





**PERSONAL INFORMATION** **Manolis Ntoumas**

 Institute of Oceanography HELLENIC CENTRE FOR MARINE RESEARCH (HCMR)  
 Thalassocosmos Former US base at Gourmes, 71500 HERAKLION CRETE (Greece)  
 +30 2810 337722  
 mntou@hcmr.gr  
 Skype mntoum

**PERSONAL STATEMENT** Research engineer

**WORK EXPERIENCE**

- 20/06/2010–Present **Research engineer**  
Institute of Oceanography - HELLENIC CENTRE FOR MARINE RESEARCH
- 2007–2010 **Editorial assistant**  
Nautica – Yachts and Sails magazine., Athens (Greece)
- 2006–2007 **Computer hardware engineer**  
DBS Hellas, Athens (Greece)
- 2005–2006 **Computer hardware engineering technician**  
LINK-INFORM, Athens (Greece)
- 2000–2005 **Motorcycle delivery person**  
Chania (Greece)

**EDUCATION AND TRAINING**

- 2007–2009 **M.Sc. in Marine Technology and Science**  
National Technical University of Athens, Athens (Greece)
- 2000–2006 **B.Sc. in Electronic and Computer Engineering**  
Technical University of Crete, Chania (Greece)

**PERSONAL SKILLS**

Mother tongue(s) Greek

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Certificate of Proficiency, University of Michigan					

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
 Common European Framework of Reference for Languages

**Communication skills** Good communication skills gained through my participation in international research projects

**Organisational / managerial skills** Good task-leading skills gained through my participation in international research projects

**Digital skills**

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Independent user	Proficient user	Proficient user

Digital skills - Self-assessment grid

**Driving licence** A, B

**ADDITIONAL INFORMATION**

**Publications**

Scientific papers in peer reviewed journals

- Korres G, Ntoumas E, Potiris E, Petihakis G. Assimilating Ferry Box data into the Aegean Sea model (2014). 5th Ferrybox Workshop Special issue, Journal of Marine Systems DOI: 10.1016/j.jmarsys.2014.03.013
- Melchor González-Dávila, J. Magdalena Santana-Casiano, George Petihakis, Manolis Ntoumas, Miguel Suárez de Tangil, Evangelia Krasakopoulou. Seasonal pH variability in the Saronikos Gulf: A year-study using a new photometric pH sensor (2016). Journal of Marine Systems Volume 162, October 2016, Pages 37–46 DOI: 10.1016/j.jmarsys.2016.03.007
- Sara Pensieri, Roberto Bozzano, M. Elisabetta Schiano, Manolis Ntoumas, Emmanouil Potiris, Constantin Frangoulis, Dimitrios Podaras and George Petihakis. Methods and Best Practice to Intercompare Dissolved Oxygen Sensors and Fluorometers/Turbidimeters for Oceanographic Applications. Sensors 16(5):702 · May 2016. DOI: 10.3390/s16050702
- Potiris E., Frangoulis C., Kalampokis A., Ntoumas M., Pettas M., Petihakis G., and, V. Zervakis, 2018: ADCP observations of migration patterns of zooplankton in the Cretan Sea. Ocean Science, Special Issue: Coastal marine infrastructure in support of monitoring, science, and policy strategies. Ocean Science, Ocean Sci., 14, 783–800, DOI:10.5194/os-14-783-2018.
- 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 N. Zisis, 2018: An integrated open-coastal biogeochemistry, ecosystem and biodiversity observatory of the Eastern Mediterranean. The Cretan Sea component of POSEIDON system. Ocean Science, Special Issue: Coastal marine infrastructure in support of monitoring, science, and policy strategies. Ocean Science, 14, 1223-1245 DOI:10.5194/os-14-1223-2018.
- Pearlman J., Bushnell M., Coppola L., Buttigieg P., Pearlman F., Simpson P., Barbier M., Karstensen J., Muller-Karger F., Munoz-Mas C., Pissierssens P., Chandler C-L., Hermes J., Heslop E., Jenkyns R., Pieter Achterberg E., Bensi M., Bittig H., Blandin J., Bosch J-A., Bourlès B., Bozzano R., Buck J-H., Burger E-F., Cano D., Cardin V., Llorens M-C., Cianca A., Hua C., Cusack C., Delory E., Garelo R., Giovanetti G., Harscoat V., Heitsenrether R., Jirka S., Lara-Lopez A., Lanteri N., Leadbetter A-M., Manzella G., Masó J., Mccurdy A., Moussat E., Ntoumas M., Pensieri S., Petihakis G., Pinardi N., Pouliquen S., Przeslawski R., Roden N., Silke J., Tamburri M., Tang H., Tanhua T., Testor P., O Thomas J., Waldmann C. and F. Whoriskey, 2018: Evolving and Sustaining Ocean Best Practices and Standards for the Next Decade. Frontiers in Marine Science Front. Mar. Sci., 04 June 2019, DOI:10.3389/fmars.2019.00277

