

PERSONAL INFORMATION

FRANGOULIS, CONSTANTIN



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- <http://www.researcherid.com/rid/G-9446-2011>

Sex Male | Date of birth 04/10/1970 | Nationality Greek - Belgian

OCCUPATIONAL FIELD

Biological Oceanographer (Operational Ecology)

WORK EXPERIENCE

From July 2002 to today

Research Scientist, Biological Oceanographer

Hellenic Centre for Marine Research, PO Box 2214, 71003, Heraklion-Crete, Greece

- Coordination of WP /Participation in European and National Greek research projects related to Mediterranean Sea marine science with particular emphasis on biogeochemical cycles, plankton ecosystem functioning, parameterization-validation of ecological models, biogeochemical time series, operational ecology

Sector Research centre

From 1996 to June 2002

Research Scientist, Biological Oceanographer

University of Liege, Belgium

- Doctoral research position in the University of Liege, Belgium

Sector University

EDUCATION AND TRAINING

From 1996 to 2002

Ph.D. Oceanography

University of Liege (Belgium)

- Mesozooplankton outfluxes in coastal areas

From 1994 to 1996

MSc Oceanography

University of Liege (Belgium)

- Experimental approach for the study of production and sinking of copepod products in the southern North Sea

From 1988 to 1994

BSc Biology

University of Louvain-la-Neuve (Belgium)

- Study of motility and invasion of adenocarcinoma mammary cells in a in vitro culture model

PERSONAL SKILLS

Mother tongue(s)

Greek, French

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Dutch

	B1	A1	B1	A2	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills, organisational skills and competence

Involved as WP leader, WP leader assistant, PI or researcher, in several EU and national programs. Local organiser of International and European scientific conferences. Greek national contact of the international project IMBER (Integrated Marine Biogeochemistry and Ecosystem Research)

Digital skills

- Microsoft Office, Word, MATLAB and Excel through training and work
- data management-visualisation softwares (ODV, Surfer, PRISM) through training and work
- image analysis softwares (Image-Pro Plus, Zoolmage)

Other skills

- author in several peer-reviewed scientific papers
- manuscript reviewer in several scientific journals
- proposal reviewer
- supervision of PhD and MSc students
- training of students

Driving licence

A, B, boat

ADDITIONAL INFORMATION

Publications

Tintoré J, Pinaridi N, Álvarez-Fanjul E, Aguiar E, Álvarez-Berastegui D, 3364 Bajo M, Balbin R, Bozzano R, Nardelli BB, Cardin V, Casas B, Charcos-Llorens M, 3365 Chiggiato J, Clementi E, Coppini G, Coppola L, Cossarini G, Deidun A, Deudero S, 3366 D'Ortenzio F, Drago A, Drudi M, El Serafy G, Escudier R, Farcy P, Federico I, Fernández JG, Ferrarin C, Fossi C, **Frangoulis C**, Galgani F, Gana S, García 3367 Lafuente J, Sotillo MG, Garreau P, Gertman I, Gómez-Pujol L, Grandi A, Hayes D, 3368 Hernández-Lasheras J, Herut B, Heslop E, Hilmi K, Juza M, Kallos G, Korres G, 3369 Lecci R, Lazzari P, Lorente P, Liubartseva S, Louanchi F, Malacic V, Mannarini G, 3370 March D, Marullo S, Mauri E, Meszaros L, Mourre B, Mortier L, Muñoz-Mas C, 3371 Novellino A, Obaton D, Orfila A, Pascual A, Pensieri S, Pérez Gómez B, Pérez

