrammetry and Remote Sensing 130*, pp. 393-417.

Karageorgis, A.P., Drakopoulos, P.G., Psarra, S., Pagou, K., Krasakopoulou, E., **Banks, A.C.**, Velaoras, D., Spyridakis, N. and Papathanassiou, E., 2017. Particle characterization and composition in the NE Aegean Sea: combining optical methods and biogeochemical parameters. *Continental Shelf Research*, <https://doi.org/10.1016/j.csr.2017.03.008>.

Kharbouche, S., Muller, J-P., Gatebe, C.G., Scanlon, T. and **Banks, A.C.**, 2017. Assessment of Satellite-derived Surface Reflectances using NASA's Airborne Cloud Absorption Radiometer over Railroad Valley, *Remote Sensing 9(6)*, 562.

Talone, M., Zibordi, G., Ansko, I., **Banks, A.C.** and Kuusk, J., 2016. Stray Light Effects in Above-water Remote Sensing Reflectance from Hyperspectral Radiometers. *Applied Optics* Vol.55, No.15, pp. 3966-3977.

Gorroño, J., **Banks, A.**, Gascon, F., Fox, N., Underwood, C., 2016. Novel techniques for the analysis of the TOA radiometric uncertainty, *Proceedings of SPIE Remote Sensing Conference: Sensors, Systems, and Next-Generation Satellites XX, Edinburgh, UK*.

Banks, A.C. and Mélin, F., 2015. An Assessment of Cloud Masking Schemes for Satellite Ocean Colour Data of Marine Optical Extremes. *International Journal of Remote sensing* Vol. 36, No. 3, pp. 797-821.

Banks, A.C., Prunet, P., Chimot, J., Pina, P., Donnadille, J., Jeansou, E., Lux, M., Petihakis, G., Korres, G., Triantafyllou, G., Fontana, C., Ulses, C. and Fernandez, L., 2012. A Satellite Ocean Colour Observation Operator System for Eutrophication Assessment in Coastal Waters. *Journal of Marine Systems*, Vol. 94, pp. S2-15.

Capus, C., Coiras, E., **Banks, A.C.**, Smith, C.J., Tena-Ruiz, I. and Petillot, Y. (2008). "Data Correction for Classification from Sidescan Sonar Imagery", *IET Radar, Sonar and Navigation*, Vol. 2, No. 3, pp. 155-169.

Triantafyllou, G., Korres, G., Hoteit, I., Petihakis, G., and **Banks, A.C.** (2007). "Assimilation of Ocean Colour Data into a Biogeochemical Flux Model of the Eastern Mediterranean Sea", *Ocean Science*, Vol. 3, No. 3, pp. 397-410.

Matsoukas, C., **Banks, A.C.**, Hatzianastassiou N., Pavlakis, K.G., Hatzidimitriou, D., Drakakis, E., and Vardavas, I. (2007). "Monthly Energy Budget of the Red and Black Seas", *Journal of Geophysical Research: Oceans*, 112, C10017.

Smith, C.J., **Banks, A.C.** and Papadapoulou-Smith, N. (2007). "Improving the Quantitative Estimate of Trawling Impacts from Sidescan Sonar and Underwater Video Imagery", *ICES Journal of Marine Science*, Vol 64, pp. 1692-1701.

Matsoukas, C., **Banks, A.C.**, Hatzianastassiou, N., Pavlakis, K.G., Hatzidimitriou, D., Drakakis, E. and Vardavas, I. (2005). Monthly Energy Budget of the Mediterranean Sea, *Journal of Geophysical Research: Oceans*, 110, C12008.

Banks, A.C., Drakopoulos, P. and Tsimplis, M. (2004). "Investigation of Sea Level Around the Island of Gavdos from Ten Years of TOPEX/POSEIDON Satellite Altimetry Data", *Mediterranean Marine Science*, Vol.5, 1, pp. 05-17.

Burke, E.J., **Banks, A.C.** and Gurney, R.J. (1997). "Remote Sensing of Soil-Vegetation-Atmosphere Transfer Processes", *Progress in Physical Geography*, 21, 4, pp. 549-572.

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Awards

- Halford Mackinder University award for the best undergraduate dissertation of the year (1993 - Remote sensing).
- Distinction for M.Sc. research thesis (1994 - "The Influence of Diffuse Sky Radiation on Bidirectional Reflectance, Its Modelling, Model Inversion and the Determination of Albedo").
- CASE industrial scholarship award for Ph.D. thesis (1994-2000 - "Modelling Surface Reflectance for the Simulation of Remotely Sensed Data")

Professional Memberships

- Member of European Commission's Fifth Framework Expert Evaluators Panel for Sustainable Marine Ecosystems under the Energy, Environment and Sustainable Development Programme
- Member of IEEE and IEEE Geoscience and Remote Sensing Society
- Member of the International Society for Optical Engineering (SPIE)
- Member of the Remote Sensing and Photogrammetry Society
- Member of the European Geophysical Union
- Member of the AGU's scientific panel on climate change information for the Copenhagen summit
- Member of the International Ocean Colour Coordinating Group's Working Group on the Future of Ocean Colour System Vicarious Calibration (2017-present)
- Member of the UK Space Agency Earth Observation Committee (2016-2018)
- Regular referee for the International Journal of Remote Sensing, Remote Sensing of Environment, Optics Express and Frontiers in Marine Science
- Lead Guest Editor for MDPI Remote Sensing journal "Special Issue on Fiducial Reference Measurements for Satellite Ocean Colour (FRM4SOC)"
- General Editorial Board Member for MDPI Remote Sensing journal (July 2019-present)