**Conferences**

Scientific publications in conference proceedings

- Soukissian TH, Ntoumas E, Anagnostou C, Kiriakidou C. Coastal Vulnerability of Eastern

Saronikos Gulf to intense natural events. Proceedings of the Twentieth (2010) International Offshore and Polar Engineering Conference Beijing, China, 20-25 June 2010, ISBN 978-1-880653-77-7 (Set), ISSN 1098-6189

- Ntoumas E, Kassis D, Potiris M, Ballas D, Chondronassios T, Pagonis P, Tsagaraki T, Podaras D, Manousakis L, Zervakis V, Drakopoulos P, Petihakis G, Nittis K. Activities of the calibration laboratory at HCMR-Crete - progress and challenges, Sixth EuroGOOS Conference, Sopot, Poland, 4 – 6 October, 2011, ISBN 978-91-974828
  - Drakopoulos P., Nittis K., Petihakis G., Kassis D., Pagonis P., Ballas D. and M. Ntoumas, 2011: Monitoring chlorophyll concentrations with the POSEIDON system's optical instruments. Sustainable Operational Oceanography, Sixth EuroGOOS Conference, Sopot, Poland, 4 – 6 October, 2011, ISBN 978-91-974828
  - Bozzano R, Pensieri , Tsagaraki TM, Cardin V, Pensieri L, Petihakis G, Brunetti F, Ntoumas E, Podaras D, Perivoliotis L. The M3A Network of Open Ocean Observatories in the Mediterranean Sea. OCEANS'13 MTS/IEEE, Bergen, Norway, 10-13 June 2013 DOI: 10.1109/OCEANS-Bergen.2013.6607996
  - Puillat I., Sparnocchia S., Farcy P., Bozzano R., Borghini M., Coppola L., Cusi S., Medeot N., Nair R., Ntoumas M., Olita A., Pensieri S., Petihakis G., Ribotti A., Ruiz S., Schroeder K. and J. Tintore, 2013: JERICO : A joint European research infrastructure network for coastal observatories supporting marine research in the Mediterranean sea, 40th CIESM Congress – Marseille, France, 28 October - 1 November 2013, Rapp. Comm. int. Mer Médit., 40, 2013, ISBN 978-91-974828
  - Potiris M., Ntoumas M., Frangoulis C. and G. Petihakis, 2014: Preliminary results from interannual sampling cruise in support of a multiparametric, open sea observatory: Cross-validation and inter-comparison. Operational Oceanography for Sustainable Blue Growth, 7<sup>th</sup> EuroGOOS Conference, 28 - 30 October, 2014, Lisbon, Portugal.
  - Pensieri S., Bozzano R., Ntoumas M., Potiris M., Podaras D. and G. Petihakis, 2014: New Tools for Dissolved Oxygen, Fluorescence and Turbidity Sensors Testing and Intercomparison. Operational Oceanography for Sustainable Blue Growth, 7<sup>th</sup> EuroGOOS Conference, 28 - 30 October, 2014, Lisbon, Portugal
  - Petihakis G., Potiris M., Ntoumas M., Frangoulis K., Tsiaras K., Tsiaras K., Triantafyllou G and A. Pollani, 2015: Observing the ocean with different platforms/methods. Advantages, disadvantages and lessons learnt. European Geosciences Union General Assembly 2015, 12 – 17 April 2015, Vienna, Austria.
  - Anders Tengberg, Dariia Atamanchuk, Michele Giani, Melchor Gonzalez Davila, Per Hall, Manolis Ntoumas, Mikhail Kononets, Michel Masson, Kiminori Shitashima: In-situ comparison of eight different sensor technologies to measure pCO<sub>2</sub> and pH on a cabled observatory, EGU General Assembly 2015, held 12-17 April, 2015 in Vienna, Austria. id.13028, 2015EGUGA..1713028T
  - Potiris M., Petihakis G., Frangoulis C., Ntoumas M., Pettas M. and A. Kalampokis, 2016: ADCP observations of migration patterns of zooplankton in the Cretan Sea. A connected ocean: new approaches, new technologies, new challenges for knowledge of ocean processes, ACO 2016. 1-13 Oct Brest, France
  - Perivoliotis L., Petihakis G., Korres M., 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 M., Triantafyllou G., Papadopoulos A., Tsiaras K., and S. Velanas 2017: The POSEIDON system, an integrated observing infrastructure at the Eastern Mediterranean as a contribution to the European Ocean Observing System. Serving Sustainable Marine Development, 8<sup>th</sup> EuroGOOS Conference, 3-5 October, 2017 Bergen, Norway, pp. 53-61
  - Petersen W., Colijn F., Gorringer P., Kaitala S., Karlson B., King A., Lips U., Ntoumas M., Seppälä J., Sørensen K., Petihakis G., De La Villeon L.P and H. Wehde 2017: FerryBoxes within Europe: State-of-the-art and Integration in the European Ocean Observation System (EOOS). Serving Sustainable Marine Development, 8<sup>th</sup> EuroGOOS Conference, 3-5 October, 2017 Bergen, Norway, pp. 63-66
- Selected scientific and technical reports**
- Petihakis, G. Sorensen, K. Hernandez, C. Testor, P. Ntoumas, M. Petersen, W. Mader, J. and Mortier, L. (2012) JERICO Report on best practice in conducting operations and maintaining: D 4.4. Issy-les-Moulineaux, France, Ifremer for JERICO Project, 176pp. DOI:10.13155/49741
  - Nair R., N. Medeot, G. Petihakis and M. Ntoumas (2014). Guidelines for Uncertainty. D5.4 (jerico-fp7.eu).
  - Anders Tengberg, Dariia Atamanchuk, Michele Giani, Melchor Gonzalez Davila, Per Hall, Manolis