Rubio S, Perivoliotis L, Petihakis G, de la Villéon LP, Pistoia J, Poulain P-M, 3372 Pouliquen S, Prieto L, Raimbault P, Reglero P, Reyes E, Rotllan P, Ruiz S, Ruiz J, 3373 Ruiz I, Ruiz-Orejón LF, Salihoglu B, Salon S, Sammartino S, Sánchez Arcilla A, 3374 Sánchez-Román A, Sannino G, Santoleri R, Sardá R, Schroeder K, Simoncelli S, 3375 Sofianos S, Sylaios G, Tanhua T, Teruzzi A, Testor P, Tezcan D, Torner M, Trotta F, Umgiesser G, von Schuckmann K, Verri G, Vilibic I, Yucel M, Zavatarelli M and 3376 Zodiatis G (2019). Challenges for Sustained Observing and Forecasting Systems in 3377 the Mediterranean Sea. *Front. Mar. Sci.* 6:568. <https://doi.org/10.3389/fmars.2019.00568>

Kasapidis, P., Siokou, I., Khelifi-Touhami, M., Mazzocchi, M. G., Matthaiaki, M., Christou, E., Fernandez de Puellas, M. L., Gubanova, A., Di Capua, I., Batziakas, S. and **Frangoulis, C.** (2018). Revising the taxonomic status and distribution of the *Paracalanus parvus* species complex (Copepoda, Calanoida) in the Mediterranean and Black Seas through an integrated analysis of morphology and molecular taxonomy, *J. Plankton Res.*, 40(5), 595–605. <http://dx.doi.org/10.1093/plankt/fby036>

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(5), 1223–1245. <http://dx.doi.org/10.5194/os-14-1223-2018>

Potiris, E., **Frangoulis**, C., Kalampokis, A., Ntoumas, M., Pettas, M., Petihakis, G. and Zervakis, V. (2018). Acoustic Doppler current profiler observations of migration patterns of zooplankton in the Cretan Sea. *Ocean Sci.*, 14(4), 783–800. <http://dx.doi.org/10.5194/os-14-783-2018>

Frangoulis, C., Grigoratou, M., Zoulias, T., Hannides, C. C. S., Pantazi, M., Psarra, S. and Siokou, I. (2017). Expanding zooplankton standing stock estimation from meso- to metazooplankton: A case study in the N. Aegean Sea (Mediterranean Sea). *Cont. Shelf Res.*, 149, 151–161. <http://dx.doi.org/10.1016/j.csr.2016.10.004>

Kokkini, Z., Zervakis, V., Mamoutos, I., Potiris, E., **Frangoulis**, C., Kioroglou, S., Maderich, V. and Psarra, S. (2017). Quantification of the surface mixed-layer lateral transports via the use of a HF radar: Application in the North-East Aegean Sea. *Cont. Shelf Res.*, 149, 17–31. <http://dx.doi.org/10.1016/j.csr.2017.04.006>

Lagaria A., Mandalakis, M., Mara, P., **Frangoulis**, C., Karatsolis, B.-Th., Pitta, P., Triantaphyllou, M., Tsiola, A. and Psarra, S. (2017). Phytoplankton variability and community structure in relation to hydrographic features in the NE Aegean frontal area (NE Mediterranean Sea). *Cont. Shelf Res.*, 149, 124–137. <http://dx.doi.org/10.1016/j.csr.2016.07.014>

IF (CiteScore 2017): 2.30

Αναφορές:7

Mamoutos, I., Zervakis, V., Tragou, E., Karydis, M., **Frangoulis**, C., Kolovoyiannis, V., Georgopoulos, D. and Psarra, S. (2017). The role of wind-forced coastal upwelling on the thermohaline functioning of the North Aegean Sea. *Cont. Shelf Res.*, 149, 52–68, <http://dx.doi.org/10.1016/j.csr.2017.05.009>

Pitta, P., Kanakidou, M., Mihalopoulos, N., Christodoulaki, S., Dimitriou, P. D., **Frangoulis**, C., Giannakourou, A., Kagiorgi, M., Lagaria, A., Nikolaou, P., Papageorgiou, N., Psarra, S., Santi, I., Tsapakis, M., Tsiola, A., Violaki, K. and Petihakis, G. (2017). Saharan Dust Deposition Effects on the Microbial Food Web in the Eastern Mediterranean: A Study Based on a Mesocosm Experiment. *Front. Mar. Sci.*, 4, 117, 1-19. <http://dx.doi.org/10.3389/fmars.2017.00117>