European / International Projects

- HYPERNAV (NASA, 2020-2023) – scientist responsible for HCMR
- FRM based SST validation in the Cretan Sea (EUMETSAT, 2019-2022) – scientist responsible for HCMR
- ROSACE (EUMETSAT, 2018-2019) - Radiometry for Ocean Colour Satellites Calibration & Community Engagement, scientist responsible for NPL => HCMR earth observation and ocean colour system vicarious calibration principal investigator
- METEOC-3 (EMPIR, 2017-2020) – Metrology in Earth Observation and Climate 3, Ocean WP lead
- C3S (ECMWF, 2017-2019) – Copernicus Climate Change Service, participation
- S2RADVAL (ESA project, 2016-2018) – Sentinel 2 Radiometric Validation, participation
- FRM4SOC (ESA project, 2016-2019) – Fiducial Reference Measurements for Satellite Ocean Colour, scientist responsible for NPL
- FRM4STS (ESA project, 2015-2018) Fiducial Reference Measurements for Surface Temperature derived from Satellites, participation
- GAIACLIM (FP7 IP, 2015-2019) - Gap Analysis for Integrated Atmospheric ECV Climate Monitoring, participation
- FIDUCEO (FP7 IP, 2015-2019) - Fidelity and Uncertainty in Climate Data Records from Earth Observation, participation
- QA4ECV (FP7 IP, 2013-2017) – Quality Assurance for Essential Climate Variables, participation
- RadCalNet (CEOS, 2015-ongoing) – Radiometric Calibration Network, participation
- METEOC-2 (EMPIR, 2014-2017) – Metrology in Earth Observation and Climate 2, participation
- PERSEUS (FP7 IP, 2012-2015) - Policy-oriented Marine Environmental Research for the Southern European Seas, participation/responsible for HCMR remote sensing/marine optics contribution
- ESA COASTCOLOUR (ESA DUE, 2010-2011), scientist responsible for HCMR
- BOSS4GMES (FP6 IP, 2007-2010) - Building Operational Sustainable Services for GMES (Global Monitoring for Environment and Security), participation
- ESA Project 4452 (2007-2010) - High Resolution Phytoplankton Measurement using Earth Observation in 3 Key Areas in the Aegean Sea, scientist responsible for HCMR
- SESAME (FP6 IP, 2006-2010) - Southern European Seas: Assessing and Modelling the Changes in Ecosystems, participation/responsible for HCMR remote sensing contribution
- ESA ENVISAT Project 4813 (2007-2008) - Integration of ENVISAT MERIS Data into INSEA: A Data Integration System for Eutrophication Assessment in Coastal Waters, scientist responsible for HCMR
- INSEA (FP6 STREP, 2005-2008) - Data Integration System for Eutrophication Assessment in Coastal Waters, participation/responsible for HCMR remote sensing contribution
- IASON (FP6 Network, 2005-2006) - International Action for Sustainability of the Mediterranean and Black Sea Environment, participation
- NASA AERONET (NASA, 2005-2017) – NASA Aerosol Robotic Network, PI for Crete station.
- NERC Airborne Remote Sensing Project MC04/15 (2004-2007) - Coastal Marine Habitat Differentiation using Hyperspectral Remote Sensing Data, scientist responsible for HCMR
- NERC Airborne Remote Sensing Project MC04/16 (2004-2007) - Unravelling Long-term Deposition Upon a Tectonically Active Coastal Piedmont at Sfakion in Southern Crete, scientist responsible for HCMR
- ESA ENVISAT Project 1490 (2003-2006) - Use of ENVISAT Data to Derive the European Radiation Budget, scientist responsible for HCMR
- MED-CORE (FP5, 2002-2005) - From River Catchment Areas to the Sea: Comparative and Integrated Approach to the Ecology of the Mediterranean Coastal Zones for Sustainable Management, participation
- MAMA (FP5, 2002-2005) - Mediterranean Network to Assess and Upgrade the Monitoring and Forecasting Activity in the Region, participation
- AMASON (FP5, 2002-2004) - Advanced MAPPING with SONar and Video, participation
- GAVDOS (FP5, 2001-2004) - Establishment of a European Radar Altimeter Calibration and Sea-level Monitoring Site for JASON, ENVISAT and Euro-GLOSS, scientist responsible for HCMR

Greek National Projects

- Saronikos Gulf Monitoring Project (2007-2012), responsible for HCMR remote sensing contribution
- POSEIDON-II (2005-2012) - A Second Generation Monitoring and Forecasting System for the Eastern Mediterranean, responsible for HCMR remote sensing contribution
- Development of Marine Protected Zones with Artificial Reefs in Kalymnos, Preveza and Ierissos (2003-2005), participation
- NATURA 2000 (1999-2001) - Identification and Description of the 67 Marine Habitat Sites of Greece, participation