Ntoumas, Mikhail Kononets, Michel Masson, Kiminori Shitashima. (2015) A scientific report of the results from an inter-comparison experiment. Evaluation of pCO<sub>2</sub> sensors for coastal applications. D12.1 (fixo3.eu)

- L. Coppola, M.Ntoumas, R. Bozzano, M. Bensi, S. Hartman, M. Charcos Llorens, J.Craig, JF. Rolin, G. Giovanetti, D. Cano, J. Karstensen, A. Cianca, D. Toma, C. Stasch, S. Pensieri, V. Cardin, A. Tengberg, G.Petihakis, L.Cristin. (2016) FIXO3 - Handbook of best practices for open ocean fixed observatories.(fixo3.eu)
- Laura Lorenzoni . Maciej Telszewski. Heather Benway. Artur Palacz. Steffen Aßmann, Daria Atamanchuk, Henry Bittig, Phil Bresnahan, Peter Brown, Geoffrey Carlin, Adam Comeau, Douglas Connelly, Bryan Downing, Andrea Fassbender, Björn Fiedler, Srikanth Gedela, Thanos Gkritzalis, Angelos Hannides, Sue Hartman, Ken Johnson, Chris L'Esperance, Christian Lønborg, Socratis Loucaides, Jian Ma, Rajesh Nair, Craig Neill, Manolis Ntoumas, Ella Pereira, Antoine Poteau, Victoire Rérolle, Paul Rigby, Ute Schuster, Kyle Simpson, Reggie Spaulding, Tom Trull, Adam Ulfsbo, Yoana Voynova. (2017) An outcome from the 1st IOCCP International Sensors Summer Course, June 22 – July 1, 2015, Kristineberg, Sweden. Sopot, Poland, IOCCP, 83pp. (IOCCP Report No. 2/2017). <http://hdl.handle.net/11329/397>
- Sophie Van Ganse, Enoc Martinez, Florence Salvetat, Christian Le Gall, Joaquin del Rio, Daniel Toma, Jérôme Blandin, Laure Niclas Chirurgien, Dominique Lefèvre, Manolis Ntoumas, George Petihakis, Laurent Coppola, Paolo Favali, Juanjo Danobeitia (2019) Handbook of Best Practices with 2 main chapters: metrology and Sensor Web Enablement ( <http://emso.eu/emso-link>)

**Courses** IOCCP Summer Course on biogeochemical sensors. Sven Lovén Center for Marine Sciences in Kristineberg, Sweden, June 22-July 1, 2015

**Projects** Participation in national and EU projects

- 2011-2015: JERICO-*Towards a Joint European Research Infrastructure Network for Coastal Observatories* (EC FP7-INFRASTRUCTURES)
- 2013-2015: SEAMAN - *Spatially resolved Ecosystem models and their Application to Marine MANagement*. - SEAS-ERA, EU ERA-Net initiative (7th Framework Programme).
- 2013-2017: FixO3-*Fixed point Open Ocean Observatory network* (EC FP7-INFRASTRUCTURES)
- 2013- 2016: Deep Co Housing - *DEEP-CO-HOUS, πρόγραμμα ΕΣΠΑ-ΣΥΝΕΡΓΑΣΙΑ*
- 2015-2019: JERICO-NEXT- *Joint European Research Infrastructure network for Coastal Observatory – Novel European eXpertise for coastal observaTories* (EC H2020-INFRAIA)
- 2015-2017: Implementation of an integrated marine monitoring program, Funded by EEA Financial Mechanism
- 2017-2020: EMSOLink-*Implementation of the Strategy to Ensure the EMSO ERIC's Long-term Sustainability*
- 2018-2020:HIMIOFOTS-*Hellenic Integrated Marine Inland water Observing, Forecasting and Offshore Technology System*
- 2018-2021: CLAIM-*Cleaning Litter by developing and Applying Innovative Methods in European seas (EC H2020)*

**Memberships** 2007- present: Member of the Technical Chamber of Greece

**Certifications** Sailing boat operator certificate  
Small boat operator certificate