Tsiaras, K. P., Christodoulaki, S., Petihakis, G., **Frangoulis**, C. and Triantafyllou, G. (2017). Model Simulations of a Mesocosm Experiment Investigating the Response of a Low Nutrient Low Chlorophyll (LNLC) Marine Ecosystem to Atmospheric Deposition Events. *Front. Mar. Sci.*, 4. <http://dx.doi.org/10.3389/fmars.2017.00120>

Pensieri, S. Bozzano R., Schiano M. E., Ntoumas M., Potiris E., **Frangoulis** C., Podaras D. and Petihakis G. (2016). Methods and best practice to intercompare dissolved oxygen sensors and fluorometers/turbidimeters for oceanographic applications. *Sensors*, 16(5), 702. <http://dx.doi.org/10.3390/s16050702>

Pitta, P., Nejtgaard, J. C., Tsagaraki, T. M., Zervoudaki S., Egge, J. K., **Frangoulis**, C., Lagaria, A., Magiopoulos I., Psarra S., Sandaa R.-A., Skjoldal, E. F., Tanaka, T., Thyrrhaug, R. and Thingstad, T. F. (2016). Confirming the “Rapid phosphorus transfer from microorganisms to mesozooplankton in the Eastern Mediterranean Sea” scenario through a mesocosm experiment. *J. Plankton Res.* 38 (3), 502–521. <http://dx.doi.org/10.1093/plankt/fbw010>

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Zervoudaki, S., **Frangoulis**, C., Giannoudi, L. and Krasakopoulou E. (2014). Effects of low pH and raised temperature on egg production, hatching and metabolic rates of a Mediterranean copepod species (*Acartia clausi*) under oligotrophic conditions. *Medit. Mar. Science*, 15(1), 74-83. <http://dx.doi.org/10.12681/mms.553>

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Petihakis, G., Tsiaras, K., Triantafyllou, G., Korres, G., Tsagaraki, T., Tsapakis, M., Vavillis, P., Pollani, A. and **Frangoulis**, C. (2012). Application of a complex ecosystem model to evaluate effects of finfish culture in Pagasitikos Gulf, Greece. *J. Mar. Sys.* 94, S65-S77. <https://doi.org/10.1016/j.jmarsys.2011.11.002>

Frangoulis, C., Skliris, N., Lepoint G., ElKalay K., Goffart A., Pinnegar, J. K. and Hecq, J.H. (2011). Importance of copepod carcasses versus faecal pellets in the upper water column of an oligotrophic area. *Estuar. Coast. Shelf S.* 92, 456-463. <https://doi.org/10.1016/j.ecss.2011.02.005>

Tsagaraki, T.M., Petihakis, G., Tsiaras, K., Triantafyllou, G., Tsapakis, M., Korres, G., Kakagiannis, G., **Frangoulis**, C. and Karakassis, I. (2011). Beyond the cage: Ecosystem modeling for impact evaluation in aquaculture. *Ecol. Model.* 222, 2512-2523. <https://doi.org/10.1016/j.ecolmodel.2010.11.027>

Frangoulis, C., Carlotti F., Eisenhauer, L. and Zervoudaki, S. (2010). Converting copepod vital rates into units appropriate for biogeochemical models. *Prog. Oceanogr.*, 84, 43-51. <https://doi.org/10.1016/j.poccean.2009.09.005>

Frangoulis, C., Psarra, S., Zervakis, V., Meador, T., Mara, P., Gogou, A., Zervoudaki, S., Giannakourou, A., Pitta, P., Lagaria, A., Krasakopoulou, E. and Siokou-Frangou, I. (2010). Connecting export fluxes to plankton food web efficiency in the Black Sea waters inflowing into the Mediterranean Sea. *J. Plankton Res.* 32, 1203-1216. <https://doi.org/10.1093/plankt/fbq010>

Frangoulis, C., Christou, E., and Hecq, J.H. (2005). Comparison of marine copepod outfluxes: nature, rate, fate and role in the carbon and nitrogen cycles. *Adv. mar. Biol.* 47, 251-307. [https://doi.org/10.1016/S0065-2881\(04\)47004-7](https://doi.org/10.1016/S0065-2881(04)47004-7)

ElKalay, K., **Frangoulis, C.**, Skliris, N., Goffart, A., Gobert, S., Lepoint, G. and Hecq, J.H. (2003). A model of the seasonal dynamics of biomass and production of the seagrass *Posidonia oceanica* in the Bay of Calvi. *Ecol. Model.* 167, 1-18. [https://doi.org/10.1016/S0304-3800\(03\)00074-7](https://doi.org/10.1016/S0304-3800(03)00074-7)

Skliris, N., ElKalay, K., Goffart, A., **Frangoulis, C.** and Hecq, J.H. (2001). One-dimensional modelling of the plankton ecosystem of the north-western Corsican coastal area in relation to meteorological constraints. *J. Mar. Syst.*, 27, 337-362. [https://doi.org/10.1016/S0924-7963\(00\)00078-6](https://doi.org/10.1016/S0924-7963(00)00078-6)

Frangoulis, C., Belkhiria, S., Goffart, A. and Hecq, J.H. (2001). Dynamics of copepod faecal pellets in relation to a *Phaeocystis* dominated phytoplankton bloom: characteristics, production and flux. *J. Plankton Res.*, 23, 75-88. <https://doi.org/10.1093/plankt/23.1.75>

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Perivoliotis, L., Petihakis, G., 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, M., Triantafyllou, G., Papadopoulos, A., Tsiaras, K. and Velanas, S. (2017). The POSEIDON system, an integrated observing infrastructure at the Eastern Mediterranean as a contribution to the European Ocean Observing System. Proceedings of the 8th EuroGOOS Conference, Bergen, Norway, 3-5 October 2017. p.53-61 <http://eurogoos.eu/download/publications/EuroGOOS-2017-Conference-Proceedings.pdf>

Batziakas, S., Frangoulis, C., Carlotti, F., Dorgiaki, D., Tsagaraki, T. M., Nikolioudakis, N., Giannoulaki, M. and Somarakis, S. (2015). Assessing the power of size spectrum analysis in estimating the pelagic ecosystem status of Mediterranean areas over a wide range of combined pressures. PERSEUS Scientific Conference on "Integrated Marine Research in the Mediterranean and the Black Sea", Brussels, Belgium, 7-9 December 2015. p.361-362 <http://www.perseus-net.eu/assets/media/PDF/SC%20Brussels%207-9%20Dec%202015/6875.pdf>

Kassis, D., Schroeder, K., Pairaud, I. and Frangoulis, C. (2015). Upgrades and expansion of the existing observing systems in the Mediterranean and the Black Sea. PERSEUS Scientific Conference on "Integrated Marine Research in the Mediterranean and the Black Sea", Brussels, Belgium, 7-9 December 2015. p. 335-336 <http://www.perseus-net.eu/assets/media/PDF/SC%20Brussels%207-9%20Dec%202015/6875.pdf>

Pettas, M., Frangoulis, C. and Petihakis, G. (2015). A hydraulic winch to support deep CTD casts using small boats. Proceedings of PERSEUS Scientific Conference on "Integrated Marine Research in the Mediterranean and the Black Sea", Brussels, Belgium, 7-9 December 2015. p. 323-324 <http://www.perseus-net.eu/assets/media/PDF/SC%20Brussels%207-9%20Dec%202015/6875.pdf>

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Frangoulis, C. and Hecq, J.H. (2010). Comparison of mesozooplankton faecal pellet characteristics from the Southern North Sea and the Mediterranean Sea during spring bloom conditions. ICES Cooperative Research Report, 300, 21-23.
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